

# ROTHENBERGER

pipetool technologies at work

## 2012/2013











## Welcome to the world of ROTHENBERGER.

The ROTHENBERGER product program stands for quality and technology from one source. With this we offer our customers a comprehensive partnership for the future. Having manufactured and sold more than 5,000 products, ROTHENBERGER has the most extensive program for modern premium piping tools and machines worldwide. Technological innovative products are offered in 11 application groups for installation, service & repair, refrigeration & air-conditioning technology and general-purpose tools.

- Cutting
- RODIA® Diamond Core Drilling & Cutting
- Bending
- Bonding
- Testing & Leak Detection
- Freezing
- Inspection & Locating
- Flushing & Pipe Cleaning
- ROWELD® Plastic Pipe Welding
- Refrigeration & Air-Conditioning Technology
- General-Purpose Tools





## We give our all, so that you have the best tool in your hand.

Our customers are our focus in everything we do. All processes are directed so that our customer satisfaction reaches 100%.

That is why research and development based on the precise knowledge of the market and the users needs are extremely important to us at ROTHENBERGER, which is impressively displayed with our 150 international patents and registered trademarks.

In both TEC Centers, Kelkheim/Germany and Abadiano/Spain, we are developing the innovative products needed to provide solutions and meet the challenges of tomorrow. At many of our international locations, our engineers are researching and developing solutions for the local markets.

The collaboration with end-users and experts all over the world is an essential element to our innovations process. We want to recognize and understand the applications for which an adequate tool is not yet available. In order to improve our time to market, we have consequently implemented the ROTHENBERGER Idea-to-Value-Process 12V.





As a matter of course, we continue to work with this same intensity on product advancements in our current program.

As part of our company culture we have committed ourselves to a continued optimization in the process and product quality. Within the framework of our program ROTHENBERGER Operational Excellence - ROPEX - we are working with a standardised improvement method and are directing our goals on internal and external benchmarks.

On the basis of process and technological know-how, new information technology and synergetic effects are continually refined by our quality management.

"The development of technologically high-quality products, as well as the qualification of our employees and end-users, is a defining factor in our success", confirmed CEO Dr. Helmut Rothenberger, "That is why we, as a family business and regardless of developing market conditions, will continue to focus on competence and innovative supportive activities in all our future business activities."

For more information about our various activities and distinctive customer service visit:

[www.rothenberger.com](http://www.rothenberger.com)





## Quick help and the best possible service.

The two global logistic centers in Germany and Spain deliver merchandise directly to our trade partners in more than 12 European countries. Together, with other local logistic centres in 21 countries, they build the international ROTHENBERGER supply chain network.

The stock supply of ROTHENBERGER core products, short lead times, optimal processes, state of the art high bay racking and efficient transport systems, are the keys to being able to supply 97% of our customers within 48 hours.

ROTHENBERGER has a network of over 150 certified service stations available worldwide. With the service equipment standards, training of the service personnel, the documentation and the spare-part supply, every ROTHENBERGER customer is guaranteed to receive the best possible service world wide. We place special value on short service lead times, so that our customers can get back to work as quickly as possible.

In the ROTHENBERGER call centres, customer questions regarding the product and its range of uses, are answered competently and in the respective language.





## We are there where you need us.

Everywhere in the world where pipes are connected, installed, tested or serviced, ROTHENBERGER tools are being used. In the last few years we have expanded our global presence and are now represented in over 90 countries.

Regardless in which country we are represented, product responsibility all the way to the end-user is our number one priority. More than 500 sales representatives worldwide help make the quality and technology of ROTHENBERGER tools vivid. Over 200 specially equipped demonstration vehicles, a qualified partnership with the retail market and exhibits in more than 120 trade shows are further guarantees of our close contact to you and your craft.





## Water and energy for the poorest regions of the world: TOOLS FOR LIFE Foundation.

Like the arteries in the human body, piping brings people the urgently needed water and energy required to live - and often survive.

It is for this reason that TOOLS FOR LIFE was founded. The goal of the foundation is to offer worldwide support for projects that focus on water and energy supply. To this end, we are supporting people whose daily work

focuses on creating and maintaining these lifelines by providing them with products, donations, know-how and with on-site assignments of ROTHENBERGER employees.

If you also would like to support TOOLS FOR LIFE please visit: [www.toolsforlife-foundation.de](http://www.toolsforlife-foundation.de)

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# Cutting

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# Cutting

## Cutting Metal Manual

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### TUBE CUTTER 35 / 42 Pro

Proven pipe cutter for the precise cutting of pipes  
 Ø 6 - 42 mm (1/4 - 1.5/8")



#### Product Profile

##### APPLICATION AREA

###### TC 35 / TC 42

For copper, brass, aluminium, thin-walled steel pipes  
 TC 35 Ø 6 - 35 mm / TC 42 Ø 6 - 42 mm

###### TC 35 MSR / TC 42 Pro MSR

PE, PP, PVDF, plastic coated pipes, PVC hard plastic pipes

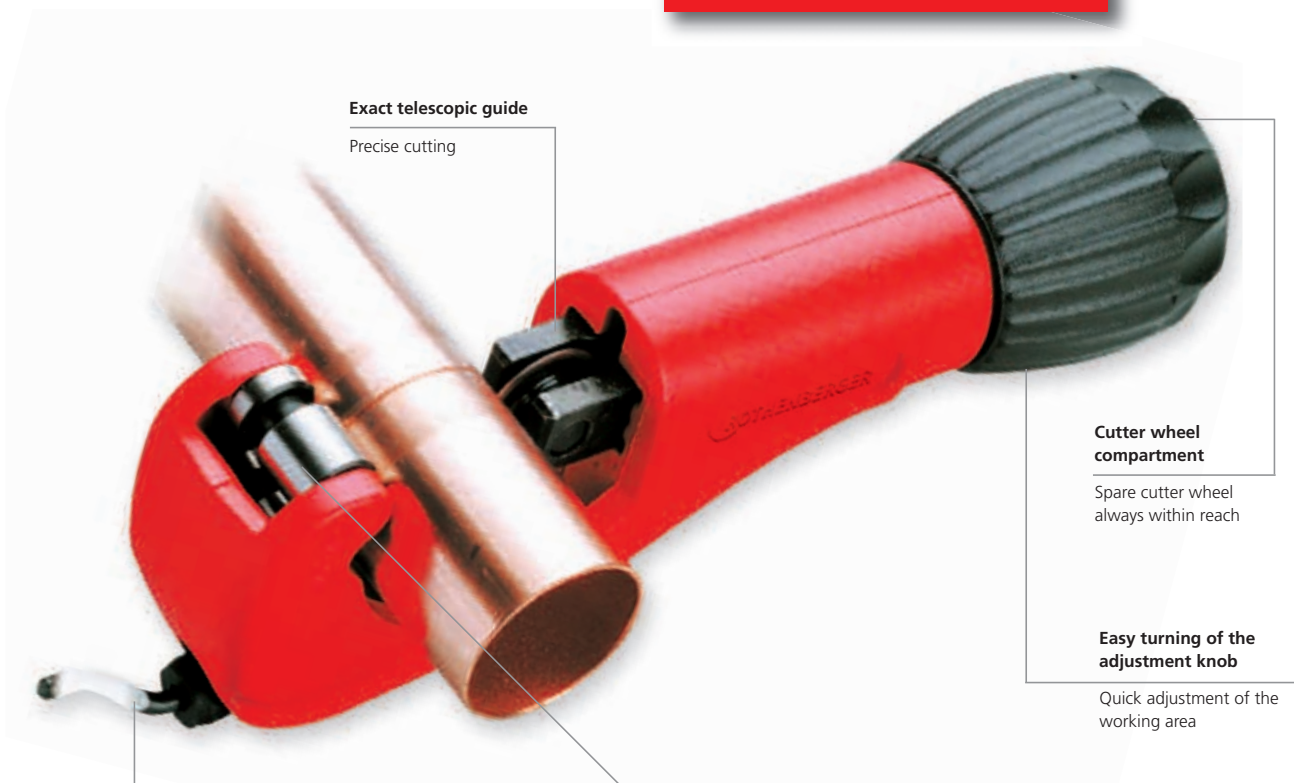
###### INOX TC 35 / INOX TC 42 Pro

Stainless steel pipes INOX TC 35 Ø 6 - 35 mm /  
 INOX TC 42 Ø 6 - 42 mm

##### KEY FEATURES

- Optimal for confined spaces
- Quick adjustment of the working area
- Spare cutter wheel in handle
- Cuts near to flares are possible
- Retractable internal pipe deburrer
- Robust and extremely stable

**Metal casing with DURAMANT® coating:  
 Robust and extremely stable!**



**Exact telescopic guide**  
 Precise cutting

**Cutter wheel compartment**

Spare cutter wheel  
 always within reach

**Easy turning of the  
 adjustment knob**

Quick adjustment of the  
 working area



**Always within reach**  
 Retractable internal  
 pipe deburrer

**Two guide rollers with recess**  
 Cuts near to flares

For copper and aluminium



For MSR-pipes



For INOX (Stainless Steel)-pipes



For refrigeration technology





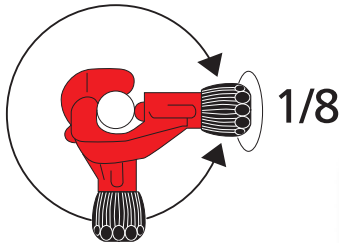
### TUBE CUTTER 35 DURAMAG® Counter Display

Counter display includes six TUBE CUTTER 35 DURAMAG®

#### Product Profile

#### APPLICATION AREA

- Improved performance
- Higher stability with noticeably less weight



Constant, tight working radius of 123 mm



100% magnesium body up to 30% lighter compared to previous model!



No. 070027DB

| Model   | mm     | inch          | g    |   |   | No.             |
|---|--------|---------------|------|---|---|-----------------|
| TUBE CUTTER 35 DURAMAG® (Cu, brass, Al, thin-walled pipe) | 6 - 35 | 1/4" - 1.3/8" | 255  | 1 | 4 | <b>70027</b>    |
| TUBE CUTTER 35 DURAMAG® Display                           | 6 - 35 | 1/4" - 1.3/8" | 1700 | 1 | 6 | <b>070027DB</b> |
| TUBE CUTTER 35 C (for refrigeration)                      | 6 - 35 | 1/4" - 1.3/8" | 470  | 1 | 4 | <b>070027C</b>  |
| TUBE CUTTER 35 DURAMAG® MSR                               | 6 - 35 | 1/4" - 1.3/8" | 470  | 1 | 4 | <b>70108</b>    |
| TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)    | 6 - 42 | 1/4" - 1.5/8" | 540  | 1 | 4 | <b>70029</b>    |
| TUBE CUTTER 42 PRO MSR                                    | 6 - 42 | 1/4" - 1.5/8" | 540  | 1 | 4 | <b>70109</b>    |
| TUBE CUTTER 42 PRO PVC                                    | 6 - 42 | 1/4" - 1.5/8" | 540  | 1 | 4 | <b>70072</b>    |
| INOX TUBE CUTTER 35 PRO DURAMAG® (stainless steel)        | 6 - 35 | 1/4" - 1.3/8" | 470  | 1 | 4 | <b>70055</b>    |
| INOX TUBE CUTTER 42 PRO                                   | 6 - 42 | 1/4" - 1.5/8" | 540  | 1 | 4 | <b>70070</b>    |

### ROTRAC 28 / 42

High-precision pipe cutter,  
Ø 3 - 42 mm (1/8 - 1.5/8")



#### KEY FEATURES

- Constant working radius
- Cast aluminium design
- Protection of the cutter wheel with the rolling stop
- Retractable internal deburrer and spare cutter wheel in handle
- Protected screw spindle – protection against dirt and jamming



Casing made in one cast  
Stable and long-lasting

| Model     | mm     | inch         | g   | No.          | Description  | g  | No.            |
|-----------|--------|--------------|-----|--------------|--|----|----------------|
| ROTRAC 28 | 3 - 28 | 1/8 - 1.1/8" | 220 | <b>70010</b> | Spare cutter wheel (contains 5 pcs.) Cu, Al, brass | 20 | <b>070007D</b> |
| ROTRAC 42 | 6 - 42 | 1/4 - 1.5/8" | 255 | <b>70011</b> | Spare axle   | 5  | <b>70080</b>   |

#### Accessories

| Model                        |           | No.          |
|------------------------------|-----------|--------------|
| Internal / External deburrer | <b>31</b> | <b>70075</b> |
| GRATFIX                      | <b>32</b> | <b>21655</b> |
| UNIGRAT                      | <b>32</b> | <b>21660</b> |
| Spare cutter                 | <b>19</b> |              |





# Cutting

## Cutting Metal Manual

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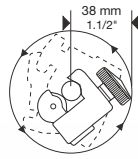
### MINICUT I PRO / II PRO

Copper pipe cutter Ø 3 - 22 mm (1/8 - 7/8")

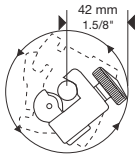
Ideal for maintenance and repair work!



No. 70401



No. 70402



#### KEY FEATURES

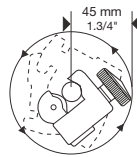
- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with small working radius (38 mm and/or 1.1/2" I PRO/42 mm and/or 1.5/8" II PRO) allows for use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts near flares
- Monoblock design allows delivery precision

| Model              | mm     | inch       | g   |      | No.            |
|--------------------|--------|------------|-----|------|----------------|
| MINICUT I PRO      | 3 - 16 | 1/8 - 5/8" | 115 | 1 4  | <b>70401</b>   |
| MINICUT II PRO     | 6 - 22 | 1/4 - 7/8" | 125 | 1 4  | <b>70402</b>   |
| Spare cutter wheel |        |            | 20  | 1(5) | <b>070017D</b> |
| Spare axle         |        |            | 5   | 1    | <b>70041</b>   |

### MINICUT 2000

Copper pipe cutter Ø 6 - 22 mm (1/4 - 7/8")

Ergonomic design of body and knob with seating surface for the hand during turning



#### KEY FEATURES

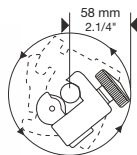
- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with small working radius (45 mm and/or 1.3/4") allows for use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts near flares

| Model              | mm     | inch       | g   |      | No.            |
|--------------------|--------|------------|-----|------|----------------|
| MINICUT 2000       | 6 - 22 | 1/4 - 7/8" | 140 | 1 4  | <b>70105</b>   |
| Spare cutter wheel |        |            | 20  | 1(5) | <b>070017D</b> |
| Spare axle         |        |            | 5   | 1    | <b>70041</b>   |

### MINI MAX

Copper pipe cutter Ø 3 - 28 mm (1/8 - 1.1/8")

Ergonomic design of body and knob with seating surface for the hand during turning



#### KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with very small working radius (58 mm and/or 2.1/4") allows for use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts near flares

| Model              | mm     | inch         | g   |      | No.            |
|--------------------|--------|--------------|-----|------|----------------|
| MINI MAX           | 3 - 28 | 1/8 - 1.1/8" | 270 | 1 4  | <b>70015</b>   |
| Spare cutter wheel |        |              | 20  | 1(5) | <b>070017D</b> |
| Spare axle         |        |              | 5   | 1    | <b>70041</b>   |



### TUBE CUTTER 30 PRO / 50

Copper pipe cutter Ø 3 - 50 mm (1/8 - 2")

#### KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes
- Two guide rollers with recess for cuts near flares
- Retractable internal deburrer and spare cutter wheel in handle



| Model              | mm      | inch         | g   |     | No.          |
|--------------------|---------|--------------|-----|-----|--------------|
| TUBE CUTTER 30 PRO | 3 - 30  | 1/8 - 1.1/8" | 305 | 1 4 | <b>71019</b> |
| TUBE CUTTER 50     | 12 - 50 | 1/2 - 2"     | 520 | 1 4 | <b>70065</b> |

| Model                               | g  |   | No.            |
|-------------------------------------|----|---|----------------|
| Spare cutter wheel (contains 5 pc.) | 20 | 1 | <b>070017D</b> |
| Spare axle                          | 5  | 1 | <b>70041</b>   |

### Automatic Ratchet Telescopic Pipe Cutter

Telescopic pipe cutter Ø 6 - 67 mm (1/4 - 25/8")

#### KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes, as well as plastic coated pipes
- Retractable internal deburrer and spare cutter wheel in handle
- Monoblock design
- Quick adjustment with the ratchet telescopic guide with automatic spring-driven release
- Self-clamping prevents release due to quick adjustment during the cutting process



| Model                              | mm     | inch        | g   | No.            |
|------------------------------------|--------|-------------|-----|----------------|
| Size 1                             | 6 - 67 | 1/4 - 25/8" | 755 | <b>70030</b>   |
| Size 1 Spare deburring blade       |        |             | 5   | <b>21652</b>   |
| Size 1 Spare cutter wheel (5 pcs.) |        |             | 20  | <b>070017D</b> |
| Size 2 Spare cutter wheel (2 pcs.) |        |             | 20  | <b>070057D</b> |
| Size 2 Spare deburring blade       |        |             | 5   | <b>21652</b>   |

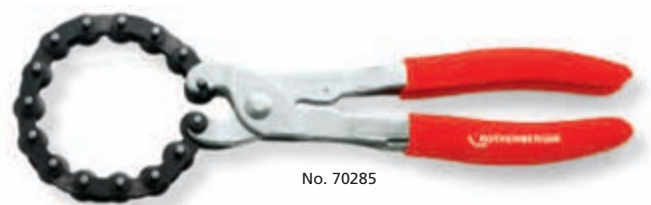
| Model                          | mm       | inch   | g    | No.            |
|--------------------------------|----------|--------|------|----------------|
| Size 2                         | 50 - 127 | 2 - 5" | 1850 | <b>70142</b>   |
| Size 1 Spare axle              |          |        | 20   | <b>70042</b>   |
| Size 1 Spare deburrer complete |          |        | 5    | <b>7500041</b> |
| Size 2 Spare axle              |          |        | 5    | <b>70149</b>   |

### Chain Pipe Cutter

For pipes Ø 20 - 100 mm (1 - 4")

#### KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes, as well as plastic coated pipes
- Ideal for working in confined spaces, e.g. parallel-running pipes
- Stable chain with 15 mini cutter wheels, two-step adjustment, chrome plated with plastic covered handles



| Model                    | mm       | inch   | g   | No.          |
|--------------------------|----------|--------|-----|--------------|
| Chain pipe cutter        | 20 - 100 | 1 - 4" | 575 | <b>70285</b> |
| Spare cutter wheel chain |          |        | 180 | <b>70286</b> |

#### ACCESSORIES

| Description                  |           | No.          |
|------------------------------|-----------|--------------|
| Internal / External deburrer | <b>31</b> | <b>70075</b> |
| GRATFIX                      | <b>32</b> | <b>21655</b> |
| UNIGRAT                      | <b>32</b> | <b>21660</b> |
| Spare cutter wheel           | <b>19</b> |              |





# Cutting

## Cutting Metal Manual

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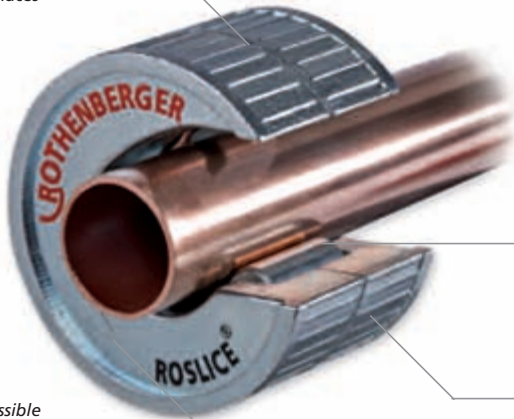
### ROSLICE®

Copper pipe cutter Ø 12 - 22 mm (1/2 - 1.1/8")



Ergonomic form

Less space needed, ideal for hard-to-reach places



Pipe cutting possible near the wall



Indicates rotating direction

Quick cutting with just a few turns

#### KEY FEATURES

- Quick cutting of copper pipes with less turns
- No deformation of the pipe: self-clamping and self-alignment
- Less space required, ideal for hard-to-reach places
- Reliable hold with the non-slip surface

**Self-clamping and self-alignment**

Prevents the deformation of the pipe

**Non-slip surface**

Reliable grip

| Model              | mm/inch             | mm | g    | No.            |
|--------------------|---------------------|----|------|----------------|
| ROSLICE®           | 12 mm               | 1  | 240  | <b>88812</b>   |
| ROSLICE®           | 15 mm               | 1  | 230  | <b>88815</b>   |
| ROSLICE®           | 18 mm               | 1  | 260  | <b>88818</b>   |
| ROSLICE®           | 22 mm               | 1  | 250  | <b>88822</b>   |
| Spare cutter wheel | 1.1/8", 12 mm       | 5  | 36.3 | <b>088840D</b> |
| Spare cutter wheel | 5/8"-7/8", 15-22 mm | 5  | 34.6 | <b>088841D</b> |
| Spare cutter wheel | 1/2"-3/4", 18 mm    | 5  | 374  | <b>088842D</b> |

### INOX TUBE CUTTER 30 PRO

Stainless steel pipe cutter Ø 3 - 30 mm (1/8 - 1.1/8") for the precise cutting of stainless steel pipes

**INOX!**



2 guide rollers with recess

Cut near flares



Precise cutting of stainless steel pipes



**Internal deburrer**

Retractable

**Cutter wheel compartment**

Spare cutter wheel always within reach

#### KEY FEATURES

- Retractable internal deburrer and spare cutter wheel in handle
- Two guide rollers with recess for cuts near flares

| Model                                | mm     | inch         | g   | No.                 |
|--------------------------------------|--------|--------------|-----|---------------------|
| INOX TC 30 PRO                       | 3 - 30 | 1/8 - 1.1/8" | 305 | 4 <b>71085</b>      |
| Spare cutter wheel (contains 5 pcs.) |        |              | 20  | 1(5) <b>070056D</b> |
| Spare axle                           |        |              | 5   | <b>70041</b>        |



### INOX TUBE CUTTER

**INOX!**

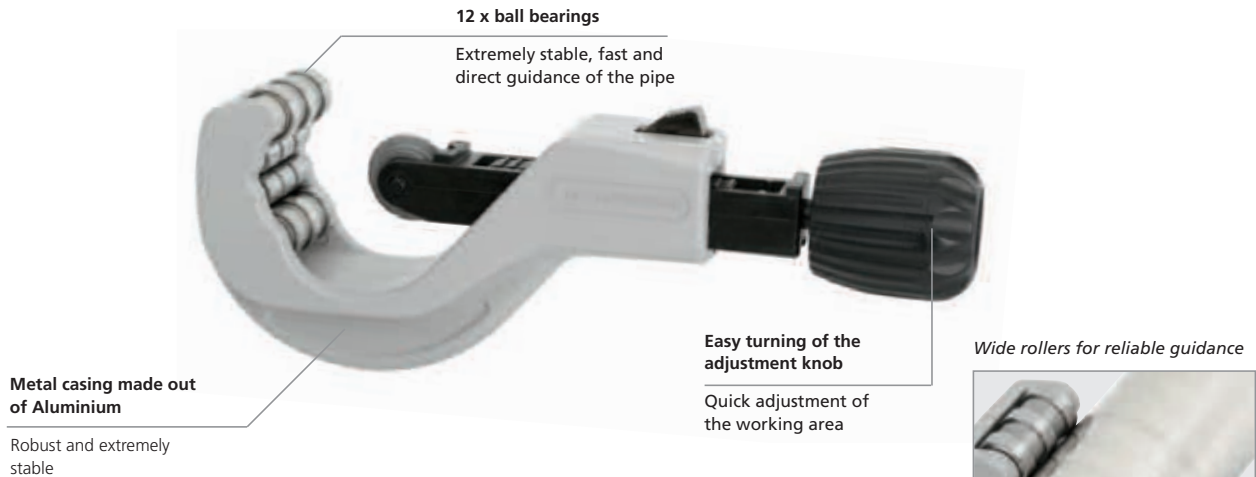


Ratchet telescopic pipe cutter Ø 10 - 54 mm (1/4 - 21/8") for the precise cutting of stainless steel pipes

#### KEY FEATURES

- Quick adjustment with the ratchet telescopic guide with automatic spring-driven release

**12 x ball bearings!**



| Model              | mm      | inch        | g   |      | No.          |
|--------------------|---------|-------------|-----|------|--------------|
| INOX TUBE CUTTER   | 10 - 54 | 1/4 - 21/8" | 305 | 4    | <b>70340</b> |
| Spare cutter wheel |         |             | 20  | 1(2) | <b>70341</b> |



### INOX TUBE CUTTER 35 / 42 PRO

**INOX!**

Proven pipe cutter Ø 6 - 42 mm (1/4 - 1.5/8") for the precise cutting of stainless steel pipes

#### KEY FEATURES

- Hardened, special cutter wheel made of high-alloyed steel
- External burr-free cutting
- Stainless steel guide rollers
- Stainless-steel guide rolls, cuts near flares possible
- Optimum use in tight places
- Quick adjustment of the working area
- Retractable pipe internal deburrer
- Robust and extremely stable



| Model                                | mm     | inch         | g   | No.            |
|--------------------------------------|--------|--------------|-----|----------------|
| INOX TC 35                           | 6 - 35 | 1/4 - 1.3/8" | 440 | <b>70055</b>   |
| INOX TC 42 PRO                       | 6 - 42 | 1/4 - 1.5/8" | 510 | <b>70070</b>   |
| Spare cutter wheel (contains 5 pcs.) |        |              | 20  | <b>070056D</b> |
| Spare deburring blade                |        |              | 10  | <b>21652</b>   |

#### ACCESSORIES

| Model                        |           | No.          |
|------------------------------|-----------|--------------|
| Internal / External deburrer | <b>31</b> | <b>70075</b> |
| GRATFIX                      | <b>32</b> | <b>21655</b> |
| UNIGRAT                      | <b>32</b> | <b>21660</b> |
| Spare cutter wheels          | <b>19</b> |              |





# Cutting

## Cutting Metal Manual

1



### ENORM 4"

Steel pipe cutter Ø 60 - 115 mm (2 - 4")

#### KEY FEATURES

- Wide rollers for secure guiding of cutter wheel on pipe
- Easy pressure control for optimum force transmission onto the pipe

Thread for handle



Handle (included in delivery)



#### KEY FEATURES

- Long service life with the hardened cutter wheel made of high alloy steel
- Burr-free cutting allows immediate thread cutting

Anti-slip surface

Reliable grip

| Model                                | mm       | inch   | g    | No.            | Model      | g | No.          |
|--------------------------------------|----------|--------|------|----------------|------------|---|--------------|
| ENORM 4"                             | 60 - 115 | 2 - 4" | 7105 | <b>70060</b>   | Spare axle | 5 | <b>70064</b> |
| Spare cutter wheel (contains 2 pcs.) |          |        | 20   | <b>070061D</b> |            |   |              |

### SUPER 1.1/4" and 2"

Steel pipe cutter Ø 10 - 60 mm (1/4 - 2")

#### KEY FEATURES (SUPER/INOX SUPER)

- Wide rollers for secure guiding of cutter wheel on pipe
- Easy pressure control for optimum force transmission onto the pipe



### INOX SUPER 1.1/4" and 2"

Stainless steel pipe cutter Ø 10 - 60 mm (1/4 - 2")

#### KEY FEATURES (SUPER/INOX SUPER)

- Long service life with the hardened cutter wheel made of high alloy steel
- Burr-free external cutting allows for immediate thread cutting



**INOX!**

Precise cutting of stainless steel pipes



| Model                                       | mm      | inch         | g    | No.            | Model                                       | mm      | inch         | g    | No.            |
|---|---------|--------------|------|----------------|---|---------|--------------|------|----------------|
| SUPER 1.1/4"                                | 10 - 42 | 1/4 - 1.1/4" | 1040 | <b>70040</b>   | INOX SUPER 1.1/4"                           | 10 - 42 | 1/4 - 1.1/4" | 1040 | <b>70086</b>   |
| SUPER 2"                                    | 10 - 60 | 1/8 - 2"     | 2155 | <b>70045</b>   | INOX SUPER 2"                               | 10 - 60 | 1/8 - 2"     | 2155 | <b>70087</b>   |
| 1.1/4" Spare cutter wheel (contains 3 pcs.) |         |              | 20   | <b>070046D</b> | 1.1/4" Spare cutter wheel (contains 2 pcs.) |         |              | 20   | <b>070088D</b> |
| 1.1/4" Spare axle                           |         |              | 5    | <b>70048</b>   | 1.1/4" Spare axle                           |         |              | 5    | <b>70048</b>   |
| 2" Spare cutter wheel (contains 3 pcs.)     |         |              | 20   | <b>070051D</b> | 2" Spare cutter wheel (contains 2 pcs.)     |         |              | 20   | <b>070089D</b> |
| 2" Spare axle                               |         |              | 5    | <b>70053</b>   | 2" Spare axle                               |         |              | 5    | <b>70053</b>   |

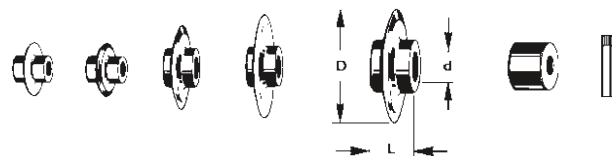
#### ACCESSORIES



| Description                  |           | No.          |
|------------------------------|-----------|--------------|
| Internal / External deburrer | <b>31</b> | <b>70075</b> |
| GRATFIX                      | <b>32</b> | <b>21655</b> |
| UNIGRAT                      | <b>32</b> | <b>21660</b> |
| Spare cutter wheel           | <b>19</b> |              |

### Pipe Cutters, Cutting Wheels and Spare Parts

Only original ROTHENBERGER Cutting wheels made of high-alloyed hardened steel guarantee an exact, right-angled cut



| Pipe cutter type                               | Model for pipe - Ø         | No.                 | Cutting wheel No.  | Sizes d, L, D mm                   | Cutting depth | Spare axle No.   | Ø mm Length mm Thread          | Spare roller No.  | Deburring blade No. | Application area  |
|--|----------------------------|---------------------|--------------------|------------------------------------|---------------|------------------|--------------------------------|-------------------|---------------------|---|
| MINICUT I PRO<br>MINICUT II PRO                | 3 - 16 mm                  | 70401               | 070017D            | 4.8 / 595 / 185                    | 3.0           | 70041            | 4.7 / 14 / M3                  | 70023             | -                   | Copper pipe (Cu),<br>Brass pipe (Ms),<br>Aluminium pipe (Al),<br>thin-walled<br>Steel pipe (Fe),<br>PVC hard plastic pipe<br>Plastic coated pipe  |
|  | 6 - 22 mm                  | 70402               | 070017D            | 4.8 / 595 / 185                    | 3.0           | 70041            | 4.7 / 14 / M3                  | 70023             | -                   |   |
| MINICUT 2000                                   | 3 - 22 mm                  | 70105               | 070017D            | 4.8 / 59 / 185                     | 3.0           | 70041            | 4.7 / 14 / M3                  | -                 | -                   | Copper pipe (Cu),<br>Brass pipe (Ms),<br>Aluminium pipe (Al),<br>thin-walled<br>Steel pipe (Fe),<br>PVC hard plastic pipe<br>Plastic coated pipe  |
| MINIMAX  | 3 - 28 mm                  | 70015               | 070017D            | 4.8 / 59 / 185                     | 3.0           | 70041            | 4.7 / 14 / M3                  | -                 | -                   |   |
| TUBE CUTTER 30 PRO                             | 3 - 30 mm                  | 71019               | 070017D            | 4.8 / 59 / 185                     | 3.0           | 70041            | 4.7 / 14 / M3                  | 70067             | -                   | Copper pipe (Cu),<br>Brass pipe (Ms),<br>Aluminium pipe (Al),<br>thin-walled<br>Steel pipe (Fe),<br>PVC hard plastic pipe<br>Plastic coated pipe  |
| TUBE CUTTER 35 + 35 C<br>TUBE CUTTER 42 PRO    | 6 - 35 mm<br>6 - 42 mm     | 070027 (C)<br>70029 | 070017D<br>070017D | 4.8 / 595 / 185<br>4.8 / 595 / 185 | 3.0<br>3.0    | 70041<br>70041   | 4.7 / 14 / M3<br>4.7 / 14 / M3 | 70067<br>70067    | 21652<br>21652      |   |
| TUBE CUTTER 35 MSR<br>TUBE CUTTER 42 PRO MSR   | 6 - 35 mm<br>6 - 42 mm     | 70108<br>70109      | 070188D<br>070188D | 4.8 / 59 / 193<br>4.8 / 59 / 193   | 3.0<br>3.0    | 70041<br>70041   | 4.7 / 14 / M3<br>4.7 / 14 / M3 | 70067<br>70067    | 21652<br>21652      | Multi-layered composite pipe  |
| TUBE CUTTER 50                                 | 12 - 50 mm                 | 70065               | 070017D            | 4.8 / 59 / 185                     | 3.0           | 70006            | 4.7 / 16 / M4                  | -                 | -                   |   |
| AUTOMATIK Pipe Cutter                          | Size 1<br>6 - 67 mm        | 70030               | 070017D            | 4.8 / 59 / 185                     | 3.0           | 70041            | 4.7 / 16 / M4                  | -                 | 21652               | Cu, Ms, Al, Fe thin-walled.<br>PE-, PP-, VPE, PB- and PVDF pipes<br>thin-walled. Cu, Ms, Al, Fe<br>PE-, PP-, VPE, PB- and PVDF pipes<br>thin-walled. PP pipes<br>PE-, PP-, VPE, PB- and PVDF pipes<br>thin-walled. PP pipes |
|  |                            | 70031               | 070028D            | 4.8 / 11 / 290                     | 70            | 70041            | 4.7 / 16 / M4                  | -                 | 21652               |   |
|  |                            | 70142               | 070057D            | 8 / 11 / 290                       | 70            | 70149            | 79 / 23.5 / 1/4"               | -                 | 21652               |   |
|  | Size 2<br>50 - 127 mm      | 70032               | 055054D            | 8 / 11 / 40.0                      | 13.0          | 70149            | 79 / 23.5 / 1/4"               | -                 | 21652               |   |
|  |                            |                     | 055053D            | 8 / 11 / 30.5                      | 86            | 70149            | 79 / 23.5 / 1/4"               | -                 | 21652               |   |
|  |                            |                     | 055074D            | 8 / 11 / 450                       | 16.0          | 70149            | 79 / 23.5 / 1/4"               | -                 | 21652               |   |
| Size 3<br>100 - 168 mm                         | 70033                      | 055053D             | 8 / 11 / 30.5      | 86                                 | 70149         | 79 / 23.5 / 1/4" | -                              | 21652             |                     |   |
|  |                            |                     |                    |                                    |               |                  |                                |                   |                     |   |
| TUBE CUTTER 28                                 | 3 - 28,0 mm                | 70010               | 070007D            | 4.8 / 3 / 16                       | 25            | 70080 + 70081    | 4.7 / 9 / SR                   | 80679             | -                   | Cu, Ms, Al, Fe thin-walled.   |
| TUBE CUTTER 42                                 | 3 - 42 mm                  | 70011               | 070007D            | 4.8 / 3 / 16                       | 25            | 70080 + 70081    | 4.7 / 9 / SR                   | 80679             | -                   | Cu, Ms, Al, Fe thin-walled.   |
| TUBE CUTTER 42 PRO PVC                         | 6 - 42 mm                  | 70072               | 070028D            | 4.8 / 6 / 23.6                     | 70            | 70041            | 4.7 / 14 / M3                  | 70067             | -                   | PE-, PP-, VPE, PB- and PVDF pipes   |
| Steel Pipe Cutter SUPER                        | 1/8" - 1.1/4"<br>1/8" - 2" | 70040               | 070046D            | 75 / 13.5 / 26                     | 55            | 70048            | 74 / 30 / -                    | 70047             | -                   | Steel pipe<br>Steel pipe  |
|  |                            | 70045               | 070051D            | 90 / 19 / 31.5                     | 70            | 70053            | 89 / 35 / -                    | 70052             | -                   |   |
| Steel Pipe Cutter ENORM                        | 2" - 4"                    | 70060               | 070061D            | 97 / 27 / 41.5                     | 70            | 70064            | 94 / 52 / -                    | 70063             | -                   | Steel pipe  |
| INOX TUBE CUTTER 30 PRO                        | 3 - 30 mm                  | 71085               | 070056D            | 4.8 / 59 / 185                     | 4.0           | 70041            | 4.7 / 14 / M3                  | 70068             | -                   | Stainless steel pipe  |
| INOX TUBE CUTTER 35<br>INOX TUBE CUTTER 42 PRO | 6 - 35 mm<br>6 - 42 mm     | 70055               | 070056D            | 4.8 / 59 / 185                     | 4.0           | 70041            | 4.7 / 14 / M3                  | 70068             | 21652               | Stainless steel pipe  |
|  |                            | 70070               | 070056D            | 4.8 / 59 / 185                     | 4.0           | 70041            | 4.7 / 14 / M3                  | 70068             | 21652               |   |
| INOX SUPER                                     | 1/8" - 1.1/4"<br>1/8" - 2" | 70086               | 070088D            | 75 / 13.5 / 26                     | 55            | 70048            | 74 / 30 / -                    | 70047             | -                   | Stainless steel pipe<br>Stainless steel pipe  |
|  |                            | 70087               | 070089D            | 90 / 19 / 31.5                     | 70            | 70053            | 89 / 35 / -                    | 70052             | -                   |   |
| Chain Pipe Cutter                              | 100 mm                     | 70285               | -                  | 4.0 / 3.8 / 178                    | 3.0           | -                | -                              | Spare chain 70286 |                     | Cu, Ms, Al, Fe thin-walled.   |



# Cutting

1

## Cutting Plastic / MSR Manual

### ROCUT®

#### Plastic pipe shears up to Ø 75 mm (3")

The ROTHENBERGER plastic pipe shears for the highest quality requirements. Knife blades deliver clean and straight cuts on pipe diameters up to 75 mm and especially for all the current plastic types

used in installations. The aluminium construction guarantees precise operation and long professional service use.

#### Product Profile

##### APPLICATION AREA

For precise cutting of PP, PE, PEX, PB and PVDF pipes up to Ø 75 mm

##### KEY FEATURES

- Minimum effort during cutting
- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button

##### KEY FEATURES

- Secure grip with the rubberised handles
- Shear arms lockable in transport position

##### TECHNICAL DATA

###### ROCUT® Professional:

**TC 42:** Ø 0 - 42 mm

**TC 50:** Ø 0 - 50 mm

**TC 63:** Ø 0 - 63 mm

**TC 75:** Ø 0 - 75 mm

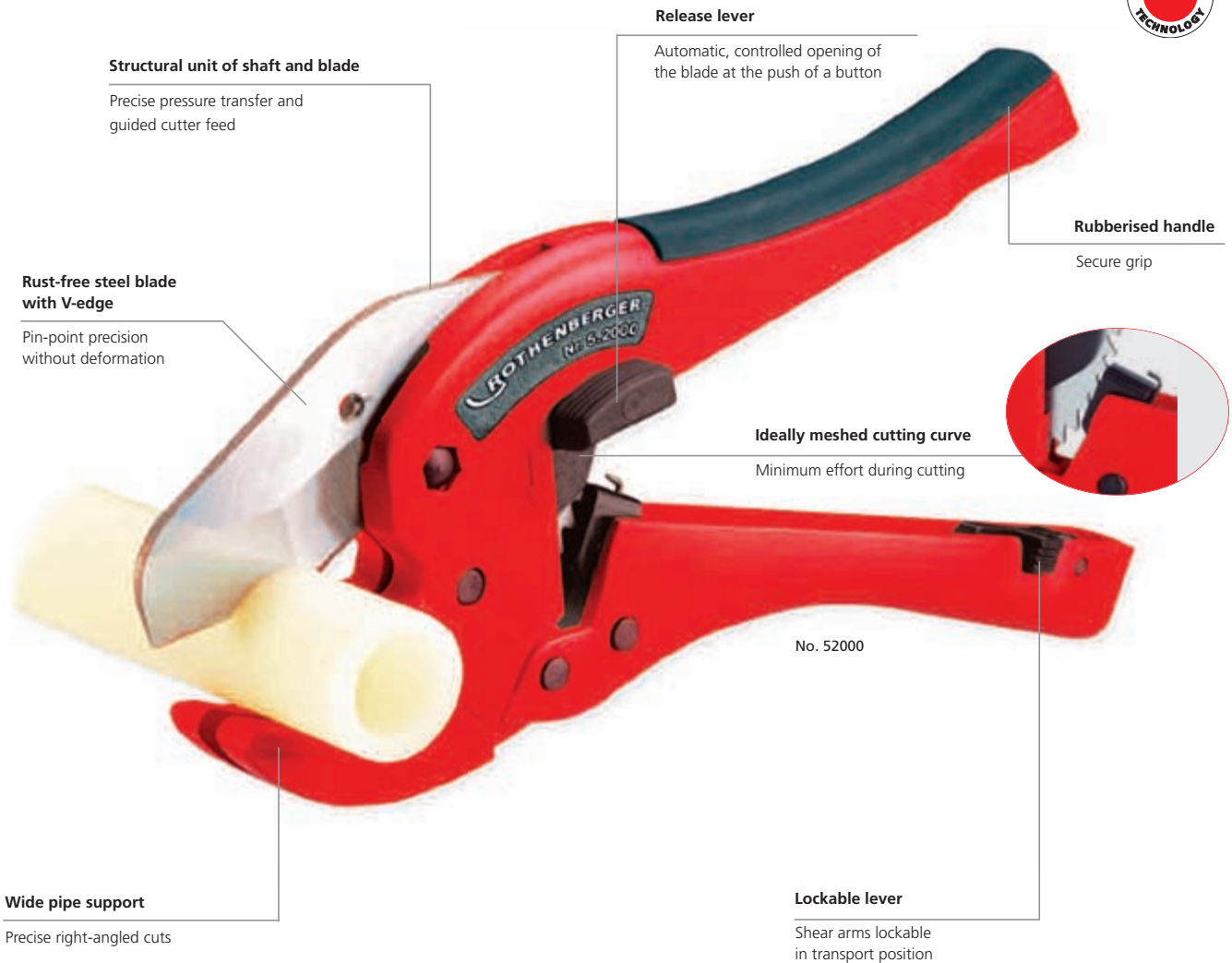
###### ROCUT® Standard:

**TC 26:** Ø 0 - 26 mm

**TC 32:** Ø 0 - 32 mm

**PS 35:** Ø 6 - 35 mm

**PS 26/42:** Ø 6 - 42 mm



### ROCUT® TC 50 / TC 75 Professional

Plastic pipe shears up to Ø 75 mm (3")



No. 52010



No. 52015

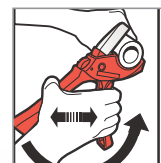
### ROCUT® TC 26 / TC 32 PS 26 / PS 42 S / PS 35 S

Plastic pipe shears up to Ø 42 mm (1.5/8")

(TC 32 for multi-layer composite pipes MSR)



No. 52005



No. 52040

### ROCUT® TC 63 Professional

Plastic pipe shears up to Ø 63 mm (2 1/2")

(TC 63 Professional for PVC pipes)



No. 52030



No. 55005 / No. 55015

| Model                          | mm     | inch         | g     |      | No.          |
|--------------------------------|--------|--------------|-------|------|--------------|
| ROCUT® TC 26 Professional      | 0 - 26 | 0 - 1.1/4"   | 370   | 1 4  | <b>52005</b> |
| ROCUT® TC 32 Professional      | 0 - 32 | 0 - 1.3/8"   | 220   | 1 4  | <b>52040</b> |
| ROCUT® PS 35                   | 6 - 35 | 1/4 - 1.3/8" | 740   | 1 20 | <b>55005</b> |
| ROCUT® PS 26 / 42 S adjustable | 6 - 42 | 1/4 - 1.5/8" | 950   |      | <b>55015</b> |
| ROCUT® TC 42 Professional      | 0 - 42 | 0 - 1.5/8"   | 447   | 1 4  | <b>52000</b> |
| ROCUT® TC 50 Professional      | 0 - 50 | 0 - 2"       | 600   | 1 4  | <b>52010</b> |
| ROCUT® TC 63 Professional      | 0 - 63 | 0 - 2 1/2"   | 700   | 1    | <b>52030</b> |
| ROCUT® TC 75 Professional      | 0 - 75 | 0 - 3"       | 1,600 | 1    | <b>52015</b> |

#### ACCESSORIES

| No.       | Description  | mm     | inch         | g   | No.          |
|-----------|--|--------|--------------|-----|--------------|
| No. 52041 | Spare stainless steel blade for TC 32 Professional | 0 - 32 | 0 - 1.3/8"   | 120 | <b>52041</b> |
| No. 55006 | Spare stainless steel blade for PS 35 S            | 6 - 35 | 1/4 - 1.3/8" | 30  | <b>55006</b> |
| No. 55007 | Spare stainless steel blade for PS 26 / 42 S       | 6 - 42 | 1/4 - 1.5/8" | 60  | <b>55007</b> |
| No. 52042 | Spare stainless steel blade for TC 42 Professional | 6 - 42 | 0 - 1.5/8"   | 120 | <b>52042</b> |
| No. 52011 | Spare stainless steel blade for TC 50 Professional | 0 - 50 | 0 - 2"       | 120 | <b>52011</b> |
| No. 52031 | Spare stainless steel blade for TC 63 Professional | 0 - 63 | 0 - 2.1/2"   | 130 | <b>52031</b> |
| No. 52016 | Spare stainless steel blade for TC 75 Professional | 0 - 75 | 0 - 3"       | 190 | <b>52016</b> |

| Description  | mm     | inch         | g   | No.          |
|--|--------|--------------|-----|--------------|
| Spare stainless steel blade for TC 32 Professional | 0 - 32 | 0 - 1.3/8"   | 120 | <b>52041</b> |
| Spare stainless steel blade for PS 35 S            | 6 - 35 | 1/4 - 1.3/8" | 30  | <b>55006</b> |
| Spare stainless steel blade for PS 26 / 42 S       | 6 - 42 | 1/4 - 1.5/8" | 60  | <b>55007</b> |
| Spare stainless steel blade for TC 42 Professional | 6 - 42 | 0 - 1.5/8"   | 120 | <b>52042</b> |
| Spare stainless steel blade for TC 50 Professional | 0 - 50 | 0 - 2"       | 120 | <b>52011</b> |
| Spare stainless steel blade for TC 63 Professional | 0 - 63 | 0 - 2.1/2"   | 130 | <b>52031</b> |
| Spare stainless steel blade for TC 75 Professional | 0 - 75 | 0 - 3"       | 190 | <b>52016</b> |



# Cutting

## Cutting Plastic / MSR Manual

1



### TUBE CUTTER 67 / 125 / 168 PL Automatic

Telescopic ratchet pipe cutter  
Ø 6 - 168 mm (1/4 - 6.5/8")



#### Product Profile

##### APPLICATION AREA

For precise cutting of PP, PE, PEX, PB and PVDF pipes as well as sound-insulated drain pipes

##### KEY FEATURES

- Maximum strength with the monoblock aluminium construction
- Optimum, fatigue-free operation with the ergonomically optimised metal handle
- Fast adjustment on the tube's outer diameter with the telescopic ratchet guide
- Fast opening with automatic retraction
- Internal pipe deburrer retracts into cutter body
- Hardened, specially-sharpened cutter wheels

##### TECHNICAL DATA

|                   |              |             |
|-------------------|--------------|-------------|
| <b>TC 67 PL:</b>  | 6 - 67 mm    | 1/4 - 25/8" |
| <b>TC 125 PL:</b> | 50 - 125 mm  | 2 - 5"      |
| <b>TC 168 PL:</b> | 110 - 168 mm | 4 - 6.5/8"  |



No. 70033

Removable internal pipe deburrer



No. 070031D



| Model                             | mm        | inch        | Cutting depth | kg  |       | No.            |
|-----------------------------------|-----------|-------------|---------------|-----|-------|----------------|
| TC 67 PL                          | 6 - 67    | 1/4 - 25/8" | 7.0           | 0.7 | 1     | <b>70031</b>   |
| TC 125 PL                         | 50 - 125  | 2 - 5"      | 13.0          | 1.6 | 1     | <b>70032</b>   |
| TC 168 PL                         | 110 - 168 | 4 - 6.5/8"  | 16.0          | 1.7 | 1     | <b>70033</b>   |
| Counter display TC 67 PL          |           |             |               |     | 1 (4) | <b>070031D</b> |
| Spare cutter wheels for TC 67 PL  |           |             | 7.0           | 0.1 | 3     | <b>070028D</b> |
| Spare cutter wheels for TC 125 PL |           |             | 13.0          | 0.2 | 3     | <b>055054D</b> |
| Special size TC 125 PL            |           |             | 8.6           | 0.1 | 2     | <b>055053D</b> |
| Spare cutter wheels for TC 168 PL |           |             | 16.0          | 0.2 | 2     | <b>055074D</b> |
| Special size TC 168 PL            |           |             | 8.6           | 0.1 | 2     | <b>055053D</b> |

### Jacket Pipe Cutter

For cutting of grooved plastic protective pipe (corrugated hose) up to 32 mm

##### KEY FEATURES

- Ideal tool for the removal of the protective hose on pipes
- Very robust and can be used everywhere
- Simple and precise use
- Saves huge amounts of time in comparison to conventional use of a blade



| Model                 | mm      | No.          |
|-----------------------|---------|--------------|
| Jacket pipe cutter    | 0-32 mm | <b>21500</b> |
| Spare blade ROCUT PPD |         | <b>21505</b> |



### TUBE CUTTER 35 MSR / 42 PRO MSR/ 42 PRO PVC

Telescopic pipe cutter Ø 6 - 42 mm (1/4 - 1.3/8")

#### Product Profile

#### APPLICATION AREA

TUBE CUTTER 35 MSR and 42 MSR PRO for multi-layer composite pipe TUBE CUTTER 42 PRO PVC for PVC pipes

#### KEY FEATURES

- Space-saving work, also in confined spaces, uniform, small working radius of 123 mm
- Right-angled and burr-free cutting with precise telescopic guidance
- Fast and simple adjustment of the working range due to the feed being synchronised with the feeder rotation
- Optimum, fatigue-free operation with the optimised ergonomic handle
- Only one tool for cutting and deburring, integrated, retractable internal pipe deburrer
- Spare cutter wheel in the handle

#### TECHNICAL DATA

|                       |           |              |
|-----------------------|-----------|--------------|
| <b>TC 35 MSR:</b>     | 6 - 35 mm | 1/4 - 1.3/8" |
| <b>TC 42 PRO MSR:</b> | 6 - 42 mm | 1/4 - 1.5/8" |
| <b>TC 42 PRO PVC:</b> | 6 - 42 mm | 1/4 - 1.5/8" |



No. 70108

| Model                            | mm     | inch         | g   | mm   | No.            |
|----------------------------------|--------|--------------|-----|------|----------------|
| TC 35 MSR                        | 6 - 35 | 1/4 - 1.3/8" | 440 | 1 10 | <b>70108</b>   |
| Spare cutter wheels TC 35/42 MSR | 19     |              |     | 1 5  | <b>070188D</b> |

| Model                         | mm     | inch         | g   | mm   | No.            |
|-------------------------------|--------|--------------|-----|------|----------------|
| TC 42 PRO MSR                 | 6 - 42 | 1/4 - 1.5/8" | 510 | 1 10 | <b>70109</b>   |
| TC 42 PRO PVC                 | 6 - 42 | 1/4 - 1.5/8" | 510 | 1 4  | <b>70072</b>   |
| Spare cutter wheels TC 42 PVC |        |              | 10  | 3    | <b>070028D</b> |

### PLASTICUT + / PLASTICUT PEX / PLASTICUT PVC

For quick, clean and right angled cuts on MLCP, PEX and PVC pipes

#### KEY FEATURES

- Fast Cut: Quick cutting with just a few turns
- Flexible casing, allows cutting on smaller diameters
- Less space required, ideal for hard-to-reach places
- No deformation of the pipe: self-clamping and self-alignment
- Readjustment not necessary

- No deformation of the pipe!
- No fraying of the cut edge!
- Chipless pipe cutting!



Indicates rotating direction

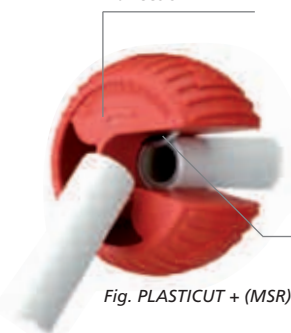


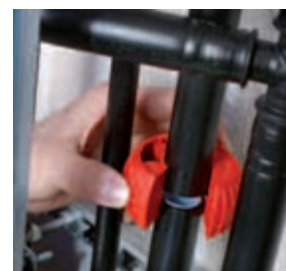
Fig. PLASTICUT + (MSR)

Fig. PLASTICUT PEX

Best contact with the pipe  
Straight cut



Fig. PLASTICUT PVC



**Instructions:**  
Click PLASTICUT on the pipe, gently press closed and then turn PLASTICUT around the pipe (please pay attention to the direction of rotation!)

| Model  | mm               | No.          |
|--|------------------|--------------|
| PLASTICUT + (MSR)  | 16 mm            | <b>88716</b> |
| PLASTICUT + (MSR)  | 20 mm            | <b>88720</b> |
| PLASTICUT + (MSR)  | 25/26 mm         | <b>88726</b> |
| PLASTICUT + (MSR)  | 32 mm            | <b>88732</b> |
| PLASTICUT + (MSR, 3 piece set)   | 16, 20, 25/26 mm | <b>88700</b> |
| PLASTICUT PEX  | 10 mm            | <b>59010</b> |
| PLASTICUT PEX  | 15 mm            | <b>59015</b> |
| PLASTICUT PEX  | 20 mm            | <b>59020</b> |
| PLASTICUT PEX  | 22 mm            | <b>59022</b> |
| PLASTICUT PEX  | 25 mm            | <b>59025</b> |
| PLASTICUT PEX  | 28 mm            | <b>59028</b> |
| PLASTICUT PVC  | 32 mm            | <b>59035</b> |
| PLASTICUT PVC  | 40 mm            | <b>59042</b> |
| PLASTICUT PVC  | 50 mm            | <b>59050</b> |
| Spare blade PLASTICUT + (MSR)  |                  | <b>88777</b> |
| Spare blade plastic type A (3 pcs.) 10 mm, 15 mm, 20 mm, 22 mm, 32 mm 40 mm, 50 mm |                  | <b>59000</b> |
| Spare blade plastic type B (3 pcs.) 25 mm, 28 mm,                                  |                  | <b>59001</b> |



# Cutting

## 1 Sawing Manual

### ROBO Super

#### Safety saw frame

- Reduces accidents: safety handle with exact guidance
- Room for spare blades in holder
- Optimum saw blade tensioning: quick tensioning device with fine adjustment integrated in handle
- Ideal for cutting in confined spaces: 90° rotatable



| Model  | Clamping width mm | g   | No.          |
|--|-------------------|-----|--------------|
| ROBO Super saw frame including saw blade HSSE 4 Plus (No. 71213) | 300               | 680 | <b>71206</b> |

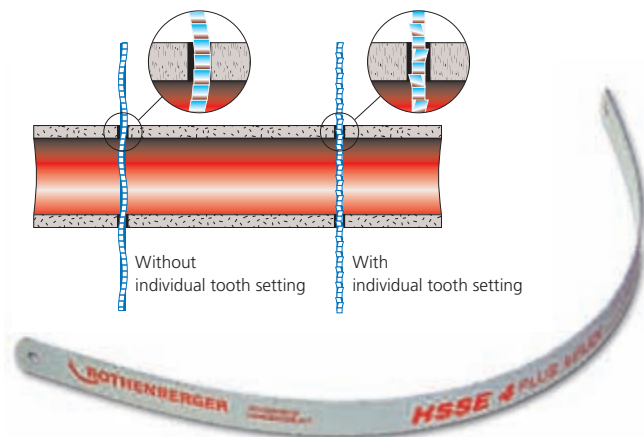
### Metal Saw Frame

- Solid design, massive, stable holder
- With cross-slotted squared clamping elements
- Reliable captive blade holding pin
- Firm wooden handle

Cross-slotted squared clamping piece



| Model                             | Clamping width mm | g   | No.           |
|-----------------------------------|-------------------|-----|---------------|
| Metal saw frame without saw blade | 300               | 530 | <b>300013</b> |



At ROTHENBERGER hand saw blades with single offset teeth cuts free the hand saw blade optimally. Jamming in the workpiece is prevented. Therefore: the working rhythm is maintained, less effort is needed and there is a higher cutting performance.

### ROBO Mini

#### Small saw frame

Handle with ergonomic form enables powerful sawing in tight spaces

- Large dimension tightening screw



| Model   | Clamping width mm | g   | No.          |
|---|-------------------|-----|--------------|
| ROBO Mini including UNIVERSAL saw blade (No. 71217) | 150               | 160 | <b>71222</b> |

### UNI Small Saw „PUK“

For sawing all materials, small and handy, good cutting performance



| Model  | Clamping width mm | g   | No.           |
|--|-------------------|-----|---------------|
| PUK static, with UNIVERSAL saw blade               | 150               | 100 | <b>842100</b> |
| PUK adjustable, with UNIVERSAL saw blade (w. App.) | 150               | 140 | <b>71215</b>  |
| UNIVERSAL saw blade for metal                      | 150 (32 ZpZ)      | 20  | <b>71217</b>  |
| Saw blade for wood                                 | 150 (14 ZpZ)      | 20  | <b>71216</b>  |

### HSSE 4 Plus

#### Bimetal hand handsaw blade

Highly flexible spring band steel with fused HSSE cutter

- Highest flexibility with extremely hard teeth
- Hardness approx. 65 HRC: Average service life 4 times longer
- Risk of breakage significantly reduced even under extreme operational demands
- Precise cutting with individual tooth setting



| Model       | mm  | TPI | g  | 1 | 100 | No.          |
|-------------|-----|-----|----|---|-----|--------------|
| HSSE 4 Plus | 300 | 24  | 20 | 1 | 100 | <b>71213</b> |



### PORTACUT 185 BSR / PORTACUT 185 BSP

Light, precise building-site and workshop band saw up to Ø 180 mm

#### KEY FEATURES

- For quick and precise angled cutting of steel pipes, plastic pipes, profiles and solid materials
- **High torque** with the 420 W induction motor
- **Safer work** with the automatic shut-off and overload protection
- **Preserves saw blade life** with the 4-way adjustable cutting pressure

#### PORTACUT 185 BSR

- With safety chain quick-grip system

#### PORTACUT 185 BSP

- With parallel vice for clean, exact cuts and mitred cuts up to 45°

| Cutting power<br>Maschine Type | Straight Cuts |      | 45° Cuts |      |
|--------------------------------|---------------|------|----------|------|
|                                | Ø mm          | □ mm | Ø mm     | □ mm |
| 185 BSR                        | 180           | 150  | -        | -    |
| 185 BSP                        | 180           | 150  | 85       | 75   |

Scope of delivery: PORTACUT 185 BSR and/or. BSP, 2 band saw blades HSS Bi-Metal 14 TPI (No. 56605)

| Model            | kg   | 230 V        | 110 V        |
|------------------|------|--------------|--------------|
| PORTACUT 185 BSR | 43.0 | <b>56710</b> | <b>56717</b> |
| PORTACUT 185 BSP | 490  | <b>56711</b> | <b>56718</b> |



Fig. PORTACUT 185 BSR



Fig. PORTACUT 185 BSP

### Band Saw Blades for PORTACUT 185 BSR / BSP

| Dimensions mm     | TPI | Material | for pipes and profiles |             | kg  | No.          |
|-------------------|-----|----------|------------------------|-------------|-----|--------------|
|                   |     |          | Steel                  | INOX        |     |              |
| 1,640 x 13 x 0.65 | 8   | SS       | starting from 10.0 mm  | -           | 100 | <b>56602</b> |
| 1,640 x 13 x 0.65 | 10  | SS       | starting from 8.0 mm   | -           | 100 | <b>56603</b> |
| 1,640 x 13 x 0.65 | 14  | SS       | starting from 6.1 mm   | -           | 100 | <b>56604</b> |
| 1,640 x 13 x 0.65 | 14  | Bimetal  | starting from 6.1 mm   | from 2.0 mm | 100 | <b>56605</b> |
| 1,640 x 13 x 0.65 | 24  | SS       | up to 3.6 mm           | to 1.6 mm   | 100 | <b>56607</b> |
| 1,640 x 13 x 0.65 | 18  | Bimetal  | up to 3.6 mm           | to 1.6 mm   | 100 | <b>56608</b> |



### TRENNBOY 300

Pipe cutter up to Ø 300 mm

For cutting of SML cast iron /steel pipes up to Ø 300 mm, profiles / solids up to Ø 70 mm. For use with market-standard angle grinders and cut-off wheels Ø 230 mm (not included in delivery)

#### KEY FEATURES

- For quick, precise, right-angled cutting
- Basic model with right and left telescopic extension
- Extendable to a total support length of 1,680 mm
- Mountable as desired with "C" clamp
- Easy mounting of the angle grinder with the toggle screw

| Model  | kg   | No.          |
|--|------|--------------|
| TRENNBOY 300 (without angle grinder)           | 13.5 | <b>58520</b> |
| Double telescoping extension rail, r. (300 mm) | 1.9  | <b>58527</b> |
| Double telescoping extension rail, l. (300 mm) | 1.9  | <b>58528</b> |
| "C" clamp                                      | 0.4  | <b>58529</b> |



TRENNBOY 300 (No. 58520) with double telescoping extension rail, right (No. 58527) and left (No. 58528), "C" Clamp (No. 58529) Angle grinder and cut-off wheel (not included in delivery)



# Cutting

## Sawing Electric

1



### PIPECUT 170 / 170 E / 200 U / 360 PRO

Portable pipe cutting system Ø 15 - 360 mm



#### Product Profile

##### APPLICATION AREA

Ideal one-man portable cutting system, suitable for: Steel, copper, cast iron, aluminium, stainless steel and plastic (**PIPECUT 170 / 200 U** up to 12 mm, **PIPECUT 360 PRO** up to 27 mm wall thickness). For the quick cutting of pipes up to max. 8 mm wall thickness, from Ø 15 - Ø 170 mm (**PIPECUT 170**) and/or Ø 20 - Ø 220 mm (**PIPECUT 200 U**) and/or Ø 75 - Ø 360 mm (**PIPECUT 360 PRO**). The **PIPECUT 170 Electronic Control** also includes a 6-step adjustable cutting speed, which is suitable for processing stainless-steel pipes.

##### KEY FEATURES

- Self-guiding saw blade, guarantees perfect 90° cuts
- No deburring required
- Highest work safety with hidden cutting disc
- Cutting possible even in the smallest spaces
- Minimal spark generation
- No heat insertion in the cutting material
- No corrosion on cutting material

**INOX!**

##### No heat insertion in the cutting material

Minimal spark generation and low heat build-up in the material being cut, no corrosion

##### Hidden cutting disc

Highest safety standards

##### Self-guiding saw blade

Guarantees perfect, 90° cuts

##### Ergonomic design

Easy cutting in even the smallest spaces

##### Overload protection

Stops the disc and turns off the machine



Fig. PIPECUT 200 U

##### Manual fine-adjustment

No deburring required



Set (56712) includes: Saw, nylon handle bag, 3 supports and TCT disc

Diamond disc (No. 56706)



TCT disc (No. 56704)



Ceramic disc (No. 56705)



Plastic disc (No. 56703) only for PIPECUT 360 PRO





### PIPECUT 170 / 170 E

Portable pipe cutting system Ø 15 - 170 mm

Adjustable cutting speed!



| TECHNICAL DATA               | 170                     | 170 E                          |
|------------------------------|-------------------------|--------------------------------|
| Pipe diameter:               | Ø 15 - 170 mm           | Ø 15 - 170 mm                  |
| Max. wall thickness:         | 6 mm                    | 8 mm                           |
| Max. plastic wall thickness: | 12 mm                   | 12 mm                          |
| Voltage:                     | 230 V / 50 - 60 Hz      | 230 V / 50 - 60 Hz             |
| Performance:                 | 1,000 W                 | 1,200 W                        |
| Speed:                       | 3,700 min <sup>-1</sup> | 1,500 - 3500 min <sup>-1</sup> |
| Accepted disc diameter:      | 140 mm                  | 140 mm                         |
| Coupling diameter:           | 62 mm                   | 62 mm                          |

Set (No. 56770 / 56771) includes: Saw, nylon handle bag, 3 supports and TCT disc

| Model                                    | Working area | kg  | No.          | Model   | kg  | No.          |
|--|--------------|-----|--------------|---|-----|--------------|
| PIPECUT 170 (230 V)                      | 15 - 170     | 57  | <b>56770</b> | Diamond disc 140 x 62 (cast / SML)              | 0.1 | <b>56706</b> |
| PIPECUT 170 E Electronic Control (230 V) | 15 - 170     | 57  | <b>56771</b> | TCT disc HM 140 x 62 (universal)                | 0.1 | <b>56704</b> |
|  |              | 0.1 | <b>56705</b> | Ceramic disc 140 x 62 (special stainless steel) |     |              |

### PIPECUT 200 U

Portable pipe cutting system Ø 20 - 220 mm

| TECHNICAL DATA               |  |
|------------------------------|--|
| Pipe diameter:               | Ø 20 - 220 mm                            |
| Max. wall thickness:         | 8 mm                                     |
| Max. plastic wall thickness: | 12 mm                                    |
| Voltage:                     | 230 V / 50 - 60 Hz<br>110 V / 50 - 60 Hz |
| Performance:                 | 1,100 W                                  |
| Speed:                       | 4,000 min <sup>-1</sup>                  |
| Accepted disc diameter:      | 140 mm                                   |
| Coupling diameter:           | 62 mm                                    |

Set (No. 56712) includes: Saw, nylon handle bag, 3 supports and TCT disc



| Model                         | Working area | kg  | No.          | Model   | kg  | No.          |
|-------------------------------|--------------|-----|--------------|---|-----|--------------|
| PIPECUT 200 U (230 V)         | 20 - 220     | 94  | <b>56712</b> | Diamond disc 140 x 62 (cast / SML)              | 0.1 | <b>56706</b> |
| PIPECUT 200 U (110 V)         | 20 - 220     | 94  | <b>56719</b> | TCT disc HM 140 x 62 (universal)                | 0.1 | <b>56704</b> |
| Replacement support for 200 U |              | 0.2 | <b>56708</b> | Ceramic disc 140 x 62 (special stainless steel) | 0.1 | <b>56705</b> |
|                               |              |     |              | Carrying bag PIPECUT 200 U                      |     | <b>56707</b> |

### PIPECUT 360 PRO

Portable pipe cutting system Ø 75 - 360 mm

| TECHNICAL DATA               |  |
|------------------------------|--|
| Pipe diameter:               | Ø 75 - 360 mm                            |
| Max. wall thickness:         | 8 mm                                     |
| Max. plastic wall thickness: | 27 mm                                    |
| Voltage:                     | 230 V / 50 - 60 Hz<br>110 V / 50 - 60 Hz |
| Performance:                 | 1,400 W                                  |
| Speed:                       | 4,000 min <sup>-1</sup>                  |
| Accepted disc diameter:      | 165 mm                                   |
| Coupling diameter:           | 62 mm                                    |

Set (No. 56713 / 56714) includes: Saw, nylon handle bag, 4 supports and TCT disc



| Model                         | Working area | kg   | No.          | Model   | kg  | No.          |
|-------------------------------|--------------|------|--------------|---|-----|--------------|
| PIPECUT 360 PRO (230 V)       | 75 - 360     | 13.2 | <b>56713</b> | Replacement support for 360 PRO (double)        | 0.6 | <b>56729</b> |
| PIPECUT 360 PRO (110 V)       | 75 - 360     | 13.2 | <b>56714</b> | Disc 165 x 62 for 360 PRO (plastic)             | 0.2 | <b>56703</b> |
| TCT disc 140 x 62 (universal) |              | 0.1  | <b>56704</b> | Diamond disc 140 x 62 (cast / SML)              | 0.1 | <b>56706</b> |
|                               |              |      |              | Ceramic disc 140 x 62 (special stainless steel) | 0.1 | <b>56705</b> |



# Cutting

## Sawing Electric

### ROTIGER VARIO Electronic

#### Pipe saw

Powerful and quick cutting universal saw for the profession use during installation, demolition and repair work.



#### Product Profile

##### KEY FEATURES

- The special chain tensioning device enables precise 90° cuts on all types of pipe
- Ideal for free-handed cutting of wood (even with nails), steel, stainless-steel, cast iron, steel plate, metal pipes and profiles, plastic and building materials
- Flush to wall cutting in confined spaces, such as in shafts or when working overhead

##### TECHNICAL DATA

|                                  |   |
|----------------------------------|---|
| <b>Performance:</b>              | 1,500 W                                     |
| <b>Speed:</b>                    | 0 - 2,200 rpm (adjustable per wheel)        |
| <b>Weight:</b>                   | 4.3 kg                                      |
| <b>Distance:</b>                 | 26 mm                                       |
| <b>Dimensions:</b>               | 491 x 94 x 108 mm                           |
| <b>Cutting blade attachment:</b> | Universal, U-shaft, special pipe saw blades |



Fig. Tension device 2 in 1 (No. 50312)



Fig. Chain tensioning device (No. 50311)

#### L- and U-Shaft attachments



#### Precise 90° cuts



Set (No. 50305/50306) includes: ROTIGER VARIO electronic, chain tensioning device, 5 x HSS bi-metal saw blades

| Model  | kg | 230 V        | 110 V        |
|--|----|--------------|--------------|
| ROTIGER VARIO Electronic   | 70 | <b>50306</b> | <b>50305</b> |
| Chain tensioning device up to 6"   |    |              | <b>50311</b> |
| Tensioning device 2 in 1 (Chain tensioning device up to 6" + collet chucks up to 2") |    |              | <b>50312</b> |



Fig. ROTIGER VARIO Electronic

### Universal ROTIGER VARIO Electronic

#### Universal electronic saw

Universal electric saw for the sanitary and heating technology professional by installations or repair work



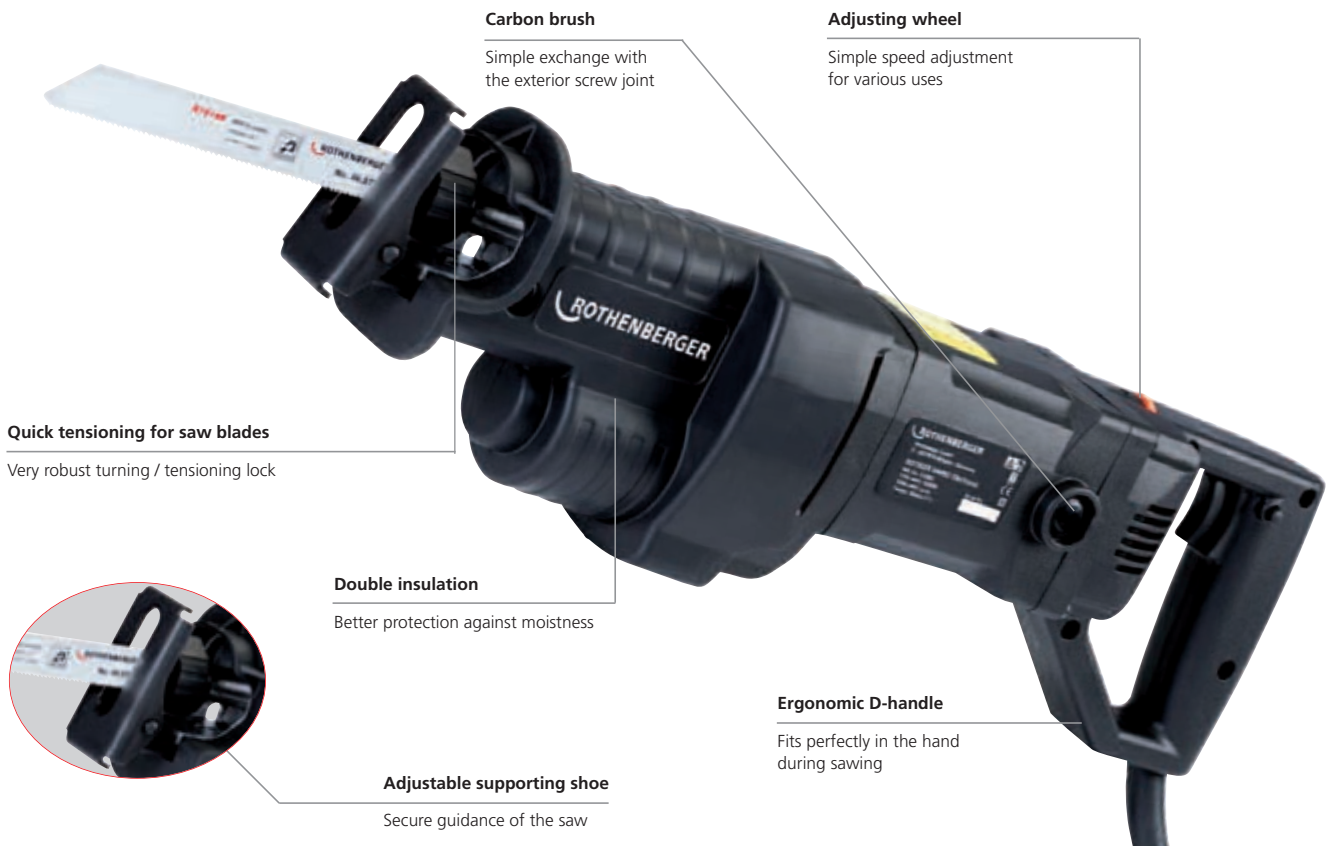
#### Product Profile

##### KEY FEATURES

- POWER FEED SYSTEM for a consistent cutting speed (while idling as well as during use), less wear of the saw blades and longer motor life
- Ideal for free-hand cutting of wood (also with nails), steel, stainless steel, cast iron, steel plate
- With the continuously adjustable speed regulation, it is perfect for use with all materials

##### TECHNICAL DATA

**Performance:** 1,600 W with 230 V / 1,300 W with 110 V  
**Speed:** 1,000 - 2,800 rpm (adjustable with wheel)  
**Weight:** 3.7 kg  
**Distance:** 26 mm  
**Dimensions:** 440 x 120 x 80 mm  
**Saw blade attachment:** Quick tensoning for universal saw blades



#### Universal-shaft attachment



#### Working in confined spaces



Set (No. 50301/50302 includes: Universal ROTIGER VARIO electronic, 5 x HSS bi-metal saw blades

|                                    |    |       |       |
|------------------------------------|----|-------|-------|
| Model                              | kg | 230 V | 110 V |
| UNIVERSAL ROTIGER VARIO Electronic | 70 | 50301 | 50302 |



Fig. Universal ROTIGER VARIO Electronic

# Cutting
















































## Saw Blades

1



### UNIVERSAL HSS Bimetal / TCT TIGER SAW BLADES














For 1/2" universal seating, also suitable for Flex, Bosch, B&D, Skil, Hitachi, Makita, Ridgid, Roller, Rems!

| Cuttable materials  | L x B x thickness materials   | mm              | TPI        |  | reference |  * | No.           |  |
|---|---|-----------------|------------|---|-----------|--|---------------|---|
|    |  HSS Bimetal | 100 x 20 x 0.9  | 24         | L   | S 522 AF  | 1 (5)  | <b>865783</b> |  |
|    |  HSS Bimetal | 150 x 20 x 0.9  | 24         | L   | S 922 AF  | 1 (5)  | <b>865784</b> |  |
|    |  HSS Bimetal | 150 x 20 x 0.9  | 18         | L   | S 922 EF  | 1 (5)  | <b>865785</b> |  |
|    |  HSS Bimetal | 150 x 20 x 0.9  | 14         | L   | S 922 BF  | 1 (5)  | <b>865786</b> |  |
|    |  HSS Bimetal | 200 x 20 x 0.9  | 18         | L   | S 1022 EF | 1 (5)  | <b>865787</b> |  |
|    |  HSS Bimetal | 200 x 20 x 0.9  | 14         | L   | S 1022 BF | 1 (5)  | <b>865788</b> |  |
|    |  HSS Bimetal | 300 x 20 x 0.9  | 10 - 14    | L   | S 1222 VF | 1 (5)  | <b>865789</b> |  |
|    |  HSS Bimetal | 150 x 20 x 1.25 | 6          | L   | S 611 DF  | 1 (5)  | <b>865781</b> |  |
|    |  HSS Bimetal | 300 x 20 x 1.25 | 6          | L   | S 1411 DF | 1 (5)  | <b>865782</b> |  |
|    |  HSS Bimetal | 150 x 22 x 1.6  | 8 - 10     | L   | S 920 CF  | 1 (5)  | <b>865790</b> |  |
|     |  HSS Bimetal | 200 x 22 x 1.6  | 8 - 10     | L   | S 1120 CF | 1 (5)  | <b>865791</b> |  |
|    | TCT coated  | 225 x 20 x 1.5  | 30er grain | L   | S 1130 RF | 1 (5)  | <b>865793</b> |  |

### HSS Bimetal










#### Special saw blades with U-shaft

Suitable ROTHENBERGER-ROTIGER VARIO for quick and exact, right-angle sawing of steel pipes up to 4") with chain pipe clamp (absolutely necessary)

| Cuttable materials  | L x B x thickness material | mm             | TPI     |  | reference |  * | No.           |  |
|---|----------------------------|----------------|---------|---|-----------|--|---------------|---|
|    | HSS Bimetal                | 140 x 25 x 1.6 | 8       | U   | S 920 CF  | 1 (5)  | <b>865795</b> |  |
|    | HSS Bimetal                | 200 x 25 x 1.6 | 8       | U   | S 1120 CF | 1 (5)  | <b>865796</b> |  |
|   | HSS Bimetal                | 150 x 25 x 1.0 | 10 - 14 | U   |           | 1 (5)  | <b>865798</b> |  |
|   | HSS Bimetal                | 200 x 25 x 1.0 | 10 - 14 | U   |           | 1 (5)  | <b>865799</b> |  |

### Special Pipe Saw Blades

For exact, right-angle sawing with chain pipe clamp (absolutely necessary), extra strong and warp resistant guidance for straight cuts and long operational life

| Cuttable materials  | L x B x thickness material | mm             | TPI   |  |  * | No.   |  |
|---|----------------------------|----------------|-------|---|--|-------|---|
|  | HSS                        | 140 x 25 x 1.6 | 8     | L   |  | 1 (5) | <b>50260</b>  |
|  | HSS                        | 200 x 25 x 1.6 | 8     | L   |  | 1 (5) | <b>50261</b>  |
|  | HSS                        | 290 x 25 x 1.6 | 6 - 8 | L   |  | 1 (5) | <b>50263</b>  |
|  | HSS-E                      | 140 x 25 x 1.6 | 14    | L   |  | 1 (5) | <b>50264</b>  |
|  | HSS-E                      | 200 x 25 x 1.6 | 8     | L   |  | 1 (5) | <b>50265</b>  |
|  | HSS                        | 200 x 25 x 1.6 | 6 - 8 | L   |  | 1 (5) | <b>50266</b>  |

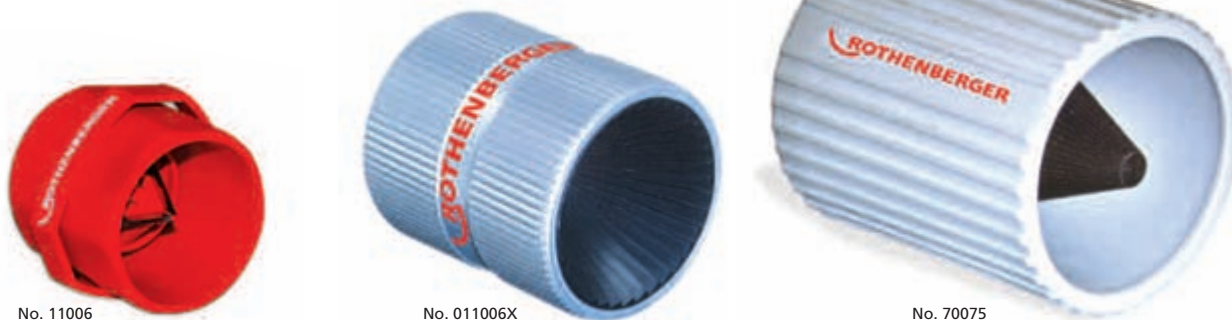
\* 5 pcs. in plastic carrying case (minimum purchase)



### Universal Internal & External Deburrer

Quick and easy deburring  $\varnothing$  4 - 54 mm (1/8" - 2")

For copper, steel and stainless steel pipes, with polished cutting blade made of hardened special steel, smooth running



| Model  | mm      | inch         | g   |      | No.            |
|--|---------|--------------|-----|------|----------------|
| Internal and external deburrer for copper and plastic                | 4 - 36  | 1/8 - 1.3/8" | 30  | 1 25 | <b>11006</b>   |
| Internal and external deburrer for copper and INOX (Stainless steel) | 6 - 35  | 1/4 - 1.3/8" | 100 |      | <b>011006X</b> |
| Universal internal and external deburrer for copper and INOX         | 10 - 54 | 1/2 - 2"     | 390 |      | <b>70075</b>   |

### Deburrer Adaptor I / II

Adaptor for the use of the internal and external deburring with portable screwdriver or drill

**Best deburring results at low speeds!**

#### Product Profile

#### KEY FEATURES

- User-friendly solution for deburring pipes "internal and external"
- Huge time-savings
- Precise, burr-free deburring without effort



No. 11045



No. 11044

**Drive shaft**

For the deburring with portable screwdriver or drill



| Model                              | g   | No.          |
|------------------------------------|-----|--------------|
| Deburrer adaptor I for No. 011006X | 160 | <b>11044</b> |
| Deburrer adaptor II for No. 70075  | 280 | <b>11045</b> |

# Cutting

1

## Deburring, Chamfering & Calibration

### GRATFIX HSS/UNIGRAT

#### Deburrer

##### KEY FEATURES

- Replaceable blades
- GRATFIX with plastic cartridge-grip
- Grip recess is raised at the end and prevents slippage out of the hand
- One-handed use with the retractable locking head
- Offset surfaces provide a good torque
- Pluggable handle ends for the storage of associated blades

Ideal for deburring of edges, pipes and steel, aluminium, brass, copper sheets, cast-iron and plastic plates!



UNIGRAT (No. 21660)



GRATFIX HSS (No. 21655)



No. 1 (No. 21652)



No. 2 (No. 21653)



No. 3 (No. 21654)

| Model                                      | g  | No.          |
|--|----|--------------|
| UNIGRAT with HSS deburring blade           | 30 | <b>21660</b> |
| GRATFIX with deburring blade No. 1         | 50 | <b>21655</b> |
| GRATFIX with deburring blade No. 1 - 2 - 3 | 80 | <b>21651</b> |

| Model  | g  | No.          |
|--|----|--------------|
| HSS deburring blade No. 1 Universal          | 10 | <b>21652</b> |
| HSS deburring blade No. 2 for brass and cast | 10 | <b>21653</b> |
| HSS deburring blade No. 3 for straight edges | 10 | <b>21654</b> |

### Plastic Pipe Chamfering Unit

With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe



No. 55051



##### KEY FEATURES

- Flexible in use
- Wall thickness is continuously adjustable

| Model                    | mm       | g    | No.          |
|--------------------------|----------|------|--------------|
| Chamfering unit size 1   | 16 - 110 | 720  | <b>55050</b> |
| Chamfering unit size 2   | 32 - 160 | 800  | <b>55051</b> |
| Spare blade size 1 and 2 |          | 30.0 | <b>55058</b> |

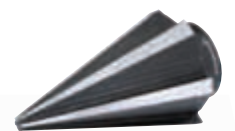
### Ratchet Pipe Deburrer 1/4 - 2"

Rapid and clean deburring

For steel pipes, with smooth-running ratchet, cutting bit made of tempered steel

##### Quick adjustment

Handy, lockable Reversal of the ratchet direction



Spare deburrer (No. 70296)



| Model                          | inch     | mm      | g    | No.          |
|--------------------------------|----------|---------|------|--------------|
| Internal deburrer with ratchet | 1/4 - 2" | 13 - 60 | 2680 | <b>70289</b> |
| Spare deburrer                 |          |         | 200  | <b>70296</b> |

### ROGRAT-MSR Deburrer and Chamfering Tool

For internal and external deburring, chamfering, calibrating and custom milling of PE-X and aluminium multi-layer (MSR) pipes Ø 32 mm



**One tool with three functions: Chamfering, calibrating and deburring!**

#### KEY FEATURES

- Internal and external deburrer for PE-X and aluminium multi-layer pipes (MSR) through chamfering to approved standards
- Simultaneous chamfering
- Calibration of the pipe ends through a special guiding pin

True to size guiding and calibration pin

Increased safety, protects O-ring from damage



Shock-resistant protective sleeve

Protects from injury

Star handle with screw-bit attachment and quick locking mechanism

High force transmission



Fig. ROGRAT-MSR Deburrer Set

### ROGRAT-MSR System - Manual Chamfering Attachments

| ROGRAT-Type | Press-System         | Pipe measurement mm | Colour-code | g   | No.   |
|-------------|----------------------|---------------------|-------------|-----|-------|
| G 16        |                      | 16.0 x 225          | ●           | 53  | 14102 |
| G 20        | GEBERIT Mepla        | 20.0 x 250          | ●           | 93  | 14104 |
| G 26        |                      | 26.0 x 3.00         | ●           | 108 | 14106 |
| G 32        |                      | 320 x 3.00          | ●           | 162 | 14107 |
| U 14        |                      | 14.0 x 200          | ●           | 51  | 14111 |
| U 16        |                      | 16.0 x 200          | ●           | 53  | 14112 |
| U 18        | UNIPIPE/TIGRIS-S     | 180 x 200           | ●           | 58  | 14113 |
| U 20        | WAVIN                | 20.0 x 225          | ●           | 93  | 14114 |
| U 25        |                      | 250 x 250           | ●           | 108 | 14115 |
| U 32        |                      | 320 x 3.00          | ●           | 162 | 14117 |
| TH 14       |                      | 14.0 x 200          | ●           | 51  | 14121 |
| TH 16       | Henco / MHS          | 16.0 x 200          | ●           | 53  | 14122 |
| TH 18       | Giacomini            | 180 x 200           | ●           | 58  | 14123 |
| TH 20       |                      | 20.0 x 200          | ●           | 93  | 14124 |
| TH 26       |                      | 26.0 x 3.00         | ●           | 108 | 14126 |
| F 16-1      |                      | 16.0 x 200          | ●           | 53  | 14132 |
| F 18        | Fränkische Rohrwerke | 180 x 200           | ●           | 58  | 14133 |
| F 20-1      | alpex-therm          | 20.0 x 200          | ●           | 93  | 14134 |
| F 26        | alpex-san            | 26.0 x 3.00         | ●           | 108 | 14136 |
| F 32        |                      | 320 x 3.00          | ●           | 162 | 14137 |

● black ● brown ● violet ● yellow

Colour coding prevents confusion



System optimised chamfer



Set includes: Carrying case (No. 14005), with basic handle grip (No. 14000) and system-manual chamfering attachments

| Model                | For size mm  | g   | No.   |
|----------------------|--------------|-----|-------|
| G Geberit Mepla      | 16 - 20 - 26 | 760 | 14260 |
| U Unicor/Unipipe     | 16 - 20 - 25 | 760 | 14270 |
| TH Henco/HMS         | 16 - 20 - 26 | 760 | 14250 |
| F Fränk. Rohrwerke   | 16 - 20 - 26 | 760 | 14230 |
| Basic handle         |              | 250 | 14000 |
| System carrying case |              | 250 | 14005 |





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# RODIA® Diamond Core Drilling & Cutting



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# RODIA® Diamond Core Drilling & Cutting

## System Overview Diamond Core Drilling



### ROTHENBERGER Diamond Core Drilling

|                                       | <b>RODIADRILL<br/>Ceramic /<br/>Ceramic ECO</b>  | <b>RODIADRILL<br/>1800 DRY</b>  | <b>RODIACUT®<br/>130 PRO</b>        | <b>RODIACUT®<br/>170 PRO</b>  | <b>RODIACUT®<br/>270 PRO</b>                                    | <b>RODIACUT®<br/>400 PRO</b>  |
|---------------------------------------|--|---|-------------------------------------|---|---|---|
| <b>Drilling range<br/>in concrete</b> | 6 - 35 mm  | -   | 10 - 162 mm                         | 10 - 172 mm   | 32 - 272 mm   | 32 - 400 mm<br>w/ distance plate 500mm  |
| <b>Drilling range<br/>in masonry</b>  | 6 - 67 mm  | 32 - 202 mm   | 32 - 202 mm                         | 32 - 202 mm   | 32 - 272 mm   | 32 - 400 mm<br>w/ distance plate 500mm  |
| <b>Distance to<br/>wall</b>           | 30 mm  | 40 mm   | 40 mm                               | 40 mm   | 50 mm   | 50 mm   |
| <b>Stationary</b>                     | - / 67 mm  | 32 - 172 mm   | 10 - 162 mm                         | 10 - 172 mm   | 32 - 272 mm   | 32 - 402 (500) mm   |
| <b>Watt<br/>output</b>                | 800 W  | 1,800 W   | 1,800 W                             | 1,800 W   | 2,400 W   | 3,000 W   |
| <b>Weight</b>                         | 3.4 / 3.2 kg   | 5.8 kg  | 14.2 kg                             | 25.0 kg   | 30.5 kg   | 40.5 kg   |
| <b>Special<br/>features</b>           | Wide area of use,<br>extremely light<br>machine, especially<br>for hard natural<br>stone / tiles | Soft PULSE can be<br>turned on / off.<br>Integrated extraction<br>rotor | 4 functions with just<br>one device | 4 functions with<br>just one device.<br>Fully equipped drill<br>stand | Motor quick release<br>system. Fully<br>equipped drill<br>stand | Innovative motor<br>electronics, fully<br>equipped drill stand,<br>extremely high<br>torque |
|                                       | <b>38, 39</b>  | <b>37</b>   | <b>41</b>                           | <b>42, 43</b>   | <b>44, 45</b>   | <b>46, 47</b>   |

### ROTHENBERGER Diamond Drilling Technology

|                         | <b>EUROLASER</b>  | <b>High Speed Plus<br/>Natural Stone</b>                                      | <b>DURAMANT PRO /<br/>DX-High Speed Plus</b>   | <b>SPEED STAR DX</b>   |
|-------------------------|---|---|--|--|
| <b>Application Area</b> | Dry drill bit   | Wet drill bit   | Wet and dry drill bit  | Wet and dry drill bit  |
| <b>Socket threads</b>   | M16, M30 x 2, 1.1/4" UNC  | R1/2"   | R1/2" + 1.1/4" UNC   | R1/2" + 1.1/4" UNC   |
| <b>Effective length</b> | 80 / 150 / 300  | 50 / 120 / 300  | 400, 500 / 300, 430  | 400 / 500  |
| <b>Segment mount</b>    | Laser-welded  | Soldered  | Space welding  | Space welding  |
| <b>Segment form</b>     | Roof-type segment   | Flat segment  | PRISMACUT  | PRISMACUT  |
| <b>Material</b>         | Lime sand brick, hollow<br>brickwork, masonry, aerated<br>concrete, clinker | Reinforced concrete, marble<br>granite, hollow brickwork,<br>masonry, clinker | Reinforced concrete, concrete,<br>marble, granite, lime sand brick,<br>hollow brickwork, masonry,<br>aerated concrete, clinker | Reinforced concrete, concrete<br>asphalt*, pavement*<br><small>*custom made on request</small> |
|                         | <b>49</b>   | <b>50</b>   | <b>51, 53</b>  | <b>52</b>  |

Reinforced  
concrete

Marble

Granite

Lime sand brick

Hollow  
brickwork

Masonry

Aerated  
concrete

Asphalt

Pavement





# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated Drilling

### RODIADRILL 1800 DRY

Hand-operated dry drilling, drill Ø 32 - 202 mm



#### Product Profile

##### APPLICATION AREA

Hand-operated dry drilling, optimal for drilling in lime sand brick, masonry, brickwork, pumice, aerated concrete  
Ideal for use in the HVAC&R, plumbing and electrical industries, in enclosed rooms or in inhabited buildings where jolt and dust free operation is required

##### KEY FEATURES

- Efficient drilling with the help of the POWER PULSE technology
- Optimum drilling results with the powerful extraction rotor
- Electronic friction clutch with 20 Nm torque
- Safe operation with the electronic soft start with overload indicator
- Better operating position, directly against the wall, small compact design

##### KEY FEATURES

- Operation possible with RODIACUT® 170 Pro (FF30171, FF30170 (130 PRO (No. 100000088)) possible
- Clamping adaptor Ø 56 mm

##### TECHNICAL DATA

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Transmission:</b>               | 1 speed transmission         |
| <b>Nominal speed:</b>              | 1150 rpm                     |
| <b>Drilling range in mm:</b>       | Ø 32 - 202                   |
| <b>Voltage:</b>                    | 230 V                        |
| <b>Rated input/output:</b>         | 2,500 Watt / 1,800 Watt      |
| <b>Charging rate:</b>              | 8.5 A                        |
| <b>Minimum distance to wall:</b>   | 40 mm from drill hole centre |
| <b>Minimum distance to corner:</b> | 40 mm from drill hole centre |
| <b>Weight:</b>                     | 5.8 kg                       |



**Lightweight:  
5.8 kg!**

Dust free use



4-part set (No. FF40185) includes: Drill motor RODIADRILL 1800 DRY incl. transport case (No. FF60185), spanner size 24 and size 36 (No. FF70024 / No. FF70036)

| Model                   | kg   | No.     |
|-------------------------|------|---------|
| RODIADRILL 1800 DRY set | 5.80 | FF40185 |

#### ACCESSORIES



| Description                                | kg   | No.     | Description                        | kg    | No.     |
|--|------|---------|------------------------------------|-------|---------|
| Centering pin as drill support, 300 mm     | 0.33 | FF03300 | Socket drill bit Ø 68 mm           | 0.20  | FF03168 |
| Centering pin as drill support, 400 mm     | 0.35 | FF03301 | Socket drill bit Ø 82 mm           | 0.30  | FF03182 |
| Centering tip „Quick Out“ I. V. M. FF35097 | 0.10 | FF35096 | Dry cleaner RODIA DC 1200          | 10.80 | FF35148 |
| Adaptor R 1/2" for M16                     | 0.10 | FF35097 | Transport case RODIADRILL 1800 DRY | 4.40  | FF60185 |

Drill bits 49, 50, 51, 52, 53

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated Drilling

### RODIADRILL Ceramic RODIADRILL Ceramic ECO



2

#### Hand-operated wet drilling, drill Ø 6 - 67 mm

Ideally suited for HVAC&R, plumbing professionals, tilers, stair builders, remodelling specialists as well as electricians.

Everywhere where jolt-free operation is necessary and extremely hard materials need to be processed.

#### Product Profile

##### APPLICATION AREA

**Hand-operated wet drilling in:**  
(reinforced) concrete Ø 6 - 35 mm, marble, granite, ceramic tiles, masonry, hollow brickwork and glass Ø 6 - 67 mm

##### KEY FEATURES

- For all common R 1/2" drill bits
- Fatigue-free operation with the light weight
- Also drills through material combinations (for example tiles + masonry) without damaging material or surfaces and without cumbersome tool change
- "Aqua-Stop Button" with quantity adjustment
- Ideal for serial drilling with the external water supply
- Tool-less exchange of the drill bits with the Quick Change system
- Integrated 1 litre water tank for 4-6 drill holes

##### TECHNICAL DATA

|                                    |                                      |               |
|------------------------------------|--------------------------------------|---------------|
| <b>2-speed transmission:</b>       | 1. Gear speed                        | 2. Gear speed |
| <b>Nominal speed:</b>              | 3,600 rpm                            | 6,400 rpm     |
| <b>Drilling range in mm:</b>       | Ø 25 - 67                            | Ø 6 - 25      |
| <b>Voltage:</b>                    | 230 V                                |               |
| <b>Rated input/output:</b>         | 1,150 Watt / 800 Watt                |               |
| <b>Charging rate:</b>              | 3.6 A                                |               |
| <b>Maximum drilling depth:</b>     | 400 mm (depending on material)       |               |
| <b>Minimum distance to wall:</b>   | 30 mm from drill hole centre         |               |
| <b>Minimum distance to corner:</b> | 30 mm from drill hole centre         |               |
| <b>Weight</b>                      | 3.4 kg Ceramic<br>3.2 kg Ceramic ECO |               |
| <b>Stationary:</b>                 | Ø 67 mm (Ceramic ECO)*               |               |

\*Only in tiles! Otherwise max. 35 mm in concrete.

#### Integrated 1 litre water tank

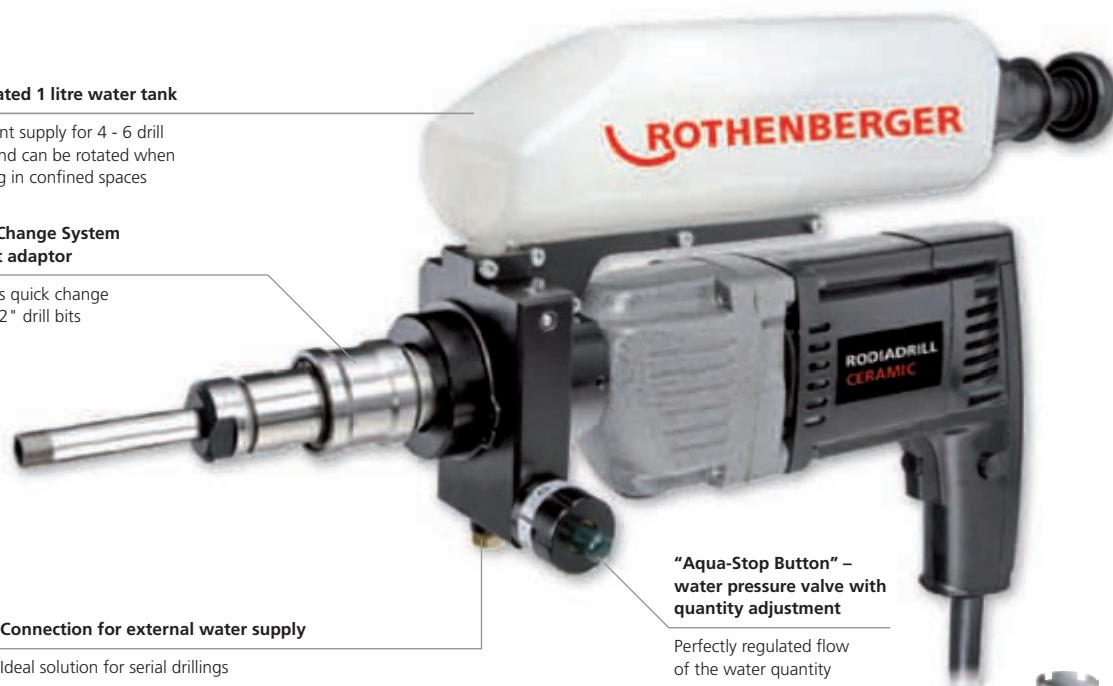
Sufficient supply for 4 - 6 drill holes and can be rotated when working in confined spaces

#### Quick Change System drill bit adaptor

Tool-less quick change for R 1/2" drill bits

#### Connection for external water supply

Ideal solution for serial drillings



"Aqua-Stop Button" – water pressure valve with quantity adjustment

Perfectly regulated flow of the water quantity



You will find special drill bits for RODIADRILL Ceramic on page 50!

Clean drilling of tiles



Drilling of the hardest materials



7-part set (No. FF40150) includes: Drill motor RODIADRILL Ceramic (No. FF40150P), 1 high speed plus drill bit each Ø 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), spanners sizes 24 and 27 (No. FF70024, FF70027), transport case (No. FF60150)

|                        |     |         |
|------------------------|-----|---------|
| Model                  | kg  | No.     |
| RODIADRILL Ceramic set | 3.4 | FF40150 |

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Wet Drilling

### RODIADRILL Ceramic ECO

Hand-operated and stationary wet drilling machine, drill Ø 6 - 67 mm

- Further developed for hand-operated and stationary wet drilling in the smallest drilling range
- Drills in all the hardest materials such as tile, natural stone, concrete glass and ceramic
- Especially recommended for high-quality bathroom installations without damaging surface materials
- Water extraction is possible with the stand guided drill



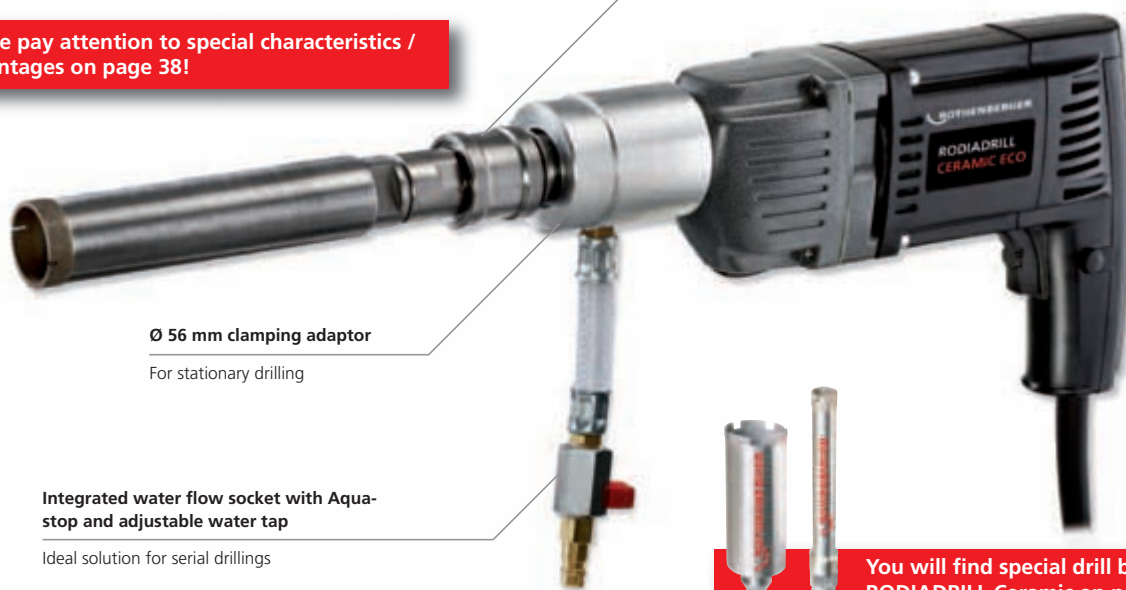
Ø 67

With drill stand (No. FF30170 + FF30171), 1000000088 stationary drilling is possible!

Quick Change System drill bit adaptor

Tool-less quick change for drill bits R 1/2"

Please pay attention to special characteristics / advantages on page 38!



Ø 56 mm clamping adaptor

For stationary drilling

Integrated water flow socket with Aqua-stop and adjustable water tap

Ideal solution for serial drillings

You will find special drill bits for RODIADRILL Ceramic on page 50!

Quick change adaptor



Drill bits HSP natural stone



Stationary drilling

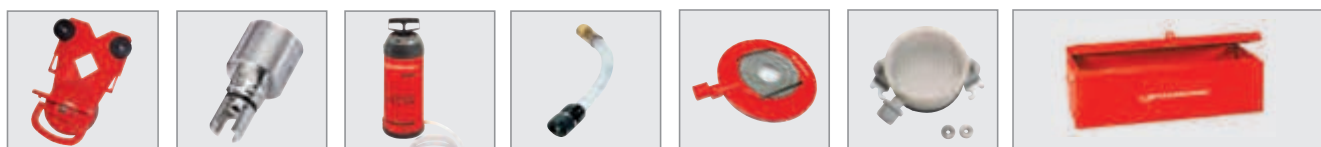


Set (No. FF40140) includes: Drill motor RODIADRILL Ceramic ECO (No. FF40140), spanner sizes 24 and 27 (No. FF70024, FF70027), Quick change adaptor R 1/2", (No. FF35751), transport case (No. FF60150)

| Model                         | kg   | No.            |
|-------------------------------|------|----------------|
| RODIADRILL Ceramic ECO set    | 3.2  | <b>FF40140</b> |
| RODIACUT® drill stand 170 PRO | 10.0 | <b>FF30171</b> |

| Model                            | kg  | No.            |
|----------------------------------|-----|----------------|
| Quick change adaptor R 1/2"      | 0.2 | <b>FF35751</b> |
| Pressurized water container 10 l | 5.5 | <b>FF35026</b> |

### ACCESSORIES



| Description                          | kg   | No.            | Description                           | kg   | No.            |
|--------------------------------------|------|----------------|---------------------------------------|------|----------------|
| Freehand drill support up to Ø 83 mm | 0.45 | <b>FF35750</b> | Water supply hose with "aqua-stop"    | 0.20 | <b>FF35302</b> |
| Quick change adaptor                 | 0.20 | <b>FF35751</b> | Water collection ring, hand-operated  | 0.80 | <b>FF35701</b> |
| Pressurized water container 10 l     | 5.50 | <b>FF35026</b> | Water collection ring, stationary     | 1.20 | <b>FF35700</b> |
| Special water supply hose            | 0.20 | <b>FF35301</b> | Transport case RODIADRILL Ceramic ECO | 4.80 | <b>FF60150</b> |

Drill Bit High-Speed-Plus Natural Stone 50



# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### Drill Stands

### Feed Units

### Drill Motors

### Diamond Drilling System

130 PRO



41

RC 130 PRO



41

Ceramic ECO



39

RODIACUT® 130 PRO



41

170 PRO C/D



42, 43

RC 170 PRO



42, 43

1400/1800 DWS



41

RODIACUT® 170 PRO C / PRO D



42, 43

270 PRO C/D



44, 45

RC 270 PRO



44, 45

1800 DRY



47

RODIACUT® 270 PRO C / PRO D



44, 45

400 PRO



46, 47

RC 400 PRO



46, 47

2400 PD-E



44, 45

RODIACUT® 400 PRO



46, 47

3000 PD



46, 47

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### RODIACUT® 130 PRO

Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 202 mm

Ideal for use in HVAC&R, plumbing and electrical industries, as well as the entire building industry where jolt and dust-free operation is required.



#### Product Profile

##### APPLICATION AREA

|   |               |
|---|---------------|
| Stationary wet drilling in (reinforced) concrete    | Ø 10 - 162 mm |
| Stationary dry drilling in masonry                  | Ø 32 - 162 mm |
| Hand-operated wet drilling in (reinforced) concrete | Ø 10 - 82 mm  |
| Hand-operated dry drilling in masonry               | Ø 32 - 202 mm |

##### KEY FEATURES

- Low vibration drilling with the 4 x roll guides
- Stainless-steel handle can be exchanged without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Universal feed unit, also with RODIACUT® 170, 270 and 400 Pro
- Ø 60 mm clamping neck adaptor

##### TECHNICAL DATA (DRILL MOTOR)

|                                 |  |
|---------------------------------|--|
| <b>Drill motor:</b>             | RODIADRILL 1400 DWS                                |
| <b>Drilling range:</b>          | in concrete max. Ø 132 mm<br>in brickwork Ø 162 mm |
| <b>Min. distance to wall:</b>   | 40 mm from drill hole centre                       |
| <b>Min. distance to corner:</b> | 40 mm from drill hole centre                       |
| <b>Threaded adaptor:</b>        | R 1/2" and 1.1/4" UNC                              |
| <b>Rated input / output:</b>    | 2,000 Watt / 1,400 Watt                            |
| <b>2-speed transmission:</b>    | 1. Gear      2. Gear                               |
| <b>Nominal speed:</b>           | 500 rpm      1,050 rpm                             |
| <b>Torque:</b>                  | 55 - 27 Nm   |
| <b>Charging rate:</b>           | 8.5 A  |
| <b>Weight:</b>                  | Motor 7.0 kg                                       |
| <b>Clamping neck:</b>           | Ø 56 mm  |

Ideal for difficult spaces



**Dowel plate:** Extremely small dimensions, for very tight spaces



**Circular level:** Quick and precise alignment of the drill stands



Scope of Delivery 1000000089): Drill stand RODIACUT® 130 PRO , drill motor RODIADRILL 1800 DWS, reduction rings 56 mm (No. F85152), spanner size 19/24/36/41, water supply hose (No. FF35302), complete concrete set (No. FF35120), copper ring 1.1/4" (No. FF35190), instruction manual RODIADRILL 1800 DWS (No. 90704), instruction manual RODIACUT® 130 PRO (No. 1300000155), tool bag (No. FF70001)

| Model   | kg   | No.        |
|---|------|------------|
| RODIACUT® 130 PRO set<br>with RODIADRILL drill motor 1800 DWS | 14.2 | 1000000089 |
| RODIACUT® 130 PRO set<br>with RODIADRILL drill motor 1400 DWS | 14.1 | 1000000092 |
| Drill stand RODIACUT® 130 PRO                                 | 7.2  | 1000000088 |
| Drill bits on  48   |      |            |

**Threaded adaptor:  
R 1/2" and 1.1/4" UNC!**

**Feed unit and  
4x guide rollers**

Universal use with  
RODIACUT® 170,  
270 and 400 PRO

**Stainless-steel handle**

Quick, tool-less exchange  
of the operational side,  
sturdy design



# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### RODIACUT® 170 PRO C / 170 PRO D

Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 202 mm



2

#### Product Profile

##### APPLICATION AREA

##### 4 Applications with just one unit:

- Stationary wet drilling in (reinforced) concrete Ø 10 - 172 mm
- Stationary dry drilling in masonry Ø 32 - 172 mm
- Hand-operated wet drilling in (reinforced) concrete Ø 10 - 82 mm
- Hand-operated dry drilling in masonry Ø 32 - 202 mm

##### KEY FEATURES

- Universal feed unit, can also be used with RODIACUT® 270 PRO and 400 PRO with the 4x guide rolls
- Drill angle adjustment from -15° up to +45°, in 2.5° adjustable steps
- Quick display of the drill hole centre (only with combination plate)

##### TECHNICAL DATA (DRILL STANDS)

|                             |   |                  |
|-----------------------------|---|------------------|
| <b>Drilling range:</b>      | w/o water collection ring: max. Ø 172 mm<br>with water collection ring: max. Ø 132 mm |                  |
| <b>Drill motor adaptor:</b> | Ø 60 mm   |                  |
|                             | <b>170 PRO C</b>  | <b>170 PRO D</b> |
| <b>Length</b>               | 470 mm  | 315 mm           |
| <b>Width:</b>               | 300 mm  | 180 mm           |
| <b>Height:</b>              | 860 mm  | 860 mm           |
| <b>Hub:</b>                 | 525 mm  | 525 mm           |
| <b>Weight:</b>              | 13.1 kg   | 12.8 kg          |

##### TECHNICAL DATA (DRILL MOTOR)

|                                 |   |
|---------------------------------|---|
| <b>Drill motor:</b>             | RODIADRILL 1800 DWS                                   |
| <b>Drilling range:</b>          | in concrete max. Ø 172 mm<br>in masonry max. Ø 202 mm |
| <b>Freehand:</b>                |   |
| <b>Min. distance to wall:</b>   | 40 mm from drill hole centre                          |
| <b>Min. distance to corner:</b> | 40 mm from drill hole centre                          |
| <b>Threaded adaptor:</b>        | R 1/2" + 1.1/4" UNC                                   |
| <b>Rated input/output:</b>      | 2,500 Watt / 1,800 Watt                               |
| <b>2 speed transmission:</b>    | 760 - 1,570 rpm                                       |
| <b>Torque:</b>                  | 58 - 27 Nm  |
| <b>Charging rate:</b>           | 8.5 A   |
| <b>Weight:</b>                  | 7.0 kg  |
| <b>Clamping neck:</b>           | Ø 56 mm   |

#### Sliding carriage on all RODIACUT® PRO drill stands and columns

Stable and low-vibration operation, flexible use / modular design

#### Rubber transport wheels

Quick and easy transport on the building site (standard with combination plate)

#### With integrated vacuum plate / valve and 4 adjustable screws to level out unevenness

High-quality drill base

#### Drill angle adjustment

Adjustable from 15° up to +45° in 2.5° steps

#### Drill hole centre indicator

Quick adjustment for an exact drilling position





# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### CHARACTERISTICS 170 PRO C and 170 PRO D

#### Available with both drill stands:

- Precise and vibration free drilling with the 4x roll guides
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale
- Braced head
- Ø 60 mm clamping neck adaptor

### ADDITIONAL CHARACTERISTICS 170 PRO C

- Second transport handle
- Transport wheels
- Vacuum plate
- Drill hole centre indicator
- Vacuum valve

#### Stainless steel handle

Tool-less quick change for the operating side, sturdy design

#### Feed unit and 4 x roll guides

Universally applicable on RODIACUT® 130, 270 PRO and 400 PRO



Fig. 170 PRO C

Fig. 170 PRO D



Clean work in enclosed rooms

Scope of delivery (No. FF34171 / FF34170): Drill stand RODIACUT® 170 PRO C or 170 PRO D, drill motor RODIADRILL 1800 DWS, reducing ring 56 mm (No. F85152), spanner sizes 19/24/36/41, Allen key 6 mm, water supply hose (No. FF35302), concrete set, complete (No. FF35120), copper ring 1.1/4" (No. FF35190), Instruction manuals: RODIADRILL 1800 DWS (No. 90704), RODIACUT® 170 - 400 (No. 90726), tool bag (No. FF70001)

| Model                             | kg   | No.            |
|-----------------------------------|------|----------------|
| RODIACUT® 170 PRO C complete      | 13.1 | <b>FF34171</b> |
| RODIACUT® 170 PRO D complete      | 12.8 | <b>FF34170</b> |
| RODIADRILL 1800 DWS               | 7.0  | <b>FF40180</b> |
| Drill column RODIACUT® 170 PRO C  | 6.1  | <b>FF30171</b> |
| Drill column RODIACUT® 170 PRO D  | 5.8  | <b>FF30170</b> |
| Drill column 860 mm, Hub 525 mm   | 7.6  | <b>FF50978</b> |
| Drill column 1335 mm, Hub 1000 mm | 12.4 | <b>FF50981</b> |
| Drill column 1835 mm, Hub 1500 mm | 16.5 | <b>FF50982</b> |
| Feed unit for RC 170 PRO          | 3.1  | <b>FF50977</b> |
| Anchor foot for RC 170 PRO        | 3.3  | <b>FF50979</b> |

### ACCESSORIES



| Description                      | No.               | Description                          | No.               |
|----------------------------------|-------------------|--------------------------------------|-------------------|
| RODIADRILL CERAMIC ECO           | <b>39 FF40140</b> | RODIA DRY CLEANER 1200               | <b>57 FF35148</b> |
| RODIADRILL 1800 DRY              | <b>37 FF40185</b> | Water collection ring, hand-operated | <b>56 FF35701</b> |
| Pressurized water container 10 l | <b>55 FF35026</b> | Water collection ring, stationary    | <b>56 FF35700</b> |
| Vacuum pump RODIA-VAC            | <b>54 FF35200</b> | Drill bits                           | <b>on 48</b>      |

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### RODIACUT® 270 PRO C / 270 PRO D

Drill stand with dowel- or vacuum combination plate drill Ø 32 - 272 mm



#### Product Profile

##### APPLICATION AREA

##### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 272 mm  
 Stationary dry drilling in masonry Ø 32 - 272 mm

##### KEY FEATURES

- Universal feed unit, can also be used with RODIACUT® 130, 170 PRO und 400 PRO
- Drill angle adjustment from -15° up to +45°, in 2.5° adjustable steps
- Drill hole centre indicator (270 PRO C) for quick alignment

##### TECHNICAL DATA (DRILL STANDS)

|                             |  |                  |
|-----------------------------|--|------------------|
| <b>Drilling range:</b>      | w/o water collection ring: max. Ø 272 mm<br>with water collection ring max. Ø 222 mm |                  |
| <b>Drill motor adaptor:</b> | Direct adaptor for feed unit   |                  |
|                             | <b>270 PRO C</b>   | <b>270 PRO D</b> |
| <b>Length:</b>              | 520 mm   | 330 mm           |
| <b>Width:</b>               | 330 mm   | 220 mm           |
| <b>Height:</b>              | 980 mm   | 980 mm           |
| <b>Hub:</b>                 | 595 mm   | 595 mm           |
| <b>Weight:</b>              | 16.8 kg  | 16.5 kg          |

##### TECHNICAL DATA (DRILL MOTOR)

|                                 |   |
|---------------------------------|---|
| <b>Drill motor:</b>             | RODIADRILL 2400 PD-E                                  |
| <b>Drilling range:</b>          | in concrete max. Ø 272 mm<br>in masonry max. Ø 272 mm |
| <b>Min. distance to wall:</b>   | 50 mm from drill hole centre                          |
| <b>Min. distance to corner:</b> | 50 mm from drill hole centre                          |
| <b>Threaded adaptor:</b>        | R 1/2" + 1.1/4" UNC                                   |
| <b>Rated input/output:</b>      | 3,000 Watt / 2,400 Watt                               |
| <b>3 speed transmission:</b>    | 300 - 600 - 1,120 rpm                                 |
| <b>Torque:</b>                  | 95 - 47 - 23 Nm                                       |
| <b>Charging rate:</b>           | 14.9 A  |
| <b>Weight:</b>                  | 9.0 kg  |



**4 x roll guides**  
 Precise and low vibration operation,  
 flexible use / module concept

**Sliding carriage can be used on all RODIACUT® PRO drill stands and columns**  
 Tool-less quick mounting/demounting of drill motor on drill stand

**Rubber transport wheels**  
 Quick and easy transport on the building site

**With integrated vacuum plate / valve and 4 adjustable screws to level out unevenness**  
 High-quality drill base



**Drill angle adjustment**  
 Adjustable from -15° up to +45° in 2.5° steps



**Drill hole centre indicator**  
 Fast alignment of the drill hole centre

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### CHARACTERISTICS 270 PRO C AND 270 PRO D

#### Standard with both drill stands:

- 4x roll guides for precise and low-vibration drilling
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale
- Braced head

### ADDITIONAL CHARACTERISTICS 270 PRO C

- Second handle
- Vacuum plate
- Vacuum valve
- Transport wheels
- Drill hole centre indicator

#### Stainless steel handle

Tool-less quick change for the operating side, sturdy design

#### Feed unit

Universally applicable on RODIACUT® 170 PRO and 400 PRO



Fig. 270 PRO C

Fig. 270 PRO D



Fig. Shows drill stand RODIACUT® 270 Pro C with feed unit RC 400 and drill motor RODIADRILL 3000 PD

Scope of delivery (No. FF34271 / FF34270): drill stand RODIACUT® 270 PRO C or 270 PRO D, drill motor RODIADRILL 2400 PD-E, spanner sizes 19, 24, 36, 41, water supply hose (No. FF35302) complete concrete set (No. FF35120) copper ring 1. 1/4" (No. FF35190) Instruction manuals RODIADRILL 2400 PD-E (No. 90705) instruction manual RODIACUT® 170 - 400 (No. 90726) tool bag (No. FF70001).

| Model                                     | kg   | No.            |
|---|------|----------------|
| RODIACUT® 270 PRO C complete              | 30.8 | <b>FF34271</b> |
| RODIACUT® 270 PRO D complete              | 30.5 | <b>FF34270</b> |
| RODIADRILL 2400 PD-E                      | 10.1 | <b>FF40210</b> |
| Drill stand RODIACUT® 270 PRO C           | 20.7 | <b>FF30271</b> |
| Drill stand RODIACUT® 270 PRO D           | 20.4 | <b>FF30270</b> |
| Drill column 980 mm, Hub 595 mm           | 8.4  | <b>FF50985</b> |
| Drill column 1385 mm, Hub 1000 mm         | 12.5 | <b>FF50988</b> |
| Drill column 1885 mm, Hub 1500 mm         | 16.5 | <b>FF50989</b> |
| Feed unit for RC 270 PRO                  | 3.1  | <b>FF50984</b> |
| Anchor base for RC 270 PRO                | 5.2  | <b>FF50986</b> |
| Combination base for RC 270 PRO           | 7.7  | <b>FF50987</b> |
| Angled support for RC 270 PRO anchor base | 2.8  | <b>FF50990</b> |

### ACCESSORIES



| Description                      | No.     | Description                                 | No.     |
|----------------------------------|---------|---|---------|
| RODIADRILL 3000 PD               | 46, 47  | Vacuum set                                  | 54      |
| Pressurized water container 10 l | 55      | RODIA DRY CLEANER 1200                      | 57      |
| Vacuum pump RODIA-VAC            | 54      | Water collection ring (only in combination) | 56      |
| Distance plate 15 mm             | FF35134 | Extension                                   | 56      |
| Distance plate 20 mm             | FF35139 | Drill bits                                  | 48 - 53 |



# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

### RODIACUT® 400 PRO D

Drilling system with dowel plate,  
drill Ø 32 - 400 (500)\* mm



#### Product Profile

##### APPLICATION AREA

###### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 400 mm  
Stationary dry drilling in masonry Ø 32 - 400 mm

##### KEY FEATURES

- Drill angle adjustments from -15° up to +45°, in 2.5° steps adjustable
- Exchangeable guide rail

##### TECHNICAL DATA (DRILL STANDS)

|                        |  |
|------------------------|--|
| <b>Drilling range:</b> | w/o water collection ring: max. Ø 500 mm<br>optional with distance plate |
| <b>Weight:</b>         | 28.4 kg  |
| <b>Length:</b>         | 460 mm   |
| <b>Width:</b>          | 260 mm   |
| <b>Height:</b>         | 1,100 mm   |
| <b>Hub:</b>            | 680 mm   |

##### TECHNICAL DATA (DRILL MOTOR)

|                                 |   |
|---------------------------------|---|
| <b>Drill motor:</b>             | RODIADRILL 3000 PD                                    |
| <b>Drilling range:</b>          | in concrete max. Ø 500 mm<br>in masonry max. Ø 500 mm |
| <b>Min. distance to wall:</b>   | 50 mm from drill hole centre                          |
| <b>Min. distance to corner:</b> | 50 mm from drill hole centre                          |
| <b>Threaded adaptor:</b>        | R 1/2" + 1.1/4" UNC                                   |
| <b>Rated input/output:</b>      | 4,000 Watt / 3,000 Watt                               |
| <b>3 speed transmission:</b>    | 215 - 430 - 785 rpm                                   |
| <b>Torque:</b>                  | 185 - 107 - 55 Nm                                     |
| <b>Charging rate:</b>           | 20.0 A  |
| <b>Weight:</b>                  | 12.1 kg   |



#### 4 x roll guides

Precise and low vibration operation, flexible use / module concept

#### Sliding carriage can be used on all RODIACUT® PRO drill stands and columns

Tool-less quick mounting/demounting of drill motor on drill stand



#### Distance plates (No. FF35138)

To enlarge the drill hole diameter from Ø 402 to 502 mm with RODIACUT® 400 PRO

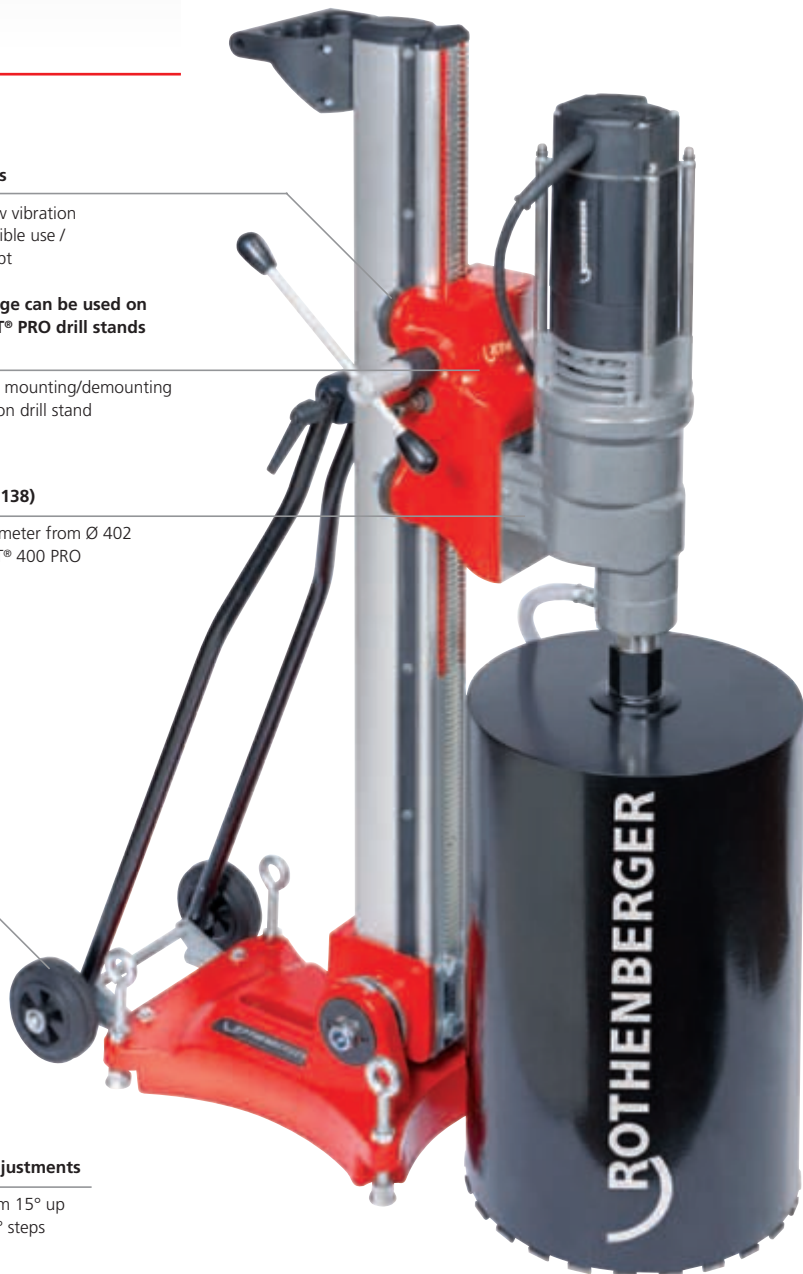
#### Rubber transport wheels

Quick and easy transport on the building site



#### Drill angle adjustments

Adjustable from 15° up to +45° in 2.5° steps



# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Drilling

2



### Characteristics 400 PRO D

#### Standard with both drill stands:

- 4x roll guides for precise and low-vibration drilling
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale
- Braced head

### Combination possibilities of the feed unit RODIACUT® 170 / 270 / 400 PRO

Feed unit can be used on all RODIACUT® PRO drill stands and columns

Tool-less quick mounting/demounting of drill motor on drill stand



#### Gear reduction 1:3

Reduces the contact pressure of the drill bit

#### Stainless steel handle

Tool-less quick change for the operating side, sturdy design



#### Exchangeable guide rail / exchangeable rack / motor mounting

Cost-saving spare parts



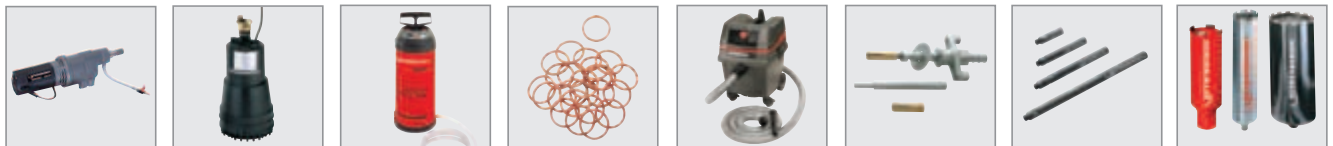
Scope of delivery (No. FF34300): Drill stand RODIACUT® 400 PRO D, drill motor RODIADRILL 3000 PD, spanner size 24 - size 36 - size 41, water supply hose (No. FF35302), hexagonal pin key (No. 321300), concrete set, complete (No. FF35120),

Copper ring 1.1/4" (No. FF35190), Instruction manual RODIADRILL 3000 PD (No. 90725), tool bag (No. FF70001).

| Model                             | kg   | No.            |
|-----------------------------------|------|----------------|
| RODIACUT® 400 PRO D               | 40.5 | <b>FF34300</b> |
| Drill stand RODIACUT® 400 PRO D   | 28.4 | <b>FF30030</b> |
| Drill column 1100 mm, Hub 680 mm  | 11.7 | <b>FF50995</b> |
| Drill column 1420 mm, Hub 1000 mm | 16.1 | <b>FF50996</b> |
| Drill column 1920 mm, Hub 1500 mm | 21.4 | <b>FF50997</b> |

| Description                               | kg   | No.            |
|---|------|----------------|
| Feed unit for RC 400 PRO                  | 5.1  | <b>FF50993</b> |
| Angled support for RC 400 PRO anchor base | 3.2  | <b>FF50998</b> |
| RODIADRILL 3000 PD                        | 12.1 | <b>FF40300</b> |

### Accessories



| Description                      | No.            | Description                       | No.               |
|----------------------------------|----------------|-----------------------------------|-------------------|
| RODIADRILL 2400 PD-E             | 44 - 45        | Distance plate 70 mm              | <b>FF35138</b>    |
| Submergible water pump RODIAPUMP | 55             | RODIA DRY CLEANER 1200            | 57 <b>FF35148</b> |
| Pressurized water container 10 l | 55             | Mounting articles and accessories | 55                |
| Copper ring 1.1/4"               | 55             | Extensions                        | 56                |
| Distance plate 50 mm             | <b>FF35131</b> | Drill bits                        | 48 - 53           |
| Distance plate 60 mm             | <b>FF35136</b> |                                   |                   |

# RODIA® Diamond Core Drilling & Cutting

## RODIA® Diamond Drill Bits

### Space Welding

Cold welding process according to cutting-edge bonding technology: Due to the "neutral zone" the entire diamond segment is used without waste.

#### SPACE WELDING

Wet and dry drilling with new technology:

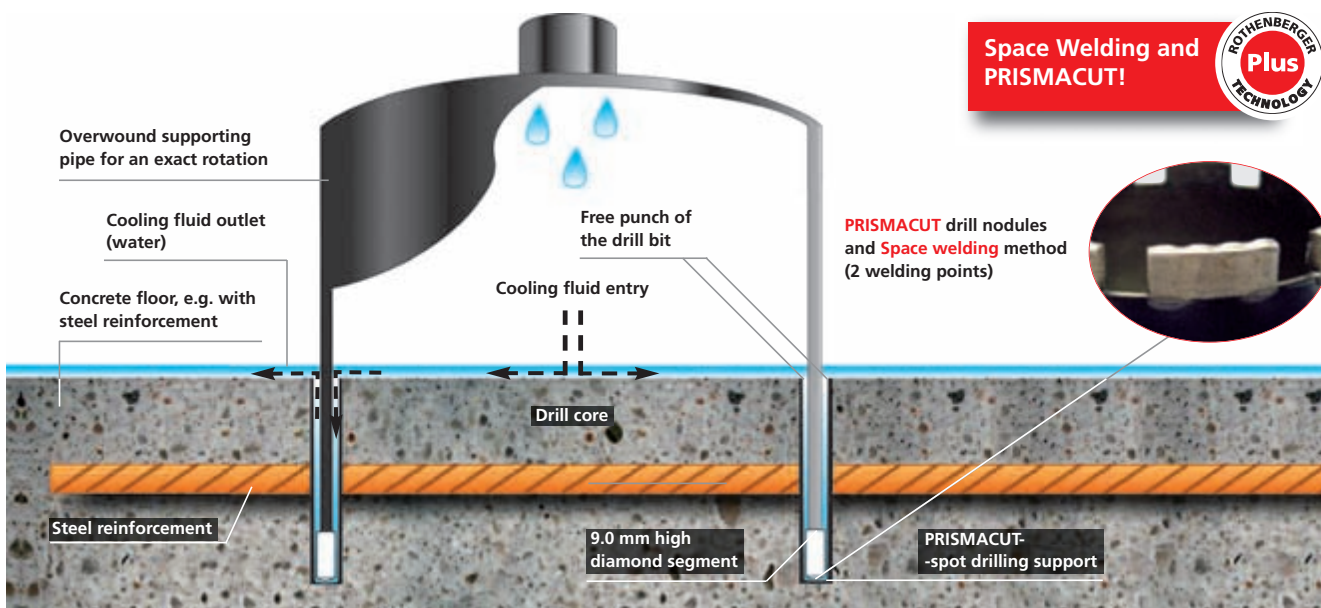
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space Welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20% higher compared to lasered and soldered drill bits

### PRISMACUT

Four drill nodules on the diamond segment improve the drill behaviour and at the same time provides optimum water cooling.

#### PRISMACUT

- The exceptional segment positioning offers optimum free punch size and an excellent cutting speed
- The "PRISMACUT" centre drill nodule is characterised by a better drill behaviour and preservation of the diamond segment
- PRISMACUT guarantees direct water cooling of the diamond segments
- 15% higher cutting speed with steel reinforcement



### Which Drill Bit for Which Material?

| Drill bit type Use                       | Tiles | Granite | Marble | Hollow brickwork | Masonry | Lime sand brick | Asphalt | Reinf. concrete | Segment Fixation |
|--|-------|---------|--------|------------------|---------|-----------------|---------|-----------------|------------------|
| <b>EUROLASER</b>                         |       |         |        | ●●●              | ●●●     | ●●●             |         |                 | laser-welded     |
| <b>High Speed Plus natural stone</b>     | ●●●   | ●●●     | ●●●    | ●●               | ●       | ●               |         | ●●●             | soldering        |
| <b>DX-High Speed Plus + DURAMANT PRO</b> | ●     | ●       | ●      | ●●●              | ●●●     | ●●●             | ●       | ●●●             | cold-welded      |
| <b>SPEED STAR DX</b>                     | ●●    | ●●      | ●●     | ●●●              | ●●●     | ●●●             | ●●      | ●●●             | cold-welded      |

suitable ● very suitable ●● ideally suited ●●●





### EUROLASER

Laser-welded dry cutting drill bit Ø 32 - 202 mm

#### Product Profile

#### APPLICATION AREA

**Special dry cutting drill bit** for drilling in lime sand brick, hollow brickwork, bricks, aerated concrete, masonry from Ø 32 - 202 mm

**Typical areas of application** are HVAC&R, plumbing and electronic installations, old building renovations, oven and fireplace construction, air-conditioning technology, gardening and landscaping

#### KEY FEATURES

- Extremely easy cutting, safe cut in hand-operated use
- Extremely large extraction hole reduces jamming of drill bit
- High drilling speed with less wear

#### KEY FEATURES

- Easy removing of the drill dust using the extraction rotor
- Conventional 1.1/4" UNC thread adaptors
- Use near walls possible, nominal length 150 mm / 300 mm

#### TECHNICAL DATA

##### 1.1/4" UNC connection

| Drill bit      | Segment | Segment dimensions (L x W x H) |
|----------------|---------|--------------------------------|
| Ø 32 - 102 mm  | 3 - 6   | 20 x 4.0 x 8 mm                |
| Ø 112 - 202 mm | 6 - 8   | 20 x 4.0 x 8 mm                |

2



**Nominal length from 80 mm**  
Strong weight reduction, very close work to walls

**Roof-type segments**  
Extremely easy cuts, safe cuts in hand-operation

**Thread connections with 1.1/4" UNC**  
Extremely large extraction hole reduces jamming of drill bit, quick and clean transport of the drill dust using the extraction rotor

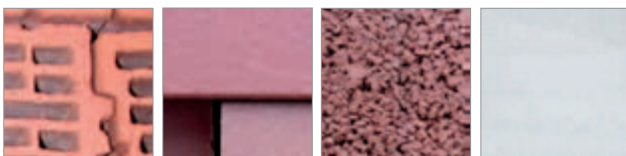
**8 mm high diamond segments**  
High drilling speed, low wear

#### Suitable for



\* optional with extraction rotor

Masonry      Hollow brickwork      Aerated concrete      Lime sand brick



NL 80 mm (M16)  
Drill bit for socket outlet



NL 150 mm



NL 300 mm



NL 300 mm



| Ø mm | M16    |                | 1.1/4" Nominal length |                |
|------|--------|----------------|-----------------------|----------------|
|      | 150 mm | kg             | 300 mm                | 150 mm         |
| 20   |        | 0.6            | <b>FF03329</b>        |                |
| 32   | 0.3    | <b>FF03350</b> | 0.8                   | <b>FF03330</b> |
| 42   | 0.4    | <b>FF03351</b> | 0.9                   | <b>FF03331</b> |
| 52   | 0.6    | <b>FF03352</b> | 1.2                   | <b>FF03332</b> |
| 57   | 0.6    | <b>FF03353</b> | —                     | 0.9            |
| 62   | —      | —              | 1.5                   | <b>FF03333</b> |
| 68   | 0.8    | <b>FF03355</b> | —                     | 1.0            |
| 72   | —      | —              | 1.7                   | <b>FF03334</b> |
| 76   | 0.9    | <b>FF03367</b> | —                     | 1.2            |
| 82   | 1.0    | <b>FF03357</b> | 1.9                   | <b>FF03335</b> |
| 87   | —      | —              | —                     | 1.4            |
| 92   | —      | —              | 2.1                   | <b>FF03336</b> |
| 102  | 1.3    | <b>FF03359</b> | 2.4                   | <b>FF03337</b> |

| Ø mm | M16   |                | 1.1/4" Nominal length |                |
|------|-------|----------------|-----------------------|----------------|
|      | 60 mm | kg             | 300 mm                | 150 mm         |
| 107  | 1.4   | <b>FF03360</b> | —                     | 1.7            |
| 112  | 1.6   | <b>FF03361</b> | 2.7                   | <b>FF03338</b> |
| 117  | —     | —              | —                     | 1.9            |
| 122  | 1.8   | <b>FF03362</b> | 2.9                   | <b>FF03339</b> |
| 127  | 1.9   | <b>FF03363</b> | —                     | 2.1            |
| 132  | 2.0   | <b>FF03364</b> | 3.2                   | <b>FF03340</b> |
| 142  | —     | —              | —                     | 2.4            |
| 152  | 2.4   | <b>FF03365</b> | 3.7                   | <b>FF03341</b> |
| 162  | 2.6   | <b>FF03366</b> | 3.9                   | <b>FF03342</b> |
| 172  | —     | —              | 3.9                   | <b>FF03343</b> |
| 182  | —     | —              | 4.2                   | <b>FF03344</b> |
| 202  | —     | —              | 4.5                   | <b>FF03345</b> |

# RODIA® Diamond Core Drilling & Cutting

## RODIA® Diamond Drill Bits

### High Speed Plus Natural Stone

Soldered diamond core wet cutting drill bit Ø 6 - 68 mm for extremely hard materials

Suitable for all other drilling systems with R 1/2" and 1.1/4"!



2

#### Product Profile

##### APPLICATION AREA

**Special wet drill bits** for drilling in natural stone, granite, marble, (double) baked brick, masonry, (reinforced) concrete, glass or hollow brickwork from Ø 6 - 67 mm

**Typical areas of application** are HVAC&R, plumbing and electronic installations, old building renovations, laying tile, stairs and railing installation, air-conditioning technology, garden and landscaping

##### KEY FEATURES

- Extremely easy cuts, very long service life through 9 mm high segments
- Suitable for all ROTHENBERGER drilling machines
- Balanced rotation reduces wear
- Drilling even through material combinations possible

##### KEY FEATURES

- Drill holes on the seam or edge of material possible with the use of diamond rings
- Conventional R 1/2" threaded attachments

##### TECHNICAL DATA

###### R 1/2" connection

| Drill bits    | Segment       | Segment dimensions (L x W x H) |
|---------------|---------------|--------------------------------|
| Ø 6 - 40 mm   | Ring segments | Ring x (1.15 - 2.0) x 9 mm     |
| Ø 45 - 67 mm* | 4 - 6         | 24 x 2.5 x 8 mm                |

**Effective length:** Ø 6.3 - 10 mm = 50 mm

Ø 12 - 67 mm = 120 mm

Special length of 300 mm available upon request

\*Single segment mounting from Ø 45 mm

9 mm high segments with high diamond concentration

Extremely easy cutting, very long service life in granite tiles



Threaded adaptor R 1/2"

Suitable for all other ROTHENBERGER drilling machines



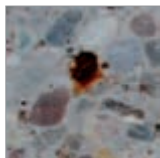
Overwound drill bits

Balanced rotation reduces wear

Drilling of the hardest materials



Reinf. concrete



Marble



Granite



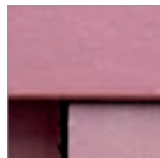
Green granite



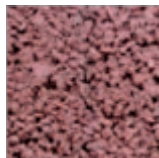
Masonry



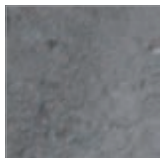
Hollow brickwork



Aerated concrete



Asphalt



Suitable for



Ceramic ECO



Ceramic



1400/1800 DWS\*

| Ø mm | kg   | Adaptor R 1/2" No. |
|------|------|--------------------|
| 6.3  | 0.17 | FF44806            |
| 8.3  | 0.17 | FF44808            |
| 10   | 0.17 | FF44810            |
| 12   | 0.19 | FF44812            |
| 14   | 0.20 | FF44814            |
| 15   | 0.20 | FF44815            |
| 16   | 0.20 | FF44816            |

| Ø mm | kg   | Adaptor R 1/2" No. |
|------|------|--------------------|
| 18   | 0.21 | FF44818            |
| 20   | 0.22 | FF44820            |
| 22   | 0.22 | FF44822            |
| 24   | 0.22 | FF44824            |
| 25   | 0.23 | FF44825            |
| 26   | 0.23 | FF44826            |
| 28   | 0.25 | FF44828            |

| Ø mm | kg   | Adaptor R 1/2" No. |
|------|------|--------------------|
| 30   | 0.25 | FF44830            |
| 32   | 0.25 | FF44832            |
| 35   | 0.30 | FF44835            |
| 36   | 0.32 | FF44836            |
| 38   | 0.34 | FF44838            |
| 40   | 0.34 | FF44840            |
| 42   | 0.35 | FF44842            |

| Ø mm | kg   | Adaptor R 1/2" No. |
|------|------|--------------------|
| 45*  | 0.42 | FF44845            |
| 50*  | 0.60 | FF44850            |
| 55*  | 0.65 | FF44855            |
| 60*  | 0.72 | FF44860            |
| 65*  | 0.76 | FF44865            |
| 67*  | 0.79 | FF44867            |

\* with single segment mounting



### DX-High Speed Plus Universal Drill Bits

Space welding universal wet and dry drill bits  
Ø 10 - 300 mm



#### Product Profile

##### APPLICATION AREA

**Wet and dry drill bits** for drilling in reinforced concrete, asphalt, masonry, as well as lime sand brick for Ø 10 - 300 mm

**Typical areas of application** are HVAC&R and electronic installations, old building renovations, building industry, air-conditioning technology, garden and landscaping

##### KEY FEATURES

- Extremely easy cutting, safe cut in hand-operated use
- Faster cutting progress and extremely long service life
- Suitable for all other ROTHENBERGER drilling machines
- Balanced rotation reduces wear

##### TECHNICAL DATA

**R 1/2" connection** (300 mm effective length)

| Drill bit      | Segment | Segment dimensions (L x W x H) |
|----------------|---------|--------------------------------|
| Ø 10 - 40 mm   | 1       | 19.3 x 2.5 x 9 mm              |
| Ø 42 - 62 mm   | 4 - 6   | 24.0 x 2.5 x 9 mm              |
| Ø 72 - 92 mm   | 7 - 8   | 24.0 x 2.8 x 9 mm              |
| Ø 102 - 132 mm | 7 - 11  | 24.0 x 3.3 x 9 mm              |

**1.1/4" UNC connection** (430 mm effective length)

|                |         |                   |
|----------------|---------|-------------------|
| Ø 20 - 62 mm   | 1 - 6   | 24.0 x 2.5 x 9 mm |
| Ø 72 - 92 mm   | 7 - 8   | 24.0 x 2.8 x 9 mm |
| Ø 102 - 152 mm | 9 - 12  | 24.0 x 3.3 x 9 mm |
| Ø 162 - 182 mm | 12 - 14 | 24.0 x 3.8 x 9 mm |
| Ø 200 - 300 mm | 14 - 20 | 24.0 x 4.0 x 9 mm |

#### Suitable for



\* We recommend the optional extraction rotor when using as a dry drill bit

**Highest service life and universal application!**

#### Threaded adaptor R 1/2" and 1.1/4" UNC

Suitable for all other ROTHENBERGER drilling machines

#### Space welding

Allows wet and dry use

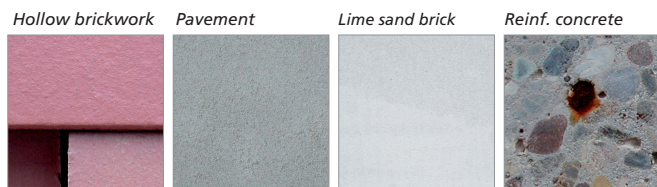
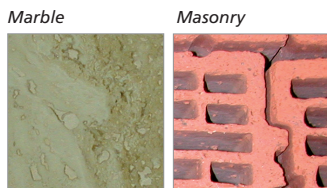
#### Overwound drill bits

Balanced rotation reduces wear

#### Special segment mix

Quicker drilling progress and extremely long service life

Extremely easy cuts, safe cuts in hand operated use



| Ø mm | kg  | Adaptor R 1/2" No. | Ø mm | kg  | Adaptor R 1/2" No. |
|------|-----|--------------------|------|-----|--------------------|
| 20   | 0,5 | FF44620            | 82   | 1,6 | FF44680            |
| 30   | 0,6 | FF44630            | 92   | 1,9 | FF44690            |
| 40   | 0,7 | FF44640            | 102  | 2,1 | FF44700            |
| 52   | 0,9 | FF44650            | 112  | 2,4 | FF44710            |
| 62   | 1,2 | FF44660            | 122  | 2,6 | FF44720            |
| 72   | 1,4 | FF44670            | 132  | 2,9 | FF44730            |

| Ø mm | kg  | Adaptor 1.1/4" No. | Ø mm | kg   | Adaptor 1.1/4" No. |
|------|-----|--------------------|------|------|--------------------|
| 30   | 0,7 | FF44030            | 132  | 4,6  | FF44130            |
| 40   | 1,2 | FF44040            | 142  | 5,0  | FF44140            |
| 52   | 1,6 | FF44050            | 152  | 6,4  | FF44150            |
| 62   | 1,9 | FF44060            | 162  | 7,0  | FF44160            |
| 72   | 2,3 | FF44070            | 172  | 7,5  | FF44170            |
| 82   | 2,6 | FF44080            | 182  | 8,0  | FF44180            |
| 92   | 3,0 | FF44090            | 200  | 9,0  | FF44200            |
| 102  | 3,4 | FF44100            | 220  | 11,4 | FF44220            |
| 112  | 3,8 | FF44110            | 250  | 13,6 | FF44250            |
| 122  | 4,2 | FF44120            | 300  | 19,3 | FF44300            |

Suitable for all other drilling systems with R 1/2" and 1.1/4"!



# RODIA® Diamond Core Drilling & Cutting

## RODIA® Diamond Drill Bits

### SPEED STAR DX

Space welding wet and dry drill bits Ø 10 - 500 mm

Space Welding and PRISMACUT!



2

#### Product Profile

#### APPLICATION AREA

**Wet and dry drill bits** Wet and dry drill bits asphalt, masonry, as well as natural and artificial stone of Ø 10 - 500 mm

**Typical areas of application** are HVAC&R, plumbing, old building renovations, building industry, air-conditioning technology, gardening and landscaping

#### KEY FEATURES

- Extremely easy cuts, safe cut in hand-operated use
- Balanced rotation reduces wear
- Suitable for all other ROTHENBERGER drilling machines
- Standard lengths 400 / 500 mm, special lengths available on request
- Conventional R 1/2" and 1.1/4" UNC threaded adaptors

#### TECHNICAL DATA

| Drill bits     | Segment | Segment dimensions (L x W x H) |
|----------------|---------|--------------------------------|
| Ø 10 - 38 mm   | 1       | 16 x 3.0 x 7.0 mm              |
| Ø 40 - 48 mm   | 1 - 4   | 24 x 3.0 x 9.0 mm              |
| Ø 50 - 55 mm   | 5 - 6   | 24 x 3.5 x 9.0 mm              |
| Ø 56 - 72 mm   | 6 - 7   | 24 x 3.5 x 9.0 mm              |
| Ø 75 - 102 mm  | 7 - 8   | 24 x 3.5 x 9.0 mm              |
| Ø 107 - 142 mm | 9 - 11  | 24 x 4.0 x 9.0 mm              |
| Ø 142 - 182 mm | 11 - 14 | 24 x 4.0 x 9.0 mm              |
| Ø 182 - 250 mm | 14 - 16 | 24 x 4.0 x 9.0 mm              |
| Ø 300 - 500 mm | 16 - 26 | 20 x 5.0 x 9.0 mm              |

**Connection R 1/2":** Effective length 400 mm  
**Connection 1.1/4" UNC:** Effective length 500 mm

Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in hand-operated use

Extremely high diamond concentration

Faster drilling progress

Suitable for



Special drill bits for pavement, asphalt, as well as special lengths up to 1000 mm available upon request!

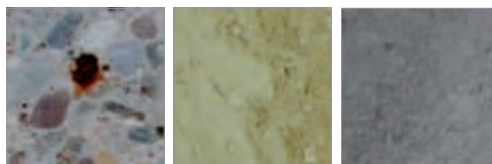
\* We recommend the optional extraction rotor when using as a dry drill bit



Threaded adaptor R 1/2" and 1.1/4" UNC

Suitable for all other ROTHENBERGER drilling machines

Reinf. concrete Marble Asphalt



Overwound drill bits

Balanced rotation reduces wear

| Ø mm | kg  | Adaptor R1/2" No. | Ø mm | kg  | Adaptor R1/2" No. | Ø mm | kg  | Adaptor 1.1/4" No. | Ø mm | kg   | Adaptor 1.1/4" No. |
|------|-----|-------------------|------|-----|-------------------|------|-----|--------------------|------|------|--------------------|
| 10   | 0.3 | FF00610           | 52   | 0.9 | FF00650           | 20   | 0.5 | FF00020            | 122  | 4.2  | FF00120            |
| 12   | 0.4 | FF00612           | 56   | 1.2 | FF00655           | 25   | 0.6 | FF00025            | 125  | 4.3  | FF00125            |
| 14   | 0.4 | FF00614           | 62   | 1.2 | FF00660           | 30   | 0.7 | FF00030            | 132  | 4.6  | FF00130            |
| 15   | 0.4 | FF00615           | 66   | 1.3 | FF00665           | 35   | 0.8 | FF00035            | 142  | 5.0  | FF00140            |
| 16   | 0.4 | FF00616           | 72   | 1.4 | FF00670           | 40   | 1.2 | FF00040            | 152  | 6.4  | FF00150            |
| 18   | 0.4 | FF00618           | 76   | 1.5 | FF00675           | 46   | 1.4 | FF00045            | 162  | 7.0  | FF00160            |
| 20   | 0.5 | FF00620           | 82   | 1.6 | FF00680           | 52   | 1.6 | FF00050            | 172  | 7.5  | FF00170            |
| 22   | 0.5 | FF00622           | 87   | 1.7 | FF00685           | 56   | 1.7 | FF00055            | 182  | 8.0  | FF00180            |
| 24   | 0.5 | FF00624           | 92   | 1.9 | FF00690           | 62   | 1.9 | FF00060            | 200  | 9.0  | FF00200            |
| 25   | 0.5 | FF00625           | 95   | 2.0 | FF00695           | 66   | 2.1 | FF00065            | 220  | 11.4 | FF00220            |
| 26   | 0.5 | FF00626           | 102  | 2.1 | FF00700           | 72   | 2.3 | FF00070            | 250  | 13.6 | FF00250            |
| 28   | 0.6 | FF00628           | 108  | 2.3 | FF00705           | 76   | 2.4 | FF00075            | 280  | 17.6 | FF00280            |
| 30   | 0.6 | FF00630           | 112  | 2.4 | FF00710           | 82   | 2.6 | FF00080            | 300  | 19.3 | FF00300            |
| 32   | 0.6 | FF00632           | 117  | 2.5 | FF00715           | 87   | 2.8 | FF00085            | 350  | 23.6 | FF00350            |
| 35   | 0.7 | FF00635           | 122  | 2.6 | FF00720           | 92   | 3.0 | FF00090            | 400  | 28.4 | FF00400            |
| 38   | 0.7 | FF00638           | 127  | 2.8 | FF00725           | 102  | 3.4 | FF00100            | 450  | 33.6 | FF00450            |
| 40   | 0.7 | FF00640           | 132  | 2.9 | FF00730           | 108  | 3.6 | FF00105            | 500  | 39.1 | FF00500            |
| 46   | 0.7 | FF00645           |      |     |                   | 112  | 3.8 | FF00110            |      |      |                    |

Suitable for all other drilling systems with R 1/2" and 1.1/4"!

### DURAMANT PRO Universal Drill Bits

Space welding wet and dry drill bits  
Ø 10 - 500 mm

Space Welding and  
PRISMACUT!



#### Product Profile

##### APPLICATION AREA

**Wet drill bits** for drilling in reinforced-concrete asphalt, as well as natural and artificial stone from Ø 10 - 500 mm  
**Dry drill bits** for drilling in masonry, lime sand brick, poroton and other light building materials from Ø 32 -500 mm

##### KEY FEATURES

- Enables wet and dry use
- Extremely easy cutting, safe cut in hand-operated use
- Faster drilling progress and longer service life
- Suitable for all other ROTHENBERGER drilling machines
- Balanced rotation reduces wear
- Standard lengths 400 mm with R 1/2" and 500 mm with 1.1/4" UNC
- Conventional R 1/2" and 1.1/4" UNC threaded adaptors

##### TECHNICAL DATA

| Drill bit      | Segment | Segment dimensions (L x W x H) |
|----------------|---------|--------------------------------|
| Ø 10 - 38 mm   | 1       | 16 x 3.0 x 7.0 mm              |
| Ø 40 - 48 mm   | 1 - 4   | 24 x 3.0 x 9.0 mm              |
| Ø 50 - 55 mm   | 5 - 6   | 24 x 3.5 x 9.0 mm              |
| Ø 56 - 72 mm   | 6 - 7   | 24 x 3.5 x 9.0 mm              |
| Ø 75 - 102 mm  | 7 - 9   | 24 x 3.5 x 9.0 mm              |
| Ø 107 - 142 mm | 9 - 11  | 24 x 4.0 x 9.0 mm              |
| Ø 142 - 182 mm | 11 - 14 | 24 x 4.0 x 9.0 mm              |
| Ø 182 - 250 mm | 14 - 16 | 24 x 4.0 x 9.0 mm              |
| Ø 300 - 500 mm | 16 - 28 | 20 x 5.0 x 9.0 mm              |

#### Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in hand-operated use



#### Suitable for



1400/1800 DWS\*



1800 DRY



2400 PD-E\*



3000 PD\*

#### Threaded adaptor R 1/2" and 1.1/4" UNC

Suitable for all other ROTHENBERGER drilling machines

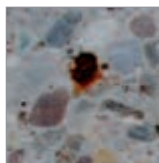
#### DURAMANT PRO segments

Allows wet and dry use

#### Overwound drill bits

Balanced rotation reduces wear

Hollow brickwork   Pavement   Lime sand brick   Reinf. concrete   Marble   Masonry



#### Special segment composition

Faster drilling progress and extremely long service life

| Ø mm | kg  | Adaptor R 1/2" No. | Ø mm | kg  | Adaptor R 1/2" No. | Ø mm | kg  | Adaptor 1.1/4" No. | Ø mm | kg   | Adaptor 1.1/4" No. |
|------|-----|--------------------|------|-----|--------------------|------|-----|--------------------|------|------|--------------------|
| 10   | 0.3 | FF42610            | 46   | 0.8 | FF42645            | 20   | 0.5 | FF42020            | 122  | 4.2  | FF42120            |
| 12   | 0.4 | FF42612            | 52   | 0.9 | FF42650            | 25   | 0.6 | FF42025            | 125  | 4.3  | FF42125            |
| 14   | 0.4 | FF42614            | 56   | 1.2 | FF42655            | 30   | 0.7 | FF42030            | 132  | 4.6  | FF42130            |
| 15   | 0.4 | FF42615            | 62   | 1.2 | FF42660            | 35   | 0.8 | FF42035            | 142  | 5.0  | FF42140            |
| 16   | 0.4 | FF42616            | 66   | 1.3 | FF42665            | 40   | 1.2 | FF42040            | 152  | 6.4  | FF42150            |
| 18   | 0.4 | FF42618            | 72   | 1.4 | FF42670            | 46   | 1.4 | FF42045            | 162  | 7.0  | FF42160            |
| 20   | 0.5 | FF42620            | 76   | 1.5 | FF42675            | 52   | 1.6 | FF42050            | 172  | 7.5  | FF42170            |
| 22   | 0.5 | FF42622            | 82   | 1.6 | FF42680            | 56   | 1.7 | FF42055            | 182  | 8.0  | FF42180            |
| 24   | 0.5 | FF42624            | 87   | 1.7 | FF42685            | 62   | 1.9 | FF42060            | 200  | 9.0  | FF42200            |
| 25   | 0.5 | FF42625            | 92   | 1.9 | FF42690            | 66   | 2.1 | FF42065            | 220  | 11.4 | FF42220            |
| 26   | 0.5 | FF42626            | 95   | 2.0 | FF42695            | 72   | 2.3 | FF42070            | 225  | 12.5 | FF42225            |
| 28   | 0.6 | FF42628            | 102  | 2.1 | FF42700            | 76   | 2.4 | FF42075            | 250  | 13.6 | FF42250            |
| 30   | 0.6 | FF42630            | 108  | 2.3 | FF42705            | 82   | 2.6 | FF42080            | 280  | 17.6 | FF42280            |
| 32   | 0.6 | FF42632            | 112  | 2.4 | FF42710            | 87   | 2.8 | FF42085            | 300  | 19.3 | FF42300            |
| 35   | 0.7 | FF42635            | 117  | 2.5 | FF42715            | 92   | 3.0 | FF42090            | 350  | 23.6 | FF42350            |
| 38   | 0.7 | FF42638            | 122  | 2.6 | FF42720            | 102  | 3.4 | FF42100            | 400  | 28.4 | FF42400            |
| 40   | 0.7 | FF42640            | 127  | 2.8 | FF42725            | 108  | 3.6 | FF42105            | 450  | 33.6 | FF42450            |
|      |     |                    | 132  | 2.9 | FF42730            | 112  | 3.8 | FF42110            | 500  | 39.1 | FF42500            |

\* compared to lasered and soldered drill bits

Suitable for all other drilling systems with R 1/2" and 1.1/4"!

# RODIA® Diamond Core Drilling & Cutting

## Accessories Hand-Operated & Stationary Drilling

### Galvano Drill Bit Set

For drilling stoneware tiles Ø 6 - 83 mm

A cost-effective alternative for drilling in stoneware tiles. With the help of a drilling fixture, drillings can be purposely and accurately positioned. Optimum drilling results are achieved when used with the water flow socket included in the set

#### KEY FEATURES

- Drill and centering aid up to Ø 43 mm
- Water flow socket with 3 edge adaptor
- Galvano drill with 3 edged shaft

Set (No. 19320) includes: Galvano drill (6 - 8 - 10 - 12 mm), centre drill support, water connection, plastic case

Centre drill support with suction cup

Variable adjustment of the drill dimensions up to Ø 43 mm

Water connection

Using quick hose system in R 1/2"



Galvano drill

Ø 6 - 8 - 10 - 12 mm



| Description           |              | No.            |
|-----------------------|--------------|----------------|
| Galvano Drill Bit Set | 6-8-10-12 mm | <b>19320</b>   |
| Galvano Drill         | 6 mm         | <b>FF44906</b> |
| Galvano Drill         | 8 mm         | <b>FF44908</b> |
| Galvano Drill         | 10 mm        | <b>FF44910</b> |
| Galvano Drill         | 12 mm        | <b>FF44912</b> |
| Galvano Drill         | 14 mm        | <b>FF44914</b> |
| Galvano Drill         | 16 mm        | <b>FF44916</b> |
| Galvano Drill         | 18 mm        | <b>FF44918</b> |
| Galvano Drill         | 20 mm        | <b>FF44920</b> |
| Galvano Drill         | 22 mm        | <b>FF44922</b> |

| Description                       |       | No.            |
|-----------------------------------|-------|----------------|
| Galvano Drill                     | 25 mm | <b>FF44925</b> |
| Galvano Drill                     | 32 mm | <b>FF44932</b> |
| Galvano Drill                     | 38 mm | <b>FF44938</b> |
| Galvano Drill                     | 43 mm | <b>FF44943</b> |
| Galvano Drill                     | 67 mm | <b>FF44967</b> |
| Galvano Drill                     | 75 mm | <b>FF44975</b> |
| Galvano Drill                     | 83 mm | <b>FF44983</b> |
| Centre drill support up to        | 43 mm | <b>FF35749</b> |
| Centre drill support up to        | 83 mm | <b>FF35750</b> |
| Water flow socket (12 mm adaptor) |       | <b>FF35748</b> |

### Vacuum Pump RODIA-VAC

This vacuum pump is suitable for all diamond core drilling units. An extraction tank prevents the vacuum plate from loosening quickly during a sudden power failure. Oil-free vacuum pump with pressure gauge.

#### Vacuum Sets



No. FF35710  
No. FF35740

### Quick Clamping Column

Tool-less and reliable bracing between floor and wall or wall and wall. Maximum operation range from 1.7 m up to 3.0 with a load capacity up to 500 kg with sideways guidance.

| Description                              |      | No.            |
|--|------|----------------|
| Quick Clamping Column                    | 9.0  | <b>FF35015</b> |
| Vacuum pump RODIA-VAC 230 V              | 20.0 | <b>FF35200</b> |
| Vacuum set, RODIACUT® 130, 131 DWS, 170C | 1.1  | <b>FF35710</b> |
| Spare foamed rubber for drill base       | 0.1  | <b>FF50007</b> |
| Vacuum set RODIACUT® 202 DWS, 270C       | 1.1  | <b>FF35740</b> |
| Spare foamed rubber for drill base       | 0.1  | <b>FF50008</b> |
| Sharpening stick (286 x 152 x 40 mm)     | 1.8  | <b>FF35135</b> |

1.1 KW motor power  
85% Vacuum  
200 l/min extraction volume

10 l extraction tank

Safety during a power failure



No. FF35015



No. FF35135



# RODIA® Diamond Core Drilling & Cutting

## Accessories Hand-Operated & Stationary Drilling



### Concrete Fixing Set

Includes (No. FF35120): Knurled thread rod Type G-B 160 mm, screw thread M 12/20 mm (No. FF35129), U-washer (No. FF70166), winged nut M 12 (No. FF55150), 25 x drive-in anchor M 12 (No. FF 35122) and drive-in iron (No. FF35128)

### Masonry Fixing Set

Includes (No. FF35121): Knurled thread rod Type G-M 280 mm, screw thread M 12/85 mm (No. FF35130), U-washer (No. FF70166), winged nut M 12 (No. FF55150), hexagonal nut M12 (No. FF70167), 5 x rawl anchor M 12 (re-usable) (No. FF35126) and drive-in iron (No. FF35128)

### Special Diamond Drills for Tiles and Natural Stone

For use when hammer drills can't do the job. Various material combinations, such as tiles on concrete, can be easily drilled without damage



Special Diamond Drills

for Tiles and Natural Stone

| Description                         | kg   | No.            |
|-------------------------------------|------|----------------|
| Concrete fixing set                 | 1.90 | <b>FF35120</b> |
| Thread rod, U washer, nut           | 0.60 | <b>FF35123</b> |
| Drive-in anchor M12                 | 0.04 | <b>FF35122</b> |
| Threaded rod, B15 concrete set      | 0.20 | <b>FF35129</b> |
| Threaded rod, B15 masonry           | 0.30 | <b>FF35130</b> |
| Wet drill bit Ø 15 mm               | 0.20 | <b>FF44815</b> |
| SDS-plus hammer drill Ø 15 - 160 mm | 0.16 | <b>111429</b>  |
| Masonry fixing set                  | 1.10 | <b>FF35121</b> |
| Thread rod, U washer, nut           | 0.70 | <b>FF35124</b> |
| Rawl anchor M 12                    | 0.08 | <b>FF35126</b> |
| Wet drill bit Ø 20 mm               | 0.22 | <b>FF44820</b> |
| SDS-plus hammer drill Ø 20 - 300 mm | 0.22 | <b>111449</b>  |

### Copper Rings 1.1/4"

#### KEY FEATURES

- Levels out the unevenness between motor connection and drill bit
- Easy loosening prevents drill bits from getting stuck on the driveshaft



| Description        | g | No.            |
|--------------------|---|----------------|
| Copper Ring 1.1/4" | 5 | <b>FF35190</b> |

### Thread Interfaces

Between motor connection and drill bit



No. FF35095



No. FF35080



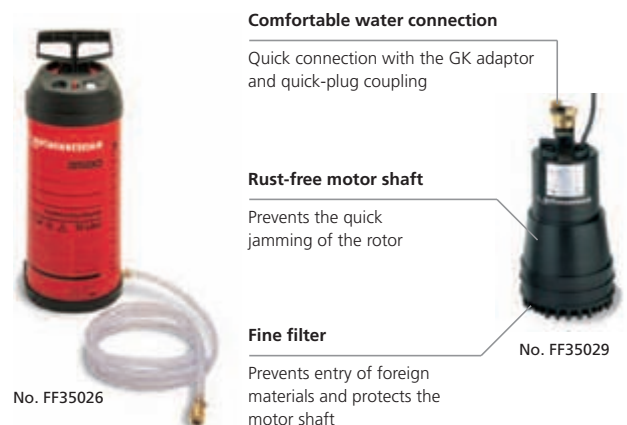
No. FF35091

| Description                                    | g   | No.            |
|--|-----|----------------|
| R 1/2" ext. thread onto 1.1/4" UNC ext. thread | 500 | <b>FF35080</b> |
| 1.1/4" UNC int. thread onto R 1/2" int. thread | 700 | <b>FF35095</b> |
| Drill bit adaptor 1.1/4" onto R1/2"            | 510 | <b>FF35091</b> |
| Drill bit adaptor 1.1/4" onto DD-B             | 800 | <b>FF35092</b> |
| Drill bit adaptor WÜRTH onto 1.1/4"            | 600 | <b>FF35101</b> |

### Water Supply

The sturdy 10 litre pressurized water container made of aluminium is perfectly suited for individual drilling. When drilling large diameters or series drillings, the fully submersible RODIAPUMP enables a mobile supply of water from buckets or other containers up to a delivery height of 5 meters using a 1" water hose

| Description                        | kg   | No.            |
|------------------------------------|------|----------------|
| Pressurized water container        | 5.50 | <b>FF35026</b> |
| Submersible water pump RODIAPUMP   | 4.40 | <b>FF35029</b> |
| Special water supply hose          | 0.20 | <b>FF35301</b> |
| Water supply hose with "Aqua-stop" | 0.20 | <b>FF35302</b> |



#### Comfortable water connection

Quick connection with the GK adaptor and quick-plug coupling

#### Rust-free motor shaft

Prevents the quick jamming of the rotor

#### Fine filter

Prevents entry of foreign materials and protects the motor shaft

No. FF35029

# RODIA® Diamond Core Drilling & Cutting

## Accessories Hand-Operated & Stationary Drilling

2



No. FF35730  
Only for RODIACUT®  
202 and 270 PRO C



No. FF35700



No. FF35701  
Only for the RODIACUT® 130,  
131 DWS and 170 PRO C

### Water Extraction Systems

The dirty cooling water is extracted in connection with a wet and dry vacuum (FF35148, FF35210)

| Description  | kg  | No.            |
|--|-----|----------------|
| Water collection ring, stationary (up to Ø 130 mm) | 1.2 | <b>FF35700</b> |
| Spare rubber membrane (for FF35700)                | 0.3 | <b>FF55131</b> |
| Water collect. ring, hand-opd. (up to Ø 130 mm)    | 0.8 | <b>FF35701</b> |
| Spare water collection ring discs (for FF35701)    | 0.2 | <b>FF35702</b> |
| Adaptor for vacuum (FF35700)                       | 0.1 | <b>FF35703</b> |
| Water collection ring, stationary (up to Ø 200 mm) | 2.5 | <b>FF35730</b> |
| Spare rubber membrane (for FF35730)                | 0.6 | <b>FF55201</b> |



Extension rods R 1/2"



Extension rods  
1.1/4" UNC

### Extensions

#### R 1/2" and 1.1/4" UNC

##### KEY FEATURES

- Easy extension of the drilling depth
- High-quality and robust steel design

| Nominal length<br>mm | kg   | R 1/2"<br>No.  | kg   | 1.1/4" UNC<br>No. |
|----------------------|------|----------------|------|-------------------|
| 100                  | 0.40 | <b>FF35040</b> | 1.00 | <b>FF35060</b>    |
| 200                  | 0.90 | <b>FF35045</b> | 2.00 | <b>FF35065</b>    |
| 300                  | 1.40 | <b>FF35050</b> | 3.00 | <b>FF35070</b>    |
| 500                  | 2.40 | <b>FF35055</b> | 5.10 | <b>FF35075</b>    |



No. FF03301



No. FF35097

No. FF35096



No. FF40056



### Centering Pin

#### From 90 up to 400 mm

Universal drilling assistance for hand-operated drilling moveable carbide centering tip, quick and tool-less assembly / disassembly.

### Extraction Rotor "RODIADUST"

#### Universal adaptor for wet drilling machines for dust-free dry drilling

Provides optimum extraction results in conjunction with RODIA DRY CLEANER (FF35148) and increases the drilling process, prevents jamming of drill bit and reduces segment wear.

### Support Plates for Centering Pin

#### From Ø 31 mm up to Ø 201 mm

Suitable for FF03300, FF03301, FF03302, FF03303 support plates in connection with centering pin allows a precise drill hole exactly where it is needed.

- Secure hold, drill bit will not slip on the subsurface
- Fast and tool-less assembly / disassembly without the need for screws

| Description                                 | g     | No.            |
|---|-------|----------------|
| Extraction Rotor 1.1/4" UNC                 | 1,000 | <b>FF40056</b> |
| Extraction Rotor M 30 x 2                   | 1,000 | <b>FF40057</b> |
| Centering Pin for extraction rotor 300 mm   | 330   | <b>FF03300</b> |
| Centering Pin for extraction rotor 400 mm   | 330   | <b>FF03301</b> |
| Mounting shaft for centering drill (6-edge) | 200   | <b>FF03091</b> |
| Mounting shaft for centering drill (SDS)    | 200   | <b>FF03092</b> |
| Adaptor for RODIADRILL 1800 DWS/DRY         | 100   | <b>FF35097</b> |
| Centering tip "Quick-Out" ICW. FF35097      | 100   | <b>FF35096</b> |

| Ø mm | g  | No.            | Ø mm | g   | No.            |
|------|----|----------------|------|-----|----------------|
| 31   | 5  | <b>FF03308</b> | 111  | 50  | <b>FF03316</b> |
| 41   | 8  | <b>FF03309</b> | 121  | 55  | <b>FF03317</b> |
| 51   | 10 | <b>FF03310</b> | 131  | 58  | <b>FF03318</b> |
| 61   | 13 | <b>FF03311</b> | 151  | 77  | <b>FF03319</b> |
| 71   | 17 | <b>FF03312</b> | 161  | 80  | <b>FF03320</b> |
| 81   | 18 | <b>FF03313</b> | 171  | 85  | <b>FF03321</b> |
| 91   | 22 | <b>FF03314</b> | 181  | 100 | <b>FF03322</b> |
| 101  | 44 | <b>FF03315</b> | 201  | 120 | <b>FF03323</b> |

# RODIA® Diamond Core Drilling & Cutting Extraction Systems

## RODIA DRY CLEANER 1200

### Wet and dry extraction unit

Especially good performance when used with WALL CUT 6540, RODIADRILL 1800 DRY or other ROTHENBERGER extraction-friendly system products

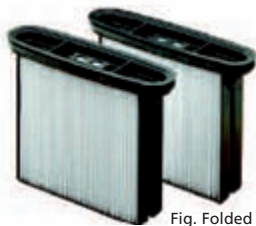


Fig. Folded filter  
No. FF55374

| Model                                   | kg   | No.            |
|---|------|----------------|
| RODIA DRY CLEANER 1200                  | 10.8 | <b>FF35148</b> |
| Folded filter (2 piece) for wet suction | 1.0  | <b>FF55374</b> |
| Paper filter (5 piece) for dry suction  | 0.3  | <b>FF55388</b> |

Constant extraction power!  
Automatic filter-cleaning function!

### High cleaning efficiency

2 polyester-filter cassettes with 99.9% dust retention (max. 20 l), water retention of 15 litres



### Separate automatic outlet

Adaptor for further electric tools

### User comfort with a wide operating range

5 m long suction hose and 8 m long AC power cord

## RODIA CLEANER 1400

### Water suction unit

#### KEY FEATURES

- Easy-to-handle and powerful 1400 watt water extraction unit
- 35 litre container made of zinc-plated steel plate with acrylate coating: Rust-free
- Separate automatic outlet connection for an additional electrical tools



Set (No. FF35210) includes various extraction tubes and extraction nozzles. Wet-suction is possible when used with the cartridge filter system. When used with a cloth filter, dry suction possible. Suitable for use with our core drilling systems.

| Model                  | kg  | No.            |
|------------------------|-----|----------------|
| RODIA CLEANER 1400     | 9.0 | <b>FF35210</b> |
| Cartridge filter       | 1.0 | <b>FF55447</b> |
| Paper filter (5 piece) | 1.0 | <b>FF55448</b> |

### Separate automatic outlet

Connection for additional electrical tools



### Light and easy-to handle

Impact protective ring at base with 4 double roller wheels, 9 kg weight



# RODIA® Diamond Core Drilling & Cutting

## Cutting

### Wall Slot Cutter WALL CUT 6540

Wall slot cutter for precise slots for the laying of pipes, cable ducts and electronic lines slot width: 5 - 40 mm, cutting depth: 20 - 65 mm



2



#### Product Profile

##### APPLICATION AREA

For use in the HVAC&R, plumbing and electrical industries, in enclosed rooms or in inhabited buildings where jolt and dust-free operation is required. Especially suitable for concrete, masonry, lime sand brick and brickwork

##### KEY FEATURES

- Effort-saving operation with the downward pulling cut
- Precise guidance and easy feed movements without much effort
- Faster cut-off wheel change with locking spindle
- Holding and transport handle can be adjusted to various positions
- Dust extraction guarantees visibility for direct, accurate cutting and safe operation
- Optimum adjustment for all working positions
- Latch prevents unintentional start

##### TECHNICAL DATA

|                            |              |
|----------------------------|--------------|
| <b>Voltage:</b>            | 230 V        |
| <b>Rated input:</b>        | 2,500 W      |
| <b>Charging rate:</b>      | 11 A         |
| <b>Idle speed:</b>         | 6,600 U/min. |
| <b>Saw blade holder:</b>   | Ø 230 mm     |
| <b>Max. Cutting depth:</b> | 65 mm        |
| <b>Max. Slot width:</b>    | 40 mm        |
| <b>Weight:</b>             | 9.0 kg       |
| <b>Slot width:</b>         | 5 - 40 mm    |
| <b>Cutting depth:</b>      | 20 - 65 mm   |



Scope of delivery (No. FF40040): Wall slot cutter WALL CUT 6540 with 2 saw blades Ø 230 mm (No. FF11230), chisel (No. 77151), pin type face wrench (No. FF70088), transport case (No. FF60101)

| Description         | kg  | No.            |
|---------------------|-----|----------------|
| WALL CUT 6540 - Set | 9.0 | <b>FF40040</b> |

Effort-saving operation with the downward pulling cut



#### ACCESSORIES



| Description                            | kg        | No.                 |
|--|-----------|---------------------|
| Cut-off discs                          | <b>59</b> |                     |
| Fine dry vacuum RODIA DRY Cleaner 1200 | <b>57</b> | 10.8 <b>FF35148</b> |
| Clamping set, complete                 | 0.6       | <b>FF53505</b>      |
| Transport case WALL CUT 6540           | 10.0      | <b>FF60101</b>      |

### Universal Premium / Ceramic

Professional diamond cutting discs Ø 115 - 350 mm



#### Product Profile

##### APPLICATION AREA

**Diamond cutting discs Universal Premium are suitable for:**  
General building materials, old concrete, concrete, reinforced concrete, roofing tile, concrete pipes, compressed sand-lime brick, porcelain, manufactured concrete, aggregate concrete and clay bricks

**Diamond cutting discs Ceramic are suitable for:**  
Tiles, ceramic, marble, granite, porcelain stoneware, natural and artificial stones, hard brick and porphyry

##### TECHNICAL DATA

| Diamond cutting discs: |            |                |
|------------------------|------------|----------------|
| Universal Premium      | Drill hole | Segment height |
| Ø 115 mm               | 22.23      | 10 mm          |
| Ø 125 mm               | 22.23      | 10 mm          |
| Ø 230 mm               | 22.23      | 10 mm          |
| Ø 350 mm               | 25.40      | 10 mm          |
| Ceramic                | Drill hole | Segment height |
| Ø 115 mm               | 22.23      | 8 mm           |
| Ø 125 mm               | 22.23      | 8 mm           |
| Ø 230 mm               | 22.23      | 10 mm          |

High performance universal disc

For dry and wet cutting

Laser welded segment connections

High service life and stability



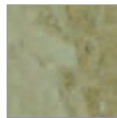



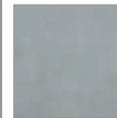
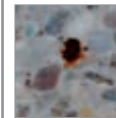


Special cooling hole drilling

Prevents high temperatures on the diamond segments

10 mm segments

High variety of cuts

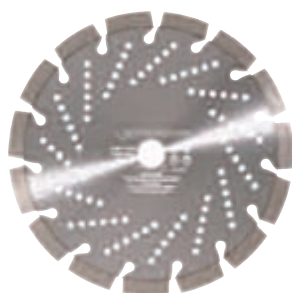
| Diamond cutting discs | Tiles   | Granite   | Marble  | Hollow Brickwork  | Masonry  | Lime sand brick   | Concrete  | Reinforced concrete   |
|-----------------------|---|---|---|---|--|---|---|---|
| Universal Premium     |  |  |  |  |  |  |  |  |
| Ceramic               | ●●●   | ●●●   | ●●●   | ●●  | ●●●  | ●●●   | ●●●   | ●●  |

suitable ●●● ideally suited ●●●●

### Universal Premium

| Ø mm | kg   | No.        |
|------|------|------------|
| 115  | 0.30 | 1500000247 |
| 125  | 0.40 | 1500000248 |
| 230  | 0.70 | 1500000249 |
| 350  | 1.90 | 1500000250 |

Further diameters and disc types available upon request!



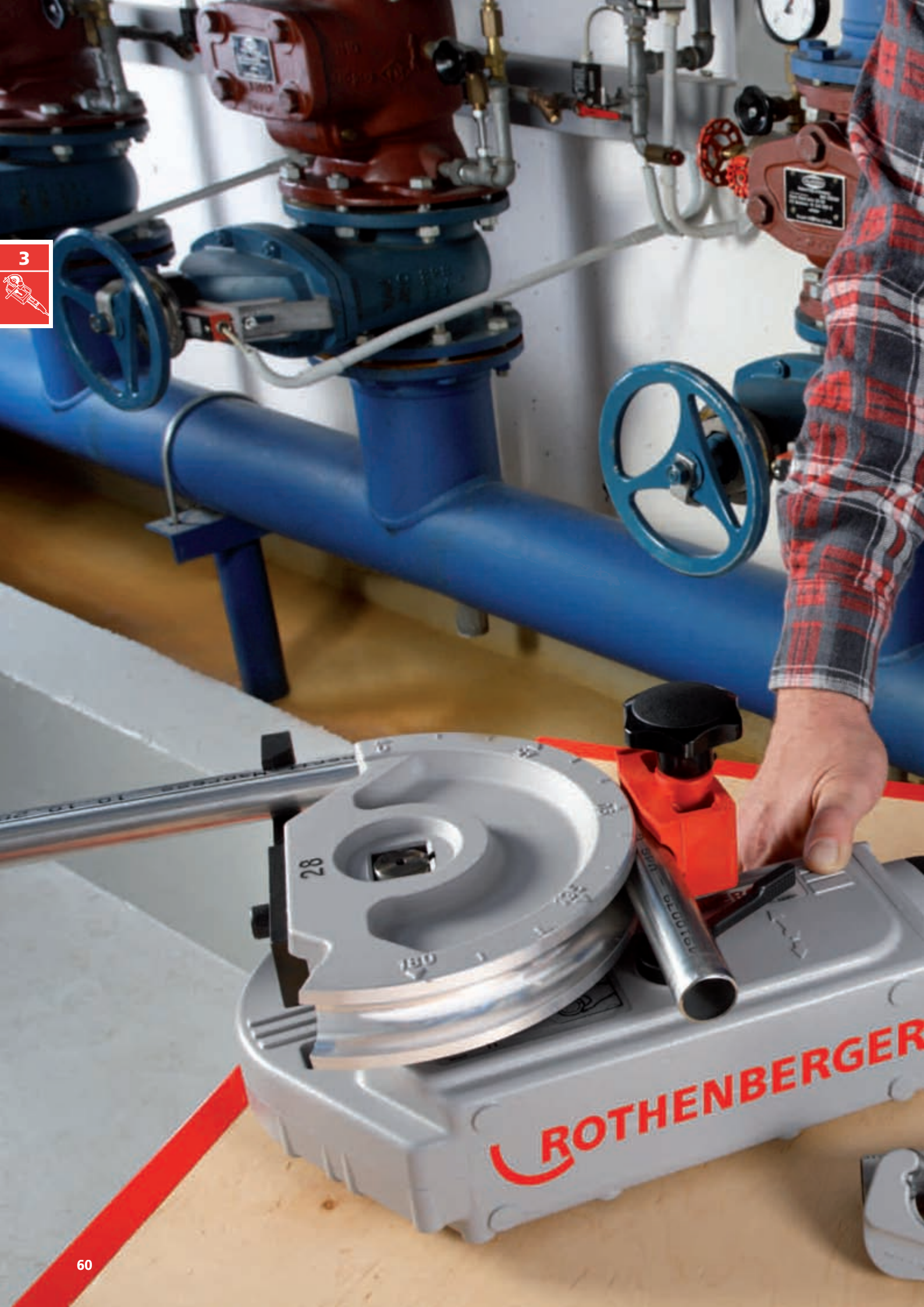
### Ceramic

| Ø mm | kg   | No.        |
|------|------|------------|
| 115  | 0.30 | 1500000251 |
| 125  | 0.40 | 1500000252 |
| 230  | 0.70 | 1500000253 |

Further diameters and disc types available upon request!







**ROTHENBERGER**



# Bending

## Manual

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# Bending

## Manual

### TUBE BENDER

For accurate one handed bending up to 90°,  
 Ø 5 - 12 mm (1/4 - 1/2")



#### Product Profile

##### APPLICATION AREA

Suitable for pipe made of:

**Copper (soft) and aluminium:** Ø 5 - 12 mm, 1/4 - 1/2"

**Precision steel (soft):** Ø 5 - 12 mm, 1/4 - 1/2"

##### KEY FEATURES

- Accurate bending even in restricted spaces
- Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels
- Quick and simple change of the bending formers
- Fast release and removal of the bending formers
- One handed operation through the ergonomic design
- Fast and accurate bending

3



#### Ratchet arm with bayonet coupling

Quick change of the bending formers

#### Release lever

Quick release and reset of the bending former

#### Ergonomic design

One handed operation

#### Compact design

Accurate bending even in restricted spaces

#### Mechanical ratchet feed

Quick and accurate bending

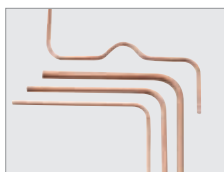
#### Open bending frame

Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels



Fig TUBE BENDER Set

#### Various bends possible



#### TUBE BENDER (No. 24130)



#### Bending formers (No. 24048)



#### Back plates (No. 24049)



#### Bending segments



TUBE BENDER sets includes: basic tool complete with bending segments, back plates, in plastic carrying case (No. 24025)

| Model  | kg   |   | No.          |
|--|------|---|--------------|
| Basic set (basic tool, back plates plastic case) | 1.00 | 1 | <b>24010</b> |
| TB Set 5 - 6 - 8 - 10 mm                         | 2.84 | 1 | <b>24131</b> |
| TB Set 6 - 8 - 10 - 12 mm                        | 3.03 | 1 | <b>24132</b> |
| TB Set 8 - 10 - 12 mm                            | 2.82 | 1 | <b>24133</b> |
| TB Set 1/4 - 5/16 - 3/8 - 1/2"                   | 2.92 | 1 | <b>24134</b> |
| Plastic carrying case                            | 0.60 | 1 | <b>24025</b> |
| Basic tool without bending segments              | 0.36 | 1 | <b>24130</b> |
| Support segment                                  | 0.05 | 1 | <b>24048</b> |
| Back plate without support segment               | 0.14 | 1 | <b>24049</b> |

### TUBE BENDER Bending Segments

| Model            | Size  | g   | No.          |
|------------------|-------|-----|--------------|
| Bending segments | 5 mm  | 190 | <b>24001</b> |
| Bending segments | 6 mm  | 210 | <b>24002</b> |
| Bending segments | 8 mm  | 250 | <b>24003</b> |
| Bending segments | 9 mm  | 360 | <b>24004</b> |
| Bending segments | 10 mm | 390 | <b>24005</b> |
| Bending segments | 12 mm | 390 | <b>24007</b> |
| Bending segments | 1/4"  | 210 | <b>24002</b> |
| Bending segments | 5/16" | 250 | <b>24003</b> |
| Bending segments | 3/8"  | 270 | <b>24006</b> |
| Bending segments | 1/2"  | 380 | <b>24008</b> |

Previous bending segments and back plates from earlier models are compatible!

## TUBE BENDER MAXI

For accurate one handed bending up to 90°,  
Ø 12 - 26 mm (3/8 - 1.1/4")



### Product Profile

#### APPLICATION AREA

For the bending of pipes made of soft copper and aluminium, coated copper and precision steel pipes, as well as multi-layered composite pipes (only in MLP-Sets) and stainless steel (soft)

Suitable for pipe made of:

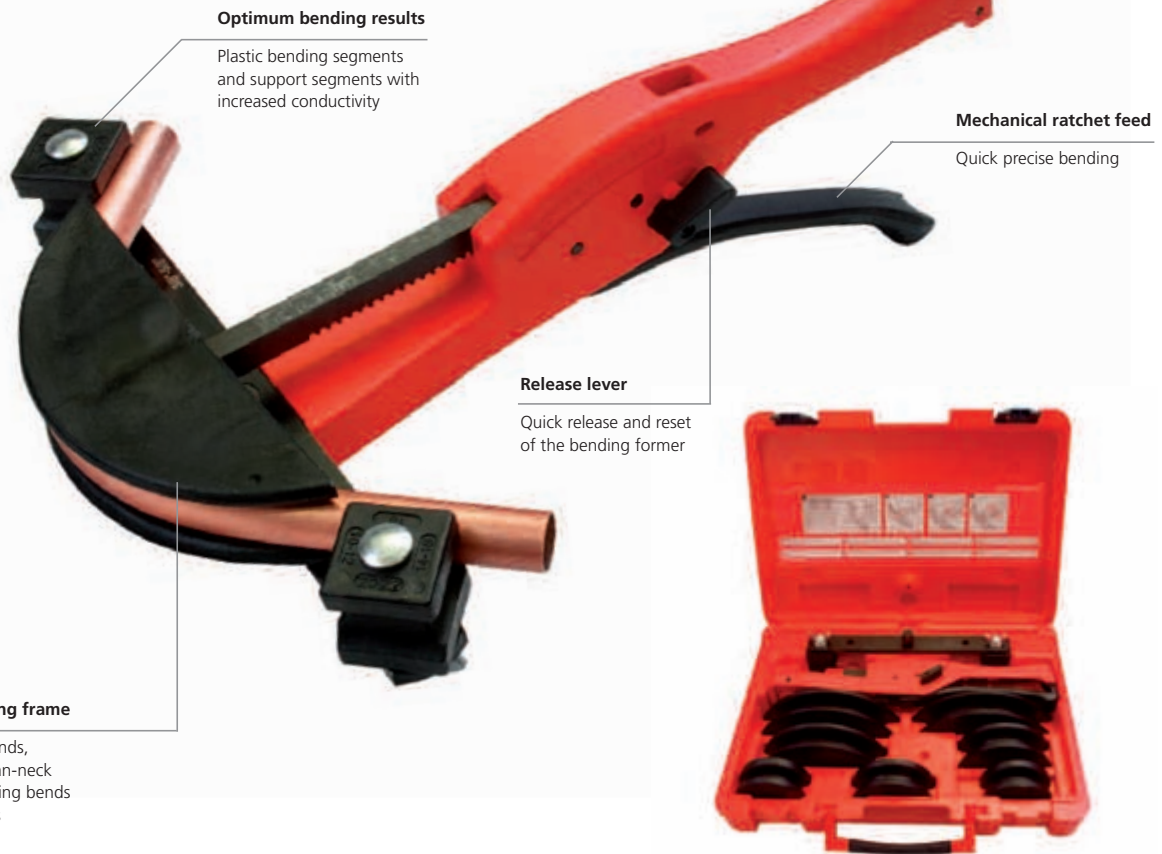
|   |                            |
|---|----------------------------|
| <b>Copper (soft) and aluminium:</b>         | Ø 12 - 22 mm, 3/8 - 7/8"   |
| <b>Copper (coated):</b>                     | Ø 12 - 18 mm, 3/8 - 5/8"   |
| <b>Precision steel (soft):</b>              | Ø 12 - 22 mm, 3/8 - 7/8"   |
| <b>Stainless steel (thin-walled, soft):</b> | Ø 12 - 18 mm, 3/8 - 5/8"   |
| <b>MSR (Multilayer):</b>                    | Ø 14 - 26 mm, 5/8 - 1.1/4" |

#### KEY FEATURES

- Eliminates the cost for bending formers, storage and purchase
- Quick release and reset of the bending segments
- Bending segments are easily exchanged
- Optimum bending results

Handle will not open during transport

Safe transport



Optimum bending results

Plastic bending segments and support segments with increased conductivity

Mechanical ratchet feed

Quick precise bending

Release lever

Quick release and reset of the bending former

Adjustable bending frame

Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels

Fig TUBE BENDER MAXI Set

TUBE BENDER MAXI Sets include: basic unit (No. 023000X), back plate support with segments (Cu Set No. 23001) (MSR Set No. 23080), (MSR-Set No. 24022), plastic carrying case (No. 23097)

| Model                                       | kg  | kg | No.            |
|---|-----|----|----------------|
| TB MAXI set 12 - 15 - 18 - 22 mm            | 3.5 | 1  | <b>023020X</b> |
| TB MAXI set 12 - 14 - 16 - 18 - 22 mm       | 3.5 | 1  | <b>023021X</b> |
| TB MAXI set 3/8 - 1/2 - 5/8 - 3/4 - 7/8"    | 3.3 | 1  | <b>023022X</b> |
| TB MAXI set MSR 14 - 16 - 18 - 20 - 25 mm   | 3.3 | 1  | <b>023090X</b> |
| TB MAXI set MSR 14 - 16 - 18 - 20 - 26 mm   | 3.3 | 1  | <b>023091X</b> |
| Basic tool without back plate support       | 1.0 | 1  | <b>023000X</b> |
| Back plate support without support segments | 0.5 | 1  | <b>23015</b>   |
| Support segment R/L 10 - 25 mm              | 0.5 | 2  | <b>23008</b>   |
| Support segments R/L 12 - 22 mm             | 0.1 | 2  | <b>23047</b>   |
| Plastic carrying case                       | 1.1 | 1  | <b>23097</b>   |

Previous bending segments and back plates from earlier models are compatible!

## TUBE BENDER MAXI Bending Segments

| Model            | Size  | max. mm | g   | No.          |
|------------------|-------|---------|-----|--------------|
| Bending segments | 12 mm | 1.0     | 80  | <b>23002</b> |
| Bending segments | 14 mm | 1.0     | 80  | <b>23003</b> |
| Bending segments | 15 mm | 1.0     | 90  | <b>23004</b> |
| Bending segments | 16 mm | 1.0     | 100 | <b>23005</b> |
| Bending segments | 18 mm | 1.0     | 140 | <b>23006</b> |
| Bending segments | 22 mm | 1.0     | 170 | <b>23007</b> |
| Bending segments | 3/8"  | 1.0     | 70  | <b>23010</b> |
| Bending segments | 1/2"  | 1.0     | 80  | <b>23011</b> |
| Bending segments | 5/8"  | 1.0     | 100 | <b>23012</b> |
| Bending segments | 3/4"  | 1.0     | 120 | <b>23013</b> |
| Bending segments | 7/8"  | 1.0     | 170 | <b>23014</b> |



# Bending

## Manual

### TUBE BENDER MAXI MSR Set

One-handed bending tool for precision bending of multi-layered composite pipes (MSR), Ø 14 - 32 mm



#### Product Profile

##### APPLICATION AREA

Universal bending tool. Increases safety by reducing the number of joints. Eliminates the costs for bending formers, storage and purchase

##### KEY FEATURES

- Ideal in confined spaces
- Quick release and resetting of bending formers
- Bending formers easily changed
- Optimal bending results
- Reduction of pressure-loss in the unit due to the low cross-sectional constriction as compared to prefabricated form pieces

##### Adjustable bending frame

Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels

##### Ratchet arm with bayonet coupling

Bending formers easily changed

##### Smooth running feed lever

Ideal for use in confined spaces and for one-handed operation

##### Plastic bending formers and support segments with increased conductivity

Optimum bending results

##### Release lever

Quick release and resetting of bending formers

##### Mechanical ratchet feed

Quick operation

Fig TUBE BENDER MAXI MSR

##### Body made of resistant die-cast steel

Sturdy and long-lasting

##### Universal field operation



TUBE BENDER MAXI MSR Set

Sets (No. 23065 / 23095) include: TUBE BENDER MAXI MSR (No. 23076), support brackets (No. 23080), bending formers in steel carrying case (No. 24022)

| Model                    | Description               | No.          |
|--------------------------|---------------------------|--------------|
| TUBE BENDER MAXI MSR Set | 14- 16- 18- 20- 25- 32 mm | <b>23065</b> |
| TUBE BENDER MAXI MSR Set | 14- 16- 18- 20- 26- 32 mm | <b>23095</b> |

#### Accessories



| Description                 | g   | No.          | Description                                      | g    | No.          |
|-----------------------------|-----|--------------|--|------|--------------|
| Bending segment 14 x 2.0 mm | 80  | <b>23003</b> | Bending segment 26 x 2.0 mm                      | 200  | <b>23053</b> |
| Bending segment 16 x 2.0 mm | 100 | <b>23005</b> | Bending segment 32 x 2.0 mm                      | 380  | <b>23051</b> |
| Bending segment 18 x 2.0 mm | 140 | <b>23050</b> | Basic tool 32 without support brackets           | 1280 | <b>23076</b> |
| Bending segment 20 x 2.0 mm | 150 | <b>23052</b> | Support brackets with support segments R/L 23076 | 790  | <b>23080</b> |
| Bending segment 25 x 2.0 mm | 180 | <b>23009</b> | Support segments                                 | 200  | <b>23083</b> |

## Standard Two Handed Bender 90°

For accurate bending up to 90° for pipes made of soft and semi-hard copper according to DIN EN 1057  
Ø 12 x 1.0 - 28 x 1.0 mm

Universal bender for sanitary and heating installations refrigeration and air-conditioning systems

### KEY FEATURES

- Long handles allow for better leverage in the bending of semihard copper pipes
- Bending pliers with sliding carriage for millimetre-exact bending
- Accurate adjustments between the bending radius and handle length reduces effort required



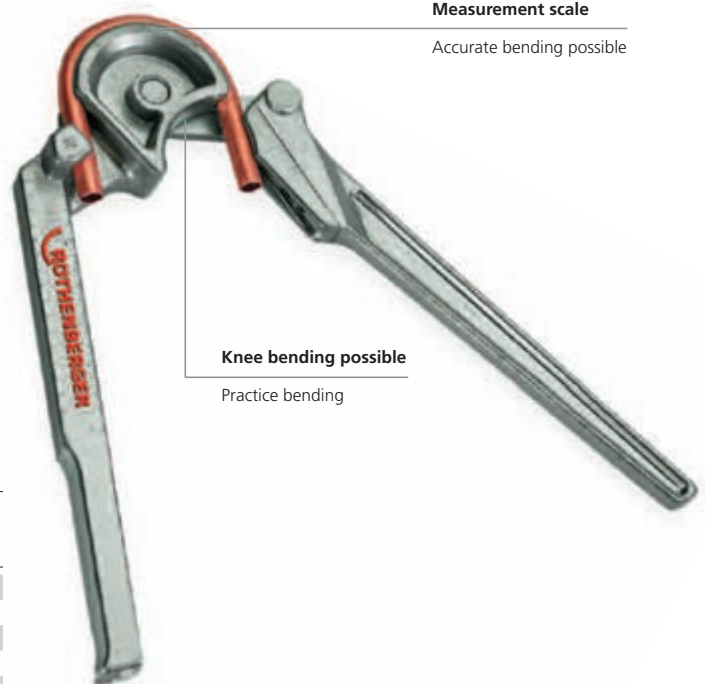
| Size  | mm  | R<br>Radius mm | L mm | kg  | No.    |
|-------|-----|----------------|------|-----|--------|
| 12 mm | 1.0 | 43             | 460  | 1.4 | 462212 |
| 15 mm | 1.0 | 60             | 600  | 2.3 | 462215 |
| 18 mm | 1.0 | 74             | 860  | 3.2 | 462218 |
| 22 mm | 1.0 | 87             | 900  | 4.3 | 462222 |

## MULTIBEND Standard Bender 180°

For accurate bending up to 180° of pipes made of soft copper, aluminium and precision steel Ø 6 - 18 mm  
(1/4 - 5/8")

### KEY FEATURES

- Bending radius display of 0 - 180° for accurate bending
- Clamp mechanism for better pipe hold allows the bending of shorter pipe pieces
- Light construction allows for fatigue-free hand operation



Measurement scale

Accurate bending possible

Knee bending possible

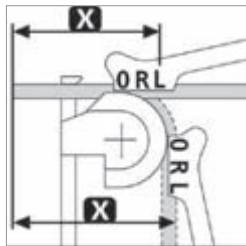
Practice bending

| Size  | max. mm | R<br>Radius mm | kg   | No.   |
|-------|---------|----------------|------|-------|
| 10 mm | 1.0     | 30             | 0.37 | 25401 |
| 12 mm | 1.0     | 36             | 0.64 | 25402 |
| 14 mm | 1.0     | 42             | 0.98 | 25403 |
| 15 mm | 1.0     | 48             | 1.45 | 25404 |
| 16 mm | 1.0     | 48             | 1.46 | 25405 |
| 18 mm | 1.0     | 54             | 2.00 | 25406 |

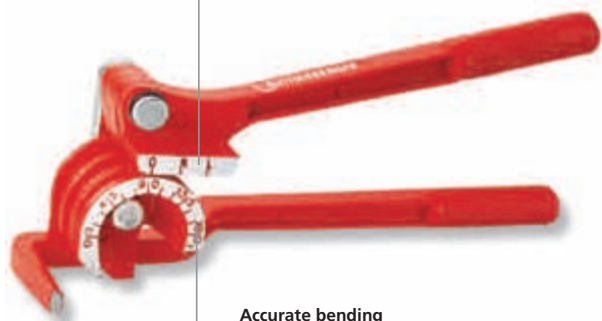
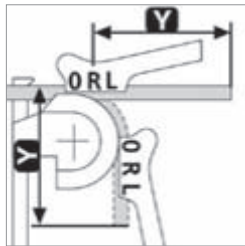
# Bending

## Manual

Method L



Method R



Accurate bending

Minimum size chart and bending radius display on measurement scale

### MINIBEND

For accurate two handed bending up to 180° of pipes made of soft copper, brass, aluminium and precision steel Ø 6 - 10 mm, (1/4 - 3/8")

#### KEY FEATURES

Suitable for use in refrigeration and air-conditioning, oil supply, automotive, hydraulic and pneumatic industries

#### Method L - Determination of the length of L - Left:

O: Reference to bending scale (0-0) and/or start/end of the bending radius  
L: Used to determine/indicate the final dimension desired from the left (pipe beginning) up to top edge of the pipe (Mass X)

#### Method R: Determination of the length of R - Right:

O: Reference to bending scale (0-0) and/or start/end of the bending radius  
R: Used to determine/indicate the final dimension desired from the right (pipe beginning) up to top edge of the pipe (Mass Y)

| Model    | Size              | g   | No.          |
|----------|-------------------|-----|--------------|
| MINIBEND | 6 - 8 - 10 mm     | 420 | <b>25150</b> |
| MINIBEND | 1/4 - 5/16 - 3/8" | 420 | <b>25151</b> |

### Standard Bender 180°

For accurate bending up to 180° of pipes made of soft copper, aluminium and precision steel Ø 6 - 18 mm (1/4 - 5/8")

#### KEY FEATURES

Bending radius display of 0 - 180° for accurate bending  
Clamp mechanism for better pipe hold allows the bending of shorter pipe pieces  
Light construction allows for fatigue-free hand operation

Accurate bending

Minimum size chart and bending radius display on measurement scale



| Size  | R Radius mm | mm  | g     | No.          |
|-------|-------------|-----|-------|--------------|
| 6 mm  | 18          | 305 | 550   | <b>25130</b> |
| 10 mm | 30          | 390 | 970   | <b>25132</b> |
| 12 mm | 36          | 390 | 980   | <b>25133</b> |
| 14 mm | 47          | 450 | 1,580 | <b>25134</b> |
| 15 mm | 54          | 450 | 1,830 | <b>25135</b> |
| 16 mm | 58          | 450 | 1,830 | <b>25136</b> |
| 5/16" | 24          | 305 | 640   | <b>25131</b> |
| 5/8"  | 58          | 450 | 1,830 | <b>25136</b> |

#### ACCESSORIES



| Description                  | No.             |
|------------------------------|-----------------|
| Internal / External deburrer | <b>31</b>       |
| Bending spray, 150 ml        | <b>67 25120</b> |

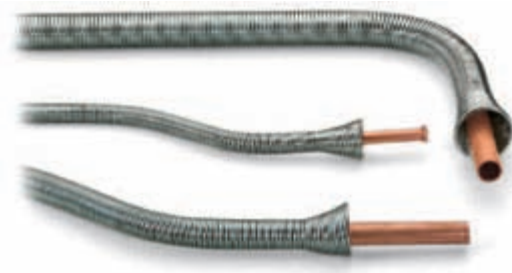


## Copper Tube Bending Springs

For free-handed bending of soft copper pipes  
Ø 6 - 16 mm (1/4 - 5/8")

### KEY FEATURES

- Coiled cone for ideal handling even with longer pipes
- Tough and long lasting with the cadmium-plated spring steel
- Optimal spring form prevents buckling in bending radius area



| Size  | g   | No.   |
|-------|-----|-------|
| 10 mm | 80  | 25182 |
| 12 mm | 160 | 25183 |
| 15 mm | 220 | 25185 |
| 16 mm | 220 | 25186 |

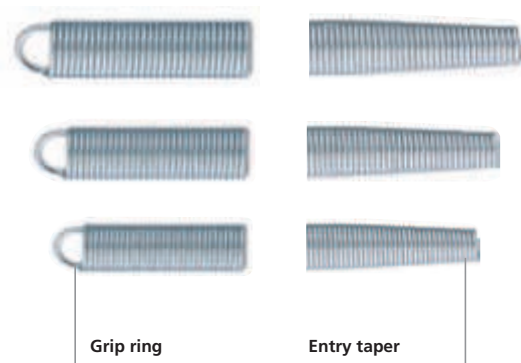
| Size  | g   | No.   |
|-------|-----|-------|
| 1/4"  | 80  | 25187 |
| 5/16" | 70  | 25181 |
| 3/8"  | 90  | 25188 |
| 1/2"  | 130 | 25190 |
| 5/8"  | 220 | 25186 |

## MSR Internal Bending Springs

For hand bending of aluminium multi-layer pipes (MSR)  
Ø 6 - 20 mm

### KEY FEATURES

- Ideal operation even with longer pipes:
- Grip ring for retraction out of the pipe
- Entry taper for clean insertion in the pipe
- Sturdy and long lasting: NIROSTA spring steel
- Pipe will not buckle due to optimal spring form



Grip ring

for insertion into and retraction out of the pipe

Entry taper

for clean insertion in the pipe

| Model                       | Bending spring | Pipe     | g   | No.   |
|-----------------------------|----------------|----------|-----|-------|
| MSR-internal-bending spring | 6.0 mm         | 12.0 mm  | 90  | 25441 |
| MSR-internal-bending spring | 8.0 mm         | 14.0 mm  | 120 | 25442 |
| MSR-internal-bending spring | 10.0 mm        | 16.0 mm  | 150 | 25443 |
| MSR-internal-bending spring | 12.0 mm        | 18.0 mm  | 180 | 25444 |
| MSR-internal-bending spring | 13.5 mm        | 20.0 mm  | 220 | 25445 |
| MSR-internal-bending spring | 19.0 mm        | 25/26 mm | 380 | 25446 |
| MSR-internal-bending spring | 16.0 mm        | 17.5 mm  | 280 | 25448 |
| MSR-internal-bending spring | 20.0 mm        | 21.5 mm  | 420 | 25449 |



## Bending Spray

For bending copper and steel pipes

### KEY FEATURES

- Combination of slide and bending oil
- Because of the special viscosity even copper and steel pipes are able to be bent easily

| Model                 | Contents | No.   |
|-----------------------|----------|-------|
| Bending spray, 150 ml | 150 ml   | 25120 |



Fig. Similar

### ACCESSORIES



| Description                  | No. |
|------------------------------|-----|
| Internal / External deburrer | 31  |

# Bending

## Manual

### ROBEND® H+W PLUS

For accurate cold bending up to 180°,  
 Ø 8 - 22 mm (5/16 - 7/8")

**Made in Germany!**



#### Product Profile

##### APPLICATION AREA

For accurate bending up to 180° on pipes made of:

|  |               |             |
|--|---------------|-------------|
| <b>Copper (soft, semi-hard, hard thin-walled):</b> | Ø 8 - 22 mm,  | 5/16 - 7/8" |
| <b>Copper (coated, also thin-walled):</b>          | Ø 10 - 18 mm, | 3/8 - 5/8"  |
| <b>Aluminium and brass:</b>                        | Ø 8 - 22 mm,  | 5/16 - 7/8" |
| <b>Precision steel (also coated):</b>              | Ø 10 - 22 mm, | 3/8 - 5/8"  |
| <b>Seamless stainless steel:</b>                   | Ø 8 - 22 mm,  | 5/16 - 7/8" |

##### KEY FEATURES

- Exact bending to the mm on continuous pipe
- Retains shape and remains stable
- Free-hand bending possible with the additional handle up to Ø 18 mm / 5/8"
- Eliminates the costs of purchase and storage of bending formers
- Easy bending through clamping on a vice
- Exact bending with the minimum size chart and bending radius display

3



#### ROLUB-Anti-block-System

Less effort due to lower friction and optimum distribution of the bending spray

#### ROLUB-Anti-Block-System!

#### Optimum combination of ROLUB guide shoe and the bending former

Perfect bending results without friction marks

#### Minimum size chart and bending radius display

Accurate bending

#### Bending formers with base plate

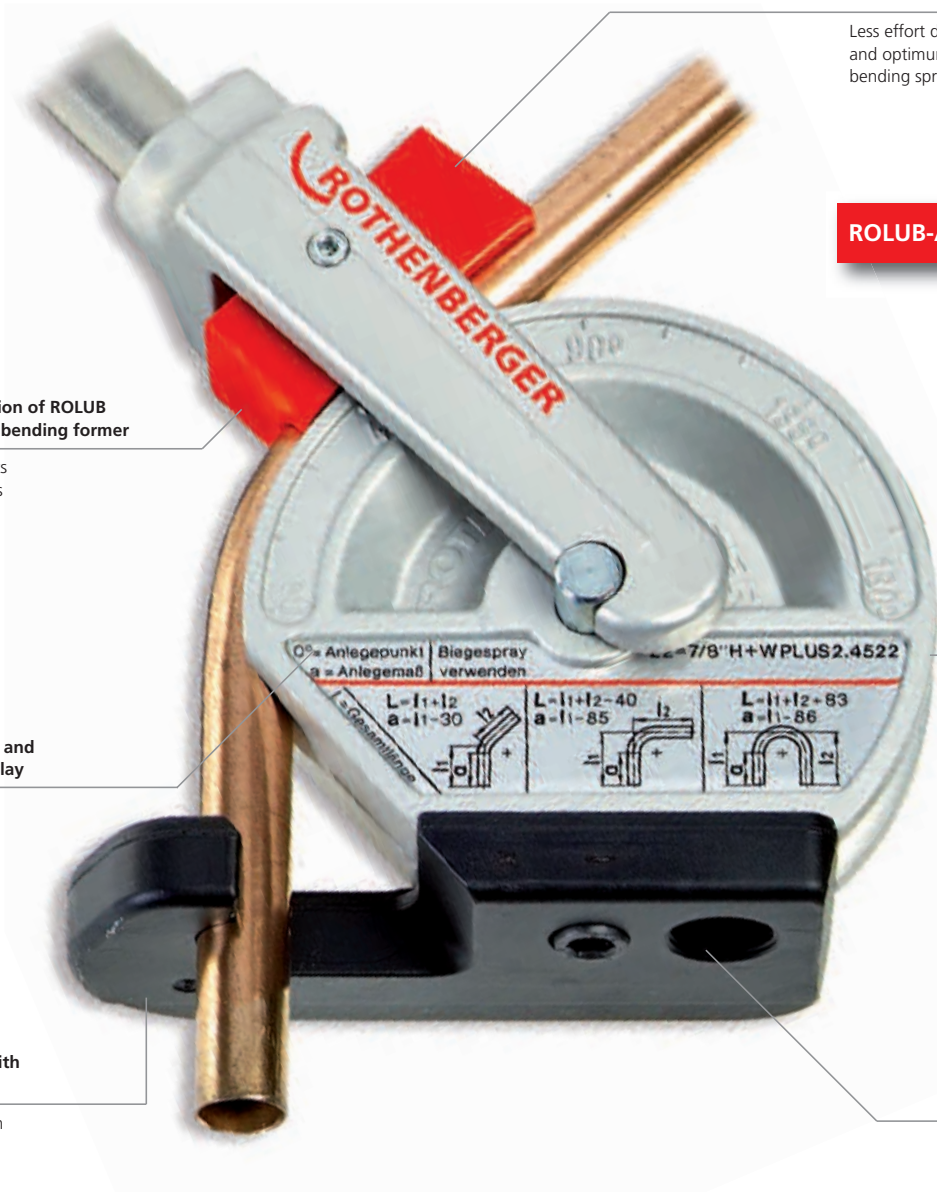
Easy bending through clamping on a vice

#### Made from high quality forged aluminium

Retains shape and remains stable

#### Thread for the attachment of the additional lever (accessories)

Free-hand bending possible



## ROBEND® H+W PLUS Bender

Universal hand bender complete with bending former, fork with ROLUB guide shoe and handle. Universal application in sanitary and heating installations, refrigeration and air-conditioning systems and industrial systems



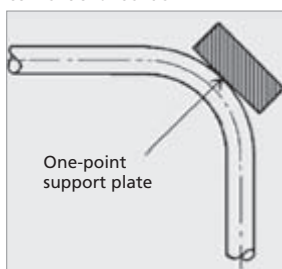
### ROBEND® H+W PLUS Bender

| Size  | max mm | R<br>Radius mm | g     | No.          |
|-------|--------|----------------|-------|--------------|
| 8 mm  | 1.0    | 22             | 660   | <b>24508</b> |
| 10 mm | 1.0    | 32             | 1,180 | <b>24510</b> |
| 12 mm | 1.0    | 38             | 1,110 | <b>24512</b> |
| 14 mm | 1.0    | 45             | 1,370 | <b>24514</b> |
| 15 mm | 1.0    | 45             | 1,370 | <b>24515</b> |
| 16 mm | 1.0    | 64             | 2,620 | <b>24516</b> |
| 18 mm | 1.0    | 64             | 2,620 | <b>24518</b> |
| 22 mm | 1.0    | 81             | 3,800 | <b>24522</b> |
| 5/16" | 1.0    | 22             | 660   | <b>24508</b> |
| 3/8"  | 1.0    | 32             | 1,185 | <b>24551</b> |
| 1/2"  | 1.0    | 38             | 1,110 | <b>24552</b> |
| 5/8"  | 1.0    | 64             | 2,620 | <b>24516</b> |
| 3/4"  | 1.0    | 81             | 3,850 | <b>24519</b> |
| 7/8"  | 1.0    | 81             | 3,800 | <b>24522</b> |

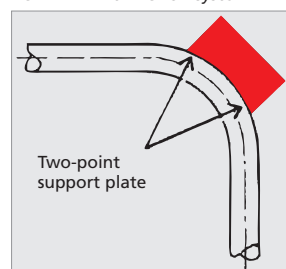
#### ACCESSORIES (additional lever for free-hand bending)

|   |              |
|---|--------------|
| Lever for bending formers up to Ø 15 mm       | <b>25076</b> |
| Lever for bending formers bigger than Ø 15 mm | <b>25078</b> |
| Bending spray 150 ml                          | <b>25120</b> |

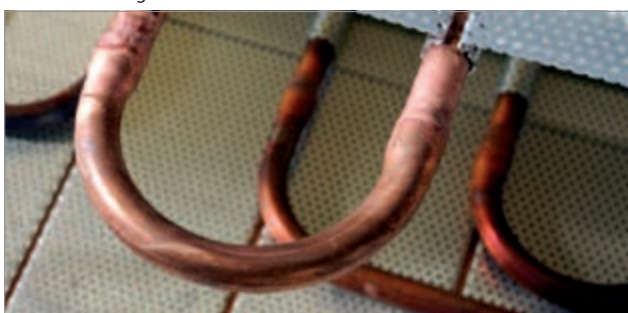
Conventional bender



ROBEND® with ROLUB system



Accurate bending



## ROBEND® H+W PLUS Bending Sets

Sets include: Steel carrying case for a maximum of 4 bending formers, 2 levers for vice bending and bending spray (No. 25120). Bender corresponds to the respective pipe dimensions.



Fig. similar

### ROBEND® H+W PLUS Bending Sets

| Model                                 | Description | mm  | kg   | No.          |
|---------------------------------------|-------------|-----|------|--------------|
| ROBEND® H+W PLUS 12 - 15 - 18 - 22 mm |             | 1.0 | 16.5 | <b>24500</b> |
| ROBEND® H+W PLUS 10 - 12 - 14 - 16 mm |             | 1.0 | 16.3 | <b>24501</b> |
| ROBEND® H+W PLUS 12 - 14 - 16 - 18 mm |             | 1.0 | 13.6 | <b>24502</b> |
| ROBEND® H+W PLUS 15 - 18 - 22 mm      |             | 1.0 | 14.9 | <b>24505</b> |
| ROBEND® H+W PLUS 1/2 - 5/8 - 3/4"     |             | 1.0 | 13.6 | <b>24503</b> |
| ROBEND® H+W PLUS 1/2 - 5/8 - 7/8"     |             | 1.0 | 13.7 | <b>24504</b> |

### ROLUB Anti-Block Special Guide Shoe

| Size  | g  | No.          | Size  | g  | No.          |
|-------|----|--------------|-------|----|--------------|
| 8 mm  | 20 | <b>25308</b> | 5/16" | 20 | <b>25308</b> |
| 10 mm | 20 | <b>25310</b> | 3/8"  | 25 | <b>25310</b> |
| 12 mm | 30 | <b>25312</b> | 1/2"  | 30 | <b>25313</b> |
| 14 mm | 30 | <b>25314</b> | 5/8"  | 50 | <b>25316</b> |
| 15 mm | 30 | <b>25315</b> | 3/4"  | 90 | <b>25319</b> |
| 16 mm | 50 | <b>25316</b> | 7/8"  | 90 | <b>25322</b> |
| 18 mm | 50 | <b>25318</b> |       |    |              |
| 20 mm | 90 | <b>25320</b> |       |    |              |
| 22 mm | 90 | <b>25322</b> |       |    |              |

### ROLUB Anti-Block Special Guide Shoe

Especially adapted to the ROBEND® H+W bender the ROLUB guide shoe with two-point lubricating chamber system

#### Elastic honeycomb construction

Up to 42% less effort due to less friction



ROLUB Special Guide Shoe made of high-quality polyamide

Perfect bending results without friction marks

Two-point lubricating chamber system

Ensures optimum distribution of lubrication



# Bending

## Manual Hydraulic

### ROBULL Type E / ROBULL MSR Type E

For precise, manual hydraulic cold bending up to 90°



#### Product Profile

##### APPLICATION AREA

Broadly applicable, universal portable hydraulic bending system for plumbing, sanitary and heating installation on construction sites, for apparatus and boiler construction and for industrial use. Also suitable for aligning tubes.

##### ROBULL Type E:

For accurate bending up to 90° on pipes made of:

**Carbon steel suitable for welding and thread-cutting**      Ø 3/8 - 2"

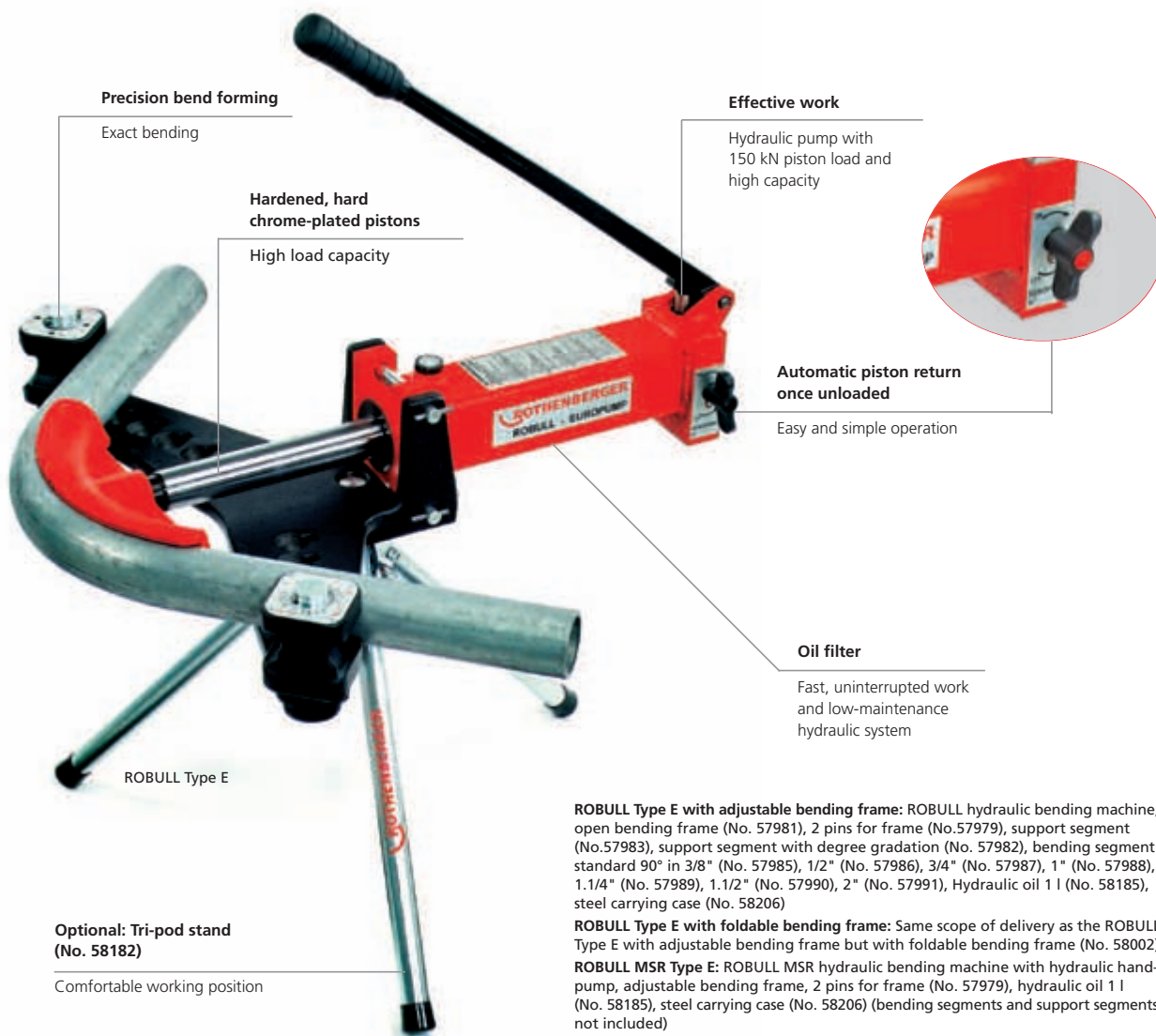
##### ROBULL MSR Type E:

For accurate bending up to 90° on pipes made of:

**multi-layered composite pipe (MSR)**      Ø 40 - 50 - 63 mm

##### KEY FEATURES

- Precise bending with the angle scale on the support brackets (not with ROBULL MSR type E)
- Reduces welded joints
- No pre-warming of pipe is required
- No bending forms needed
- Works quicker with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (opt.)
- With foldable and adjustable bending frame



**Optional: Tri-pod stand (No. 58182)**

Comfortable working position

**ROBULL Type E with adjustable bending frame:** ROBULL hydraulic bending machine, open bending frame (No. 57981), 2 pins for frame (No.57979), support segment (No.57983), support segment with degree gradation (No. 57982), bending segment standard 90° in 3/8" (No. 57985), 1/2" (No. 57986), 3/4" (No. 57987), 1" (No. 57988), 1.1/4" (No. 57989), 1.1/2" (No. 57990), 2" (No. 57991), Hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206)

**ROBULL Type E with foldable bending frame:** Same scope of delivery as the ROBULL Type E with adjustable bending frame but with foldable bending frame (No. 58002)

**ROBULL MSR Type E:** ROBULL MSR hydraulic bending machine with hydraulic hand-pump, adjustable bending frame, 2 pins for frame (No. 57979), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206) (bending segments and support segments not included)

| Model            | Description   | kg   |   | No.            |
|------------------|---|------|---|----------------|
| ROBULL Type E    | without accessories                                       | 16.8 | 1 | <b>057950X</b> |
| ROBULL Type E    | with adjustable bending frame and accessories (see above) | 59.8 | 1 | <b>057966X</b> |
| ROBULL Type E    | with foldable bending frame and accessories (see above)   | 72.6 | 1 | <b>057961X</b> |
| ROBULL MSR Typ E | without bending segments and support segments (see above) | 54.0 | 1 | <b>57900</b>   |

### ROBULL Type E



ROBULL Type E with foldable bending frame

### ROBULL Type E Bending Segments

small bending radius

| inch   | mm    | Wall thickness max. mm | r mm | kg  | No.          |
|--------|-------|------------------------|------|-----|--------------|
| 3/8"   | 17.20 | 2.35                   | 45   | 0.7 | <b>57985</b> |
| 1/2"   | 21.30 | 2.65                   | 49   | 0.7 | <b>57986</b> |
| 3/4"   | 26.90 | 2.65                   | 65   | 0.8 | <b>57987</b> |
| 1"     | 33.70 | 3.25                   | 89   | 1.3 | <b>57988</b> |
| 1.1/4" | 42.40 | 3.25                   | 115  | 1.6 | <b>57989</b> |
| 1.1/2" | 48.30 | 3.25                   | 137  | 2.4 | <b>57990</b> |
| 2"     | 60.30 | 3.65                   | 200  | 3.2 | <b>57991</b> |

### ROBULL Type E Bending Segments

large bending radius

| inch   | mm    | Wall thickness max. mm | r mm | kg  | No.          |
|--------|-------|------------------------|------|-----|--------------|
| 3/8"   | 17.20 | 2.35                   | 56   | 0.8 | <b>58010</b> |
| 1/2"   | 21.30 | 2.35                   | 85   | 0.9 | <b>58011</b> |
| 3/4"   | 26.90 | 2.65                   | 115  | 1.2 | <b>58012</b> |
| 1"     | 33.70 | 2.65                   | 145  | 2.1 | <b>58013</b> |
| 1.1/4" | 42.40 | 3.25                   | 180  | 3.5 | <b>58014</b> |
| 1.1/2" | 48.30 | 3.25                   | 214  | 4.3 | <b>58015</b> |
| 2"     | 60.30 | 3.65                   | 245  | 5.6 | <b>58016</b> |

### ROBULL MSR Type E



### ROBULL MSR Type E Bending Segments

| mm           | Wall thickness max. mm | r mm      | kg  | No.          |
|--------------|------------------------|-----------|-----|--------------|
| 40           | 2.35                   | 138       | 1.2 | <b>58021</b> |
| 50           | 2.65                   | 173       | 1.7 | <b>58022</b> |
| 63           | 2.65                   | 218       | 2.3 | <b>58023</b> |
| 40 - 50 - 63 | see above              | see above | 9.0 | <b>58020</b> |



### ACCESSORIES



| Model   | kg   | No.          |
|---|------|--------------|
| <b>ROBULL Type E</b>  |      |              |
| Bending frame, adjustable   | 15.2 | <b>57981</b> |
| Support segments for adjustable bending frame, with degree gradation    | 2.6  | <b>57982</b> |
| Support segments for adjustable bending frame, without degree gradation | 2.6  | <b>57983</b> |
| Bending frame, foldable   | 12.5 | <b>58002</b> |
| Support segments for foldable bending frame                             | 2.2  | <b>58004</b> |
| Locking pin   | 0.3  | <b>57979</b> |

| Model                                    | kg  | No.          |
|--|-----|--------------|
| <b>ROBULL MSR Type E</b>                 |     |              |
| Support segments, 40 mm (2 piece)        | 1.9 | <b>57921</b> |
| Support segments, 50 mm (2 piece)        | 3.2 | <b>57922</b> |
| Support segments, 63 mm (2 piece)        | 3.9 | <b>57023</b> |
| <b>ROBULL Type E / ROBULL MSR Type E</b> |     |              |
| Hydraulic oil, 1 litre                   | 1.0 | <b>58185</b> |
| Steel carrying case                      | 10  | <b>58206</b> |
| Tripod stand                             | 3.0 | <b>58182</b> |

# Bending

## Electric Hydraulic

### ROBULL Type ME / ROBULL MSR Type ME

For precise, power hydraulic cold bending up to 90°



#### Product Profile

##### APPLICATION AREA

Various uses, mobile hydraulic bending machine for use on the building site in gas, sanitary and heating installations

##### ROBULL Type ME:

For accurate bending up to 90° on pipes made of:

**Carbon steel suitable for welding and thread-cutting**      Ø 3/8 - 2"

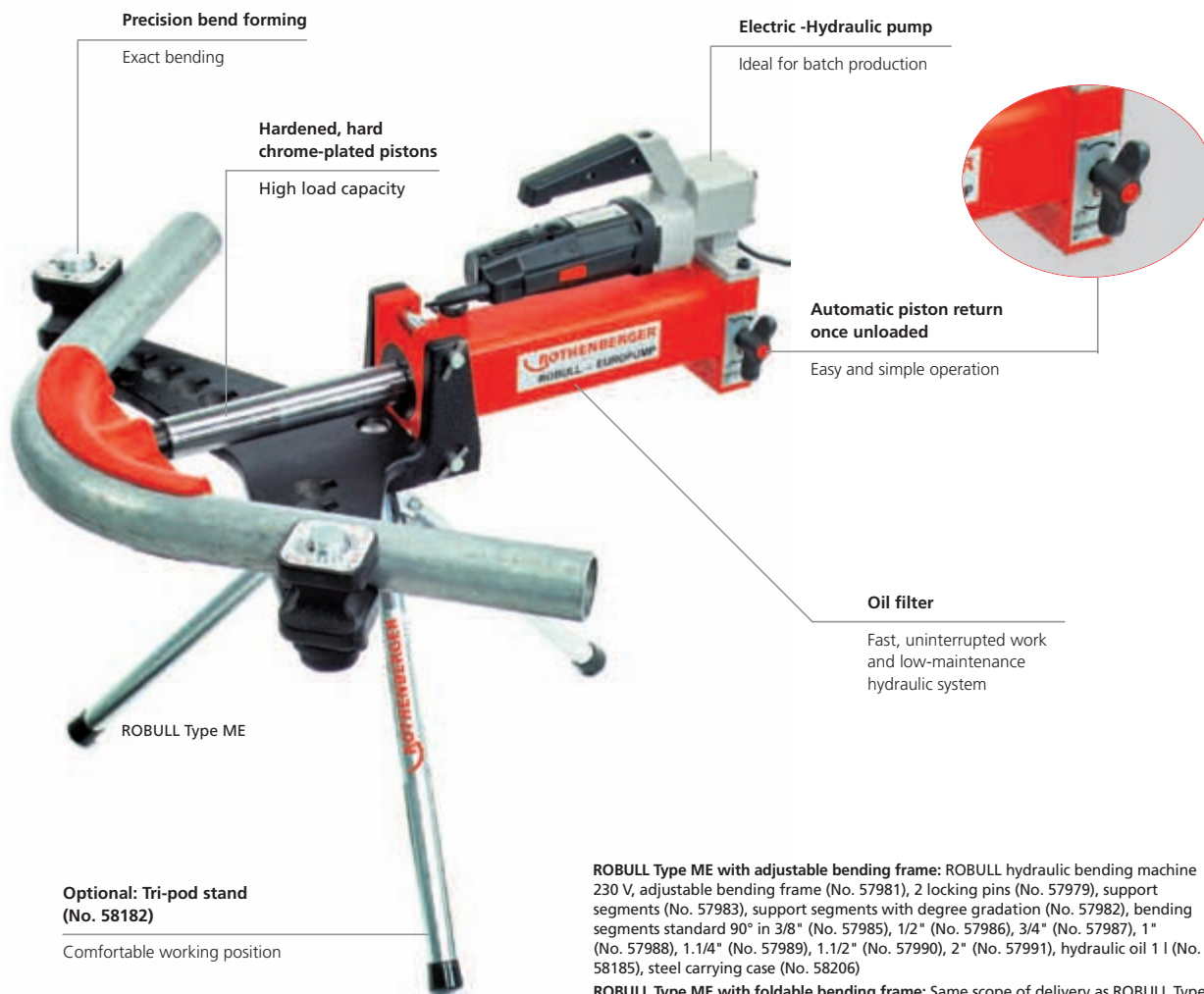
##### ROBULL MSR Type ME:

For accurate bending up to 90° on pipes made of:

**multi-layered composite pipe (MSR)**      Ø 40 - 50 - 63 mm

##### KEY FEATURES

- Precise bending with the angle scale on the support segments (not with ROBULL MSR type ME)
- Reduces welding joints
- Pre-warming of the pipe no longer necessary
- No bending forms are necessary
- Effective use with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (optional)
- With foldable and adjustable bending frame



**ROBULL Type ME with adjustable bending frame:** ROBULL hydraulic bending machine 230 V, adjustable bending frame (No. 57981), 2 locking pins (No. 57979), support segments (No. 57983), support segments with degree gradation (No. 57982), bending segments standard 90° in 3/8" (No. 57985), 1/2" (No. 57986), 3/4" (No. 57987), 1" (No. 57988), 1.1/4" (No. 57989), 1.1/2" (No. 57990), 2" (No. 57991), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206)

**ROBULL Type ME with foldable bending frame:** Same scope of delivery as ROBULL Type ME with adjustable bending frame but with foldable bending frame (No. 58002)

**ROBULL MSR Type ME:** ROBULL MSR hydraulic bending machine 230 V, adjustable bending frame, 2 locking pins (No. 57979), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206) (bending segments, support segments not included)

| Model              | Description   | kg   |   | No.            |
|--------------------|---|------|---|----------------|
| ROBULL Type ME     | without accessories                                       | 17.8 | 1 | <b>057969X</b> |
| ROBULL Type ME     | with adjustable bending frame and accessories (see above) | 59.8 | 1 | <b>057973X</b> |
| ROBULL Type ME     | with foldable bending frame and accessories (see above)   | 72.6 | 1 | <b>057972X</b> |
| ROBULL MSR Type ME | without bending segments and support segments (see above) | 54.0 | 1 | <b>57915</b>   |



### ROBULL Type ME



### ROBULL MSR Type ME



### ROBULL Type ME Bending Segments

small bending radius

| inch   | mm    | Wall thickness max. mm | r mm | kg  | No.          |
|--------|-------|------------------------|------|-----|--------------|
| 3/8"   | 17.20 | 2.35                   | 45   | 0.7 | <b>57985</b> |
| 1/2"   | 21.30 | 2.65                   | 49   | 0.7 | <b>57986</b> |
| 3/4"   | 26.90 | 2.65                   | 65   | 0.8 | <b>57987</b> |
| 1"     | 33.70 | 3.25                   | 89   | 1.3 | <b>57988</b> |
| 1.1/4" | 42.40 | 3.25                   | 115  | 1.6 | <b>57989</b> |
| 1.1/2" | 48.30 | 3.25                   | 137  | 2.4 | <b>57990</b> |
| 2"     | 60.30 | 3.65                   | 200  | 3.2 | <b>57991</b> |

### ROBULL MSR Type ME Bending Segments

| mm           | Wall thickness max. mm | r mm      | kg  | No.          |
|--------------|------------------------|-----------|-----|--------------|
| 40           | 2.35                   | 138       | 1.2 | <b>58021</b> |
| 50           | 2.65                   | 173       | 1.7 | <b>58022</b> |
| 63           | 2.65                   | 218       | 2.3 | <b>58023</b> |
| 40 - 50 - 63 | see above              | see above | 9.0 | <b>58020</b> |

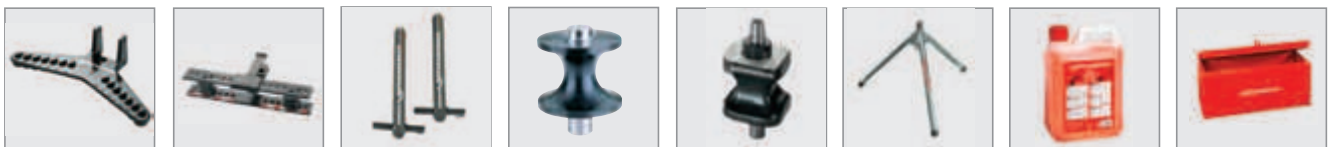
### ROBULL Type ME Bending Segments

large bending radius

| inch   | mm    | Wall thickness max. mm | r mm | kg  | No.          |
|--------|-------|------------------------|------|-----|--------------|
| 3/8"   | 17.20 | 2.35                   | 56   | 0.8 | <b>58010</b> |
| 1/2"   | 21.30 | 2.35                   | 85   | 0.9 | <b>58011</b> |
| 3/4"   | 26.90 | 2.65                   | 115  | 1.2 | <b>58012</b> |
| 1"     | 33.70 | 2.65                   | 145  | 2.1 | <b>58013</b> |
| 1.1/4" | 42.40 | 3.25                   | 180  | 3.5 | <b>58014</b> |
| 1.1/2" | 48.30 | 3.25                   | 214  | 4.3 | <b>58015</b> |
| 2"     | 60.30 | 3.65                   | 245  | 5.6 | <b>58016</b> |



### ACCESSORIES



| Model   | kg   | No.          |
|---|------|--------------|
| <b>ROBULL Type ME</b>   |      |              |
| Bending Frame, adjustable   | 15.2 | <b>57981</b> |
| support forms for adjustable bending frame, with degree gradation   | 2.6  | <b>57982</b> |
| Support forms for adjustable bending frame without degree gradation | 2.6  | <b>57983</b> |
| Bending frame, foldable   | 12.5 | <b>58002</b> |
| Support segments for foldable bending frame                         | 2.2  | <b>58004</b> |
| Locking pins  | 0.3  | <b>57979</b> |

| Model                                      | kg   | No.          |
|--|------|--------------|
| <b>ROBULL MSR Type ME</b>                  |      |              |
| Support segments, 40 mm (2 piece)          | 1.9  | <b>57921</b> |
| Support segments, 50 mm (2 piece)          | 3.2  | <b>57922</b> |
| Support segments, 63 mm (2 piece)          | 3.9  | <b>57023</b> |
| <b>ROBULL Type ME / ROBULL MSR Type ME</b> |      |              |
| Hydraulic oil, 1 litre                     | 1.0  | <b>58185</b> |
| Steel carrying case                        | 10.0 | <b>58206</b> |
| Tripod stand                               | 3.0  | <b>58182</b> |

# Bending

## Electric

### ROBEND® 3000

Portable, sturdy power bender for cold bending up to 180°, Ø 12 - 28 mm (1/2 - 7/8")

#### Product Profile

##### APPLICATION AREA

Universal application in sanitary and heating installations, in pipeline construction, refrigeration and air-conditioning systems as well as industrial systems and batch production. Fewer joints means less potential for leaks. Safety implies less likelihood of injury

##### Suitable for pipes made of:

|   |                             |
|---|-----------------------------|
| <b>Copper (hard, semi-hard and soft DIN EN 1057):</b> | Ø 12 - 28 mm                |
| <b>Copper and precision steel (coated):</b>           | Ø 12 - 28 mm                |
| <b>Precision steel (soft DIN 2391 / 2393 / 2394):</b> | Ø 12 - 28 mm                |
| <b>Threaded steel (DIN 2440 / 2441):</b>              | Ø 3/8 - 3/4"                |
| <b>Seamless stainless steel (GW 541):</b>             | Ø 12 - 28 mm                |
| <b>Multi-layered composite pipe (MSR):</b>            | wall thickness 1.0 - 1.2 mm |

##### KEY FEATURES

Quick return on investment through the savings from joints, soldering material and energy  
 Universal application: U-bends, counter-bends, swan-neck bends and connecting bends possible at all levels  
 Retains shape and remains stable: bending formers made of high-quality forged aluminium  
 Top-quality, precise and simple to use  
 Bending without deformation or ripples due to less friction  
 Motor rating: 1010 Watt

3



Pre-adjustment of the bending angle without tools

Fast and precise bending

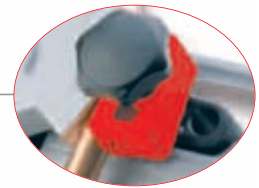


Forged aluminium former with bending radius scale

Easy to use

Special ROLUB Guide Shoe

Bending without deformation or ripples due to less friction



High-performance 1010 W motor

Ideal for continuous operation

Bending technology

Simplified work preparation, eliminates costs of purchase and storage of fittings

Automatic switch-off when preset bending angle is obtained

Fast batch production possible

Bending of pipes made of various materials possible



Seven-fold drive



Comfortable carry handle



ROBEND® 3000 with stand

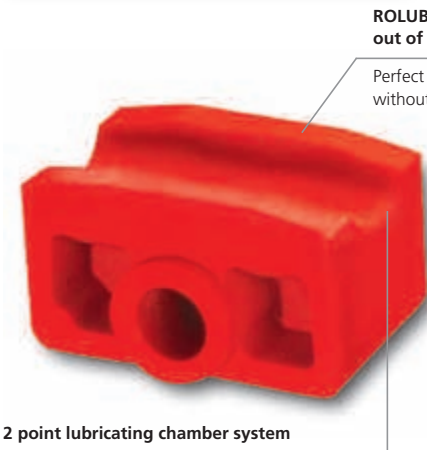


### ROBEND® 3000 Sets

Sets include: Basic 230 V Unit (No. 025740X), bending formers and guide shoes for respective pipe diameters, guide shoe axle (No. 25743), adaptor for tripod (No. 25748) in basic unit (tripod optional), in a plastic carrying case (No. 25745)



#### ROLUB-Anti-block-System!



ROLUB special guide shoe made out of high-quality polyamide

Perfect bending results without friction marks

Optional: Tri-pod stand

"not included in delivery"



Fig. ROBEND® 3000 Set

#### 2 point lubricating chamber system

Ensures optimum distribution of lubrication

#### ROBEND® bending sets



#### Forged aluminium former with bending radius display



#### Pre-adjustment of the bending angle without tools



| Model                   | Description                    | Pipe type    | kg    | No.            |
|-------------------------|--------------------------------|--------------|-------|----------------|
| ROBEND® 3000 Set        | 15 - 18 - 22 - 28 mm           | Cu, Fe, u.a. | 24,12 | <b>025705X</b> |
| ROBEND® 3000 Set        | 12 - 14 - 16 - 18 - 22 mm      | Cu, Fe, u.a. | 21,90 | <b>025709X</b> |
| ROBEND® 3000 Set        | 15 - 22 - 28 mm                | Cu, Fe, u.a. | 21,10 | <b>25760</b>   |
| ROBEND® 3000 Set        | 12 - 14 - 16 - 18 - 22 - 28 mm | Cu, Fe, u.a. | 24,10 | <b>025710X</b> |
| ROBEND® 3000 Set        | 12 - 15 - 18 - 22 mm           | Cu, Fe, u.a. | 20,60 | <b>025700X</b> |
| ROBEND® 3000 Set        | 12 - 15 - 18 - 22 - 28 mm      | Cu, Fe, u.a. | 23,50 | <b>025703X</b> |
| ROBEND® 3000 Set        | 1/2 - 5/8 - 3/4" - 7/8"        | Cu, Fe, u.a. | 19,60 | <b>025711X</b> |
| ROBEND® 3000 Basic Unit | without bending segments       | Cu, Fe, u.a. | 13,00 | <b>025740X</b> |

#### ACCESSORIES



| Description   | No.          | Description  | No.              |
|---|--------------|--|------------------|
| Bending spray 150 ml                                | <b>25120</b> | Pipe cutter  | <b>12 - 30</b>   |
| Guide shoe axle                                     | <b>25743</b> | Internal / External deburrer                       | <b>31 11006</b>  |
| ROBEND® carrying case, for 5 segments up to Ø 30 mm | <b>25745</b> | Hard soldering torch (SUPER FIRE 3 with MAPP®-GAS) | <b>140</b>       |
| Tri-pod stand, foldable                             | <b>25748</b> | Brazing solder                                     | <b>169 - 171</b> |

ROBEND® 3000 bending sets can be found on 76



# Bending

## Accessories & Bending Tables

### ROBEND® 3000 Bending Formers

For bending pipes Ø 9 - 28 mm (1/2 - 1.1/8")



ROBEND® 3000 bending set with ROLUB guide shoe

For copper pipe DIN EN 1057, aluminium pipe, precision steel pipe DIN 2391/93/94, stainless steel pipe and others

| Size  | Wall thickness mm | Bending radius mm | kg   | No.          |
|-------|-------------------|-------------------|------|--------------|
| 12 mm | 1.0               | 42                | 0.48 | <b>25612</b> |
| 14 mm | 1.0               | 49                | 0.48 | <b>25614</b> |
| 15 mm | 1.0               | 52                | 0.53 | <b>25615</b> |
| 16 mm | 1.0               | 56                | 0.60 | <b>25616</b> |
| 18 mm | 1.0               | 72                | 1.17 | <b>25618</b> |
| 20 mm | 1.0               | 80                | 1.42 | <b>25620</b> |
| 28 mm | 2.0               | 112               | 2.90 | <b>25628</b> |

#### For copper pipe

| Size   | Wall thickness mm | Bending radius mm | kg   | No.          |
|--------|-------------------|-------------------|------|--------------|
| 1/2"   | 1.2               | 45                | 0.53 | <b>25652</b> |
| 3/4"   | 1.2               | 80                | 1.42 | <b>25619</b> |
| 1"     | 1.5               | 112               | 2.90 | <b>25625</b> |
| 1.1/8" | 1.6               | 112               | 2.90 | <b>25626</b> |

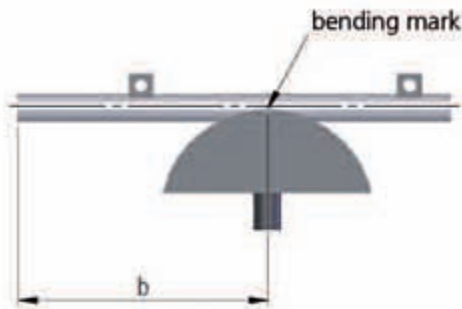
#### For steel pipe DIN 2440 and DIN 2441 (except 3/4")

| Size | Wall thickness mm | Bending radius mm | kg   | No.          |
|------|-------------------|-------------------|------|--------------|
| 1/2" | 3.25              | 88                | 1.42 | <b>25684</b> |
| 3/4" | 3.25              | 112               | 2.90 | <b>25685</b> |

#### PG - Size (protective / steel-reinforced pipe)

| Size  | Wall thickness mm | Bending radius mm | kg  | No.          |
|-------|-------------------|-------------------|-----|--------------|
| 16 mm | 1.5               | 88                | 1.4 | <b>25664</b> |
| 20 mm | 1.2               | 80                | 1.4 | <b>25620</b> |
| 32 mm | 1.2               | 80                | 1.4 | <b>25620</b> |

## Draw-bending



#### Symbols

- L1, L2 = Leg length
- b = Lay out length
- L = Total length of the pipe piece
- L<sub>w</sub> = Distance / pipe end - wall
- A<sub>w</sub> = Distance wall - pipe middle
- L<sub>M</sub> = Minimum Length\*
- L<sub>R</sub> = Reserve Length\*

### 45°-Arc



$$L = L_1 + L_2$$

$$b = L_1 - L_R$$

### 90°-Arc



$$L = L_1 + L_2 - L_M$$

$$b = L_1 - L_R$$

### Calculation Examples TUBE BENDER MAXI

#### Specifications:

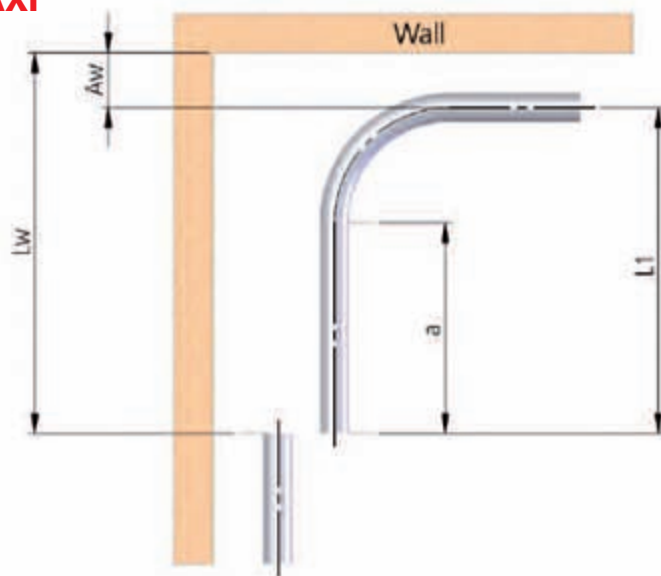
Installation in corner areas  
 $L_W = 1200$  mm  
 $A_W = 30$  mm  
 Pipe- $\varnothing$  12 mm, 90°-Arch

#### Sought after:

Leg length  $L_1$   
 Applied size  $b$

#### Solution:

Summary from the TUBE BENDER MAXI bending table



**Leg length**  $L_1 = L_W - A_W = 1200 - 30 = 1.170$  mm  
**Applied size**  $b = L_1 - L_R = 1170 - 7,5 = 1.162,5$  mm;  $L_R$  .. Tabular value

| TUBE BENDER                    |                          | at 45°                     |                            | at 90°                     |                            | at 180°                    |                            |
|--------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| for $\varnothing$<br>mm / inch | Bending radius<br>R (mm) | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm |
| 4,75/5                         | 20,0                     | 4,5                        | 1,0                        | 4,5                        | 10,0                       | -                          | -                          |
| 6                              | 23,5                     | 5,0                        | 1,2                        | 5,0                        | 11,5                       | -                          | -                          |
| 8                              | 28,0                     | 7,0                        | 1,4                        | 7,0                        | 14,0                       | -                          | -                          |
| 9                              | 30,0                     | 7,0                        | 1,5                        | 7,0                        | 15,0                       | -                          | -                          |
| 10                             | 34,0                     | 7,5                        | 1,8                        | 7,5                        | 17,5                       | -                          | -                          |
| 12                             | 37,5                     | 8,5                        | 1,9                        | 8,5                        | 19,0                       | -                          | -                          |
| 3/16"                          | 20,0                     | 4,5                        | 1,0                        | 4,5                        | 10,0                       | -                          | -                          |
| 1/4"                           | 23,5                     | 5,0                        | 1,2                        | 5,0                        | 11,5                       | -                          | -                          |
| 5/16"                          | 28,0                     | 7,0                        | 1,4                        | 7,0                        | 14,0                       | -                          | -                          |
| 3/8"                           | 34,0                     | 7,5                        | 1,8                        | 7,5                        | 17,5                       | -                          | -                          |
| 1/2"                           | 37,5                     | 8,5                        | 1,9                        | 8,5                        | 19,0                       | -                          | -                          |

| TUBE BENDER MAXI               |                          | at 45°                     |                            | at 90°                     |                            | at 180°                    |
|--------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| for $\varnothing$<br>mm / inch | Bending radius<br>R (mm) | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm |
| 12                             | 35,0                     | 0,8                        | 10,0                       | 7,5                        | 35,0                       | -                          |
| 14                             | 42,5                     | 0,9                        | 12,5                       | 9,0                        | 42,5                       | -                          |
| 15                             | 48,5                     | 1,1                        | 14,0                       | 10,5                       | 48,5                       | -                          |
| 16                             | 49,0                     | 1,1                        | 14,5                       | 10,5                       | 49,0                       | -                          |
| 18                             | 74,0                     | 1,7                        | 22,0                       | 16,0                       | 74,0                       | -                          |
| 22                             | 87,0                     | 1,9                        | 25,5                       | 18,5                       | 87,0                       | -                          |
| 3/8"                           | 35,0                     | 0,8                        | 10,0                       | 7,5                        | 35,0                       | -                          |
| 1/2"                           | 35,0                     | 0,8                        | 10,0                       | 7,5                        | 35,0                       | -                          |
| 5/8"                           | 49,0                     | 1,1                        | 14,5                       | 10,5                       | 49,0                       | -                          |
| 3/4"                           | 74,0                     | 1,7                        | 22,0                       | 16,0                       | 74,0                       | -                          |
| 7/8"                           | 87,0                     | 1,9                        | 25,5                       | 18,5                       | 87,0                       | -                          |

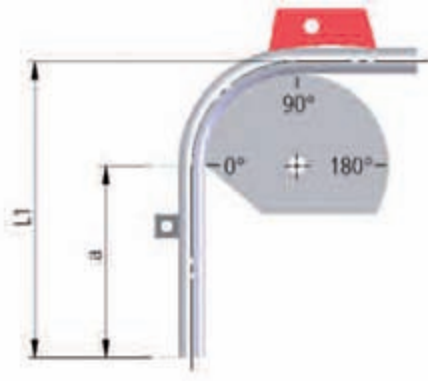
| TUBE BENDER MAXI CT         |                          | at 45°                     |                            | at 90°                     |                            | at 180°                    |
|-----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| $\varnothing$ / $W_s$<br>mm | Bending radius<br>R (mm) | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm | Minimum length<br>$L_M$ mm | Reserve length<br>$L_R$ mm |
| 10 x 0,6                    | 42,5                     | 0,8                        | 12,5                       | 9,0                        | 42,5                       | -                          |
| 12 x 0,6                    | 49,0                     | 1,1                        | 14,5                       | 10,5                       | 49,0                       | -                          |
| 15 x 0,7                    | 74,0                     | 1,7                        | 22,0                       | 16,0                       | 74,0                       | -                          |
| 18 x 0,7                    | 87,0                     | 1,9                        | 25,5                       | 18,5                       | 87,0                       | -                          |

\*All sizes listed are standards and are dependant on the material and the wall thickness. Bending specific sizes based on the bending radius - tabular value

# Bending

## Bending Tables

### Pull-bending



#### Symbols

- L1, L2 = Leg length
- a = Lay out length
- L = Total length of the pipe piece
- L<sub>w</sub> = Distance / pipe end - wall
- A<sub>w</sub> = Distance wall - pipe middle
- L<sub>M</sub> = Minimum Length\*
- L<sub>R</sub> = Reserve Length\*

#### 45°-Arc



$$L = L_1 + L_2$$

$$a = L_1 - L_R$$

#### 90°-Arc



$$L = L_1 + L_2 - L_M$$

$$a = L_1 - L_R$$

#### 180°-Arc



$$L = L_1 + L_2 + L_M$$

$$a = L_1 - L_R$$

### Calculation Examples ROBEND® 3000

#### Specifications:

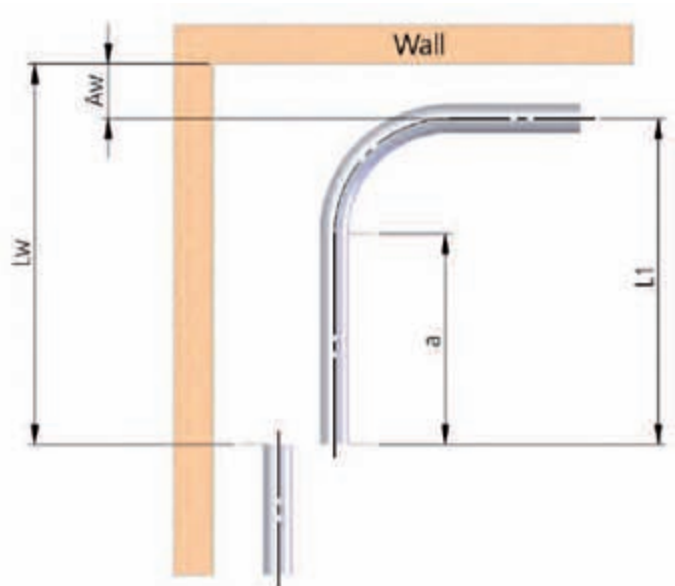
- Installation in corner areas
- L<sub>w</sub> = 1200 mm
- A<sub>w</sub> = 30 mm
- Pipe-Ø 12 mm, 90°-Arch

#### Sought after:

- Leg length L<sub>1</sub>
- Applied size a

#### Solution:

Summary from the ROBEND® 3000 bending table



Leg length  $L_1 = L_w - A_w = 1200 - 30 = 1.170 \text{ mm}$   
 Applied size  $a = L_1 - L_R = 1170 - 42 = 1.128 \text{ mm}; L_R \dots \text{Tabular value}$



# Bending

## Bending Tables

| <b>H&amp;W Plus</b> |                          |                                     | <b>at 45°</b>                       |                                     | <b>at 90°</b>                       |                                     | <b>at 180°</b>                      |  |
|---------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| Ø / Ws<br>mm / inch | Bending radius<br>R (mm) | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm |  |
| 8                   | 22                       | 9                                   | -                                   | 22                                  | 9,5                                 | 22                                  | 47                                  |  |
| 10                  | 32                       | 12                                  | -                                   | 32                                  | 15,0                                | 32                                  | 34                                  |  |
| 12                  | 38                       | 15                                  | -                                   | 40                                  | 20,0                                | 38                                  | 39                                  |  |
| 14                  | 45                       | 17                                  | -                                   | 44                                  | 22,0                                | 44                                  | 51                                  |  |
| 15                  | 45                       | 17                                  | -                                   | 44                                  | 22,0                                | 44                                  | 51                                  |  |
| 16                  | 64                       | 25                                  | -                                   | 67                                  | 30,0                                | 68                                  | 65                                  |  |
| 18                  | 64                       | 25                                  | -                                   | 67                                  | 30,0                                | 68                                  | 65                                  |  |
| 20                  | 81                       | 30                                  | -                                   | 85                                  | 40,0                                | 86                                  | 83                                  |  |
| 22                  | 81                       | 30                                  | -                                   | 85                                  | 40,0                                | 86                                  | 83                                  |  |
| 5/16"               | 22                       | 9                                   | -                                   | 22                                  | 9,5                                 | 22                                  | 47                                  |  |
| 3/8"                | 32                       | 12                                  | -                                   | 32                                  | 20,0                                | 32                                  | 34                                  |  |
| 1/2"                | 38                       | 15                                  | -                                   | 40                                  | 22,0                                | 38                                  | 39                                  |  |
| 5/8"                | 64                       | 25                                  | -                                   | 67                                  | 30,0                                | 68                                  | 65                                  |  |
| 3/4"                | 81                       | 30                                  | -                                   | 85                                  | 40,0                                | 86                                  | 83                                  |  |
| 7/8"                | 81                       | 30                                  | -                                   | 85                                  | 40,0                                | 86                                  | 83                                  |  |

| <b>MINIBEND</b>     |                          |                                     | <b>at 45°</b>                       |                                     | <b>at 90°</b>                       |                                     | <b>at 180°</b>                      |  |
|---------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| Ø / Ws<br>mm / inch | Bending radius<br>R (mm) | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm |  |
| 6                   | 25.0                     | 10.4                                | 1.0                                 | 22.0                                | 10.0                                | 22.0                                | 26.0                                |  |
| 8                   | 24.0                     | 9.9                                 | 1.0                                 | 32.0                                | 15.0                                | 32.0                                | 34.0                                |  |
| 10                  | 23.0                     | 9.5                                 | 1.0                                 | 32.0                                | 15.0                                | 32.0                                | 34.0                                |  |
| 1/4"                | 25.0                     | 10.4                                | 1.0                                 | 22.0                                | 10.0                                | 22.0                                | 26.0                                |  |
| 5/16"               | 24.0                     | 9.9                                 | 1.0                                 | 32.0                                | 15.0                                | 32.0                                | 34.0                                |  |
| 3/8"                | 23.0                     | 9.5                                 | 1.0                                 | 32.0                                | 15.0                                | 32.0                                | 34.0                                |  |

| <b>Standard Bender</b> |                          |                                     | <b>at 45°</b>                       |                                     | <b>at 90°</b>                       |                                     | <b>at 180°</b>                      |  |
|------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| for Ø<br>mm / inch     | Bending radius<br>R (mm) | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm |  |
| 6                      | 18.0                     | 7.0                                 | 0.8                                 | 18.5                                | 8.0                                 | 18.5                                | 20.0                                |  |
| 8                      | 24.0                     | 9.5                                 | 1.0                                 | 24.0                                | 12.0                                | 24.0                                | 27.0                                |  |
| 10                     | 30.0                     | 11.5                                | 1.3                                 | 30.5                                | 14.5                                | 30.5                                | 34.0                                |  |
| 12                     | 36.0                     | 14.0                                | 1.5                                 | 36.5                                | 15.0                                | 36.5                                | 37.5                                |  |
| 14                     | 47.5                     | 18.5                                | 2.0                                 | 48.5                                | 20.5                                | 48.5                                | 52.5                                |  |
| 15                     | 54.0                     | 21.0                                | 2.3                                 | 56.0                                | 24.5                                | 56.0                                | 58.0                                |  |
| 16                     | 58.0                     | 22.5                                | 2.5                                 | 64.0                                | 28.5                                | 64.0                                | 67.0                                |  |
| 18                     | 66.0                     | 25.5                                | 2.8                                 | 68.0                                | 31.0                                | 68.0                                | 72.0                                |  |
| 1/4"                   | 18.0                     | 7.0                                 | 0.8                                 | 18.5                                | 8.0                                 | 18.5                                | 20.0                                |  |
| 5/16"                  | 24.0                     | 9.5                                 | 1.0                                 | 24.0                                | 12.0                                | 24.0                                | 27.0                                |  |
| 3/8"                   | 30.0                     | 11.5                                | 1.3                                 | 30.5                                | 14.5                                | 30.5                                | 34.0                                |  |
| 1/2"                   | 42.0                     | 16.5                                | 1.8                                 | 49.5                                | 22.5                                | 49.5                                | 53.0                                |  |
| 5/8"                   | 58.0                     | 22.5                                | 2.5                                 | 64.0                                | 28.5                                | 64.0                                | 67.0                                |  |

| <b>MULTIBEND</b> |                          |                                     | <b>at 45°</b>                       |                                     | <b>at 90°</b>                       |                                     | <b>at 180°</b>                      |  |
|------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| for Ø<br>mm      | Bending radius<br>R (mm) | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm |  |
| 8                | 24.0                     | 9.5                                 | 1.0                                 | 24.0                                | 10.0                                | 24.0                                | 26.0                                |  |
| 10               | 30.0                     | 12.0                                | 1.3                                 | 30.5                                | 14.5                                | 30.5                                | 32.5                                |  |
| 12               | 36.0                     | 14.0                                | 1.5                                 | 36.5                                | 15.5                                | 36.5                                | 37.5                                |  |
| 14               | 42.0                     | 16.5                                | 1.8                                 | 42.0                                | 19.5                                | 42.5                                | 44.0                                |  |
| 15               | 48.0                     | 19.0                                | 2.0                                 | 48.0                                | 22.0                                | 48.0                                | 53.0                                |  |
| 16               | 48.0                     | 19.0                                | 2.0                                 | 48.0                                | 22.0                                | 48.0                                | 53.0                                |  |
| 18               | 54.0                     | 21.0                                | 2.3                                 | 54.0                                | 26.0                                | 54.5                                | 58.0                                |  |

| <b>ROBEND® 3000</b> |        |                          | <b>at 45°</b>                       |                                     | <b>at 90°</b>                       |                                     | <b>at 180°</b>                      |                                     |
|---------------------|--------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| for Ø<br>mm / inch  | Pipe   | Bending radius<br>R (mm) | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm | Reserve length<br>L <sub>R</sub> mm | Minimum length<br>L <sub>M</sub> mm |
| 12                  |        | 42.0                     | 16                                  | -                                   | 42                                  | 24                                  | 42                                  | 68                                  |
| 14                  | wated  | 52.5                     | 21                                  | -                                   | 53                                  | 30                                  | 53                                  | 87                                  |
| 15                  |        | 52.5                     | 21                                  | -                                   | 53                                  | 30                                  | 53                                  | 87                                  |
| 17                  | wated  | 72.0                     | 28                                  | -                                   | 72                                  | 41                                  | 72                                  | 107                                 |
| 18                  |        | 72.0                     | 28                                  | -                                   | 72                                  | 41                                  | 72                                  | 107                                 |
| 20                  | wated  | 88.5                     | 35                                  | -                                   | 89                                  | 51                                  | 89                                  | 121                                 |
| 22                  |        | 88.0                     | 35                                  | -                                   | 88                                  | 50                                  | 88                                  | 119                                 |
| 24                  | wated  | 112.0                    | 43                                  | -                                   | 110                                 | 62                                  | 110                                 | 144                                 |
| 28                  |        | 112.0                    | 44                                  | -                                   | 112                                 | 64                                  | 112                                 | 148                                 |
| 30                  | wated  | 112.0                    | 45                                  | -                                   | 114                                 | 66                                  | 114                                 | 152                                 |
| 3/8"                | steel  | 80.0                     | 31                                  | -                                   | 80                                  | 46                                  | 80                                  | 103                                 |
| 1/2"                | copper | 45.0                     | 18                                  | -                                   | 45                                  | 26                                  | 45                                  | 74                                  |
| 1/2"                | steel  | 88.0                     | 35                                  | -                                   | 88                                  | 50                                  | 88                                  | 119                                 |
| 5/8"                | copper | 56.0                     | 23                                  | -                                   | 56                                  | 32                                  | 56                                  | 93                                  |
| 3/4"                | steel  | 112.0                    | 43                                  | -                                   | 112                                 | 64                                  | 112                                 | 148                                 |
| 3/4"                | copper | 80.0                     | 31                                  | -                                   | 80                                  | 46                                  | 80                                  | 103                                 |
| 7/8"                | copper | 88.0                     | 35                                  | -                                   | 88                                  | 50                                  | 88                                  | 119                                 |
| 1"                  | copper | 112.0                    | 44                                  | -                                   | 112                                 | 64                                  | 112                                 | 148                                 |
| 1.1/8"              | copper | 112.0                    | 45                                  | -                                   | 114                                 | 66                                  | 114                                 | 152                                 |

\*All sizes listed are standards and are dependant on the material and the wall thickness. Bending specific sizes based on the bending radius - tabular value





# Bonding

## Expanding, Extracting, Flaring

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# Bonding

## Expanding Manual

### ROCAM® EXPANDER Power Torque

For expanding, reducing and calibrating soft and semi-hard pipes  $\varnothing$  8 - 42 mm (5/16 - 1.3/4"), as well as producing tapers



#### Product Profile

##### APPLICATION AREA

For efficient, fitting-free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems

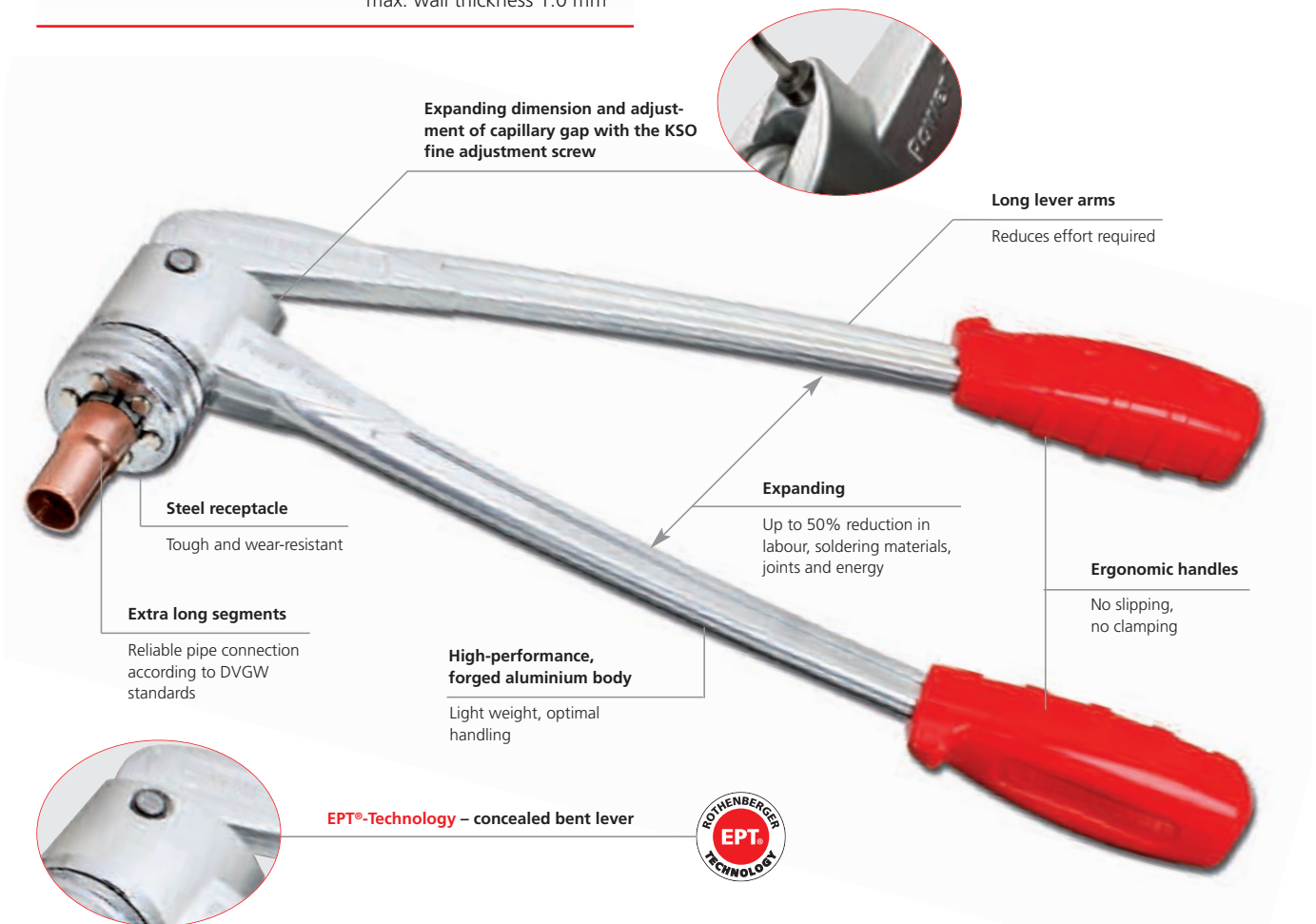
Suitable for pipes made of:

|                                    |  |
|------------------------------------|--|
| <b>Copper (soft and semi-hard)</b> | $\varnothing$ 8 - 42 mm, 5/16 - 1.3/4"<br>max. wall thickness 1.6 mm |
| <b>Aluminium (soft):</b>           | $\varnothing$ 8 - 28 mm, 5/16 - 1.1/8"<br>max. wall thickness 1.6 mm |
| <b>Precision steel (soft):</b>     | $\varnothing$ 8 - 28 mm, 5/16 - 1.1/8"<br>max. wall thickness 1.6 mm |
| <b>Stainless steel (soft):</b>     | $\varnothing$ 8 - 22 mm, 5/16 - 7/8"<br>max. wall thickness 1.0 mm   |

##### KEY FEATURES

- Eliminates the cost of purchase and storage of fittings
- Converts deformed pipes into fittings; saves resources
- 50% reduction of labour, soldering materials, joints and energy
- Reliable pipe connection according to DVGW standards
- Tough, light and wear-resistant
- Fine adjustment of the capillary gap

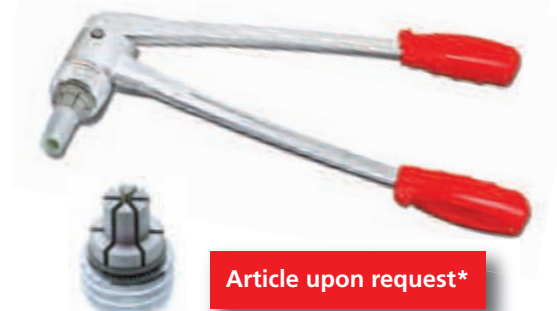
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### ROCAM® PE-X EXPANDER Power Torque

For expanding and calibrating PE-X and aluminium multi-layered composite pipe (MSR) up to  $\varnothing$  42 mm or 1 3/4", as well as producing tapers

Expander heads coordinates with system pipes, for example the following systems: ROTEX, SCHELL, TECE / TECEflex, Vulkan-Lokring among others



Article upon request\*



|   |             |       |     |
|---|-------------|-------|-----|
| Model                                       | Achievement | kg    | No. |
| ROCAM® EXPANDER PE-X without expander heads | 1           | 12005 |     |

\* Feasibility, delivery times and price for custom pipe- $\varnothing$  are available upon request

### ROCAM® EXPANDER Power Torque Sets



ROCAM® EXPANDER Power Torque sets include: Expander heads, ROCAM® EXPANDER Power Torque (No. 12000), with expander heads, internal and external deburrer (No. 11006), in a steel carrying case (No. 24022)

#### ROCAM® EXPANDER Power Torque Sets

| Description                          |  |  | No.          |
|--------------------------------------|---|---|--------------|
| 12 - 15 - 18 - 22 mm                 | 1   | 2.9   | <b>12300</b> |
| 10 - 12 - 15 - 18 - 22 mm            | 1   | 3.3   | <b>12302</b> |
| 12 - 15 - 18 - 22 - 28 mm            | 1   | 3.3   | <b>12303</b> |
| 10 - 12 - 16 - 18 - 22 mm            | 1   | 3.3   | <b>12304</b> |
| 10 - 12 - 16 - 22 - 28 mm            | 1   | 3.3   | <b>12305</b> |
| 12 - 14 - 16 - 18 - 22 mm            | 1   | 3.3   | <b>12309</b> |
| 12 - 14 - 16 - 18 - 22 - 28 mm       | 1   | 3.3   | <b>12310</b> |
| 10 - 12 - 14 - 16 - 18 - 22 mm       | 1   | 3.6   | <b>12311</b> |
| 3/8 - 1/2 - 5/8 - 3/4 - 1"           | 1   | 3.3   | <b>12317</b> |
| 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8" | 1   | 3.6   | <b>12318</b> |
| 1/2 - 5/8 - 3/4 - 7/8"               | 1   | 2.9   | <b>12321</b> |
| 12 - 16 - 18 - 22 - 28 mm            | 1   | 3.2   | <b>12322</b> |
| 3/8 - 1/2 - 3/4 - 1"                 | 1   | 3.2   | <b>12323</b> |
| 1/2 - 5/8 - 7/8 - 1.1/8"             | 1   | 3.0   | <b>12324</b> |
| 1/2 - 5/8 - 7/8"                     | 1   | 3.2   | <b>12325</b> |
| 12 - 15 - 18 - 22 - 28 - 35 - 42 mm  | 1   | 4.2   | <b>12326</b> |
| 15 - 22 - 28 mm                      | 1   | 2.9   | <b>12327</b> |
| 15 - 22 mm                           | 1   | 2.5   | <b>12328</b> |
| 1/2 - 3/4 - 1"                       | 1   | 2.9   | <b>12335</b> |
| 10 - 12 - 15 - 16 - 18 - 22 - 28 mm  | 1   | 3.6   | <b>12337</b> |
| 12 - 14 - 16 - 18 - 22 - 28 - 32 mm  | 1   | 3.7   | <b>12338</b> |
| 15 - 18 - 22 - 28 - 35 - 42 mm       | 1   | 4.0   | <b>12339</b> |



#### ROCAM® EXPANDER Power Torque Sets

| Description   |  |  | No.          |
|---|---|---|--------------|
| 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"  | 1   | 3.7   | <b>12336</b> |
| 3/8 - 1/2 - 5/8 - 3/4" - 22 - 28 mm   | 1   | 3.6   | <b>12320</b> |
| 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"                                      | 1   | 4.5   | <b>12341</b> |
| Expander tool (without expander heads)<br>for expander heads up to 42 mm / 1.3/4" | 1   | 1.0   | <b>12000</b> |

Quality protection against wear with the **TiN sealed pin drive**



#### EPT®-Technology (Enclosed Power Transmission)

The expander head offers the following technical benefits:

##### Concealed bent lever:

Protection against dirt and external mechanical damage

##### Energy efficient through optimised force transmission:

Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort





For efficient, fitting-free installation of pipes



### ACCESSORIES



| Description                                    |  | Description  |  |
|--|---|--|---|
| Expander heads standard                        | <b>84</b>   | Expander adaptor type S                              | <b>86</b>   |
| Expander heads type S / riveted expander heads | <b>86</b>   | Brazing solder                                       | <b>169 - 171</b>  |
| Pipe cutter                                    | <b>12 - 30</b>  | High-Performance torch (SUPER FIRE 3 with MAPP®-GAS) | <b>140 - 141</b>  |
| Internal / External deburrer                   | <b>31</b>   |  |   |

# Bonding

## Expanding Manual

### Standard Expander Head

For producing standard precision flares  $\varnothing 8 - 42$  mm (5/16 - 1.3/4") according to DVGW standards; as well as meet the specifications for the Gas de France

**Made in Germany!**  
The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years!

#### Product Profile

##### KEY FEATURES

- 50% reduction in labour, soldering materials and soldered joints
- Depth of the flare is consistent with DVGW standards
- Guide guarantees a perfect centred position and uniform capillary gap
- Tough and long lasting with the hardened segments

Expansion of pipe ends

Reduction



4



Fits similar expanders from other brands as well!

#### Specially hardened segments

Tough and long lasting

#### Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

#### Extra long segments

Depth of the flare is consistent with DVGW standards



| mm | Wall thickness mm |     |     |      | A mm | g   | No.   |
|----|-------------------|-----|-----|------|------|-----|-------|
|    | Cu                | Al  | Fe  | Inox |      |     |       |
| 8  | 1.0               | 1.0 | 1.0 | 1.0  | 6.0  | 120 | 11008 |
| 10 | 1.0               | 1.0 | 1.0 | 1.0  | 10.0 | 120 | 11010 |
| 12 | 1.2               | 1.2 | 1.2 | 1.0  | 12.6 | 120 | 11012 |
| 14 | 1.2               | 1.2 | 1.2 | 1.0  | 12.6 | 120 | 11014 |
| 15 | 1.2               | 1.2 | 1.2 | 1.0  | 15.5 | 120 | 11015 |
| 16 | 1.2               | 1.2 | 1.2 | 1.0  | 15.5 | 120 | 11016 |
| 18 | 1.2               | 1.2 | 1.2 | 1.0  | 17.5 | 120 | 11018 |
| 20 | 1.2               | 1.2 | 1.2 | 1.0  | 17.5 | 140 | 11020 |
| 22 | 1.2               | 1.5 | 1.5 | 1.0  | 20.5 | 140 | 11022 |
| 28 | 1.5               | 1.5 | 1.5 | -    | 18.5 | 390 | 11028 |
| 30 | 1.5               | 1.5 | -   | -    | 19.5 | 390 | 11030 |
| 32 | 1.5               | -   | -   | -    | 19.5 | 410 | 11032 |
| 35 | 1.6               | -   | -   | -    | 19.5 | 430 | 11035 |
| 38 | 1.6               | -   | -   | -    | 19.5 | 450 | 11038 |
| 40 | 1.5               | -   | -   | -    | 19.5 | 470 | 11040 |
| 42 | 1.5               | -   | -   | -    | 19.5 | 470 | 11042 |

| Zoll   | Wall thickness mm |     |     |      | A mm | g   | No.   |
|--------|-------------------|-----|-----|------|------|-----|-------|
|        | Cu                | Al  | Fe  | Inox |      |     |       |
| 5/16"  | 1.0               | 1.0 | 1.0 | 1.0  | 6.0  | 120 | 11008 |
| 3/8"   | 1.0               | 1.0 | 1.0 | 1.0  | 7.4  | 120 | 11052 |
| 1/2"   | 1.2               | 1.2 | 1.2 | 1.0  | 11.0 | 120 | 11053 |
| 5/8"   | 1.2               | 1.2 | 1.2 | 1.0  | 14.0 | 120 | 11054 |
| 3/4"   | 1.2               | 1.2 | 1.2 | 1.0  | 18.1 | 120 | 11055 |
| 7/8"   | 1.2               | 1.2 | 1.2 | 1.0  | 18.0 | 140 | 11056 |
| 1"     | 1.5               | 1.5 | 1.5 | -    | 15.8 | 150 | 11057 |
| 1.1/8" | 1.6               | 1.6 | 1.6 | -    | 17.0 | 390 | 11058 |
| 1.1/4" | 1.6               | -   | -   | -    | 17.0 | 410 | 11059 |
| 1.3/8" | 1.6               | -   | -   | -    | 17.0 | 430 | 11035 |
| 1.1/2" | 1.6               | -   | -   | -    | 17.0 | 450 | 11038 |
| 1.5/8" | 1.6               | -   | -   | -    | 17.5 | 470 | 11062 |
| 1.3/4" | 1.6               | -   | -   | -    | 17.5 | 500 | 11063 |

Availability, delivering time and price of custom products for other pipe diameters available upon request

### Suitable for ROTHENBERGER Expander



| Model                                 |         | Model                                 |    |
|---------------------------------------|---------|---------------------------------------|----|
| ROCAM® EXPANDER Power Torque          | 82      | Electro-Hydraulic Expander Pistol H 2 | 91 |
| ROMAX® EXPANDER Compact               | 88 - 89 | COMBI KIT Expander / Tee-Extractor    | 93 |
| Electro-Hydraulic Expander Pistol H 1 | 91      |                                       |    |



### EXPANDER A0

For expanding, reducing and calibrating thick walled pipes  $\varnothing$  22 - 64 mm (1.3/8 - 2.1/8") as well as the production of tapers

#### Product Profile

##### APPLICATION AREA

For efficient, fitting-free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems

Suitable for pipes made of:

**Copper and Aluminium:**  $\varnothing$  22 - 64 mm, 7/8 - 2.1/2" max. wall thickness 2.5 mm

**Precision steel (soft):**  $\varnothing$  22 - 54 mm, 7/8 - 2.1/8" max. wall thickness 1.5 mm  
**and Stainless steel per DVGW-GW541**

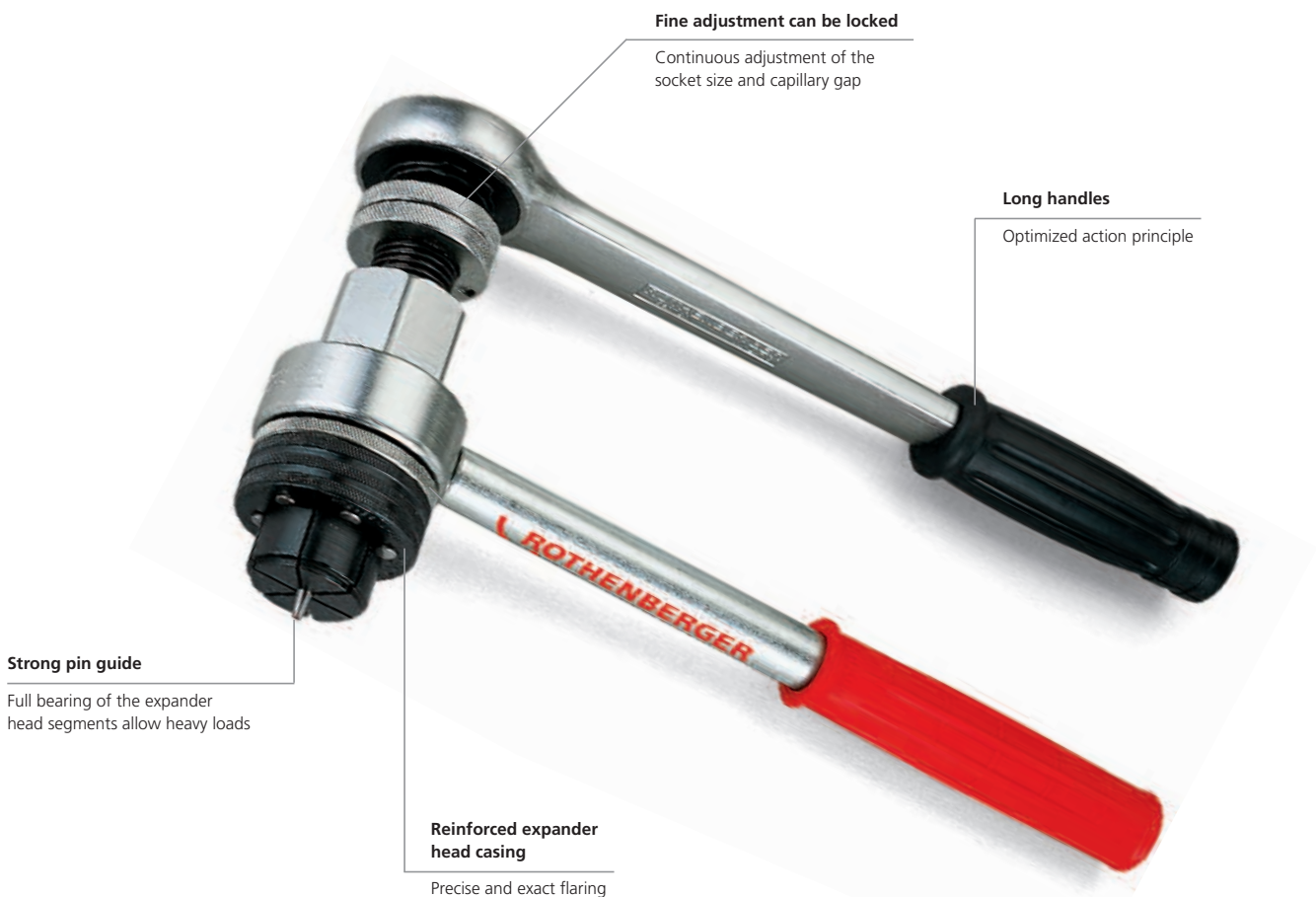
#### Functional Elements:

Expander A0 with a tightly guided and reinforced, long expander head, matches to the expander head Type S!

#### KEY FEATURES

- Application and savings advantages similar to ROCAM® EXPANDER power torque
- Precise and exact flaring
- Full bearing of the expander head segments allows heavy loads
- Continuous adjustment of the socket size and capillary gap
- Optimized action principle with long handles

4



EXPANDER A0 sets (No. 11400) include: Expander head Type S, special ratchet (No. 27181), in steel case (No. 27210)

EXPANDER A0 Basic Unit (No. 11004) scope of delivery: Square drive mechanism 3/4" with handle, without expander head and ratchet

| Model                  | Size                 | kg   | No.   |
|------------------------|----------------------|------|-------|
| EXPANDER A0 set        | 35 - 42 - 54 - 64 mm | 8.12 | 11400 |
| EXPANDER A0 basic unit |                      | 1.97 | 11004 |



Fig. EXPANDER A0 Set

# Bonding

## Expanding Manual

### Expander Head Type S

For the precise expansion of normal and thick walled pipes  $\varnothing$  22 - 67 mm (7/8 - 2.1/2") and 2.5 mm wall thickness



Accurate guidance of the segments through the reinforced expander head casing

| mm | max. Wall thickness |     |     |      | A - size<br>mm | g   | No.          |
|----|---------------------|-----|-----|------|----------------|-----|--------------|
|    | Cu                  | Al  | Fe  | Inox |                |     |              |
| 22 | 2.0                 | 2.0 | 1.5 | 1.5  | 18.5           | 350 | <b>11323</b> |
| 25 | 2.0                 | 2.0 | 1.5 | 1.5  | 18.5           | 350 | <b>11325</b> |
| 28 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 360 | <b>11328</b> |
| 32 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 380 | <b>11332</b> |
| 34 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 400 | <b>11334</b> |
| 35 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 400 | <b>11335</b> |
| 36 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 400 | <b>11336</b> |
| 40 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 430 | <b>11340</b> |
| 42 | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 450 | <b>11342</b> |
| 52 | 2.5                 | 2.5 | 1.5 | 1.5  | 19.5           | 540 | <b>11345</b> |
| 54 | 2.5                 | 2.5 | 1.5 | 1.5  | 19.5           | 570 | <b>11346</b> |
| 64 | 2.5                 | 2.5 | -   | -    | 19.5           | 690 | <b>11348</b> |
| 67 | 2.5                 | 2.5 | -   | -    | 19.5           | 730 | <b>11380</b> |

| inch   | max. Wall thickness |     |     |      | A - size<br>mm | g   | No.          |
|--------|---------------------|-----|-----|------|----------------|-----|--------------|
|        | Cu                  | Al  | Fe  | Inox |                |     |              |
| 7/8"   | 2.0                 | 1.5 | 1.5 | 1.5  | 18.5           | 350 | <b>11375</b> |
| 1"     | 2.0                 | 2.0 | 1.5 | 1.5  | 18.5           | 350 | <b>11376</b> |
| 1.1/8" | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 360 | <b>11358</b> |
| 1.1/4" | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 380 | <b>11332</b> |
| 1.3/8" | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 400 | <b>11335</b> |
| 1.1/2" | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 430 | <b>11338</b> |
| 1.5/8" | 2.0                 | 2.0 | 1.5 | 1.5  | 19.5           | 450 | <b>11362</b> |
| 2"     | 2.0                 | 2.0 | 1.5 | 1.5  | 17.0           | 540 | <b>11364</b> |
| 2.1/8" | 2.5                 | 2.5 | 1.5 | 1.5  | 17.0           | 570 | <b>11346</b> |
| 2.1/2" | 2.5                 | 2.5 | -   | -    | 17.0           | 690 | <b>11348</b> |

Availability, delivery time and price of custom products for other pipe diameters available on request

4



### Expander Adaptor Type S

To increase the application area of the ROCAM® EXPANDER Power Torque and Expander Pistol H1



Allows the use of the expander heads Type S with copper pipe (soft) up to 67 mm and/or 2.1/2"!

| Model                                 | max.           | max. mm | g   | No.          |
|---------------------------------------|----------------|---------|-----|--------------|
| Adaptor Type S, without expander head | 67 mm - 2.1/2" | 2.0     | 630 | <b>11007</b> |

### Flanged Riveted Expander Heads

For use with the ROCAM® EXPANDER, ROCAM® EXPANDER Compact Standard and EXPANDER Pistol H1



| Product Profile  |     |                             |                                   |     |              |
|--|-----|-----------------------------|-----------------------------------|-----|--------------|
| KEY FEATURES   |     |                             |                                   |     |              |
| For producing exact hose connections, for example vibrating power units in   |     |                             |                                   |     |              |
| <ul style="list-style-type: none"> <li>● Air-conditioning technology</li> <li>● Auto manufacturing</li> <li>● Industrial applications</li> </ul> |     |                             |                                   |     |              |
| mm   | mm  | outer dia.-<br>Flange<br>mm | Distance<br>Flange<br>pipe end mm | g   | No.          |
| 15   | 1,5 | 18                          | 4                                 | 110 | <b>11955</b> |
| 18   | 1,5 | 21                          | 4                                 | 110 | <b>11958</b> |
| 22   | 1,5 | 25                          | 6                                 | 120 | <b>11962</b> |
| 28   | 1,5 | 31                          | 6                                 | 370 | <b>11968</b> |
| 35   | 1,5 | 38                          | 6                                 | 400 | <b>11975</b> |
| 38   | 1,5 | 41                          | 6                                 | 430 | <b>11978</b> |

Availability, delivery time and price of custom products for other pipe diameters available on request

### STEP Expander A1

For expanding, reducing and calibrating thick walled pipes, Ø 35 – 108 mm (1.3/8" - 4.1/8"), as well as the production of tapers

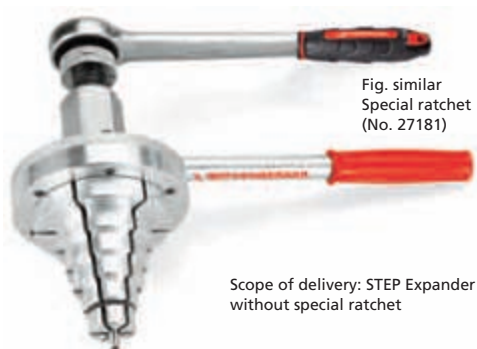


Fig. similar Special ratchet (No. 27181)

Scope of delivery: STEP Expander with handle, without special ratchet

| Size   | kg  | No.          |
|--|-----|--------------|
| 42 - 54 - 64 - 76,1 - 88,9 - 108 mm            | 4,2 | <b>11086</b> |
| 35 - 42 - 54 - 64 - 76 - 108 mm                | 3,9 | <b>11087</b> |
| 35 - 42 - 54 - 67 - 80 - 104 mm                | 3,9 | <b>11089</b> |
| 1.3/8 - 1.5/8 - 2.1/8 - 2.5/8 - 3.1/8 - 4.1/8" | 4,2 | <b>11078</b> |
| 1.1/4 - 4"                                     | 3,8 | <b>11093</b> |

Availability, delivery time and price of custom products for other pipe diameters available on request

#### Product Profile

#### APPLICATION AREA

For efficient, fitting-free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems

**Suitable for pipes made of:**  
**Copper and aluminium:** Ø 35 - 108 mm, 1.3/8" - 4.1/8"  
**(soft)** max. wall thickness 2.5 mm

#### KEY FEATURES

- Affordable alternative when laying larger pipe dimensions with a considerable saving of soldering materials
- Expand without changing tools with the 6 size step Expander
- Full bearing of the expander head segments allows heavy loads
- Optimum adjustment of the socket size and capillary gap with the positive fine adjustment
- Optimised force transmission with the trapezoidal screw thread with self-lubricating bronze socket
- Guide guarantees a perfect centred position and uniform capillary gap with 6 rivets and guiding ridge



### ROMAX® EXPANDER AC ECO MAXI

Electro-hydraulic expander with constant axial thrust, 230 volt connection. For the expanding and calibrating of pipes up to Ø 108 mm (4.1/8"), as well as producing reductions



Made in Germany

#### Product Profile

#### APPLICATION AREA

**Suitable for pipes made of:**  
**Copper (soft, semi-soft)** Ø 35 - 108 mm  
**Aluminium:** (1.3/8" - 4.1/8")

#### KEY FEATURES

- Optimally suited for batch production and large building sites
- Constant thrust with CFT®-Technology
- User safety with the easy to reach emergency stop switch

#### KEY FEATURES

- Long service life and high functional safety
- The expansion / calibration takes place after pressing and holding the switch
- Large working radius with the 5 m long cable

#### TECHNICAL DATA

**Weight:** ca. 13.7 kg  
**Motor:** 230 V / 50 Hz

Article available upon request\*!

**Balanced weight distribution**

Secure hold in every working position, ideal for one-handed use

**Emergency stop switch**

High user safety due to the interruption of the feed and the discharge of the expander head

**Fully automatic expanding process**

**6-fold step expander**

Expands without changing tools from 35 up to 108 mm (1.3/8" - 4.1/8")

**2. Switch directly within reach**

Various holding positions possible, even in confined spaces (over head)

**CFT®- Technology (Constant Force-Technologie)**

For a constant axial thrust

\*Availability, delivery time and price of custom products for other pipe diameters available on request





# Bonding

## Expanding Electric

### ROMAX® EXPANDER Compact

Compact, electro-hydraulic expander with a constant axial thrust of 19 kN and 12 Volt battery for portable operation, for expanding, reducing and calibrating of pipes up to Ø 67 mm (2.1/2")



**Made in Germany!**

#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

**Copper, aluminium (soft):** max. Ø 67 mm and/or 2.1/2"  
max. wall thickness 2 mm

**Aluminium and Precision steel (soft):** max. Ø 67 mm or 2.1/2"  
max. wall thickness 1 mm

**Stainless steel:** max. Ø 15 mm  
max. wall thickness 1 mm

##### KEY FEATURES

- Portable operation with the battery and AC adaptor (accessories)
- Increases the operating life of the expander head
- Constant axial thrust with CFT®-Technology

##### KEY FEATURES

- Accurate adjustment of the capillary gap
- Specially matched for expander heads Type Standard, Type S or PE-X for excellent expansion results
- User safety with the easy to reach emergency switch
- Reliable hold in any position

##### TECHNICAL DATA

|                             |  |
|-----------------------------|--|
| <b>Dimensions:</b>          | only 370 x 70 x 90 mm  |
| <b>Weight:</b>              | approx. 2.6 kg   |
| <b>Power supply:</b>        | Li-ion battery 14.4 V / 2.6 Ah<br>Mains adaptor 230 V / 50-60 Hz<br>110 V on request |
| <b>Working temperature:</b> | 0° up to + 40° C   |

4



**CFT®- Technology (Constant Force-Technology) for a constant axial thrust**

Expansion up to Ø 67 mm (copper)  
on Ø 15 mm (stainless steel)

##### Internal piston block

Increases the operating life of the expander head, only the actual power needed is conveyed to the expander head



##### Li-ion technology

Up to 100% more expansions\*

##### Tool free KSO adjustment possible

Accurate adjustment of the capillary gap

##### Matched pin for each type of expander head

Specially matched for the Expander heads, Type Standard, Type S or PE-X for excellent expansion results

##### Balanced weight distribution

Reliable hold in any position, ideal for one-handed operation

##### Emergency stop switch

High user safety with the immediate halt of the feed and reduction of the expander head load

##### Battery operation

Portable operation with battery and AC adaptor (accessories)

##### High savings potential

- Efficient, fitting-free installation of pipes in sanitary, heating, gas, refrigeration and air-conditioning systems
- Eliminates the cost of purchase and storage of fittings
- 50% reduction of soldering materials and energy

##### All-round application

- Expander head receiver is compatible with ROTHENBERGER expander heads
- Choice between the expander head standard, Type S or PE-X

\* in comparison to ROTHENBERGER NiMh battery



### ROMAX® EXPANDER Compact Basic Sets

**5-part** Basic Set I includes: ROMAX® EXPANDER Compact, 1 Li-ion battery 14.4 V / 2.6 Ah (No. 15418), quick-charger (No. 15017), in plastic carrying case (without expander heads)



All ROMAX® EXPANDER Compact with a Li-ion battery!

DUAL-POWER 14.4 or 230 Volt!

5 m cable length!

Large working radius



Fig. Power supply unit 230 V (accessory) with 5 m long cable (No. 15037)

Fig. Similar, ROMAX® EXPANDER Set Basic

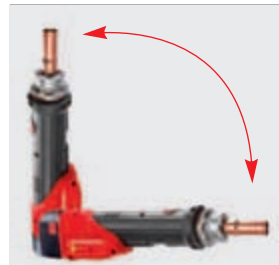
Universal adaptor for  
ROTHENBERGER Expander Heads



Compatible with  
ROTHENBERGER Expander Heads



Workbench function  
with the stable surface support



Emergency stop switch



| Description                                  | Description              |   |      | No.          |
|--|--------------------------|---|------|--------------|
| ROMAX® Expander Compact Basic Set I          | expander heads standard  | 1 | 1.11 | <b>15714</b> |
| ROMAX® Expander Compact Basic Set II         | expander heads type S    | 1 | 1.11 | <b>15715</b> |
| ROMAX® Expander Compact Basic Set III        | expander heads type PE-X | 1 | 1.11 | <b>15716</b> |
| Expander heads / PE-X expander heads see  92 |                          |   |      |              |

### ACCESSORIES



| Description                                 | No.          | Description                          |                  | No. |
|---|--------------|--------------------------------------|------------------|-----|
| ROMAX® EXPANDER Compact replacement battery | <b>15418</b> | Internal / External deburrer         | <b>31</b>        |     |
| ROMAX® EXPANDER Compact charger 230 V       | <b>15017</b> | Brazing (SUPER FIRE 3 mit MAPP®-GAS) | <b>140 - 141</b> |     |
| ROMAX® EXPANDER Compact power supply        | <b>15037</b> | Brazing solder                       | <b>169 - 171</b> |     |
| Pipecutter                                  | <b>15016</b> | Plastic case with formed inlay       | <b>015016L</b>   |     |

# Bonding

## Expanding Hydraulic

### Hydraulic Expander System H 600

For expanding, reducing and calibrating normal and thick walled pipes in batch production, as well as the production of tapers

Made in Germany!



#### Product Profile

##### APPLICATION AREA

Suitable for normal and thick walled pipes made of:  
**Copper and aluminium:** Ø 8 - 110 mm, 5/16 - 4.1/4" max. wall thickness 3.0 mm  
**Precision and stainless steel:** Ø 8 - 110 mm, 5/16 - 4.1/4" max. wall thickness 3.0 mm

##### KEY FEATURES

- Individual modular design
- Industrial quality expansions
- Proper and efficient handling of material

##### TECHNICAL DATA

**Rated power:** 1.2 kW  
**Rated current:** 2.1 A  
**Operating pressure:** 80 - 600 bar  
**Max. operating pressure:** 700 bar  
**Delivery capacity:** 0.82 l / min  
**Safety category:** IP 54  
**Actuation:** 400 V / 1200 W

4



Scope of delivery (No. 13100) includes: Electro-Hydraulic Expander System H 600 complete with hydraulic unit H 600 (No. 13002), expander pistol H 1 (No. 12001), control cable, hydraulic hose 2.5 m with circuit points, adjusting tool, tool rack (No. 13023), safety foot pedal and hydraulic oil 1 l (No. 58185). (without expander heads)  
 Scope of delivery (No. 13002) includes: Electro-hydraulic unit H 600 with safety foot pedal, adjusting tool, tool rack (No. 13023), and hydraulic oil 1 l (No. 58185). (Without expander heads)

| Model                                    | kg   | No.          |
|--|------|--------------|
| Hydraulic System complete, without heads | 36.0 | <b>13100</b> |
| Hydraulic Tool H 600                     | 33.1 | <b>13002</b> |
| Foot pedal H 600 with 3 m cable          | 0.5  | <b>12013</b> |



### Electro-Hydraulic Expander Pistol H1

#### Product Profile

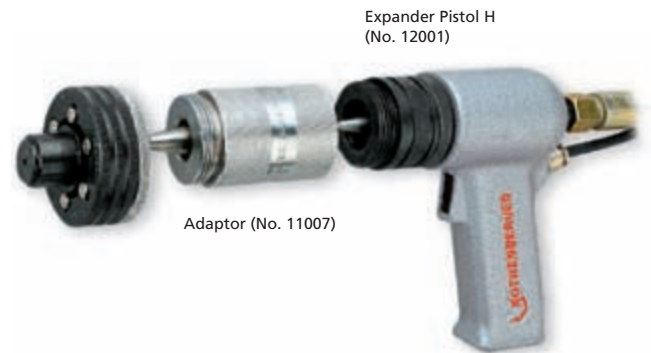
##### APPLICATION AREA

**Expander heads Standard:** Ø 8 - 42 mm, 5/16 - 1.3/4" up to 1.6 mm wall thickness

**Expander heads Type S (with adaptor No. 11007)** Ø 22 - 67 mm, 7/8 - 2.1/2" up to 2.5 mm wall thickness

Scope of delivery: 2.5 m control cable (No. F88928), hydraulic hose (No. 12023), Adjusting tool (No. 12017), hydraulic oil 1 l (No. 58185)

| Model                                 | kg  | No.          |
|---------------------------------------|-----|--------------|
| Electro-Hydraulic Expander Pistol H 1 | 2.9 | <b>12001</b> |
| S-Head adaptor for H 1                | 0.6 | <b>11007</b> |
| Adjusting tool for H 1                | 0.9 | <b>12017</b> |



4



### Electro-Hydraulic Expander Pistol H2

For use with Electro-Hydraulic Unit H 600

#### Product Profile

##### APPLICATION AREA

**Expander heads Type S: with adaptor (No. 12097)** Ø 22 - 67 mm, 7/8 - 2.1/2" up to 2.5 mm wall thickness

**Expander heads H 2: Type 2** Ø 28 - 70 mm, 1.1/8 - 2.3/4" up to 2.5 mm wall thickness

**Expander heads H 2: Type 3** Ø 70 - 110 mm, 2.3/4 - 4.1/4" up to 3.0 mm wall thickness

Scope of delivery: Electro-Hydraulic Expander Pistol, 2.5 m control cable, hydraulic hose with quick coupling for H 600 and adjusting tool (without expander heads)

| Model                                 | kg  | No.          |
|---------------------------------------|-----|--------------|
| Electro-Hydraulic Expander Pistol H 2 | 7.5 | <b>12002</b> |
| Expander heads H2/Type 2, 28-70 mm    | 2.5 | <b>12078</b> |
| Expander heads H2/Type 3, 70-100 mm   | 3.0 | <b>12080</b> |
| S-head adaptor for H 2                | 1.1 | <b>12097</b> |
| Adjusting tool für H2                 | 0.9 | <b>12018</b> |

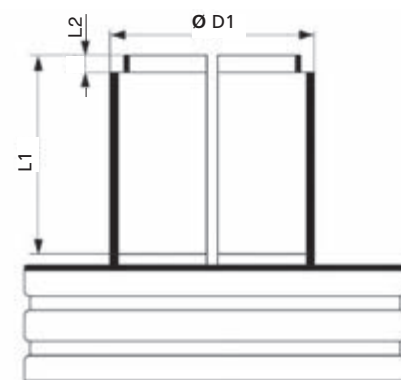


### Custom-Made Products\* Riveted Expander Heads H2

Only one head necessary for every pipe diameter.

**When ordering, please fill out form and state the applicable dimensions L1 / L2 / D1**

**\* Availability, delivery time and price available on request!**



Examples of a custom order

# Bonding

## Accessories Expanding

### Expander-Adaptor Type S

To increase the application area of the ROCAM® EXPANDER Power Torque, EXPANDER Pistol H1/H2, EXPANDER A0/A1 and ROMAX EXPANDER Compact

Allows the use of the expander heads Type S with copper pipe (soft) up to 67 mm and/or 2.1/2"!



No. 11007 Expander adaptor for ROCAM® EXPANDER Power Torque or EXPANDER Pistol H1



No. 12097 Expander adaptor for EXPANDER Pistol H2

| Model                                  | max.                | max. mm | kg  | No.          |
|--|---------------------|---------|-----|--------------|
| Adaptor Type S, without expander heads | 67 mm and/or 2.1/2" | 2,0     | 0.6 | <b>11007</b> |
| Adaptor Type S, without expander heads | 67 mm and/or 2.1/2" | 2,5     | 1.1 | <b>12097</b> |



|   | Expander Head Standard | Expander Head Type S | Riveted Expander Head | Expander Head PE-X | Expander Head H2, Type 2 & 3 | Stepped Expander Head |
|---|------------------------|----------------------|-----------------------|--------------------|------------------------------|-----------------------|
| <p>ROCAM® EXPANDER Power Torque</p>               | ●                      |                      | ●                     | ●<br>No. 12005     | ○                            | ○                     |
| <p>EXPANDER A0</p>                                | ○                      | ●                    | ○                     | ○                  | ○                            | ○                     |
| <p>EXPANDER A1</p>                                | ○                      | ○                    | ○                     | ○                  | ○                            | ●                     |
| <p>ROMAX® EXPANDER Compact</p>                    | ●                      | No. 15714            | ●                     | ●                  | ○                            | ○                     |
|   | No. 15714              | No. 15715            | No. 15714             | No. 15716          |                              |                       |
| <p>ROMAX® EXPANDER AC ECO MAXI</p>                | ○                      | ○                    | ○                     | ○                  | ○                            | ●                     |
| <p>EXPANDER Pistol H1</p>                         | ●                      |                      | ●                     | ○                  | ○                            | ○                     |
| <p>EXPANDER Pistol H2</p> <p>Similar to photo</p> | ○                      |                      | ○                     | ○                  | ●                            | ○                     |

● Expander head without adaptor can be used      ○ Expander head can not be used      Fig.: Can be used with the appropriate adaptor (pictured)

### COMBI KIT Expander / Tee-Extractor

Practical, compact and cost-saving set combinations with ROCAM® EXPANDER Power Torque and Tee-Extractors. For all common pipe dimensions Ø 12 - 28 mm (1/2 - 1.1/8")

#### Made in Germany!

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years!



#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

**Copper, aluminium**

**and steel (soft):** Ø 12 - 28 mm and 1/2 - 1.1/8"

##### KEY FEATURES

- Increases safety by reducing the number of connections
- Suitable for making branches even in confined spaces through the compact design

##### KEY FEATURES

- Fine adjustment of the capillary gap using the KSO-screw
- Reduces effort required and increases work space
- Up to 67% reduction of soldering materials and soldered joints
- Accurate drilling
- Saves resources by converting scrap pipes into fittings
- Reliable pipe connections to DVGW standards

4



EPT®-Technology

Concealed bent lever

Largest possible expansion size and capillary gap using the adjustable KSO-screw



#### Professional Extractions

Up to 67% reduction of soldering materials and soldered joints

#### Long handles

Reduces effort required and increases work space

#### Utilisation of material

Saves resources by converting scrap pipes into fittings

#### UNIDRILL® Automatic 28 / 42

Accurate drilling

No. 21583 /  
No. 21575

#### Scale and cam depth adjustment



#### Extractor Cam Pincer

Limits insertion depth for Ø 12 - 42 mm (1/2 - 1.5/8")

No. 22080

COMBI KIT Set includes: ROCAM® EXPANDER Power Torque (No. 12000), Standard expander heads, tee-extractor, special ratchet (No. 22081), UNIDRILL® Automatic 28 (No. 21583), extractor cam pincer (No. 22080), steel carrying case (No. 24022)

| Model     | Description              | kg  |   | No.     |
|-----------|--------------------------|-----|---|---------|
| COMBI KIT | 12 - 15 - 18 - 22 mm     | 4.4 | 1 | 011180X |
| COMBI KIT | 12 - 14 - 16 - 18 mm     | 2.6 | 1 | 011186X |
| COMBI KIT | 1/2 - 5/8 - 7/8 - 1.1/8" | 2.8 | 1 | 011194X |
| COMBI KIT | 1/2 - 3/4 - 1"           | 2.5 | 1 | 011195X |





# Bonding

## Extracting Manual

### Tee-Extractor Sets

For efficient production of T-branches (extractions) for fitting-free pipe installations, Ø 12 - 42 mm (3/8 - 2.1/8")

#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

**Copper (soft, semi-, hard):** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

**Aluminium:** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

**Precision steel:** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

#### Made in Germany!

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years!



##### KEY FEATURES

- Eliminates the cost for T-pieces, purchase and storage of fittings
- Extractions even on installed pipes possible
- Accurate drilling
- Optimal positioning with the cam pincher depth adjustment

##### Scale and cam depth adjustment



**Extractor Cam Pincer**

Limits insertion depth for Ø 12 - 42 mm (1/2 - 1.5/8")

No. 22081



Limits the insertion depth

Optimal positioning

No pipe removal

Extractions even on installed pipes possible

Optimum capillary gap

Professional extractions

**UNIDRILL® Automatic 28 / 42**

Accurate drilling



No. 21583 / No. 21575

Tee-Extractor sets include: Tee-Extractor according to chart, special ratchet (No. 22081), cam pincer (No. 22080) and special conical drill, UNIDRILL Automatic 42 (No. 21575), in steel carrying case (No. 24022)



| Model   | Description | kg  |   | No.          |
|---|-------------|-----|---|--------------|
| Tee-Extractor set 12 - 15 - 18 - 22 mm                |             | 3.4 | 1 | <b>22100</b> |
| Tee-Extractor set 12 - 15 - 22 - 28 mm                |             | 3.6 | 1 | <b>22101</b> |
| Tee-Extractor set 10 - 12 - 15 - 18 - 22 mm           |             | 3.5 | 1 | <b>22102</b> |
| Tee-Extractor set 12 - 14 - 16 - 18 - 22 mm           |             | 3.6 | 1 | <b>22109</b> |
| Tee-Extractor set 10 - 12 - 14 - 16 - 18 - 22 mm      |             | 3.7 | 1 | <b>22111</b> |
| Tee-Extractor set 12 - 15 - 18 - 22 - 28 - 35 - 42 mm |             | 5.5 | 1 | <b>22126</b> |
| Tee-Extractor set 15 - 22 - 28 mm                     |             | 3.6 | 1 | <b>22127</b> |
| Tee-Extractor set 1/2 - 5/8 - 3/4 - 7/8"              |             | 3.4 | 1 | <b>22121</b> |
| Tee-Extractor set 1/2 - 5/8 - 7/8 - 1.1/8"            |             | 3.7 | 1 | <b>22124</b> |
| Tee-Extractor set 1/2 - 3/4 - 1"                      |             | 3.3 | 1 | <b>22135</b> |

### Tee-Extractor

Tee-Extractor with double v-block for accurate 90° branches, Ø 10 - 54 mm (3/8 - 2.1/8")

#### Product Profile

#### KEY FEATURES

- Uniform and proper material extraction without scratches or burrs
- Burr-free operation with the specially polished extractor hooks
- Easy insertion into the drilled hole with the special trapezoidal screw thread
- Accurate and firm positioning for exact 90° branches

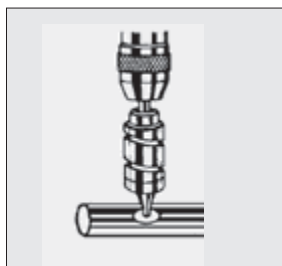
| mm /inch | mm  | Drill Ø mm | SW mm | g    | No.          |
|----------|-----|------------|-------|------|--------------|
| 10       | 1.0 | 6          | 11    | 130  | <b>22010</b> |
| 12       | 1.0 | 7          | 11    | 150  | <b>22012</b> |
| 14       | 1.0 | 8          | 11    | 160  | <b>22014</b> |
| 15       | 1.0 | 8          | 11    | 160  | <b>22015</b> |
| 16       | 1.0 | 8          | 11    | 220  | <b>22016</b> |
| 18       | 2.0 | 10         | 11    | 220  | <b>22018</b> |
| 22       | 2.0 | 12         | 11    | 350  | <b>22022</b> |
| 28       | 2.5 | 15         | 11    | 470  | <b>22028</b> |
| 32       | 2.5 | 19         | 11    | 700  | <b>22032</b> |
| 35       | 2.5 | 22         | 11    | 700  | <b>22035</b> |
| 38       | 2.5 | 22         | 11    | 700  | <b>22038</b> |
| 42       | 2.5 | 26         | 11    | 890  | <b>22042</b> |
| 54       | 2.5 | 30         | 19    | 1380 | <b>22054</b> |
| 3/8"     | 1.0 | 6          | 11    | 110  | <b>22060</b> |
| 1/2"     | 1.0 | 7          | 11    | 140  | <b>22061</b> |
| 5/8"     | 1.0 | 8          | 11    | 220  | <b>22016</b> |
| 3/4"     | 2.0 | 10         | 11    | 220  | <b>22062</b> |
| 7/8"     | 2.0 | 12         | 11    | 350  | <b>22063</b> |

Hexagon ■ Square

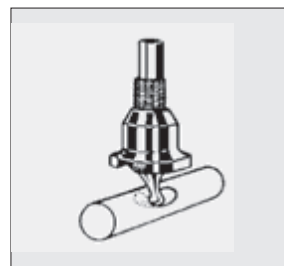
| mm | g   | No.          |
|----|-----|--------------|
| 10 | 60  | <b>22210</b> |
| 12 | 70  | <b>22212</b> |
| 14 | 90  | <b>22214</b> |
| 15 | 90  | <b>22215</b> |
| 16 | 140 | <b>22216</b> |
| 18 | 140 | <b>22218</b> |
| 22 | 210 | <b>22222</b> |
| 28 | 220 | <b>22228</b> |
| 32 | 260 | <b>22232</b> |
| 35 | 290 | <b>22235</b> |
| 38 | 290 | <b>22268</b> |
| 42 | 320 | <b>22242</b> |
| 54 | 560 | <b>22254</b> |

| inch   | g   | No.          |
|--------|-----|--------------|
| 3/8"   | 60  | <b>22260</b> |
| 1/2"   | 70  | <b>22261</b> |
| 5/8"   | 140 | <b>22216</b> |
| 3/4"   | 140 | <b>22263</b> |
| 7/8"   | 200 | <b>22264</b> |
| 1"     | 210 | <b>22265</b> |
| 1.1/8" | 220 | <b>22266</b> |
| 1.1/4" | 270 | <b>22267</b> |
| 1.3/8" | 290 | <b>22235</b> |
| 1.1/2" | 290 | <b>22268</b> |
| 1.5/8" | 320 | <b>22270</b> |
| 2"     | 520 | <b>22246</b> |
| 2.1/8" | 560 | <b>22254</b> |

Precise drilling of the pipe without a centre punch – drill stop prevents perforation of the pipe



Insert extractor hook into the drilled hole and screw the bell firmly against the drill hole



#### Double V-block

Accurate and firm positioning for exact 90° branches



#### Specially polished, forged and tempered extractor hooks

Burr-free operation

#### Special hook design

Easy insertion into the drilled hole



Ratchet adaptor with No. 22050 / 22054 included in scope of delivery (square, 3/4")

| mm / Zoll | mm  | Drill-Ø mm | SW mm | g    | No.          |
|-----------|-----|------------|-------|------|--------------|
| 1"        | 2.5 | 14         | 11    | 470  | <b>22064</b> |
| 1.1/8"    | 2.5 | 15         | 11    | 480  | <b>22065</b> |
| 1.1/4"    | 2.5 | 19         | 11    | 700  | <b>22066</b> |
| 1.3/8"    | 2.5 | 22         | 11    | 700  | <b>22035</b> |
| 1.1/2"    | 2.5 | 22         | 11    | 700  | <b>22038</b> |
| 1.5/8"    | 2.5 | 26         | 11    | 900  | <b>22068</b> |
| 2"        | 2.5 | 30         | 19    | 1380 | <b>22050</b> |
| 2.1/8"    | 2.5 | 30         | 19    | 1380 | <b>22054</b> |

#### Accessories

|                        |               |
|------------------------|---------------|
| Socket 19 mm           | <b>F80053</b> |
| Square connection 3/4" | <b>F80054</b> |

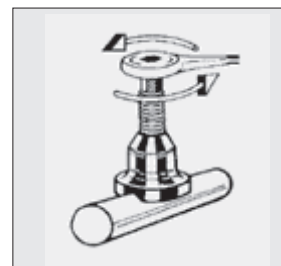
### Spare Extractor Hooks

Forged hooks, specially polished, tempered from Ø 10 - 54 mm (3/8 - 2.1/8")

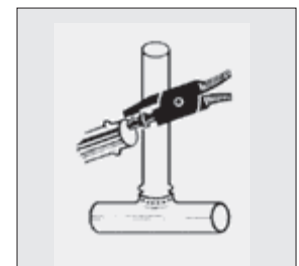


Note: For copper pipes (soft), the use of an extractor support is recommended ( 96)!

Using the ratchet, turn the extractor to the left, while paying attention that the v-block is seated securely



After extraction, set correct insertion depth (dependant on pipe Ø) with cam pincer



Simply calibrate the tee Ø on the UNIDRILL Automatic and the drilled hole Ø will automatically correspond to the extractor hook required



# Bonding

## Accessories Extracting Manual

### Tee-Extractor Ratchet

Chrome vanadium steel, fine toothed and right/left reversible



No. 22081



No. 27181

| Model                    | SW     | g    | No.          |
|--------------------------|--------|------|--------------|
| 10 - 42 mm, 3/8 - 1.3/4" | 11 mm  | 435  | <b>22081</b> |
| 54 - 70 mm, 2 - 2.3/4"   | 3/4" ■ | 1140 | <b>27181</b> |

### Extractor Cam Pincer

#### KEY FEATURES

- Identification point marks insertion depth exactly and prevents over-insertion
- Cam depth adjustment wheel with scale



| mm      | Zoll         | mm  | g   | No.          |
|---------|--------------|-----|-----|--------------|
| 12 - 42 | 1/2 - 1.5/8" | 150 | 170 | <b>22080</b> |

### EVERCOOL

#### Drill and extraction paste

#### KEY FEATURES

- Longer tool life
- All-purpose use except for drinking water installation
- Suitable for aluminium and precision steel
- Easy application with the integrated pen for applying the paste



| Description | Content | g  | No.          |
|-------------|---------|----|--------------|
| EVERCOOL    | 50 g    | 80 | <b>21549</b> |

### UNIDRILL® Automatic 28 / 42

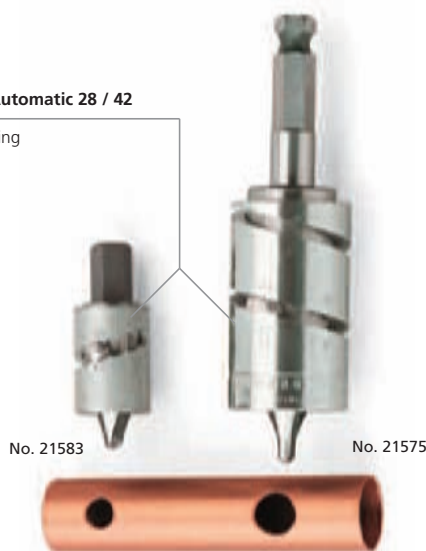
#### HSS special conical drill

#### KEY FEATURES

- Fast, burr-free drilling
- Precise location without need for centre punch special drill tip
- Calibrated drill Ø automatically corresponds to the correct extractor hook and branch size
- Drill stop prevents damage to pipe walls

#### UNIDRILL® Automatic 28 / 42

Accurate drilling



No. 21583

No. 21575

| Model        | mm      | inch         | SW | g   | No.          |
|--------------|---------|--------------|----|-----|--------------|
| UNIDRILL® 28 | 10 - 28 | 3/8 - 1.1/8" | 11 | 110 | <b>21583</b> |
| UNIDRILL® 42 | 10 - 42 | 3/8 - 1.5/8" | 11 | 430 | <b>21575</b> |

### Extractor Support

#### KEY FEATURES

- Prevents deformation during extraction, especially for soft pipe material



#### Extractor support plates

Prevents deformation during extraction

| Mainpipe | Branchpipe | g   | No.          |
|----------|------------|-----|--------------|
| 22 mm    | 20 mm      | 250 | <b>22157</b> |
| 28 mm    | 25 mm      | 300 | <b>22158</b> |
| 1/2"     | 3/8"       | 120 | <b>22170</b> |
| 5/8"     | 1/2"       | 170 | <b>22153</b> |
| 3/4"     | 5/8"       | 250 | <b>22172</b> |
| 7/8"     | 3/4"       | 250 | <b>22157</b> |
| 1.1/8"   | 1"         | 300 | <b>22158</b> |



### Precision Double Flaring Press DB 10

For standard precision expands according to DIN 74234  
 Ø 4.75 - 10 mm, wall thickness 0.7 - 1.0 mm

#### Product Profile

#### APPLICATION AREA

On copper, aluminium and steel pipes, seamless pipe and double-walled pipes, for example Bundy® pipe, and KUNIFER brake pipes

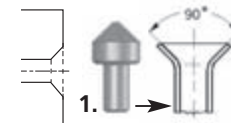
#### KEY FEATURES

- Ideal for endless pipes
- For several flaring profiles, wall thickness 0.7 - 1 mm
- Universal use with the pluggable pressure cone
- Accurate and reproducible results
- Clamping block for several pipe diameters
- Reliable hold with the 25 mm pipe clamping length
- Suitable for clamping in a vice

Formation of the various flares made possible with the appropriate flaring attachments

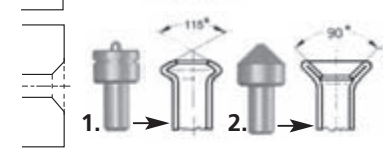
#### E- contour, simple flare:

- Standard flaring contour



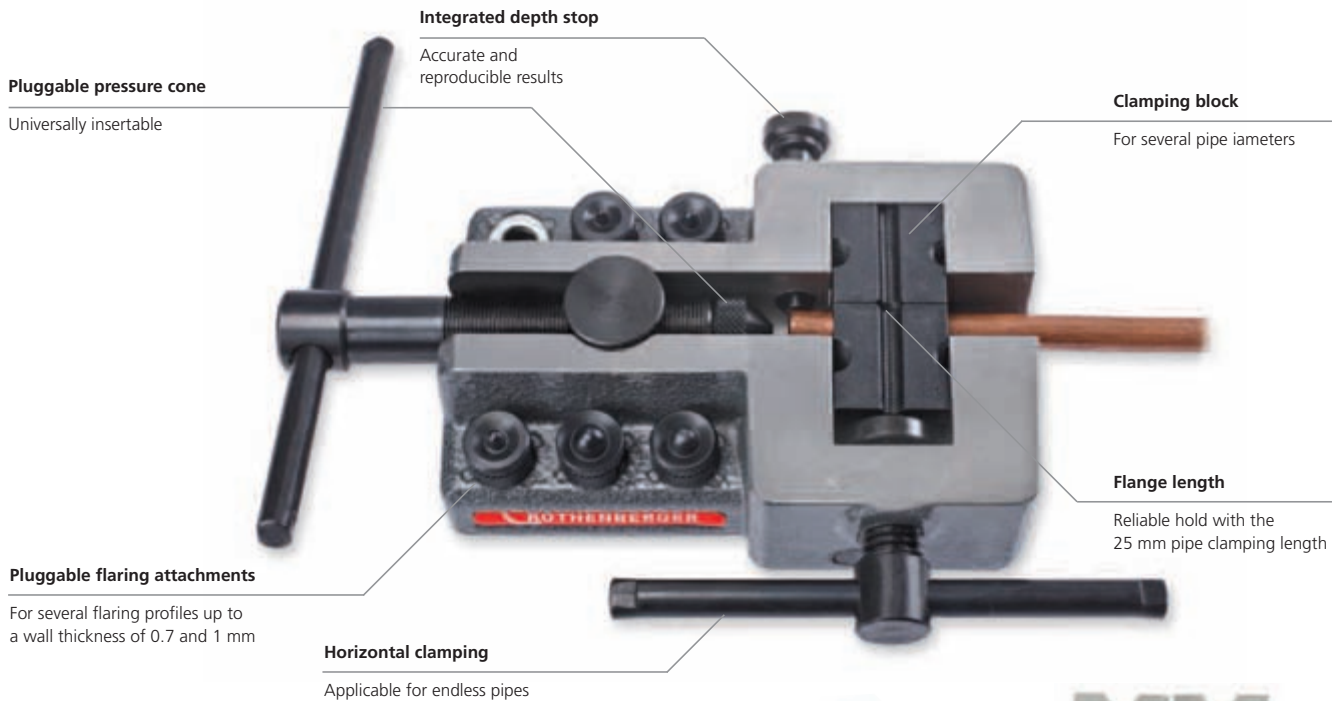
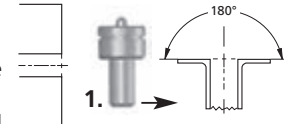
#### D-contour, double flare:

- Extension of brake and/or hydraulic lines
- Connection by means of coupling rings, sealed by means of flaring surface



#### 180° flares:

- Mounting using coupling ring, for example hydraulic transmission valve and / or distributor block
- Seal between drill-hole and flaring surface



Set (No. 26013) includes: Basic tool with pressure cone (No. 26010), flaring attachments, 1 set of clamping blocks (No. 26011)

| Description                     | mm                           | kg   | No.          |
|---------------------------------|------------------------------|------|--------------|
| DB 10 set                       | 4,75 - 5 - 6 - 8 - 9 - 10 mm | 2.64 | <b>26013</b> |
| Flaring attachments 4,75 / 5 mm |                              | 0.20 | <b>26001</b> |
| Flaring attachments 6 mm        |                              | 0.20 | <b>26002</b> |
| Flaring attachments 8 mm        |                              | 0.20 | <b>26003</b> |
| Flaring attachments 9 mm        |                              | 0.20 | <b>26004</b> |
| Flaring attachments 10 mm       |                              | 0.20 | <b>26005</b> |

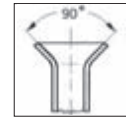
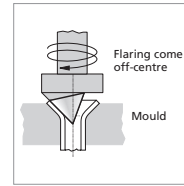
| Description   | mm | kg  | No.          |
|---|----|-----|--------------|
| Pressure cone   |    | 20  | <b>26010</b> |
| Clamping spindle  |    | 90  | <b>26015</b> |
| Flaring spindle   |    | 300 | <b>26016</b> |
| Distance bolt   |    | 30  | <b>26017</b> |
| Set of clamping blocks (2 pc.) for Pipes 4,75 - 5 - 6 - 8 - 9 - 10 mm |    | 190 | <b>26011</b> |

# Bonding

## Flaring

### Reeling Flaring Tool

For producing precision 45° single flares on copper pipes  
 Ø 6 - 18 mm (1/8 - 3/4")



E-contur  
single flare

#### Product Profile

#### KEY FEATURES

- Controlled expanding and shaping of the pipe without tearing
- No reduction in wall thickness
- No slipping of the pipe
- Sturdy and long lasting

4



#### Flare cone rotates off-centre in needle bearings

Controlled expanding and shaping of the pipe end without tearing

#### Square connection

For manual operation, for example cordless screwdriver

#### Spring-loaded slide coupling

No reduction in wall thickness

No. 222401, No. 222402,  
No. 222403

#### Made from forged steel

Tough and long-lasting

#### Self-centring die

Highest flare precision

Adaptor for  
cordless screwdriver

Die available in metric  
and imperial sizes

Pipe will not slip



Reeling Flaring Tool set includes: Reeling Flaring Tool in plastic case with mould in metric and/or imperial format

| Description   | mm / inch | No.           |
|---|-----------|---------------|
| Set EB 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm             |           | <b>222401</b> |
| 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"          |           |               |
| Set EB 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"   |           | <b>222402</b> |
| Set EB 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm             |           | <b>222403</b> |
| <b>Dies</b>   |           |               |
| metric 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm             |           | <b>222413</b> |
| imperial 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4" |           | <b>222412</b> |

### Ratchet Reeling Flaring Tool

For the production of precise, simple 45° flares on copper pipes Ø 6 - 18 mm (1/8 - 3/4")

#### Product Profile

#### KEY FEATURES

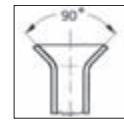
- Controlled expanding and shaping of the pipe without tearing
- Smooth ratchet functions makes re-gripping unnecessary
- No reduction in wall thickness
- No slipping of the pipe
- Sturdy and long lasting

#### Flare cone rotates off-centre in needle bearings

Flare cone rotates off-centre in needle bearings  
Controlled expanding and shaping of the pipe end without tearing

Reeling Flaring Tool set includes: Reeling flaring tool, die in metric or imperial size, plastic carrying case

| Die      | mm / inch  | No.           |
|----------|--|---------------|
| metric   | 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm           | <b>222405</b> |
| imperial | 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4" | <b>222404</b> |



E-contur single flare



#### Quick and easy operation

Smooth ratchet functions makes re-gripping unnecessary

#### Made of forged steel

Sturdy and long lasting

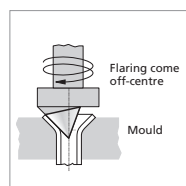
Setting right- / left-hand rotation



### Universal Flaring Tool

For producing precision 45° single flares on copper pipes Ø 4 - 16 mm (3/16 - 5/8")

- Universal application and highest flare precision through self-centring pipe clamp for all diameters
- Controlled flaring without tearing, forming perfect surfaces
- Hardened flare cone with special geometry



Single flare

Universal Flaring Tool set (No. 222601) includes: Universal Flaring Tool for pipe diameters 4 - 16 mm, 3/16 - 5/8", in plastic case

| Model  | mm        | inch        | kg  | No.           |
|--------|-----------|-------------|-----|---------------|
| Set EB | 4 - 16 mm | 3/16 - 5/8" | 900 | <b>222601</b> |

### Flaring and Bending Set

Universal application in industry and small trade by sanitary and heating installations, refrigeration and air-conditioning technology, auto and hydraulic technology



Flaring and bending set (No. 26020) includes: MINICUT I, Ø 3 - 16 mm (No. 70401), internal and external deburrer, Ø 4 - 36 mm (No. 11006), double flare press DB 10 (No. 26013), TUBE BENDER set, Ø 4,75 - 10 mm (No. 24112), steel carrying case (No. 24022)

| Model                 | mm                        | kg  | No.          |
|-----------------------|---------------------------|-----|--------------|
| Flaring / Bending set | 4,75 - 5 - 6 - 8 - 9 - 10 | 5.5 | <b>26020</b> |



# Bonding

## System Overview Pressing Technology

### ROMAX® Press Machines – Made in Germany

For the bonding of pipes, ROTHENBERGER has developed a high-quality press technology system. Thanks to a platform strategy with high component similarity, the tools win over customers with their technology and safety. ROTHENBERGER pressing tools are developed and manufactured in Germany.

### ROTHENBERGER Pressing Technology Overview

|  | Compact   | Standard   |
|--|---|--|
| <b>4</b><br> |   |  |
| <b>Nominal size</b>  | For press connections of<br>Ø 12 - 40 mm (plastic/multi-layered)<br>and/or Ø 12 - 28 mm (metal)   | For press connections from Ø 12 - 110 mm<br>(system dependant)   |
| <b>Press machines</b>  | <p><b>ROMAX® Compact</b></p>  <p>starting on  102</p>  | <p><b>ROMAX® 3000</b></p>  <p>starting on  104</p> <p><b>ROMAX® AC ECO</b></p>  <p>starting on  106</p> |
| <b>Press jaws</b>  | <p><b>Compact Press Jaws</b></p>  <p>Ø 12-28 mm<br/>(metal)</p> <p>Ø 12-40 mm<br/>(plastic/multi-layered)</p> <p>starting on  107</p> | <p><b>Standard Press Jaws</b></p>  <p>Ø 12-54 mm</p> <p>starting on  108</p>   |
| <b>Interchangeable inserts / Pressing collars</b>  | <p><b>Press Jaws with Interchangeable Inserts</b></p>  <p>Ø 12-32 mm</p> <p>starting on  107</p>                                      | <p><b>Press Jaws with Pressing Collars</b></p>  <p>Ø 40-110 mm<br/>(system dependant)</p> <p>starting on  108</p>   |

## System Overview Pressing Technology

### ROTHENBERGER Constant Force Technology

The CFT® technology guarantees a constant axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections CFT® guarantees:

**ROMAX® Compact**  
19-21 kN for 10,000 press cycles

**ROMAX® AC ECO**  
32-34 kN for 10,000 press cycles

**ROMAX® 3000**  
32-34 kN for 20,000 press cycles



### Safety lock

No accidental release, since a 180° rotation is required

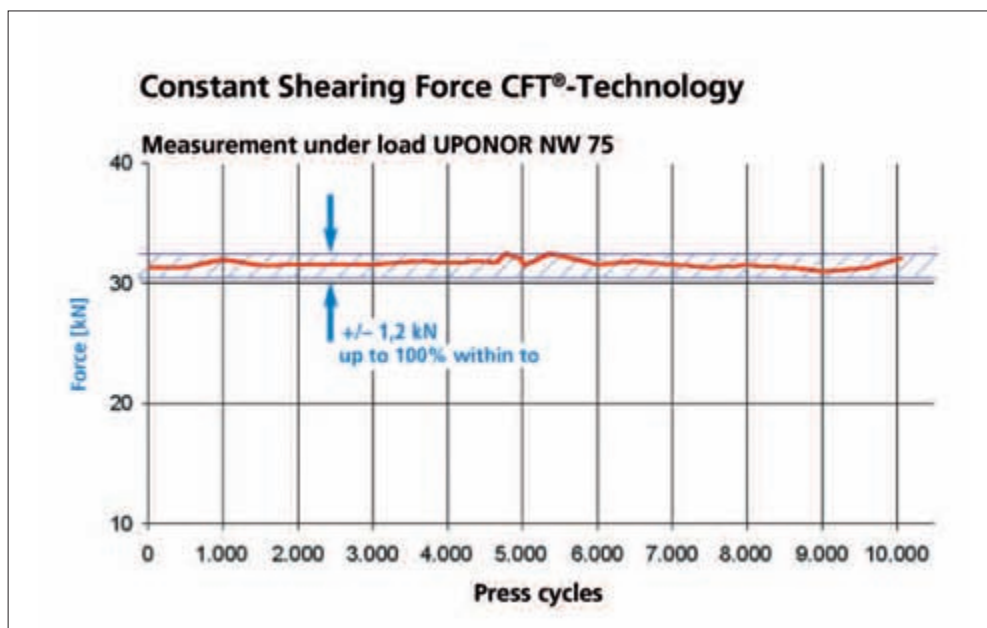


### Safe operation with the emergency-stop switch

All ROTHENBERGER press machines are equipped with an easily accessible emergency stop switch. By pushing the switch, the press cycle is immediately interrupted and the piston retracts automatically.



4



### System obligation

The user **is not forced** to purchase different press jaws and/or press machines for each system from the same system manufacturer. No law, no DIN-standard nor the DVGW process sheet requires system dependence. No craftsmen is obliged to use only the press tools or press jaws from one (fittings / pipe) system manufacturer



### ROTHENBERGER Li-Ion Technology

The pressing tools ROMAX® Compact and ROMAX® 3000 are equipped with the newest Li-ion technology. Li-ion batteries have many advantages compared to standard battery technology:

- High energy density - up to 100% more pressing per charge compared to the ROTHENBERGER NiMH battery
- Low weight - 30% weight savings
- Cold-resistant - even at near freezing temperatures
- Lowest self-discharge - can be stored up to 12 months
- No memory effect - can be charged at any time
- Constant energy from the first until the last pressing



### Controlled press cycle

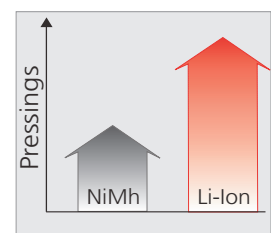
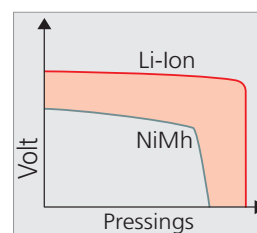
After reaching a predetermined pressing force the press cycle switches off automatically. The piston retracts after the necessary pressing forces has been reached. This guarantees uniform and reliable pressings analogue to the requirement of leading system manufacturers.



### Electronic control

The electronics of the ROMAX® Compact and the ROMAX® 3000 provide for a safe pressing cycle:

- Control of the battery charge status
- Safety start-inhibitor when the battery is too low
- LED display of the service interval and any error messages



# Bonding

## Press Machines Compact

### ROMAX® Compact

Electro-hydraulic press machine, for battery and mains operation for the pressing of fittings up to Ø 40 mm (plastic/multi-layer) and/or up to Ø 28 mm (metal) with 19 kN

**Made in Germany**

Please observe system characteristics/benefits on pages 100 - 101!

#### Product Profile

##### APPLICATION AREA

The ROMAX® Compact is extremely light, easy to hold and with its compact design it is perfect for field use, especially in confined spaces

##### KEY FEATURES

- Extremely light: only 2.6 kg
- Ergonomic thanks to the rubberised handle and balanced weight distribution
- For battery and mains operation
- Work-bench function
- Controlled press cycle
- Electric control with service counter and battery status indicator
- CFT®-Technology
- Safety lock
- Emergency stop switch

##### TECHNICAL DATA

|                               |   |
|-------------------------------|---|
| <b>Dimension:</b>             | 400 x 70 x 90 mm  |
| <b>Weight:</b>                | ca. 2,6 kg (without press jaw)  |
| <b>Piston force / hub:</b>    | 19 kN / 30 mm   |
| <b>Nominal size:</b>          | Ø 12 - 28 mm (metal)<br>Ø 12 - 40 mm (plastic/multilayer)   |
| <b>Press jaw fixture:</b>     | 270° rotation   |
| <b>Power supply:</b>          | Li-ion battery 14.4 V / 2.6 Ah<br>Main adaptor 230V / 50 - 60 Hz<br>Main adaptor 110 V on request |
| <b>Operating temperature:</b> | 0° C up to +40° C   |
| <b>Pressings:</b>             | up to 140 with 28 mm stainless steel  |

##### PRESSING TOOLS

|                                    |  |
|------------------------------------|--|
| <b>Press jaws:</b>                 | ROTHENBERGER Compact press jaws starting on page 107         |
| <b>Interchangeable press jaws:</b> | ROTHENBERGER Interchangeable press jaws starting on page 107 |

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#### Light weight and balanced weight distribution

Fatigue-free and ergonomic use even over long periods of time

#### LED display

Electronic battery charge indicator, electronic counting of the press cycles (Display when service interval has been reached, further pressings are possible)

#### Powerful motor

Fast pressings in approx. 4 seconds

#### Wand-like

design enables use in installation shafts and by front-wall constructions

#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Safety lock

No unintentional opening because a 180° rotation is necessary

#### Rubberised handle

Secure hold even in wet conditions

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston

#### Li-ion battery technology

Up to 100% more pressings\*

#### CFT®-Technology (Constant Force-Technology) for a constant axial force of 19 kN

Constant pressing force for over 10,000 press cycles



\* compared to ROTHENBERGER NiMH batteries



### ROMAX® Compact Set Basic I

Set Basic I (No. 15020) includes: ROMAX® Compact press machine, 1x 14.4 V/2.6 Ah Li-ion battery (No. 15418), rapid charger (No. 15017), plastic carrying case (No. 15016), (without press jaws)

**DUO-POWER 14.4 V or 230 V**



All ROMAX® Compact have a Li-ion battery!

**Made in Germany**

5 m cable length

Large operating radius



Fig. Power supply (No. 15037)



Fig. ROMAX® Compact Set SV

Workbench function with stable supporting surface



Slim – compact wand-like design



Work above head



| Model                         | Description  | Press jaw mm           | 📦 | ⚖️ kg | No.            |
|-------------------------------|--|------------------------|---|-------|----------------|
| ROMAX® Compact Set Basic I    | in plastic carrying case with Li-ion battery and charger                                     | (without pressing jaw) | 1 | 5.0   | <b>15020</b>   |
| ROMAX® Compact Set Basic II   | in plastic carrying case with power supply 230 V, without Li-ion battery and without charger | (without pressing jaw) | 1 | 5.2   | <b>015020R</b> |
| ROMAX® Compact Set M          | Set Basic I with press jaw Type M (Mapress, u.a.)  | 15 - 22 - 28           | 1 | 7.5   | <b>15023</b>   |
| ROMAX® Compact Set SV         | Set Basic I with press jaw Type SV (Viega, u.a.)   | 15 - 22 - 28           | 1 | 7.5   | <b>15022</b>   |
| ROMAX® Compact Set SV         | Set Basic I with press jaw Type SV (Viega, u.a.)   | 14 - 16 - 22           | 1 | 7.5   | <b>15033</b>   |
| ROMAX® Compact Set TH         | Set Basic I with press jaw Type TH (Henco, u.a.)   | 16 - 20 - 26           | 1 | 8.7   | <b>15032</b>   |
| ROMAX® Compact Set U          | Set Basic I with press jaw Type U (UNICOR, u.a.)   | 16 - 20 - 25           | 1 | 7.0   | <b>15024</b>   |
| ROMAX® Compact Set WE Set RFz | in plastic carrying case with Li-ion battery, spare press jaws and inserts                   | 16 - 20 - 25 - 32      | 1 | 8.7   | <b>14820</b>   |
| ROMAX® Compact Set WE Set U   | in plastic carrying case with Li-ion battery, spare press jaws and inserts                   | 16 - 20 - 25 - 32      | 1 | 8.7   | <b>14830</b>   |

### ACCESSORIES

| Model   | No.          |
|---|--------------|
| ROMAX® Compact spare battery (14.4 V / 2.6 Ah, Li-Ion)                  | <b>15418</b> |
| ROMAX® Compact charger (230 V)  | <b>15017</b> |
| ROMAX® Compact main adaptor (230 V), can be used in lieu of the battery | <b>15037</b> |
| Plastic carrying case, empty  | <b>15016</b> |
| Press jaws, interchangeable press jaws starting on                      | 107          |



# Bonding

## Press Machines Standard

**Made in Germany**

Please observe system characteristics/  
benefits on pages 100 - 101!

### ROMAX® 3000

Electro-hydraulic press machine for battery and mains operation for the system dependant pressing of fittings up to Ø110 mm\* with 32 - 34 kN

#### Product Profile

##### APPLICATION RANGE

The ROMAX® 3000 is fast, light, handy and safe. It is ideally suited for use at the building site

##### KEY FEATURES

- **Fast**  
A pressing cycle only last approx. 5 seconds. The piston retracts automatically after every finished pressing
- **Safe**  
CFT® guarantees the necessary pressing force. The automatic controlled press cycles ensures that the piston retracts to the starting position after the necessary pressing force has been reached
- **Light**  
The extremely low weight, as well as the balanced weight distribution, ensure fatigue-free use even in continuous use

\*system dependant

##### KEY FEATURES

- **Reliable & economical**  
Thank the highest quality service interval of 20,000 pressing cycles. This secures continuous economical use
- **Expanded operational temperature range**  
The ROMAX® 3000 works perfectly even under adverse environmental conditions. Pressing is possible between -10° C and +60° C
- **Large range**  
The standard Li-ion technology allows up to 160 pressings (with 28 mm stainless steel), and/or 90 pressings (with 54 mm stainless steel) with each charge
- **Practical design**  
The compact, wand-like design allows pressings even in confined spaces

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#### Wand-like

Design allows use in installation shafts and by front-wall constructions

#### Rubberised handle

Secure hold even in wet conditions

#### 2-speed switch

Light pressure activates the LED, when pressed through the pressing cycle begins

#### LED display

Electronic flat battery detection, electronic counting of press cycles (Notify maintenance interval), further pressings possible

#### Safety lock

No unintentional opening because a 180° rotation is required

#### Press jaw fixture can be rotated 270°

For easy operation even in confined spaces

#### Light weight and balanced weight distribution

Fatigue-free and ergonomic use even over long periods of time

#### Powerful motor

Fast pressings in approx. 5 seconds

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston



**CFT®- Technology (Constant Force-Technology)** for constant axial pressing force of 32 kN

Constant pressing force over 20,000 press cycles



| TECHNICAL DATA                |  |
|-------------------------------|--|
| <b>Dimensions:</b>            | 445 x 125 x 75 mm  |
| <b>Weight:</b>                | approx. 3.6 kg (without press jaws)  |
| <b>Piston force/-hub:</b>     | 32 kN / 40 mm  |
| <b>Nominal size:</b>          | Ø 12 - 110 mm (system dependant)   |
| <b>Press jaw fixture:</b>     | 270° rotation  |
| <b>Power supply:</b>          | Li-ion battery 18 V / 3 Ah<br>Main adaptor 230 V, 50 - 60 Hz,<br>Main adaptor 110 V on request |
| <b>Operating temperature:</b> | -10° C up to +60° C  |
| <b>Pressings:</b>             | Up to 160 with 28 mm stainless steel<br>Up to 90 with 54 mm stainless steel                    |

| PRESSING TOOLS           |   |
|--------------------------|---|
| <b>Press jaws:</b>       | ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 108 |
| <b>Pressing collars:</b> | ROTHENBERGER pressing collars starting on page 108  |

### High energy density

More pressing per charge, light weight <sup>2)</sup>



### Cold-resistant

Can be used in even the lowest temperatures (-10° C up to +60° C)



### No memory effect

A partially discharged battery can be fully recharged without any loss of capacity

### Low self discharge

Very long shelf-life



Fig. ROMAX® 3000 set with press jaws

### Light



### Fast





### Reliable




### Slim



Basic set (No. 15800) includes: ROMAX® 3000, 18 V / 3.0 Ah Li-ion battery (No. 15810), rapid charger (No. 15811), plastic carrying case (No. 15816) (without press jaws)

| Model                 | Description   | Press jaws mm |  |  | No.          |
|-----------------------|---|---------------|---|---|--------------|
| ROMAX® 3000 Set Basic | in plastic carrying case with Li-ion battery and charger (without press jaws) |               | 1   | 9.8   | <b>15800</b> |
| ROMAX® 3000 Set SV    | with press jaws type SV (Viega, et al.), with Li-ion battery                  | 15 - 22 - 28  | 1   | 14.5  | <b>15840</b> |
| ROMAX® 3000 Set TH    | with press jaws type TH (Henco, et al.), with Li-ion battery                  | 16 - 20 - 26  | 1   | 14.5  | <b>15845</b> |
| ROMAX® 3000 Set U     | with press jaws type U (UNICOR, et al.), with Li-ion battery                  | 16 - 20 - 25  | 1   | 14.5  | <b>15850</b> |
| ROMAX® 3000 Set M     | with press jaws type M (Mapress, et al.), with Li-ion battery                 | 15 - 22 - 28  | 1   | 14.5  | <b>15855</b> |

### ACCESSORIES

| Model   | No.          |
|---|--------------|
| ROMAX® 3000 Li-ion battery 18 V / 3 Ah  | <b>15810</b> |
| ROMAX® 3000 charger for 110-230 Volt  | <b>15811</b> |
| ROMAX® 3000 main adaptor 230 Volt*  | <b>15812</b> |
| Plastic carrying case, empty  | <b>15816</b> |
| <b>Press jaws, pressing collars starting on  108</b> |              |



<sup>2)</sup> Compared to the ROTHENBERGER NiMH battery



# Bonding

## Press Machines Standard

### ROMAX® AC ECO

Electro-hydraulic press machine for mains operation for system dependant pressing of fittings up to Ø 110 mm\* with 32 - 34 kN

**Made in Germany**

Please observe system characteristics/ benefits on pages 100 - 101!

#### Product Profile

##### APPLICATION AREA

The ROMAX® AC ECO is light, easy to handle and is suitable for the batch production of fitting joints in field operation

##### KEY FEATURES

- Ergonomic thanks to the rubberized handle and balanced weight distribution
- Controlled press cycle
- CFT®-Technology
- Safety lock
- Emergency stop switch
- 5 m cable

\*system dependant

#### TECHNICAL DATA

**Dimensions:** 415 x 180 x 80 mm  
**Weight:** approx. 4.5 kg (without press jaw)  
**Piston force/-hub:** 32 kN / 40 mm  
**Nominal size:** Ø 12- 110 mm (system dependant)  
**Press jaw fixture:** 270° rotation  
**Power supply:** 230 V / 50-60 Hz, 110 V on request

#### PRESSING TOOLS

**Press jaws:** ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 108  
**Pressing collars:** ROTHENBERGER Pressing collars starting on page 108

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#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Safety lock

No unintentional opening because a 270° rotation is necessary

#### Compatible jaw fixture

Suitable for many press jaws

#### Emergency stop switch

Immediate interruption of the feed

#### Two-switches within easy reach

Various holding positions possible. The controlled press cycle begins after pushing the hold-to-run control

#### Balanced weight distribution

Ergonomic use

#### CFT®- Technology (Constant Force-Technology) for constant axial pressing force of 32 kN

Constant axial pressing force over 10,000 press cycles



#### 5 m cable length

Large operations radius



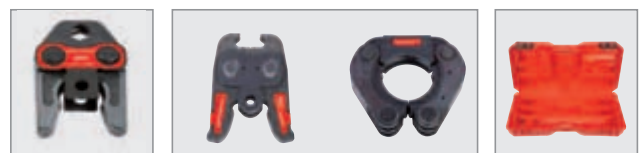
Fig. ROMAX® AC ECO Set with press jaws

Basic Sets (No. 15705) include: ROMAX® AC ECO Basic (230 Volt), plastic carrying case (No. F81664) (without press jaws)

| Model                     | Description  | Press jaws mm        | kg     | No.          |
|---------------------------|--|----------------------|--------|--------------|
| ROMAX® AC ECO Set Basic I | in plastic carrying case                             | (without press jaws) | 1 8.9  | <b>15705</b> |
| ROMAX® AC ECO Set M       | Set Basic I with press jaws type M (Mapress, et al.) | 15 - 22 - 28         | 1 13.4 | <b>15750</b> |
| ROMAX® AC ECO Set SV      | Set Basic I with press jaws type SV (Viega, et al.)  | 15 - 22 - 28         | 1 13.4 | <b>15740</b> |
| ROMAX® AC ECO Set TH      | Set Basic I with press jaws type TH (Henco, et al.)  | 16 - 20 - 26         | 1 13.4 | <b>15730</b> |
| ROMAX® AC ECO Set U       | Set Basic I with press jaws type U (UNICOR, et al.)  | 16 - 20 - 25         | 1 13.4 | <b>15760</b> |

#### ACCESSORIES

| Model                                    | No.           |
|--|---------------|
| Plastic carrying case, empty             | <b>F81664</b> |
| Press jaws, pressing collars starting on | 108           |



## Press Jaws & Interchangeable Press Jaws

### Press Jaws Compact

**Made in Germany**

#### For ROMAX® Compact

ROTHENBERGER Press Jaws with proven material and manufacturing quality for system dependant pressing of fittings up to Ø 40 mm (plastic / multi-layer) and/or up to 28 mm (metal)

#### Special hardening process

High degree of elastic force and expansion capability

#### 3-bolt synchronised mechanism

- Highest precision by pressing
- Synchronised run of the jaw lever
- Increased stability and durability
- Open the jaw with just 1 finger!

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

Product identification, simple to read, clear system and nominal size classification



Press jaw overview starting on 109

#### Precision-manufactured contours

For optimum and reliable pressings

#### Made of forged, highly resilient special steel

Suitable for all press machines with a constant axial thrust of **19 kN** and compatible press jaw fixture

#### Permanent bolt

- Without potential weak points / no thread
- Considerable reduction of the breakage risk
- Increased safety

#### Long-term corrosion protection

Optimum for heavy-duty field operation

#### Optimised inlet contour

- Adapted power flow
- Less wear and tear



### Interchangeable Press Jaws Compact

**Made in Germany!**

#### For ROMAX® Compact

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for the attachment from interchangeable press jaws for system dependant pressing of plastic fittings Ø 16 - 32 mm

**Combine various interchangeable inserts with only one press jaw!**



Set Interchangeable inserts

#### 3-bolt synchronised mechanism

Synchronised run of the jaw lever enables the jaw to be opened with just one finger

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

#### Guiding ridge

Safe admittance from inter-changeable press jaws

#### Made of casted, highly resilient special steel

Suitable for all press machines with a constant axial thrust of **19 kN** and compatible press jaw fixture

#### Special hardening process

High degree of elastic force and expansion capability

#### Long-term Corrosion protection

Optimum for heavy-duty field operation



| Model                            | Description          | No.          | Model                                | Description          | No.          |
|----------------------------------|----------------------|--------------|--------------------------------------|----------------------|--------------|
| Interchangeable inserts set RFz* | 16 - 20 - 25 - 32 mm | <b>14849</b> | Interchangeable press jaws + set CO  | 12 - 16 - 20 mm      | <b>15093</b> |
| Interchangeable inserts set U*   | 16 - 20 - 25 - 32 mm | <b>14869</b> | Interchangeable press jaws + set RFz | 12 - 16 - 20 mm      | <b>15094</b> |
| Interchangeable inserts set VP*  | 16 - 20 - 25 - 32 mm | <b>14879</b> | Interchangeable inserts set TH*      | 16 - 20 - 26 - 32 mm | <b>14895</b> |
| Interchangeable inserts set CO*  | 12 - 16 - 20 - 25 mm | <b>14889</b> |                                      |                      |              |

\*Can only be used with interchangeable pressing jaw No. 014800X!

# Bonding

## Press Jaws & Pressing Collars Standard

### Press Jaws Standard

**Made in Germany**

For ROMAX® PRESSLINER, ROMAX® PRESSLINER ECO, ROMAX® AC ECO

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for system conforming pressing of fittings up to Ø 50 mm (plastic) and/or up to Ø 54 mm (metal)

**Special hardening process**

High degree of elastic force and expansion capability

**3-bolt synchronised mechanism**

- Highest precision by pressing
- Synchronised run of the jaw lever
- Increased stability and durability
- Open the jaw with just 1 finger!

**Batch numbering and individual testing**

Secures the high quality standard of material and press contour

Product identification, simple to read, clear system and nominal size classification



Press jaw overview starting on 109

**Precision-manufactured contours**

For optimum and reliable pressings

**Made of forged, highly resilient special steel**

Suitable for all press machines with a constant axial thrust of 32 - 34 kN and compatible press jaw fixture

**Permanent bolt**

- Without potential weak points / no thread
- Considerable reduction of the breakage risk
- Increased safety

**Long-term Corrosion protection**

Optimum for heavy-duty field operation

**Optimised inlet contour**

- Adapted power flow
- Less wear and tear



### Pressing Collars Standard

**Made in Germany**

For ROMAX® 3000, ROMAX® PRESSLINER ECO, ROMAX® AC ECO

Still suitable for press machines with a constant, axial pressing force of 32 - 34 kN and the appropriate compatible press jaw fixture. For the system conforming pressing of fittings from 42 mm up to 54 mm (metal) and/or from 40 mm up to 110 mm (multi-layer)

Using the pressing collar



Gripping the pressing collar with intermediate jaws



**Limited weight**

Power-saving work for any length of time

**Batch numbering and individual testing**

Secures the high quality standard of material and press contour

**Long-term corrosion protection**

Optimum for heavy-duty field operation

**Special hardening process**

High degree of elastic force and expansion capability

**2-joint technology**

Simplifies use even in tight or over-head situations

**Precision-manufactured contours**

For optimum and reliable pressings

**Special hardening process**

High degree of elastic force and expansion capability

Fig. Pressing collar M54

**Made of forged, highly resilient special steel**

Suitable for all press machines with a constant, axial thrust of 32 - 34 kN and compatible press jaw fixture

**3-bolt synchronised mechanism**

Synchronised run of the jaw lever enables the jaw to be opened with just one finger



Fig. Intermediate jaw ZBS1

Pressing collar sets include: Pressing collars according to the table, intermediate jaws ZBS1 (No. 1000000104), plastic carrying case (No. 1500000211)

| Model   | Description                | No.        |
|---|----------------------------|------------|
| Pressing collar set SV in plastic carrying case | press jaw ZBS1 / SV42 - 54 | 1000000107 |
| Pressing collar set M in plastic carrying case  | press jaw ZBS1 / M42 - 54  | 1000000110 |
| Pressing collar set TH in plastic carrying case | press jaw ZBS1 / TH40 - 50 | 1000000116 |

Pressing collars overview starting on 109



### Press Jaws Standard Sets

ROTHENBERGER Press Jaws up to Ø 54 mm, in sturdy plastic carrying case

**Made in Germany**



**Professional set combinations!**

#### Variable and cost efficient

Universal for all ROTHENBERGER Press Jaws (Type Standard)

#### Various combinations possible

For example: 4 press jaws up to Ø 35 mm or 2 press jaws Ø 42 or 54 mm

#### Space for up to 6 Press Jaws

More than enough room for a complete press jaw system

Press Jaw sets include: Press Jaw according to chart, plastic case (No. 15031)

| Model                   |   |      | No.            | Model                   |   |      | No.            |
|-------------------------|---|------|----------------|-------------------------|---|------|----------------|
| M 15 - 18 - 22 - 28 mm  | 1 | 9.3  | <b>015062X</b> | TH 16 - 20 - 26 mm      | 1 | 7.9  | <b>015063X</b> |
| M 42 - 54 mm            | 1 | 11.8 | <b>015081X</b> | U 16 - 20 - 25 - 32 mm  | 1 | 10.6 | <b>015067X</b> |
| SV 15 - 18 - 22 - 28 mm | 1 | 9.3  | <b>015060X</b> | VP 16 - 20 - 25 - 32 mm | 1 | 9.4  | <b>015072X</b> |
| SV 42 - 54 mm           | 1 | 9.5  | <b>015080X</b> | Plastic jaw case, empty | 1 |      | <b>15031</b>   |
| G 16 - 20 - 26 - 32 mm  | 1 | 11.4 | <b>015068X</b> |                         |   |      |                |














| System        | Nominal Size            |                         | <br>Use only in combination with interchangeable jaws No. 014800X |                | <br>Only to be used with intermediate jaw: ZB51 No. 100000104 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZB52 No. 100000123 for (U Ø 75, 90, 110 mm) |
|---------------|-------------------------|-------------------------|---|----------------|---|
| <b>A</b>      | <b>Metal / NE-Metal</b> |                         |   |                |   |
|               | A1/2"                   | —                       | —   | <b>015222X</b> |   |
|               | A3/4"                   | —                       | —   | <b>015223X</b> |   |
|               | A1"                     | —                       | —   | <b>015224X</b> |   |
|               | A1 1/4"                 | —                       | —   | <b>015225X</b> |   |
|               | A1 1/2"                 | —                       | —   | <b>015226X</b> |   |
|               | A2"                     | —                       | —   | <b>015227X</b> |   |
| <b>M</b>      | M12                     | <b>015151X</b>          | —   | <b>015101X</b> |   |
|               | M15                     | <b>015152X</b>          | —   | <b>015102X</b> |   |
|               | M18                     | <b>015153X</b>          | —   | <b>015103X</b> |   |
|               | M22                     | <b>015154X</b>          | —   | <b>015104X</b> |   |
|               | M28                     | <b>015155X</b>          | —   | <b>015105X</b> |   |
|               | M35                     | —                       | —   | <b>015106X</b> |   |
|               | M42                     | —                       | —   | <b>015107X</b> | <b>100000108</b>  |
|               | M54                     | —                       | —   | <b>015108X</b> | <b>100000109</b>  |
| <b>V / SV</b> | V/SV12                  | <b>015261X</b>          | —   | <b>015211X</b> |   |
|               | V/SV14                  | <b>015269X</b>          | —   | <b>015219X</b> |   |
|               | V/SV15                  | <b>015262X</b>          | —   | <b>015212X</b> |   |
|               | V/SV16                  | <b>015260X</b>          | —   | <b>015220X</b> |   |
|               | V/SV18                  | <b>015263X</b>          | —   | <b>015213X</b> |   |
|               | V/SV22                  | <b>015264X</b>          | —   | <b>015214X</b> |   |
|               | V/SV28                  | <b>015265X</b>          | —   | <b>015215X</b> |   |
|               | V/SV35                  | —                       | —   | <b>015216X</b> |   |
|               | V/SV42                  | —                       | —   | <b>015217X</b> | <b>100000105</b>  |
|               | V/SV54                  | —                       | —   | <b>015218X</b> | <b>100000106</b>  |
|               | <b>R(H)</b>             | <b>PEX / Multilayer</b> |   |                |   |
|               | R12                     | <b>015369X</b>          | <b>14863</b>  | <b>015339X</b> |   |
|               | R14                     | <b>015370X</b>          | <b>14864</b>  | <b>015330X</b> |   |
|               | R16                     | <b>015371X</b>          | <b>14865</b>  | <b>015331X</b> |   |
|               | R17                     | <b>015378X</b>          | <b>14866</b>  | <b>015333X</b> |   |
|               | R18                     | <b>015379X</b>          | <b>14867</b>  | <b>015334X</b> |   |
|               | R20                     | <b>015374X</b>          | <b>14868</b>  | <b>015335X</b> |   |
|               | R25                     | <b>015380X</b>          | <b>14707</b>  | <b>015338X</b> |   |
|               | R26                     | <b>015376X</b>          | <b>14708</b>  | <b>015336X</b> |   |
|               | R32                     | <b>015377X</b>          | <b>14709</b>  | <b>015337X</b> |   |

Further information at [www.rothenberger.com](http://www.rothenberger.com)













# Bonding

## Press Jaws Program Overview

| System  | Nominal Size             |  Press Jaws Compact |  Interchangeable Insert Compact<br>Use only in combination with interchangeable jaws No. 014800X |  Press Jaws Standard |  Pressing Collars Standard<br>Only to be used with intermediate jaw: ZB51 No. 100000104 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZB52 No. 100000123 for (U Ø 75, 90, 110 mm) |
|---|--------------------------|--|---|---|--|
| <b>RFz</b>  | <b>PEX / Multi-layer</b> |  |   |   |  |
|    | RFz12                    | —  | 14822   | 1000000173  |  |
|   | RFz16                    | 015180X  | 14823   | 015161X   |  |
|   | RFz18                    |  | 1000000124  |   |  |
|   | RFz20                    | 015181X  | 14824   | 015162X   |  |
|   | RFz25                    | 015182X  | 14825   | 015163X   |  |
|   | RFz26                    |  | 1000000125  |   |  |
|   | RFz32                    | 015183X  | 14826   | 015164X   |  |
|   | <b>TH</b>                | TH14   | 015395X   | 14842   | 015321X  |
|    | TH16                     | 015385X  | 14843   | 015322X   |  |
|   | TH18                     | 015398X  | 14844   | 015323X   |  |
|   | TH20                     | 015389X  | 14845   | 015324X   |  |
|   | TH25                     | 015399X  | 14846   | 015325X   |  |
|   | TH26                     | 015391X  | 14847   | 015326X   |  |
|   | TH32                     | 015393X  | 14848   | 015327X   |  |
|   | TH40                     | 015401X  | —   | 015328X   | 1000000111   |
|   | TH50                     | —  | —   | —   | 1000000112   |
|   | TH63                     | —  | —   | —   | 1000000113   |
| <b>THT</b>  | THT32                    | 015393H  | —   | 015329X   |  |
|  | <b>U</b>                 | U14  | 015351X   | 14832   | 015311X  |
|   | U16                      | 015352X  | 14833   | 015312X   |  |
|   | U18                      | 015353X  | 14834   | 015313X   |  |
|   | U20                      | 015354X  | 14835   | 015314X   |  |
|   | U25                      | 015355X  | 14836   | 015315X   |  |
|   | U32                      | 015357X  | 14838   | 015317X   |  |
|   | U40                      | 015358X  | —   | 015318X   | 1000000117   |
|   | U50                      | —  | —   | —   | 1000000118   |
|   | U63                      | —  | —   | —   | 1000000119   |
|   | U75                      | —  | —   | —   | 1000000120   |
|   | U90                      | —  | —   | —   | 1000000121   |
| U110  | —                        | —  | —   | 1000000122  |  |
| <b>RC</b>   | RC26                     | 015277X  | 14837   | 015271X   |  |
|  | <b>VP</b>                | VP14   | 015530X   | 14882   | 015230X  |
|   | VP16                     | 015531X  | 14883   | 015231X   |  |
|   | VP20                     | 015532X  | 14884   | 015232X   |  |
|   | VP25                     | 015533X  | 14885   | 015233X   |  |
|   | VP32                     | 015534X  | 14886   | 015234X   |  |
|   | <b>B</b>                 | B3/8"  | —   | —   | 015251X  |
|  | B1/2"                    | —  | —   | 015252X   |  |
|   | B5/8"                    | —  | —   | 015253X   |  |
|   | B3/4"                    | —  | —   | 015254X   |  |
|   | B1"                      | —  | —   | 015255X   |  |
|   | B1 1/4"                  | —  | —   | 015256X   |  |
|   | <b>BE</b>                | BE16   | 015291X   | —   | 015392X  |
|  | BE20                     | 015292X  | —   | 015394X   |  |
|   | BE26                     | 015293X  | —   | 015396X   |  |
|   | BE32                     | 015294X  | —   | 015397X   |  |
|   | <b>CO</b>                | CO12   | —   | 14852   | 015235X <sup>(1)</sup>   |
|  | CO16                     | —  | 14853   | 015236X <sup>(1)</sup>  |  |
|   | CO20                     | —  | 14854   | 015237X <sup>(1)</sup>  |  |
|   | CO25                     | —  | 14855   | 015238X <sup>(1)</sup>  |  |
|   | <b>G</b>                 | G16  | 015362X   | —   | 015302X  |
|  | G20                      | 015364X  | —   | 015304X   |  |
|   | G26                      | 15366  | —   | 015306X   |  |
|   | G32                      | 015367X  | —   | 015307X   |  |
|   | G40                      | 015368X  | —   | 015308X   |  |
|   | <b>HA</b>                | HA16   | 015580X   | —   | 015280X  |
|  | HA20                     | 015581X  | —   | 015281X   |  |
|   | HA26                     | 015582X  | —   | 015282X   |  |
|   | HA32                     | 015583X  | —   | 015283X   |  |
|   | HA40                     | —  | —   | 015284X   |  |

Further information at [www.rothenberger.com](http://www.rothenberger.com), <sup>1)</sup> Only available upon request

## Press Jaws Program Overview

|   |   | Nominal Size | Press Jaws Compact No. | Press Jaws Pressliner and ROMAX® 3000 No. | Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X | ANBO C-Press | APE Raccordi a pressare | BAMPI BALPED, BALPEX | Blansol Barbie easy press | Blansol Barbi multipress | Broen BALLOFIX PRES | BUCCHI tech MP | CO. E.S. Coesklima | COMAP Sudo-Press Multiskin | COMAP Sudo-Press Cu | Comisa Multi layer pipe | DALPEX LaserMulti Dalpex | EMPUR PEXPRESS | eurotherm, MULTISTRATO, Euro 2000 | F.B.Q. BARONIO, BQ pres | FimisoI, HAKAPRES, HAKA, GERODUR | Fränkische, alpeX F50 | Frabo Pressfitting | Gabo, Gabopress H+5 | GAROS |  |
|---|---|--------------|------------------------|---|--|--------------|-------------------------|----------------------|---------------------------|--------------------------|---------------------|----------------|--------------------|----------------------------|---------------------|-------------------------|--------------------------|----------------|-----------------------------------|-------------------------|----------------------------------|-----------------------|--------------------|---------------------|-------|--|
|    | <b>M</b>  | M12          | 015151X                | 015101X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | M15          | 015152X                | 015102X                                   |  | •            |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | M18          | 015153X                | 015103X                                   |  | •            |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |    |              | M22                    | 015154X                                   | 015104X  |              | •                       |                      |                           |                          |                     | •              |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   |              | M28                    | 015155X                                   | 015105X  |              | •                       |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   |              | M35                    |   | 015106X  |              | •                       |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   |              | M42                    |   | 015107X  |              | •                       |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | M54          |                        | 015108X                                   |  | •            |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|    | <b>V / SV</b>   | V12          | 015261X                | 015211X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            | •                   |                         |                          |                |                                   |                         |                                  |                       | •                  |                     |       |  |
|   |   | SV14         | 015269X                | 015219X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV15         | 015262X                | 015212X                                   |  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV16         | 015260X                | 015220X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV18         | 015263X                | 015213X                                   |  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV22         | 015264X                | 015214X                                   |  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV28         | 015265X                | 015215X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV35         |                        | 015216X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV42         |                        | 015217X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|   |   | SV54         |                        | 015218X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         | •                                |                       |                    | •                   |       |  |
|    | <b>G</b>  | G16          | 015362X                | 015302X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | G20          | 015364X                | 015304X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | G26          | 015366X                | 015306X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | G32          | 015367X                | 015307X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | G40          | 015368X                | 015308X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|  | <b>HA</b>   | HA16         | 015580X                | 015280X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | HA20         | 015581X                | 015281X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | HA26         | 015582X                | 015282X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | HA32         | 015583X                | 015283X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | HA40         |                        | 015284X                                   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   |              |                        |   |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|  | <b>R (H)</b>  | R12          | 015369X                | 015339X                                   | 14863  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | R14          | 015370X                | 015330X                                   | 14864  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     |                    |                     |       |  |
|   |   | R16          | 015371X                | 015331X                                   | 14865  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     | •                  |                     |       |  |
|   |   | R17          | 015378X                | 015333X                                   | 14866  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     |                    |                     |       |  |
|   |   | R18          | 015379X                | 015334X                                   | 14867  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     |                    |                     |       |  |
|   |   | R20          | 015374X                | 015335X                                   | 14868  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     |                    | •                   |       |  |
|   |   | R25          | 015380X                | 015338X                                   | 14707  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     |                    |                     |       |  |
|   |   | R26          | 015376X                | 015336X                                   | 14708  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     | •                  |                     |       |  |
|   |   | R32          | 015377X                | 015337X                                   | 14709  |              |                         |                      |                           |                          | •                   |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  | •                     | •                  |                     |       |  |
|  | <b>RFz</b>  | RFz12        |                        | 100000173                                 | 14822  |              |                         |                      |                           | •                        |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | RFz16        | 015180X                | 015161X                                   | 14823  |              |                         |                      |                           | •                        |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | RFz20        | 015181X                | 015162X                                   | 14824  |              |                         |                      |                           | •                        |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | RFz25        | 015182X                | 015163X                                   | 14825  |              |                         |                      |                           | •                        |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | RFz32        | 015183X                | 015164X                                   | 14826  |              |                         |                      |                           | •                        |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|  | <b>TH</b>   | TH14         | 015395X                | 015321X                                   | 14842  |              | •                       | •                    |                           |                          |                     |                | •                  |                            |                     |                         | •                        | •              |                                   |                         |                                  |                       |                    | •                   | •     |  |
|   |   | TH16         | 015385X                | 015322X                                   | 14843  |              | •                       | •                    |                           |                          | •                   |                | •                  |                            |                     |                         | •                        | •              | •                                 |                         |                                  |                       | •                  | •                   | •     |  |
|   |   | TH18         | 015398X                | 015323X                                   | 14844  |              | •                       | •                    |                           |                          | •                   |                | •                  |                            |                     |                         | •                        | •              | •                                 |                         |                                  |                       | •                  | •                   | •     |  |
|   |   | TH20         | 015389X                | 015324X                                   | 14845  |              | •                       | •                    |                           |                          | •                   |                | •                  |                            |                     |                         | •                        | •              | •                                 |                         |                                  |                       | •                  | •                   | •     |  |
|   |   | TH25         | 015399X                | 015325X                                   | 14846  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | TH26         | 015391X                | 015326X                                   | 14847  |              | •                       | •                    |                           |                          | •                   |                | •                  |                            |                     |                         | •                        | •              | •                                 |                         |                                  |                       | •                  | •                   | •     |  |
|   |   | TH32         | 015393X                | 015327X                                   | 14848  |              |                         |                      |                           |                          | •                   |                | •                  |                            |                     |                         | •                        | •              | •                                 |                         |                                  |                       | •                  | •                   | •     |  |
|   |   | THT32        | 015393H                | 015329X                                   |  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | TH40         | 015401X                | 015328X                                   |  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          | •              |                                   |                         |                                  |                       |                    |                     | •     |  |
|   |  | <b>U</b>     | U14                    | 015351X                                   | 015311X  | 14832        |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U16          | 015352X                | 015312X                                   | 14833  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U18          | 015353X                | 015313X                                   | 14834  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U20          | 015354X                | 015314X                                   | 14835  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U25          | 015355X                | 015315X                                   | 14836  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U32          | 015357X                | 015317X                                   | 14838  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | U40          | 015358X                | 015318X                                   |  |              |                         |                      |                           |                          |                     |                |                    | •                          |                     |                         |                          |                |                                   |                         |                                  | •                     |                    |                     |       |  |
|   | U50   |              | 015319X                |   |  |              |                         |                      |                           |                          |                     |                | •                  |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
| <b>RC</b>   | RC26  | 015277X      | 015271X                | 14837                                     |  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|  | <b>VP</b>   | VP14         | 015530X                | 015230X                                   | 14882  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | VP16         | 015531X                | 015231X                                   | 14883  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | VP20         | 015532X                | 015232X                                   | 14884  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | VP25         | 015533X                | 015233X                                   | 14885  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |
|   |   | VP32         | 015534X                | 015234X                                   | 14886  |              |                         |                      |                           |                          |                     |                |                    |                            |                     |                         |                          |                |                                   |                         |                                  |                       |                    |                     |       |  |





Further information at [www.rothenberger.com](http://www.rothenberger.com)

ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



# Bonding









## Press Jaws Program Overview

|   |    | Nominal Size | Press Jaws Compact No. | Press Jaws Pressliner and ROMAX® 3000 No. | Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X | Geberit Mepla | +GF+ PRESS FIT Nitro San | Giacomini, Giacomflex, Giaco Therm | HAGE DOMINOX | Harden 2000, Polypex 2000 | Henco PVDf | Herz pipefix | HIDROTEC KLIMATEC | Hifec Sistema, Multistrato | Hs System, Heizung | Hs System, Sanitär | IBP>B<-press, >B<-press Gas | Mi Woeste | IPA, IPANA-PRES | IPALPEX (Industry of Plastic and Access | Jäger, Aquapres | Jaraflex-presssystem | Jupiter, Heizsysteme | KOHLER, InoxPress |
|---|---|--------------|------------------------|---|--|---------------|--------------------------|------------------------------------|--------------|---------------------------|------------|--------------|-------------------|----------------------------|--------------------|--------------------|-----------------------------|-----------|-----------------|---|-----------------|----------------------|----------------------|-------------------|
|    | <b>M</b>  | M12          | 015151X                | 015101X                                   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M15   | 015152X      | 015102X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M18   | 015153X      | 015103X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M22   | 015154X      | 015104X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M28   | 015155X      | 015105X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M35   |              | 015106X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M42   |              | 015107X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | M54   |              | 015108X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|    | <b>V / SV</b>   | V12          | 015261X                | 015211X                                   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV14  | 015269X      | 015219X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV15  | 015262X      | 015212X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV16  | 015260X      | 015220X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV18  | 015263X      | 015213X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV22  | 015264X      | 015214X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV28  | 015265X      | 015215X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV35  |              | 015216X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV42  |              | 015217X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | SV54  |              | 015218X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|    | <b>G</b>  | G16          | 015362X                | 015302X                                   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | G20   | 015364X      | 015304X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | G26   | 015366X      | 015306X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | G32   | 015367X      | 015307X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | G40   | 015368X      | 015308X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|  | <b>HA</b>   | HA16         | 015580X                | 015280X                                   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | HA20  | 015581X      | 015281X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | HA26  | 015582X      | 015282X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | HA32  | 015583X      | 015283X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | HA40  |              | 015284X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|  | <b>R (H)</b>  | R12          | 015369X                | 015339X                                   | 14863  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R14   | 015370X      | 015330X                | 14864                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R16   | 015371X      | 015331X                | 14865                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R17   | 015378X      | 015333X                | 14866                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R18   | 015379X      | 015334X                | 14867                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R20   | 015374X      | 015335X                | 14868                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R25   | 015380X      | 015338X                | 14707                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R26   | 015376X      | 015336X                | 14708                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | R32   | 015377X      | 015337X                | 14709                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|  | <b>RFz</b>  | RFz12        |                        | 1000000173                                | 14822  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | RFz16   | 015180X      | 015161X                | 14823                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | RFz20   | 015181X      | 015162X                | 14824                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | RFz25   | 015182X      | 015163X                | 14825                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | RFz32   | 015183X      | 015164X                | 14826                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|  | <b>TH</b>   | TH14         | 015395X                | 015321X                                   | 14842  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH16  | 015385X      | 015322X                | 14843                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH18  | 015398X      | 015323X                | 14844                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH20  | 015389X      | 015324X                | 14845                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH25  | 015399X      | 015325X                | 14846                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH26  | 015391X      | 015326X                | 14847                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH32  | 015393X      | 015327X                | 14848                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | THT32   | 015393H      | 015329X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | TH40  | 015401X      | 015328X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   |  | <b>U</b>     | U14                    | 015351X                                   | 015311X  | 14832         |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U16   |   | 015352X      | 015312X                | 14833                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U18   |   | 015353X      | 015313X                | 14834                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U20   |   | 015354X      | 015314X                | 14835                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U25   |   | 015355X      | 015315X                | 14836                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U32   |   | 015357X      | 015317X                | 14838                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U40   |   | 015358X      | 015318X                |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
| U50   |   | 015319X      |                        |   |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|  | <b>RC</b>   | RC26         | 015277X                | 015271X                                   | 14837  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | <b>VP</b>   | VP14         | 015530X                | 015230X                                   | 14882  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | VP16  | 015531X      | 015231X                | 14883                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | VP20  | 015532X      | 015232X                | 14884                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | VP25  | 015533X      | 015233X                | 14885                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |
|   | VP32  | 015534X      | 015234X                | 14886                                     |  |               |                          |                                    |              |                           |            |              |                   |                            |                    |                    |                             |           |                 |   |                 |                      |                      |                   |

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## Press Jaws Program Overview

|   | Nominal Size | Press Jaws Compact No. | Press Jaws Pressliner and ROMAX® 3000 No. | Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X | LAVAGRUND, LAVAPRESS | Mair Heiztechnik, Gomafix | Mpress Edelstahl / Gas | Mark KG, polymark | MEGARO HAKAPRESS | MULTITHERM-PRESSYSTEM | NEUTHERM, MEKUPRESS | Nupi MultiNupi | Nussbaum, Cupress, Cupress G, Optipress | Nussbaum, Optiflex Plus | O.M.T. Heizungssystem | Oventrop, Cofit | Pavitherm, MULTISTABIL | PIPELIFE RADOPRESS | POLYSAN Press-System | Prandelli, MULTYRAMA | PRASKI BAVARIA-press | Raccorderie Metallische Inoxipress, Steelipress | remo | RIQUIERA A SERTIR |  |
|---|--------------|------------------------|---|--|----------------------|---------------------------|------------------------|-------------------|------------------|-----------------------|---------------------|----------------|---|-------------------------|-----------------------|-----------------|------------------------|--------------------|----------------------|----------------------|----------------------|---|------|-------------------|--|
|    | M            | M12                    | 015151X                                   | 015101X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | M15                    | 015152X                                   | 015102X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   |              | M18                    | 015153X                                   | 015103X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   |              | M22                    | 015154X                                   | 015104X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   |              | M28                    | 015155X                                   | 015105X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   |              | M35                    |   | 015106X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   |              | M42                    |   | 015107X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   | M54          |                        | 015108X                                   |  |                      | •                         |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      | •                    |   |      |                   |  |
|    | V / SV       | V12                    | 015261X                                   | 015211X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV14                   | 015269X                                   | 015219X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV15                   | 015262X                                   | 015212X  |                      |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV16                   | 015260X                                   | 015220X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV18                   | 015263X                                   | 015213X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         | •                     |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV22                   | 015264X                                   | 015214X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         | •                     |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV28                   | 015265X                                   | 015215X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         | •                     |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV35                   |   | 015216X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         | •                     |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | SV42                   |   | 015217X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         | •                     |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   | SV54         |                        | 015218X                                   |  |                      |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|    | G            | G16                    | 015362X                                   | 015302X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | G20                    | 015364X                                   | 015304X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | G26                    | 015366X                                   | 015306X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | G32                    | 015367X                                   | 015307X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | G40                    | 015368X                                   | 015308X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|  | HA           | HA16                   | 015580X                                   | 015280X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 | •                      |                    |                      |                      |                      |   |      |                   |  |
|   |              | HA20                   | 015581X                                   | 015281X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 | •                      |                    |                      |                      |                      |   |      |                   |  |
|   |              | HA26                   | 015582X                                   | 015282X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 | •                      |                    |                      |                      |                      |   |      |                   |  |
|   |              | HA32                   | 015583X                                   | 015283X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 | •                      |                    |                      |                      |                      |   |      |                   |  |
|   |              | HA40                   |   | 015284X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 | •                      |                    |                      |                      |                      |   |      |                   |  |
|  | R (H)        | R12                    | 015369X                                   | 015339X  | 14863                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | R14                    | 015370X                                   | 015330X  | 14864                |                           | •                      |                   | •                |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      | •                    |   | •    |                   |  |
|   |              | R16                    | 015371X                                   | 015331X  | 14865                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       | •               |                        |                    |                      |                      | •                    |   | •    |                   |  |
|   |              | R17                    | 015378X                                   | 015333X  | 14866                |                           |                        |                   | •                |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | R18                    | 015379X                                   | 015334X  | 14867                |                           |                        |                   | •                |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      | •   |      | •                 |  |
|   |              | R20                    | 015374X                                   | 015335X  | 14868                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       | •               |                        |                    |                      |                      | •                    |   | •    |                   |  |
|   |              | R25                    | 015380X                                   | 015338X  | 14707                |                           |                        |                   | •                |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | R26                    | 015376X                                   | 015336X  | 14708                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       | •               |                        |                    |                      |                      | •                    |   | •    |                   |  |
|   |              | R32                    | 015377X                                   | 015337X  | 14709                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       | •               |                        |                    |                      |                      | •                    |   | •    |                   |  |
|  | RFz          | RFz12                  |   | 100000173  | 14822                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      | •                 |  |
|   |              | RFz16                  | 015180X                                   | 015161X  | 14823                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      | •                 |  |
|   |              | RFz20                  | 015181X                                   | 015162X  | 14824                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      | •                 |  |
|   |              | RFz25                  | 015182X                                   | 015163X  | 14825                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      | •                 |  |
|   |              | RFz32                  | 015183X                                   | 015164X  | 14826                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      | •                 |  |
|  | TH           | TH14                   | 015395X                                   | 015321X  | 14842                |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        | •                  |                      | •                    |                      |   |      |                   |  |
|   |              | TH16                   | 015385X                                   | 015322X  | 14843                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       |                 |                        | •                  | •                    | •                    |                      | •   |      |                   |  |
|   |              | TH18                   | 015398X                                   | 015323X  | 14844                |                           |                        |                   | •                |                       | •                   |                |   |                         |                       |                 |                        | •                  | •                    | •                    |                      | •   |      |                   |  |
|   |              | TH20                   | 015389X                                   | 015324X  | 14845                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       |                 |                        | •                  | •                    | •                    |                      | •   |      |                   |  |
|   |              | TH25                   | 015399X                                   | 015325X  | 14846                |                           |                        |                   | •                |                       | •                   |                |   |                         |                       |                 |                        | •                  | •                    | •                    |                      | •   |      |                   |  |
|   |              | TH26                   | 015391X                                   | 015326X  | 14847                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       |                 | •                      | •                  | •                    |                      | •                    |   | •    |                   |  |
|   |              | TH32                   | 015393X                                   | 015327X  | 14848                |                           | •                      |                   | •                |                       | •                   |                |   |                         |                       |                 |                        | •                  | •                    | •                    |                      | •   |      |                   |  |
|   |              | THT32                  | 015393H                                   | 015329X  |                      |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | TH40                   | 015401X                                   | 015328X  |                      |                           | •                      |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    | •                    | •                    |                      | •   |      |                   |  |
|  | U            | U14                    | 015351X                                   | 015311X  | 14832                |                           |                        |                   |                  |                       |                     |                |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U16                    | 015352X                                   | 015312X  | 14833                |                           |                        |                   |                  |                       |                     |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U18                    | 015353X                                   | 015313X  | 14834                |                           |                        |                   |                  |                       |                     |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U20                    | 015354X                                   | 015314X  | 14835                |                           |                        |                   |                  |                       |                     |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U25                    | 015355X                                   | 015315X  | 14836                |                           |                        |                   |                  |                       |                     |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U32                    | 015357X                                   | 015317X  | 14838                |                           |                        |                   |                  |                       |                     |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | U40                    | 015358X                                   | 015318X  |                      |                           |                        |                   | •                |                       | •                   |                | •                                       |                         |                       |                 |                        |                    |                      |                      |                      | •   |      |                   |  |
|   | U50          |                        | 015319X                                   |  |                      |                           |                        |                   |                  |                       |                     | •              |   |                         |                       |                 |                        |                    |                      |                      | •                    |   |      |                   |  |
|  | RC           | RC26                   | 015277X                                   | 015271X  | 14837                |                           |                        |                   |                  |                       |                     | •              |   |                         |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   | VP           | VP14                   | 015530X                                   | 015230X  | 14882                |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|  |              | VP16                   | 015531X                                   | 015231X  | 14883                |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | VP20                   | 015532X                                   | 015232X  | 14884                |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | VP25                   | 015533X                                   | 015233X  | 14885                |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |
|   |              | VP32                   | 015534X                                   | 015234X  | 14886                |                           |                        |                   |                  |                       |                     |                |   | •                       |                       |                 |                        |                    |                      |                      |                      |   |      |                   |  |











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ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



# Bonding

## Press Jaws Program Overview







|   | Nominal Size  | Press Jaws Compact No. | Press Jaws Pressliner and ROMAX® 3000 No. | Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X | Roth Sistema Rothapress | Roth-Roth Rohr-Installationssysteme | SANHA Pressfitting, NiroSan Presssystem | Schlösser Armaturen EURORESS SYSTEM | SCHÜTZ EHT Ropress | Seppelfricke Distributione MTSD | Seppelfricke Systemtechnik SST Delphi Press | SIKO TYPRO Tyrotherm | Simplex SiRoCon Cu / E | Simplex SiRoCon PPSU H | Simplex SiRoCon PPSU TH | SST-Rolltec Delphi-Press | STS Systemtechnik | System PREXTO | THERMAGAS Espace Express | THERMOLUTZ Acular, Rapid | THERMOVAL, THERMOSMART | Tiemme, Serie PA / PG | Tiemme, Cobrapress |  |
|---|---|------------------------|---|--|-------------------------|-------------------------------------|---|-------------------------------------|--------------------|---------------------------------|---|----------------------|------------------------|------------------------|-------------------------|--------------------------|-------------------|---------------|--------------------------|--------------------------|------------------------|-----------------------|--------------------|--|
|    | <b>M</b>  | M12                    | 015151X                                   | 015101X  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M15   | 015152X                | 015102X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M18   | 015153X                | 015103X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M22   | 015154X                | 015104X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M28   | 015155X                | 015105X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M35   |                        | 015106X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M42   |                        | 015107X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | M54   |                        | 015108X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|    | <b>V / SV</b>   | V12                    | 015261X                                   | 015211X  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV14  | 015269X                | 015219X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV15  | 015262X                | 015212X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV16  | 015260X                | 015220X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV18  | 015263X                | 015213X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV22  | 015264X                | 015214X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV28  | 015265X                | 015215X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV35  |                        | 015216X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV42  |                        | 015217X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | SV54  |                        | 015218X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | <b>G</b>  | G16                    | 015362X                                   | 015302X  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | G20   | 015364X                | 015304X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | G26   | 015366X                | 015306X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | G32   | 015367X                | 015307X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | G40   | 015368X                | 015308X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|  | <b>HA</b>   | HA16                   | 015580X                                   | 015280X  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | HA20  | 015581X                | 015281X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | HA26  | 015582X                | 015282X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | HA32  | 015583X                | 015283X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | HA40  |                        | 015284X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   |   |                        |   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|  | <b>R (H)</b>  | R12                    | 015369X                                   | 015339X  | 14863                   |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R14   | 015370X                | 015330X                                   | 14864  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R16   | 015371X                | 015331X                                   | 14865  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R17   | 015378X                | 015333X                                   | 14866  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R18   | 015379X                | 015334X                                   | 14867  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R20   | 015374X                | 015335X                                   | 14868  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R25   | 015380X                | 015338X                                   | 14707  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R26   | 015376X                | 015336X                                   | 14708  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | R32   | 015377X                | 015337X                                   | 14709  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   |  | <b>RFz</b>             | RFz12                                     |  | 1000000173              | 14822                               |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| RFz16   |   | 015180X                | 015161X                                   | 14823  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| RFz20   |   | 015181X                | 015162X                                   | 14824  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| RFz25   |   | 015182X                | 015163X                                   | 14825  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| RFz32   |   | 015183X                | 015164X                                   | 14826  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|  | <b>TH</b>   | TH14                   | 015395X                                   | 015321X  | 14842                   |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH16  | 015385X                | 015322X                                   | 14843  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH18  | 015398X                | 015323X                                   | 14844  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH20  | 015389X                | 015324X                                   | 14845  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH25  | 015399X                | 015325X                                   | 14846  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH26  | 015391X                | 015326X                                   | 14847  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH32  | 015393X                | 015327X                                   | 14848  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | THT32   | 015393H                | 015329X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | TH40  | 015401X                | 015328X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   |  | <b>U</b>               | U14                                       | 015351X  | 015311X                 | 14832                               |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U16   |   | 015352X                | 015312X                                   | 14833  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U18   |   | 015353X                | 015313X                                   | 14834  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U20   |   | 015354X                | 015314X                                   | 14835  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U25   |   | 015355X                | 015315X                                   | 14836  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U32   |   | 015357X                | 015317X                                   | 14838  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
| U40   |   | 015358X                | 015318X                                   |  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|  | <b>RC</b>   | RC26                   | 015277X                                   | 015271X  | 14837                   |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|  | <b>VP</b>   | VP14                   | 015530X                                   | 015230X  | 14882                   |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | VP16  | 015531X                | 015231X                                   | 14883  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | VP20  | 015532X                | 015232X                                   | 14884  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | VP25  | 015533X                | 015233X                                   | 14885  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |
|   | VP32  | 015534X                | 015234X                                   | 14886  |                         |                                     |   |                                     |                    |                                 |   |                      |                        |                        |                         |                          |                   |               |                          |                          |                        |                       |                    |  |

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ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



## Press Jaws Program Overview

|    | Nominal Size  | Press Jaws Compact No. | Press Jaws Pressliner and ROMAX <sup>®</sup> 3000 No. | Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X | TKM Fellingsbro TKM Press | Ulrich VARIOFLEX HAKA-PRESS | UPONOR UNIPipe, UNICORE, Airpipe | Valsir PEXAL | Vescal, Metalplast | Viega Profipressm profi-press G, profi-press Therm | Viega sanpress, sanpress INO | Viega sanfix FOSTA, P. PLUS | Viessmann | VSH CU+press, CU+press Gas | Watts MTR Art press | Wavin FUTURE 1/2, TIGRIS TIGRIS Alupex / Blue | WEFA PLASTIC, WEFA PRESS | WEM | Winkler | WKS | WOESTE <sup>™</sup> Yorkshire <sup>™</sup> RYW PRESS, RYW Gas press |  |
|---|---------------|------------------------|---|--|---------------------------|-----------------------------|----------------------------------|--------------|--------------------|--|------------------------------|-----------------------------|-----------|----------------------------|---------------------|---|--------------------------|-----|---------|-----|---|--|
|    | <b>M</b>      | M12                    | 015151X   | 015101X  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M15           | 015152X                | 015102X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M18           | 015153X                | 015103X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M22           | 015154X                | 015104X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M28           | 015155X                | 015105X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M35           |                        | 015106X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | M42           |                        | 015107X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
| M54   |               | 015108X                |   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|    | <b>V / SV</b> | V12                    | 015261X   | 015211X  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV14          | 015269X                | 015219X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV15          | 015262X                | 015212X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV16          | 015260X                | 015220X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV18          | 015263X                | 015213X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV22          | 015264X                | 015214X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV28          | 015265X                | 015215X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV35          |                        | 015216X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | SV42          |                        | 015217X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
| SV54  |               | 015218X                |   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|    | <b>G</b>      | G16                    | 015362X   | 015302X  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | G20           | 015364X                | 015304X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | G26           | 015366X                | 015306X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | G32           | 015367X                | 015307X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | G40           | 015368X                | 015308X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>HA</b>     | HA16                   | 015580X   | 015280X  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | HA20          | 015581X                | 015281X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | HA26          | 015582X                | 015282X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | HA32          | 015583X                | 015283X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | HA40          |                        | 015284X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>R (H)</b>  | R12                    | 015369X   | 015339X  | 14863                     |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R14           | 015370X                | 015330X   | 14864  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R16           | 015371X                | 015331X   | 14865  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R17           | 015378X                | 015333X   | 14866  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R18           | 015379X                | 015334X   | 14867  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R20           | 015374X                | 015335X   | 14868  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R25           | 015380X                | 015338X   | 14707  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R26           | 015376X                | 015336X   | 14708  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | R32           | 015377X                | 015337X   | 14709  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>RFz</b>    | RFz12                  |   | 1000000173   | 14822                     |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | RFz16         | 015180X                | 015161X   | 14823  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | RFz20         | 015181X                | 015162X   | 14824  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | RFz25         | 015182X                | 015163X   | 14825  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | RFz32         | 015183X                | 015164X   | 14826  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>TH</b>     | TH14                   | 015395X   | 015321X  | 14842                     |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH16          | 015385X                | 015322X   | 14843  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH18          | 015398X                | 015323X   | 14844  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH20          | 015389X                | 015324X   | 14845  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH25          | 015399X                | 015325X   | 14846  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH26          | 015391X                | 015326X   | 14847  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH32          | 015393X                | 015327X   | 14848  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | THT32         | 015393H                | 015329X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | TH40          | 015401X                | 015328X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>U</b>      | U14                    | 015351X   | 015311X  | 14832                     |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U16           | 015352X                | 015312X   | 14833  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U18           | 015353X                | 015313X   | 14834  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U20           | 015354X                | 015314X   | 14835  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U25           | 015355X                | 015315X   | 14836  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U32           | 015357X                | 015317X   | 14838  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | U40           | 015358X                | 015318X   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
| U50   |               | 015319X                |   |  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
| <b>RC</b>   | RC26          | 015277X                | 015271X   | 14837  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|  | <b>VP</b>     | VP14                   | 015530X   | 015230X  | 14882                     |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | VP16          | 015531X                | 015231X   | 14883  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | VP20          | 015532X                | 015232X   | 14884  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | VP25          | 015533X                | 015233X   | 14885  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |
|   | VP32          | 015534X                | 015234X   | 14886  |                           |                             |                                  |              |                    |  |                              |                             |           |                            |                     |   |                          |     |         |     |   |  |

Further information at [www.rothenberger.com](http://www.rothenberger.com)

ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



# Bonding

## Threading Manual

### SUPER CUT

#### Ratchet threader Ø 1/4 - 2"

For production of precise and reliable thread connections



#### Product Profile

##### APPLICATION AREA

For precision thread cutting of

**BSPT right:** Ø 1/4 - 2"

##### KEY FEATURES

Slim, compact design with excellent overall size, ratchet angle of 22.5°

Easy operation in hard-to reach places with the offset lever

Convenient, lockable reversal of the ratchet direction

Extremely long service life

Simple insertion and removal of die heads

Secure hold with retainer locking

Perfect centering through the long pipe guide is ensured

Optimised cutting geometry allows a gentle first cut and excellent chip discharge

**Power optimisation with the offset hand lever!**

#### Quick Change Die Heads

##### Secure hold

Positive octagonal universal drive with retainer locking

##### Fits all ROTHENBERGER Manual and Power Threaders

Simple insertion and removal of the die heads

4



#### Long lever

Optimum force transfer

#### Offset lever

Easy operation in hard-to-reach places

#### Quick adjustment

Convenient, lockable reversal of the ratchet direction

#### Precision Dies

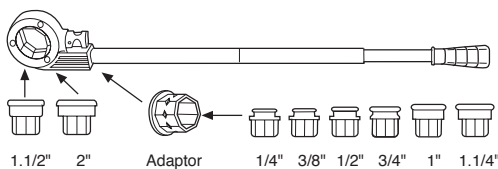
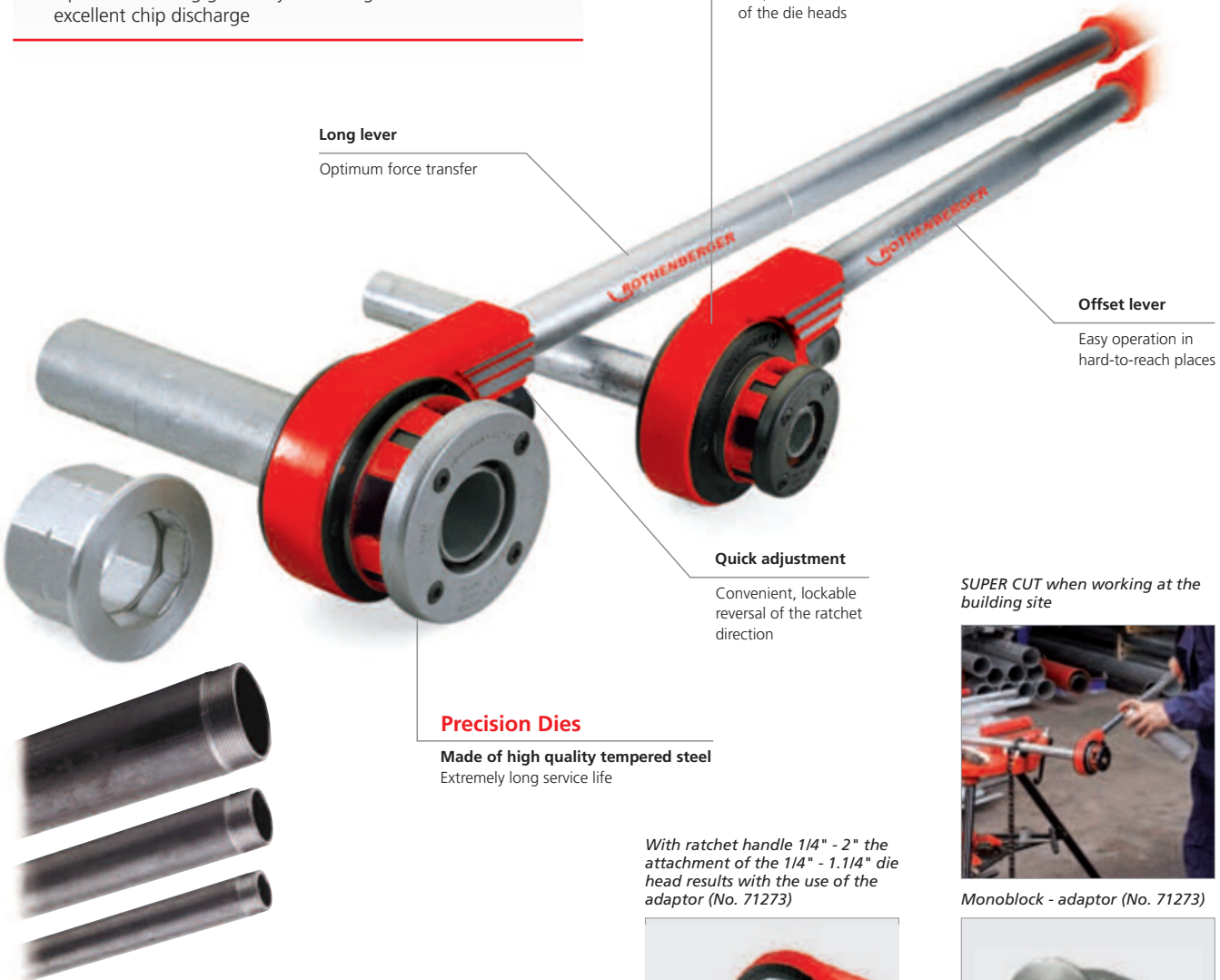
Made of high quality tempered steel  
Extremely long service life

*SUPER CUT when working at the building site*



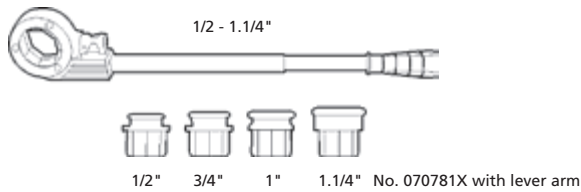
Monoblock - adaptor (No. 71273)

With ratchet handle 1/4" - 2" the attachment of the 1/4" - 1.1/4" die head results with the use of the adaptor (No. 71273)



### SUPER CUT – Sets Ø 3/8 - 1.1/4"

With ratchet handle (small, octagonal drive No. 070840X), die heads in plastic carrying case



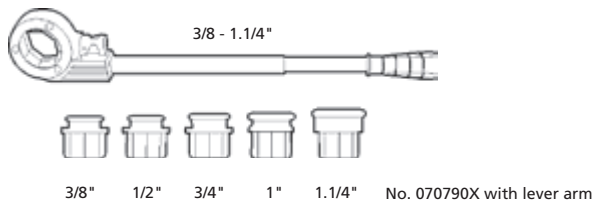
| Model  | Size                      | kg  | No.            |
|--------|---------------------------|-----|----------------|
| BSPT R | 1/2" - 3/4" - 1" - 1.1/4" | 5.1 | <b>070781X</b> |
| BSPT R | 3/8" - 1/2" - 3/4" - 1"   | 4.0 | <b>070782X</b> |
| NPT    | 1/2" - 3/4" - 1" - 1.1/4" | 4.0 | <b>070901X</b> |

4



### SUPER CUT – Sets Ø 3/8 - 1.1/4"

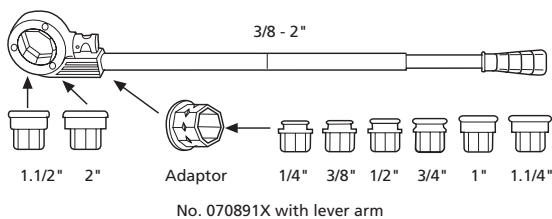
With ratchet handle (small octagonal drive, No. 070840X), and die heads in plastic carrying case



| Model  | Size                             | kg  | No.            |
|--------|----------------------------------|-----|----------------|
| BSPT R | 3/8" - 1/2" - 3/4" - 1"          | 5.4 | <b>070793X</b> |
| BSPT R | 3/8" - 1/2" - 3/4" - 1" - 1.1/4" | 6.2 | <b>070790X</b> |
| BSPT R | 1/2" - 3/4" - 1"                 | 4.2 | <b>070780X</b> |
| NPT    | 3/8" - 1/2" - 3/4" - 1" - 1.1/4" | 6.5 | <b>070900X</b> |

### SUPER CUT – Sets Ø 3/8 - 2"

With ratchet handle (large octagonal drive, No. 71272), die head adaptor (No. 71273), die heads in plastic carrying case



| Model  | Size   | kg   | No.            |
|--------|--|------|----------------|
| BSPT R | 3/8" - 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2" | 11.4 | <b>070891X</b> |
| BSPT R | 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"        | 10.8 | <b>070892X</b> |
| BSPT R | 1" - 1.1/4" - 1.1/2" - 2"                      | 9.6  | <b>070894X</b> |

#### ACCESSORIES

| Description          |                     |
|----------------------|---------------------|
| Die heads            | 1/4 - 2" <b>124</b> |
| Dies                 | 1/4 - 2" <b>124</b> |
| Cutting fluid        | <b>125</b>          |
| Pipe roughing wrench | <b>135</b>          |
| Monoblock Adaptor    | <b>119</b>          |





# Bonding

## Threading Manual

### SANI KIT

Tool set in sturdy plastic carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing



**Professional!**

#### Product Profile

##### APPLICATION AREA

|  |                |
|--|----------------|
| <b>Cutting:</b>  | up to Ø 1.1/4" |
| <b>Thread cutting:</b>   | up to Ø 1"     |
| <b>Assembly, screwing, loosening, sealing of thread connections:</b> | up to Ø 1.1/4" |

##### KEY FEATURES

- Light and easy to use, always within reach
- Secure guiding of the cutter wheel on the pipe
- Reliable grip with the s-shaped jaw
- Firm grip even with heavy-duty use
- Long service life
- Precise thread cutting to approved standards
- Perfect alignment

4



### Steel Pipe Cutter **Super 1.1/4"**

Wide rollers

Secure guiding of the cutter wheel on the pipe

### Corner Pipe Wrench **Super S**

Slim, s-shaped jaw

Firm grip



### **SUPER CUT** Ratchet Threader

With SUPER CUT ratchet handle 1.1/4"

Perfect alignment

Small outer octagon, BSPT R 1/2 - 3/4 - 1"

Precise thread cutting to approved standards

### **Water Pump Pliers Type SP**

With heavy duty box joint, chrome vanadium steel, drop-forged, tempered

Long service life

Polished head and joint

Firm grip even with heavy-duty use



### SANI KIT

#### Tool carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing

**The ideal installation set!**

SANI KIT when working at the building site with RONOL®



10-part set (No. 70600) includes: SUPER CUT ratchet threader 1.1/4" (No. 070840X), quick-change die heads BSPT R 1/2" (No. 070823X) - 3/4" (No. 070824X) - 1" (No. 070825X), steel pipe cutter SUPER 1.1/4" (No. 70040), water pump pliers type SP 10" (No. 70528), corner pipe wrench 1" (No. 070122X) as well as teflon tape (No. 855360), in plastic carrying case



| Description       | kg  | No.   |
|-------------------|-----|-------|
| SANI KIT Tool set | 8.2 | 70600 |

### SUPER CUT Ratchet Arm

With offset adaptor



| Direct seating for die heads | via adaptor for die heads | Handle  | kg  | No.     |
|------------------------------|---------------------------|---------|-----|---------|
| 1/4" - 1.1/4"                | -                         | 2-piece | 1.7 | 070840X |
| 1.1/2" - 2" (no fig.)        | 1/4" - 1.1/4"             | 3-piece | 2.5 | 71272   |

### Monoblock Adaptor

For SUPER CUT ratchet handle (No. 71272) to fit die heads 1/4 - 1.1/4"



| Direct seating for die heads            | kg  | No.   |
|---|-----|-------|
| 1/4" - 3/8" - 1/2" - 3/4" - 1" - 1.1/4" | 0.3 | 71273 |

### ACCESSORIES

| Description          | No. |
|----------------------|-----|
| Die heads 1/4 - 2"   | 124 |
| Dies 1/4 - 2"        | 124 |
| Cutting fluid        | 125 |
| Pipe roughing wrench | 135 |



# Bonding

## Threading Electric

### SUPERTRONIC® 1250

Power threader Ø 1/4 - 1.1/4"

For quick and effortless production of precise and reliable thread connections to approved standards



#### Product Profile

##### APPLICATION AREA

For threading of

**BSPT right:** Ø 1/2 - 1.1/4"  
**Optional:** (not included in set) Ø 1/4", 3/8"  
**NPT:** Ø 1/4 - 1.1/4"

##### KEY FEATURES

Ideal for confined spaces (corners, shafts)  
 Sturdy and light, even with heavy-duty use  
 Compact gear housing with excellent overall size  
 High power transmission, quiet running with long service life  
 Tough, rugged and durable  
 Weight reduction and easy handling

##### KEY FEATURES

Die can be used in both directions (left, right)  
 Stable speed by forward and reverse motion

##### TECHNICAL DATA

**Threading speed:** 15 - 20 min<sup>-1</sup>  
**Rapid reverse speed:** 27 min<sup>-1</sup>  
**Performance:** 800 Watt  
**Current:** 230 V/110 V  
**Threading speed:** 34 min<sup>-1</sup>  
**Weight:** 4.9 kg  
**Dimensions:** 456 x 168 x 76 mm



Compact design, only 4.9 kg, ideal for portable operation



Small head shape (11 cm)



Pipe roughing





### SUPERTRONIC® 1250 Set

Sets include: SUPERTRONIC® 1250 up to Ø 1.1/4" with forged pipe clamp (No. 71279), precision die heads complete in plastic carrying case (No. 71456)

**Small – Fast – Light (1/4 - 1. 1/4")!**



Pipe clamp



(optional)



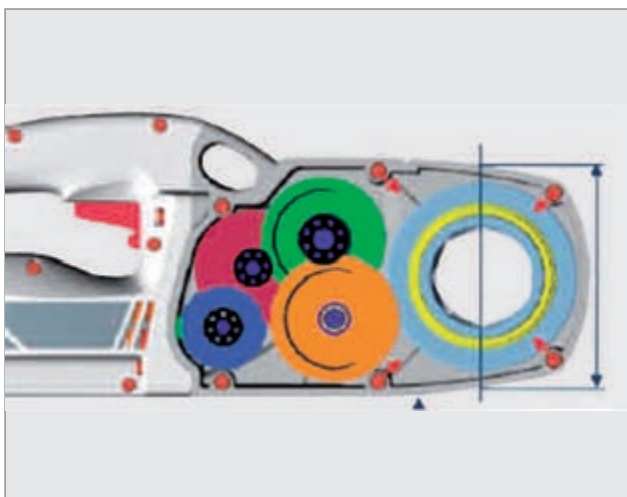
Fig. SUPERTRONIC® 1250 Set (No. 71450)

4



| Model                            | Description                    | kg   | ⊞ | 230 V        | 110 V        |
|----------------------------------|--------------------------------|------|---|--------------|--------------|
| SUPERTRONIC® 1250 Set            | BSPT 1/2" - 3/4" - 1" - 1.1/4" | 14.5 | 1 | <b>71450</b> | <b>71451</b> |
| SUPERTRONIC® 1250 Set            | 1/2 - 1.1/4" NPT               | 13.0 | 1 | <b>71454</b> | <b>71455</b> |
| SUPERTRONIC® 1250                | without die heads              | 3.9  | 1 | <b>71470</b> |              |
| Pipe clamp for SUPERTRONIC® 1250 | up to max. 1.1/4"              | 1.6  | 1 | <b>71279</b> | <b>71279</b> |

Helical gears for maximum power (800 watt)



Steel pipe processing portable, fast and easy



### ACCESSORIES

| Description          | ⓘ          |
|----------------------|------------|
| Die heads 1/4 - 2"   | <b>124</b> |
| Dies 1/4 - 2"        | <b>124</b> |
| Cutting fluid        | <b>125</b> |
| Pipe roughing wrench | <b>135</b> |



# Bonding

## Threading Electric

### SUPERTRONIC® 2000

#### Power threader Ø 1/4 – 2"

For quick and effortless production of precise and reliable thread connections to approved standards



#### Product Profile

##### APPLICATION AREA

For threading of

**BSPT right, BSPT left:** Ø 1/4 - 2"

**NPT:** Ø 1/4 - 2"

**High reduction gears with spur wheel teeth**, induction tempered, 7 parallel gear shafts, each ball bearing mounted

**High, consistent power transmission** when fully loaded

##### Performance:

Strong 1010 W motor, double insulated with VDE and CEE, interference free for reliable long-term use

##### Threading speed:

15 - 25 min<sup>-1</sup>, rapid reverse 60 min<sup>-1</sup>

(4 x faster reverse with reverse drive)

**Maintenance friendly** with continuous lubrication

##### KEY FEATURES

Secure grip in both turning directions with the hardened, interlocking prism pipe clamp

Die heads are held firmly in place through direct seating with tension ring locking

Off-set die head mounting allows for threading even close to walls

Ideal for confined spaces (corners, shafts)

User friendly work with the large mechanism for switching directions

Reliable motor for long-term use

4



Easy insertion of the die heads



Use with roll grooving tool ROGROOVER



ROFIX adaptor (No. 71271)



High reduction gears



### SUPERTRONIC® 2000 Set

Sets include: SUPERTRONIC® 2000 with pipe clamp (No. 71280), ROFIX-Adaptor (No. 71271), and precision die heads, complete in plastic carrying case (No. 071274X)

Can also be used in combination with a roll grooving tool!

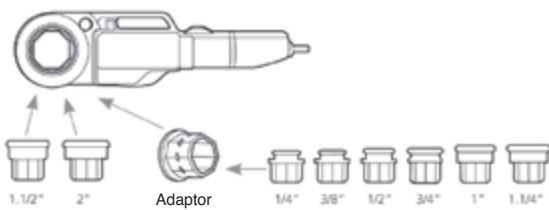


Fig. Similar, SUPERTRONIC® 2000 Set



| Description                   | Model                                   | kg   |   | 230 V        | 110 V        |
|-------------------------------|---|------|---|--------------|--------------|
| SUPERTRONIC® 2000 Set, BSPT R | 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2" | 14.5 | 1 | <b>71256</b> | <b>71258</b> |
| SUPERTRONIC® 2000 Set, NPT    | 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2" | 14.5 | 1 | <b>71257</b> | <b>71259</b> |
| SUPERTRONIC® 2000             | without die heads                       | 6.8  | 1 | <b>71250</b> |              |

Work in confined spaces



Die heads with the tripod universal workbench



### ACCESSORIES

| Description          |            |
|----------------------|------------|
| Die heads 1/4 - 2"   | <b>124</b> |
| Dies 1/4 - 2"        | <b>124</b> |
| Cutting fluid        | <b>125</b> |
| Pipe roughing wrench | <b>135</b> |





# Bonding

## Threading Electric



### Precision Die Heads

With enlarged shaving discharge chambers

For faster threading, reinforced locking plate and precise die seating.  
Fits in ROTHENBERGER SUPERTRONIC® 1000, SUPERTRONIC 1250, SUPERTRONIC 2000 and SUPER CUT threaders

| BSPT R<br>No. |         |
|---------------|---------|
| 1/4"          | 070821X |
| 3/8"          | 070822X |
| 1/2"          | 070823X |
| 3/4"          | 070824X |
| 1"            | 070825X |
| 1.1/4"        | 070826X |
| 1.1/2"        | 070842X |
| 2"            | 070843X |

### Precision Threading Dies

Gentle first cut, extremely long life, 4 pieces / pack  
Optimum results are achieved with original ROTHENBERGER thread cutting fluid



| BSPT R | No.     |
|--------|---------|
| 1/4"   | 070831X |
| 3/8"   | 070832X |
| 1/2"   | 070833X |
| 3/4"   | 070834X |
| 1"     | 070835X |
| 1.1/4" | 070836X |
| 1.1/2" | 070869X |
| 2"     | 070870X |



### ROFIX Adaptor

Fits small external octagonal die heads from Ø 1/4" up to 1.1/4"

Easy insertion of the die head with tension ring locking

Tension ring locking



| Description                     | g   | No.   |
|---------------------------------|-----|-------|
| ROFIX Adaptor with locking ring | 830 | 71271 |

### RONOL®

#### High-performance cutting oil

##### Product Profile

##### KEY FEATURES

- Excellent cooling and lubricating properties
- Durability of the threading die is increased considerably
- For perfect, clean threads
- Safe for skin contact
- Also suitable as cold lubrication when cutting metal

##### TECHNICAL DATA

##### Mineral oil basis

**For threading** of all materials including stainless steel

**Emulsifying agent** enables easy rinsing of the pipeline without unhealthy polychlorinated Biphenyl (PCB)

**Mineral-based cutting oil is not permitted for drinking water installations - Please check your national regulations!**

| Model            | Contents | kg   | ☒  | No.          |
|------------------|----------|------|----|--------------|
| RONOL® Spray can | 600 ml   | 0.75 | 12 | <b>65008</b> |
| RONOL® Canister  | 5 l      | 5.20 | 4  | <b>65010</b> |



### RONOL® SYN

#### High-performance cutting fluid



##### Product Profile

##### KEY FEATURES

- Excellent cooling and lubricating properties
- Able to handle high pressure
- Longer life for the cutting tool
- Safe for skin contact
- Also suitable as cold lubrication when cutting metal

##### TECHNICAL DATA

**No mineral oils**, purely synthetic:

Developed and approved for drinking water and plumbing installations. DVGW tested (Reg. No. S 021)

**100% water soluble**, physiologically neutral, silicone-free: easily washable

**Emulsifying agent** enables easy rinsing of the pipeline

**No build-up of shavings:** Perfect cooling quality

**Good corrosion protection:** No rusting

**Undiluted application**

**High polymer, without EP-additives** (extreme pressure) such as sulphur, phosphorus or chlorine: increased cutting performance

| Model                | Contents | kg   | ☒  | No.          |
|----------------------|----------|------|----|--------------|
| RONOL® SYN Spray can | 600 ml   | 0.75 | 12 | <b>65013</b> |
| RONOL® SYN Canister  | 5 l      | 5.20 | 4  | <b>65015</b> |



# Bonding

## Threading Electric

### ROPOWER® 50 R

Portable compact threader Ø 1/4 - 2"

Quick and effortless production of precise and reliable pipe and bolt threads to approved standards



#### Product Profile

##### APPLICATION AREA

Use on building sites, for repairs and service, industrial use and for installation work

##### For threading of:

|                    |              |
|--------------------|--------------|
| <b>BSPT right:</b> | Ø 1/4 - 2"   |
| <b>NPT:</b>        | Ø 1/4 - 2"   |
| <b>BSPP:</b>       | Ø 1/2 - 2"   |
| <b>BSW:</b>        | Ø 3/8 - 2"   |
| <b>Metric:</b>     | Ø 10 - 24 mm |

##### KEY FEATURES

- Quick and reliable threading, trimming, deburring, and grooving
- Effortless and comfortable transport with the light, navigable working carriage, which also serves as workbench
- Complete pre- and post-processing of pipe
- Easy to maintain machine design
- Die head Type R (automatic with integrated oil feed)
- Portable transport frame (standard)

##### TECHNICAL DATA

|                                |                    |
|--------------------------------|--------------------|
| <b>Performance:</b>            | 1,150 Watt         |
| <b>Speed:</b>                  | 40 m <sup>-1</sup> |
| <b>Weight:</b>                 | 68 kg              |
| <b>Dimensions (L x W x H):</b> | 535 x 430 x 340 mm |

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#### Pre- and post-processing of pipe

##### Self-centering pipe cutter

Precise cuts

##### Internal deburrer, snap in, 3-blade

Burr-free work

##### Impact hammer chuck with maximal clamping-force

No pipe slippage

##### Self-centering rear chuck

Quick and precise alignment of the pipe

#### Easy to maintain machine design

##### Motor double insulated in accordance with VDE and CE

Safe operation

##### Stable high torque motor

Constant power transferral

##### Off-set spindle lubrication

Easy maintenance

##### Machine slightly angled

Reduced oil consumption, oil coating in pipe interior is avoided

Original RIDGID<sup>1)</sup> threading dies can optionally be used!



##### Geared oil pump with filter system and adjustable fluid qualities

Constant oil flow quantities

##### Amplly dimensioned large plastic shavings collection trough

Easy to clean

1) RIDGID® is a registered trade mark of the Emerson Electric Co., St. Louis, USA



### ROPOWER® 50 R

Scope of delivery: ROPOWER® 50 R, automatic die head 1/2" - 2" (No. 56052), SS dies BSPT 1/2" - 3/4" (No. 056370X), 1" - 2" (No. 056371X), safety foot switch (No. 56335), collapsible stand (No. 56051), tool

#### Transportation Frame

(Included in delivery)

Carriage with storage space and a mount for the foot switch

Clearly arranged work

Collapsible undercarriage

Comfortable transport

With 2 plastic wheels

High mobility

Safety foot switch (No. 56335)

Increased safety

#### Die Head Type R

Automatic die head with integrated oil feed

Long life of the die heads

Optimal lubrication and cooling of the die heads

Long life



Fig. Collapsible stand (No. 56051) included in delivery!



Automatic die head with integrated oil supply



High mobility



Thread roughing



Cost-effective production of grooves



| Model  | Volt  | ⊞ | ⚖    | No.          |
|--|-------|---|------|--------------|
| ROPOWER® 50 R with automatic die head:   |       |   |      |              |
| BSPT R 1/2 - 3/4", 1-2"  | 230 V | 1 | 88.5 | <b>56050</b> |
| BSPT R 1/2 - 3/4", 1-2"  | 110 V | 1 | 68.5 | <b>56045</b> |
| BSPP R 1/2 - 3/4", 1-2"  | 230 V | 1 | 88.5 | <b>56057</b> |
| Collapsible Stand ROPOWER® 50 R  |       | 1 | 19.2 | <b>56051</b> |
| Spare cutting wheel (PANDA 40, PANDA 90, PISET 3 SG, Nr. 6 SC 2 S, 2 SE, 3 S, 3 SE, 4 S, 4 SE) |       | 1 | 0.02 | <b>70074</b> |
| Supporting legs (contents 4 pieces)  |       |   | 1.50 | <b>56049</b> |

#### ACCESSORIES

| Description          | 📖                | No.          |
|----------------------|------------------|--------------|
| Cutting fluid        | <b>125</b>       |              |
| Automatic die heads  | <b>130</b>       |              |
| Dies                 | <b>130</b>       |              |
| NIPPLE MAX           | <b>135</b>       |              |
| Pipe roughing wrench | <b>135</b>       | <b>56500</b> |
| ROGROOVER 6"         | <b>136 - 137</b> |              |



# Bonding

## Threading Electric

### SUPERTRONIC® 2 SE / 3 SE / 4 SE

Compact threader Ø 1/4 - 4"

Reliable and proven for constant professional use

Can also be used in combination with a roll grooving tool!



#### Product Profile

##### APPLICATION AREA

Ideal for portable and stationary threading in the workshop, on-site, for repairs and service, trade and industry, pipeline construction, as well as for sanitary and heating installations

Universal application, with or without stand, i.e. on a workbench

##### For threading of:

|                    |                     |
|--------------------|---------------------|
| <b>BSPT right:</b> | Ø 1/4 - 4"          |
| <b>NPT:</b>        | Ø 1/4 - 4"          |
| <b>BSPP:</b>       | Ø 1/2 - 4"          |
| <b>BSW:</b>        | Ø 3/8 - 2"          |
| <b>Metric:</b>     | Ø 10 - 36 mm        |
|                    | Ø 10 - 24 mm (2 SE) |

##### KEY FEATURES

- Universal die head seating (standard or automatic)
- Precise guiding of the die head
- Low-wear and precise guiding
- Fast axial alignment of the pipe
- No pipe slippage with impact hammer chuck
- Burr-free work

4



Smooth action impact hammer chuck with maximal clamping force

No pipe slippage

Self-centering rear chuck

Axial alignment of the pipe

Working spindle with closed bearings on both sides

Low-wear and precise guiding

Dual-sided tool guide sled

Precise guiding of the die head

Tool / guide sled propulsion via turnstile

Finely controlled propulsion

Internal deburrer, snap in, 3-blade

Burr-free work



Modular system concept

Universal die head adaptor, optional in standard or automatic models

Sturdy oil pump with high flow power and adjustable fluid quantities, filter system integrated oil feed

Optimal lubrication and cooling

Large shavings collection trough made of plastic

Easy to clean

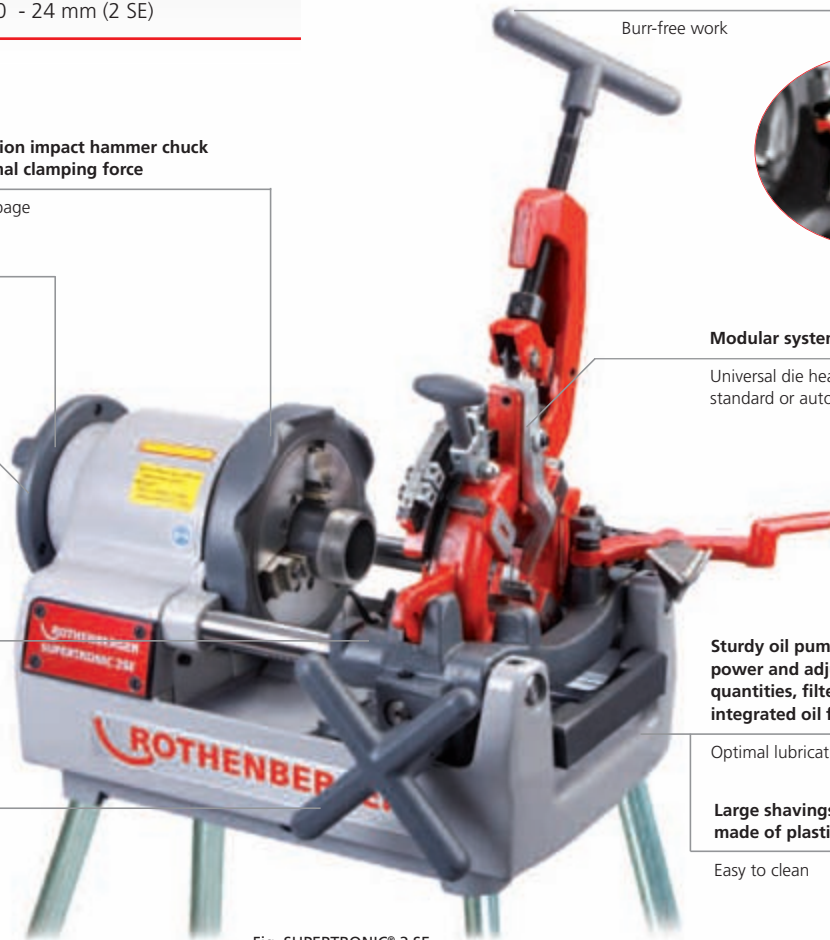


Fig. SUPERTRONIC® 2 SE

Impact hammer chuck with inter-changeable clamping jaw, optimal clamping properties through flexible adjustment and broad support



Automatic die heads with quick adjustment of thread size automatic thread length, finely adjustable thread depth without recentering



Fig. Transport Frame 4 SE (No. 57051)

### SUPERTRONIC® 2 SE

#### Compact threader Ø 1/2 - 2"

Standard Die Head: 1/2 - 2" (No. 56156)  
Automatic Die Head 1/2 - 2" (No. 56266)



#### TECHNICAL DATA

|                                |                    |
|--------------------------------|--------------------|
| <b>Motor strength:</b>         | 1,150 Watt         |
| <b>Speed:</b>                  | 40 m <sup>-1</sup> |
| <b>Weight, with die heads:</b> | 68 kg              |
| <b>Dimensions (L x W x H):</b> | 535 x 430 x 340 mm |

Scope of delivery: SUPERTRONIC 2 SE, automatic die head 1/2 - 2" (No. 56165) or automatic die head (No. 56266), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), safety foot switch (No. 56335), supporting legs (No. 56490), tool

| SUPERTRONIC® 2 SE         | kg | 230 V | 110 V |
|---------------------------|----|-------|-------|
| with Standard Die Head    | 68 | 56150 | 56120 |
| BSPT R 1/2 - 3/4", 1 - 2" |    |       |       |
| with Automatic Die Head   | 68 | 56175 | 56125 |
| BSPT R 1/2 - 3/4", 1 - 2" |    |       |       |

| SUPERTRONIC® 2 SE                   | 230 V | 110 V |
|-------------------------------------|-------|-------|
| Deburrer without holder 2 SE        | 56198 | 56198 |
| Supporting legs (contains 4 pieces) | 56490 | 56490 |

### SUPERTRONIC® 3 SE

#### Compact threader Ø 1/2 - 3"

Standard Die Head: 1/2 - 2" (No. 56156), 2 - 3" (No. 56104)  
Automatic Die Head: 1/2 - 2" (No. 56266), 2.1/2 - 3" (No. 56288)



#### TECHNICAL DATA

|                                |                    |
|--------------------------------|--------------------|
| <b>Motor strength:</b>         | 1,700 Watt         |
| <b>Speed:</b>                  | 33 m <sup>-1</sup> |
| <b>Weight, with die heads:</b> | 100 kg             |
| <b>Dimensions (L x W x H):</b> | 650 x 480 x 420 mm |

Scope of delivery: SUPERTRONIC 3 SE, standard die heads 1/2 - 2" (No. 56156) or automatic die heads (56266), standard die head 2 - 3" (No. 56104) or automatic die head 2 1/2 - 3" (56288), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 2 - 3" (No. 56006), SS threading dies 2 1/2 - 3" (No. 56291), safety foot switch (No. 56335), supporting legs (No. 56491), tool

| SUPERTRONIC® 3 SE                     | kg  | 230 V | 110 V |
|---------------------------------------|-----|-------|-------|
| with Standard Die Head                | 100 | 56250 | 56253 |
| BSPT R 1/2 - 3/4", 1 - 2", 2 - 3"     |     |       |       |
| with Automatic Die Head               | 100 | 56255 | 56254 |
| BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 3" |     |       |       |

| SUPERTRONIC® 3 SE            | kg | 230 V | 110 V |
|------------------------------|----|-------|-------|
| Deburrer without holder 3 SE |    | 56199 | 56199 |

### SUPERTRONIC® 4 SE

#### Compact threader Ø 1/2 - 4"

SUPERTRONIC® 4 SE with Automatic Die Head



#### TECHNICAL DATA

|                                |                         |
|--------------------------------|-------------------------|
| <b>Motor strength:</b>         | 1,750 Watt              |
| <b>Speed:</b>                  | 22 / 50 m <sup>-1</sup> |
| <b>Weight, with die heads:</b> | 120 kg                  |
| <b>Dimensions (L x W x H):</b> | 750 x 540 x 480 mm      |

Scope of delivery: SUPERTRONIC 4 SE, BSPT automatic die head 1/2 - 2" (No. 56266), BSPT automatic die head 2 1/2 - 4" (No. 56289), SS threading dies 1/2 - 3/4" (No. 56003), SS threading dies 1 - 2" (No. 56007), SS threading dies 2 1/2 - 4" (No. 56294), safety foot switch (No. 56335), supporting legs (No. 56491), tool

| SUPERTRONIC® 4 SE                     | kg  | 230 V | 110 V |
|---------------------------------------|-----|-------|-------|
| with Automatic Die Head               | 120 | 56465 | 56475 |
| BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4" |     |       |       |
| Deburrer Blade 4 SE                   |     | 56200 | 56200 |
| Transport wagon                       | 25  | 57051 |       |



# Bonding

## Threading Electric



### Precision Die Heads

For machine types ROPOWER® 50 R, PANDA, PISET, SUPERTRONIC® 2 S, 2 SE, 3 S, 3 SE, 4 S, 4 SE

#### Product Profile

##### KEY FEATURES

###### Standard die heads

- Time saving with a simple and quick change of the threading dies
- User friendly with the locking positioning which eliminates complicated calibration
- Longer life of the dies with the integrated lubrication
- Guaranteed consistent cutting oil film on the pipe surface

#### Product Profile

##### KEY FEATURES

###### Automatic die heads


- Simple and clear operation with the quick-adjustment thread sizes
- With the automatic adjustable thread length even long-running threads are possible
- Flexible work: Each thread size offers individual fine adjustment of the thread depth without recentering dimension change

Please note the die heads do not include threading dies!

### Precision Threading Dies

Technically perfect, high material quality and precise workmanship) guarantee easy cutting, clean threads and extremely long service life with outstanding chip discharge. Manufactured from high-quality tempered steel. (only available in sets 4 pieces / pack)



For optimal threading results, use only with original ROTHENBERGER cutting fluid or cutting oil (see  125)!

#### Suitable for:

##### Conical pipe threads NPT

Standard Taper Pipe Thread, NPT, USAS B 2.1,  
External conical threads 1:16, 60° flank angle

##### Metric bolt threads

Metric ISO threads: ISO R 261, DIN 13  
Exterior threads, 60° flank angle

##### Conical pipe threads BSPT

Whitworth pipe threads: ISO/R7, DIN 2999, BSPT,  
External conical threads 1:16, 55° flank angle

##### English bolt threads - BSW

Whitworth pipe threads: ISO/R7, DIN 2999, BSPT,  
External conical threads 1:16, 55° flank angle

##### Cylindrical pipe threads BSPP

Whitworth pipe threads: ISO 228/I, DIN 259, BSPP,  
Exterior threads cylindrical, 55° flank angle

### Overview Die Heads / Threading Dies

|   |      |     |   |              |                                       |                      |                           |                           |                           |
|---|------|-----|---|--------------|---------------------------------------|----------------------|---------------------------|---------------------------|---------------------------|
|  |      |     |  |              |                                       | <b>ROPOWER® 50 R</b> | <b>SUPERTRIONIC® 2 SE</b> | <b>SUPERTRIONIC® 3 SE</b> | <b>SUPERTRIONIC® 4 SE</b> |
| Die heads   |      |     | Threading dies  |              |                                       |                      |                           |                           |                           |
| Thread type   | Size | No. | Size  | No. SS-Steel | No. HSS-Steel stainl. steel/inox pipe |                      |                           |                           |                           |

#### Automatic die heads suitable for RIDGID<sup>1)</sup> threading dies

|               |          |       |          |         |     |  |  |  |  |
|---------------|----------|-------|----------|---------|-----|--|--|--|--|
| <b>BSPT R</b> | 1/4 - 2" | 56052 | 1/4-3/8" | 56369   | N/A |  |  |  |  |
|               |          |       | 1/2-3/4" | 056370X | N/A |  |  |  |  |
|               |          |       | 1-2"     | 056371X | N/A |  |  |  |  |

|            |          |       |          |       |     |  |  |  |  |
|------------|----------|-------|----------|-------|-----|--|--|--|--|
| <b>NPT</b> | 1/4 - 2" | 56053 | 1/4-3/8" | 56372 | N/A |  |  |  |  |
|            |          |       | 1/2-3/4" | 56373 | N/A |  |  |  |  |
|            |          |       | 1-2"     | 56374 | N/A |  |  |  |  |

#### Automatic die heads suitable for ROTHENBERGER threading dies

|               |        |       |          |       |            |       |       |  |  |  |
|---------------|--------|-------|----------|-------|------------|-------|-------|--|--|--|
| <b>BSPT R</b> | 1/2-2" | 56266 | 1/2-3/4" | 56003 | 56235      |       |       |  |  |  |
|               |        |       | 1-2"     | 56007 | 56236      |       |       |  |  |  |
|               |        |       | 2.1/2-3" | 56288 | 2.1/2 - 3" | 56291 | 56237 |  |  |  |
|               |        |       | 2.1/2-4" | 56289 | 2.1/2 - 4" | 56294 | 56238 |  |  |  |

|            |        |       |           |       |           |       |       |  |  |  |
|------------|--------|-------|-----------|-------|-----------|-------|-------|--|--|--|
| <b>NPT</b> | 1/2-2" | 56271 | 1/2-3/4"  | 56111 | 56180     |       |       |  |  |  |
|            |        |       | 1-2"      | 56112 | 56181     |       |       |  |  |  |
|            |        |       | 2.1/2-3"  | 56268 | 2.1/2- 3" | 56295 | 56183 |  |  |  |
|            |        |       | 2.1/2- 4" | 56269 | 2.1/2- 4" | 56296 | 56184 |  |  |  |

#### ROTHENBERGER standard / manual die heads

|               |          |       |          |       |          |       |          |       |       |  |
|---------------|----------|-------|----------|-------|----------|-------|----------|-------|-------|--|
| <b>BSPT R</b> | 1/4-3/8" | 56153 | 1/4-3/8" | 56001 | 56135    |       |          |       |       |  |
|               |          |       | 1/2-2"   | 56156 | 1/2-3/4" | 56003 | 56235    |       |       |  |
|               |          |       |          | 56104 | 1-2"     | 56007 | 56236    |       |       |  |
|               |          |       |          |       | 2-3"     | 56006 | 56121    |       |       |  |
|               |          |       |          |       | 3.1/2-4" | 56032 | 3.1/2-4" | 56008 | 56122 |  |

|            |          |       |          |       |          |       |           |       |     |  |
|------------|----------|-------|----------|-------|----------|-------|-----------|-------|-----|--|
| <b>NPT</b> | 1/4-3/8" | 56118 | 1/4-3/8" | 56110 | N/A      |       |           |       |     |  |
|            |          |       | 1/2-2"   | 56156 | 1/2-3/4" | 56111 | 56180     |       |     |  |
|            |          |       |          | 56104 | 1-2"     | 56112 | 56181     |       |     |  |
|            |          |       |          |       | 2.1/2-3" | 56104 | 2.1/2"-3" | 56114 | N/A |  |

|             |            |       |          |       |          |       |     |  |  |
|-------------|------------|-------|----------|-------|----------|-------|-----|--|--|
| <b>BSPP</b> | 1/2-1.1/4" | 56076 | 1/2-3/4" | 56095 | N/A      |       |     |  |  |
|             |            |       | 1.1/2-3" | 56077 | 1-1.1/4" | 56096 | N/A |  |  |
|             |            |       |          | 56077 | 1.1/2-2" | 56097 | N/A |  |  |
|             |            |       |          |       | 2.1/2-3" | 56098 | N/A |  |  |

|            |        |       |          |       |              |       |     |  |  |
|------------|--------|-------|----------|-------|--------------|-------|-----|--|--|
| <b>BSW</b> | 3/8-1" | 56153 | 3/8"     | 56009 | 56161        |       |     |  |  |
|            |        |       | 1/2"     | 56010 | 56162        |       |     |  |  |
|            |        |       | 5/8"     | 56011 | 56163        |       |     |  |  |
|            |        |       | 3/4"     | 56012 | 56164        |       |     |  |  |
|            |        |       | 7/8"     | 56013 | 56165        |       |     |  |  |
|            |        |       | 1"       | 56014 | 56166        |       |     |  |  |
|            |        |       | 1.1/8-2" | 56310 | 1.1/8-1.1/4" | 56185 | N/A |  |  |
|            |        |       |          |       | 1.1/2"       | 56186 | N/A |  |  |
|            |        |       |          |       | 1.5/8-1.3/4" | 56187 | N/A |  |  |
|            |        |       |          |       | 1.7/8-2"     | 56188 | N/A |  |  |
|            |        |       |          |       |              |       |     |  |  |
|            |        |       |          |       |              |       |     |  |  |

|               |         |       |         |       |         |       |     |  |  |
|---------------|---------|-------|---------|-------|---------|-------|-----|--|--|
| <b>Metric</b> | 10 - 24 | 56133 | 10      | 56081 | 56351   |       |     |  |  |
|               |         |       | 12      | 56082 | 56352   |       |     |  |  |
|               |         |       | 14 - 16 | 56083 | 56353   |       |     |  |  |
|               |         |       | 18 - 22 | 56085 | 56355   |       |     |  |  |
|               |         |       | 24      | 56088 | 56358   |       |     |  |  |
|               |         |       | 27 - 36 | 56315 | 27      | 56189 | N/A |  |  |
|               |         |       |         |       | 30 - 33 | 56190 | N/A |  |  |
|               |         |       |         |       | 36      | 56191 | N/A |  |  |
|               |         |       |         |       |         |       |     |  |  |

#### ROTHENBERGER die heads and threading dies for plastic coated pipes

|               |        |       |          |       |          |       |     |  |  |
|---------------|--------|-------|----------|-------|----------|-------|-----|--|--|
| <b>BSPT R</b> | 1/2-2" | 56266 | 1/2-3/4" | 56002 | N/A      |       |     |  |  |
|               |        |       | 1-2"     | 56005 | N/A      |       |     |  |  |
|               |        |       | 1/2-2"   | 56156 | 1/2-3/4" | 56002 | N/A |  |  |
|               |        |       | 1-2"     | 56005 | N/A      |       |     |  |  |



1) RIDGID® is a registered trade mark of the Emerson Electric Co., St. Louis, USA

N/A: not available

# Bonding

## Threading Electric

### COLLINS CLASSIC 22 / RHINO 4"

#### Stationary threader up to Ø 4"

Heavy-duty threading machine for professional mobile and stationary use



#### Product Profile

##### APPLICATION AREA

For the hardest, long term preparatory and serial production requirements in the workshop and on-site, in trade and industry, for pipeline construction as well as for sanitary and heating installations

For the threading of:

|                    |              |
|--------------------|--------------|
| <b>BSPT right:</b> | Ø 1/2 - 4"   |
| <b>NPT:</b>        | Ø 1/2 - 4"   |
| <b>BSPP:</b>       | Ø 1/2 - 4"   |
| <b>Metric:</b>     | Ø 12 - 52 mm |

##### KEY FEATURES

###### Standard Die Head

Only one die head is needed to cut BSPT right / left, BSPP and metric thread types

###### Cost saving

Easy to use with simple and quick change of dies

##### KEY FEATURES

###### Automatic Die Head

- Simple and clear operation, easy to use
- Versatile work with the adjustable auto thread length and thread depth
- Long service life with the HSS precision dies, with easy first cut
- Long life with the optimal cut geometry and outstanding chip discharge

##### TECHNICAL DATA

- Powerful universal motor**, runs R/L
- Motor is double insulated** in accordance with VDE and CEE standards
- High working speed**
- With 6 brush motor** for higher torque
- Overload protection**, security stop switch, over-run stop
- Operational hour counter**
- Motor control light**

4



#### SUPER GRIP Chucking System

Automatic quick grip chuck: R/L chucking, 4 double chucks at both front and rear of machine ensure that pipe is automatically gripped and centred with maximum gripping power

Centred and absolute no-slip grip

##### Chuck jaws easy to exchange

Easy to maintain

#### Cooling / Lubrication

##### Central lubrication for spindle drive

Easy maintenance

##### Sturdy, largely dimensioned oil pump with integrated oil feed

Optimal cooling and lubrication

##### Large, well-positioned shavings collection trough

Easy to empty

##### Guide sled with rack-drive driven on both sides

Precise guiding

Precision pipe cutter, driven on both sides, with review panel, 5-blade deburrer

Precise cutting and deburring



SUPER GRIP detailed view



SUPER GRIP pipe chuck system







### COLLINS CLASSIC 22 A

Threading up to Ø 2"

#### Product Profile

#### TECHNICAL DATA

|                         |                    |
|-------------------------|--------------------|
| Performance:            | 1,800 Watt         |
| Speed:                  | 72 m <sup>-1</sup> |
| Weight:                 | 133 kg             |
| Dimensions (L x W x H): | 960 x 480 x 470 mm |

**With Collins SUPER GRIP Chucking System!**

Scope of delivery: COLLINS CLASSIC 22 A Set with UNIQUAD die head 1/8 - 2" (No. 57015), HSS dies 1/2 - 3/4" (No. 57022), 1 - 2" (No. 57025), safety foot switch (No. 56335), tool, (without transport stand No. 57005)

| Model                  | kg  | 230 V        | 110 V        |
|------------------------|-----|--------------|--------------|
| with Standard Die Head | 133 | <b>57070</b> | <b>57071</b> |



| Model                                     | kg    | No.          | Model                                     | kg   | No.          |
|---|-------|--------------|---|------|--------------|
| Deburrer up to 2", conical, with 5 blades | 1.20  | <b>57011</b> | Replacement cutting wheel for pipe cutter | 0.04 | <b>57010</b> |
| Transport stand, full rubber tyres        | 24.20 | <b>57005</b> | Safety foot switch, 230 V                 | 2.36 | <b>56335</b> |

### COLLINS RHINO 4" Set

Threader up to Ø 4"

#### Product Profile

#### TECHNICAL DATA

|                         |                      |
|-------------------------|----------------------|
| Performance:            | 2,800 Watt           |
| Speed:                  | 25 m <sup>-1</sup>   |
| Weight:                 | 216 kg               |
| Dimensions (L x W x H): | 1,050 x 610 x 560 mm |

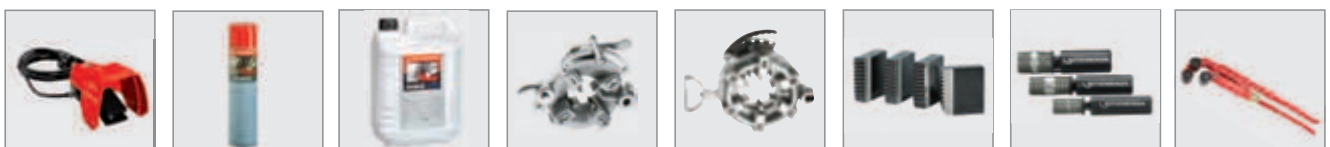
**With Collins SUPER GRIP Chucking System!**

Scope of delivery: COLLINS RHINO 4" Set with UNIQUAD die head 1/8 - 2" (No. 57015), Quadmatic Die Head 2.1/2 - 4" (No. 57016) HSS dies 1/2 - 3/4" (No. 57022), 1 - 2" (No. 57025), 2.1/2 - 4" (No. 57024), Safety foot switch, (No. 56335), tool (without transport stand No. 57105)

| Model                              | kg    | 230 V        |
|------------------------------------|-------|--------------|
| with Standard Head                 | 216   | <b>57100</b> |
| Transport stand, full rubber tyres | 24.20 | <b>57105</b> |



#### ACCESSORIES



| Description                | kg         | No.              | Description                               | kg    | No.          |
|----------------------------|------------|------------------|---|-------|--------------|
| Safety foot switch, 230 V  | 2.36       | <b>135 56335</b> | Pipe roughing wrench                      | 335   | <b>56500</b> |
| Cutting fluid              | <b>125</b> |                  | Deburrer up to 2", conical with 5 blades  | 1.20  | <b>57011</b> |
| High-performance die heads | <b>134</b> |                  | Deburrer up to 4", bladed with 2 blades   | 0.70  | <b>57111</b> |
| Precision dies             | <b>134</b> |                  | Replacement cutting wheel for pipe cutter | 0.04  | <b>57110</b> |
| NIPPLE MAX                 | <b>135</b> |                  | Transport stand, full rubber tyres        | 24.20 | <b>57105</b> |

# Bonding

## Threading Electric

### High-Performance Die Heads

For CLASSIC 22 A and RHINO 4"

For pipe threads Ø 1/8 - 4" and for bolt threads Ø M 6 - M 52

#### Product Profile

#### KEY FEATURES

Simple and quick change of Dies without complication calibration  
Automatic lubrication through the Die head guarantees constant cutting oil film on the pipe surface and a long life for the dies



Model UNIQUAD



Model QUADMATIC



Model AUTOMATIC

| Die head thread type    | Cutting range | also suitable for dies          | AM 300 PR Standard | AM 300 PR Auto | COLLINS CLASSIC Standard | COLLINS RHINO Standard | kg   | No.          |
|-------------------------|---------------|---------------------------------|--------------------|----------------|--------------------------|------------------------|------|--------------|
| <b>BSPT UNIQUAD *</b>   | 1/8 - 2"      | BSPP 1/8 - 2"<br>M 6 - M 52 mm  | 1                  | 1              | 1                        | 1                      | 5.1  | <b>57015</b> |
| <b>BSPT QUADMATIC *</b> | 2.1/2 - 4"    | BSPP 2.1/2 - 4"                 |                    |                |                          | 1                      | 17.9 | <b>57016</b> |
| <b>BSPT Automatic *</b> | 1/2 - 2"      | BSPP 1/2 - 2"                   | 1                  | 1              | 1                        | 1                      | 4.8  | <b>57017</b> |
| <b>NPT UNIQUAD *</b>    | 1/8 - 2"      |                                 | 1                  | 1              | 1                        | 1                      | 4.9  | <b>57018</b> |
| <b>NPT Automatic *</b>  | 1/2 - 2"      |                                 | 1                  | 1              | 1                        | 1                      | 5.1  | <b>57019</b> |
| 1 = included            | 1 = optional  | * = Threading dies not included |                    |                |                          |                        |      |              |

### Precision Threading Dies

CLASSIC 22 A / RHINO 4" (only available in 4 pc. / set)

Technically perfect, high material quality and precise workmanship guarantee easy cutting, clean threads and extremely long service life  
Optimised cutting geometry and outstanding chip discharge

| Thread type size                                   | Thread per inch | for die head  | g     | No.          |
|--|-----------------|---------------|-------|--------------|
| <b>HSS - Threading Dies, BSPT right with pivot</b> |                 |               |       |              |
| 1/8"   | 28              | 57015         | 660   | <b>57020</b> |
| 1/4 - 3/8"   | 19              | 57015         | 660   | <b>57021</b> |
| 1/2 - 3/4"   | 14              | 57015 + 57017 | 630   | <b>57022</b> |
| 1 - 2"   | 11              | 57017         | 590   | <b>57025</b> |
| 2.1/2 - 4"   | 11              | 57016         | 2,800 | <b>57024</b> |
| <b>HSS - Threading Dies, BSPT left</b>             |                 |               |       |              |
| 1 - 2"   | 11              | 57015         | 590   | <b>57082</b> |
| <b>HSS - Threading Dies, NPT</b>                   |                 |               |       |              |
| 1/8"   | 27              | 57018         | 460   | <b>57060</b> |
| 1/4 - 3/8"   | 18              | 57018         | 460   | <b>57061</b> |
| 1/2 - 3/4"   | 14              | 57018 + 57019 | 460   | <b>57062</b> |
| 1 - 2"   | 11              | 57018 + 57019 | 460   | <b>57063</b> |
| <b>HSS - Threading Dies, BSPP</b>                  |                 |               |       |              |
| 1/8"   | 28              | 57015         | 460   | <b>57030</b> |
| 1/4 - 3/8"   | 19              | 57015         | 460   | <b>57031</b> |
| 1/2 - 3/4"   | 14              | 57015 + 57017 | 460   | <b>57132</b> |
| 1 - 2"   | 11              | 57015 + 57017 | 460   | <b>57133</b> |
| 2.1/2 - 3"   | 11              | 57016         | 2,300 | <b>57134</b> |
| 3.1/2 - 4"   | 11              | 57016         | 2,300 | <b>57135</b> |

| Thread type size                    | Thread pitch | for die head | g   | No.          |
|-------------------------------------|--------------|--------------|-----|--------------|
| <b>HSS - Threading Dies, metric</b> |              |              |     |              |
| 8 mm                                | 1.25         | 57015        | 690 | <b>57032</b> |
| 10 mm                               | 1.50         | 57015        | 670 | <b>57033</b> |
| 12 mm                               | 1.75         | 57015        | 660 | <b>57034</b> |
| 14 mm                               | 2.00         | 57015        | 650 | <b>57035</b> |
| 16 mm                               | 2.00         | 57015        | 650 | <b>57036</b> |
| 18 mm                               | 2.50         | 57015        | 640 | <b>57037</b> |
| 20 mm                               | 2.50         | 57015        | 640 | <b>57038</b> |
| 22 mm                               | 2.50         | 57015        | 590 | <b>57039</b> |
| 24 mm                               | 3.00         | 57015        | 620 | <b>57041</b> |
| 27 mm                               | 3.00         | 57015        | 600 | <b>57042</b> |
| 30 mm                               | 3.50         | 57015        | 580 | <b>57043</b> |
| 33 mm                               | 3.50         | 57015        | 580 | <b>57044</b> |
| 36 mm                               | 4.00         | 57015        | 560 | <b>57055</b> |
| 39 mm                               | 4.00         | 57015        | 560 | <b>57045</b> |
| 42 mm                               | 4.50         | 57015        | 500 | <b>57046</b> |
| 45 mm                               | 4.50         | 57015        | 450 | <b>57056</b> |
| 48 mm                               | 5.00         | 57015        | 450 | <b>57057</b> |
| 52 mm                               | 5.00         | 57015        | 450 | <b>57058</b> |

### Pipe Supporting Column

Adjustable height, from 780 up to 1,200 mm with ball track



| Model              | Height / mm | kg  | No.          |
|--------------------|-------------|-----|--------------|
| For pipes up to 6" | 780 - 1,200 | 2.5 | <b>56047</b> |

### Hemp Dispenser

Practical, quick and economical to use. Saves material and protects hemp from dirt. The amount removed is dependent on the thread dimension. Suitable for mounting on a wall or workbench



| Model                         | L mm | g     | No.          |
|-------------------------------|------|-------|--------------|
| Hemp dispenser, chrome-plated | 300  | 65080 |              |
| Hemp spool, combed quality    | 100  | 70    | <b>65081</b> |

### NIPPLE MAX

#### NIPPLE MAX Ø 1/2 - 2"

For the production of nipples and double nipples, grips short pipe lengths from within; hardened, sharpened gripping jaws. For all stationary threading machines.

- Recycling pipe scraps saves money, material and time
- Automatic quick grip of the pipe piece without the need for additional tools
- Pipes are gripped from within and centred:
- No damage to pipe piece



Set (No. 56056) includes: Nipple chuck 1/2" (No. 56060), 3/4" (No. 56061), 1" (No. 56062), 1.1/4" (No. 56063), 1.1/2" (No. 56064), steel carrying case (No. 26410)

| Model                          | kg  | No.          |
|--------------------------------|-----|--------------|
| NIPPLE MAX Set                 |     |              |
| 1/2 - 3/4 - 1 - 1.1/4 - 1.1/2" | 4.4 | <b>56056</b> |
| Nipple chuck 1/2"              | 0.4 | <b>56060</b> |
| Nipple chuck 3/4"              | 0.5 | <b>56061</b> |

| Model               | kg  | No.          |
|---------------------|-----|--------------|
| Nipple chuck 1"     | 0.7 | <b>56062</b> |
| Nipple chuck 1.1/4" | 0.8 | <b>56063</b> |
| Nipple chuck 1.1/2" | 0.9 | <b>56064</b> |
| Nipple chuck 2"     | 1.2 | <b>56065</b> |

### Replacement Safety Foot Switch

For all ROTHENBERGER threading machines

- Complies with industrial associations' safety and accident prevention requirements
- With oil-proof rubber cable and plug
- Foot switch should not be pushed all the way down



| Model  | kg  | No.          |
|--|-----|--------------|
| 3 step, with emergency stop switch, 230 Volt | 2.5 | <b>56335</b> |

### Pipe Roughing Wrench 3/8 - 2"

Wrench made of forged steel, with hardened rolls. Consistent, thread-saving roughing of the entire area



| Model                              | L mm | kg   | No.          |
|------------------------------------|------|------|--------------|
| Pipe Roughing Wrench               | 335  | 1.15 | <b>56500</b> |
| Replacement roughing rolls (3 pc.) |      | 0.30 | <b>56501</b> |





# Bonding

## Roll Grooving

### ROGROOVER 6"

Portable rolling groover for steel pipes up to Ø 6" (150 mm) for rapid rolling of grooves on standard and thin-walled steel pipes

Suitable for installations, sprinkler systems, larger heading units, industrial use and mining

**Extremely light: 12 kg!**

#### Product Profile

##### APPLICATION AREA

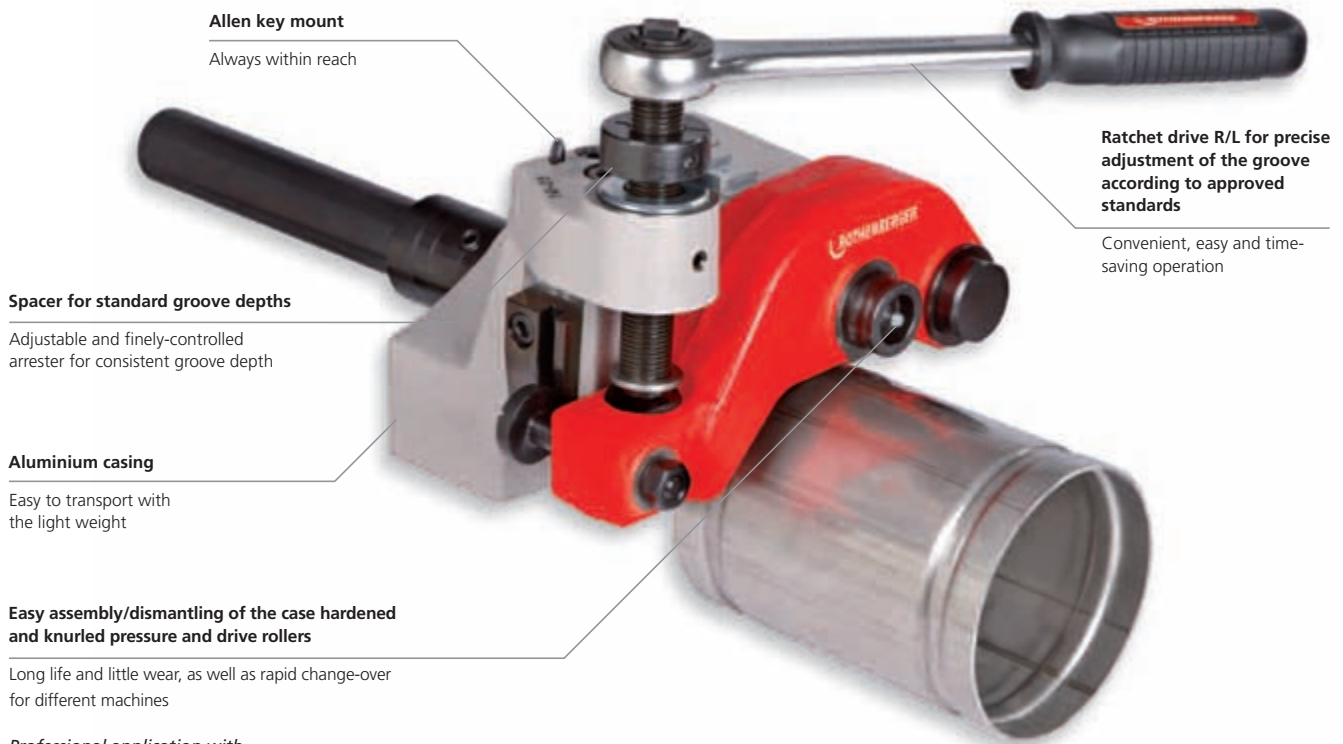
**Standard and thin-walled steel pipes up to 6" (150 mm)**  
**Light weight and compact** design allows for use with the threaders:

|                   |                   |
|-------------------|-------------------|
| SUPERTRONIC® 2000 | ROPOWER® 50 R     |
| SUPERTRONIC® 2 SE | SUPERTRONIC® 3 SE |
| SUPERTRONIC® 4 SE |                   |

##### KEY FEATURES

- Quick connection of pipes anywhere where welding isn't allowed!
- Long life and little wear
- Easy to transport with the light-weight aluminium casing
- Adjustable and finely-controlled arrester for consistent groove depth
- Convenient, easy and time-saving operation

4



*Professional application with threader for the production of grooves*



*Cost-effective production of grooves*



*Detailed view*



*Pipe with grooves*



| Model  | kg   | No. | No.          |
|--|------|-----|--------------|
| ROGROOVER for SUPERTRONIC® 2000              | 14.5 | 1   | <b>56509</b> |
| ROGROOVER for ROPOWER® 50 R, SC 2 SE, REX 2" | 14.5 | 1   | <b>56505</b> |
| ROGROOVER for SUPERTRONIC® 3 SE and REX 3"   | 14.5 | 1   | <b>56506</b> |
| ROGROOVER for SUPERTRONIC® 4 SE              | 14.5 | 1   | <b>56507</b> |
| ROGROOVER for Ridgid 300                     | 16.0 | 1   | <b>56504</b> |
| ROGROOVER for REX 4"                         | 14.5 | 1   | <b>56508</b> |

| Model  | No.          |
|--|--------------|
| Support rail 2"                                  | <b>56510</b> |
| Support rail 3"                                  | <b>56511</b> |
| Support rail 4"                                  | <b>56512</b> |
| Seating adaptor SUPERTRONIC®                     | <b>56514</b> |
| Pressure roller set 1" for ROGROOVER             | <b>56521</b> |
| Pressure roller set for ROGROOVER 1.1/4 - 1.1/2" | <b>56522</b> |
| Pressure roller set for ROGROOVER 2 - 6"         | <b>56523</b> |
| Tripod workbench                                 | <b>70751</b> |

### ROGROOVER 2 - 12"

Electro-hydraulic rolling groover for steel pipes  
 Ø 2-12" (60-325 mm) for rolling of grooves on  
 thin-walled and standard steel pipes

#### Product Profile

##### APPLICATION AREA

Sprinkler systems, installations, larger heading units,  
 industrial use and mining

##### KEY FEATURES

- Sturdy hydraulic-pump with precisely formed grips for ideal handling
- Compact and very stable machine design
- Powerful yet quiet motor
- Fine adjustment for groove depth and regulation

##### TECHNICAL DATA

|                               |                         |
|-------------------------------|-------------------------|
| <b>Working range:</b>         | 2 - 12" (60 - 325 mm)   |
| <b>Pipe wall-thickness:</b>   | 3 - 10 mm               |
| <b>Weight:</b>                | 129 kg                  |
| <b>Dimensions:</b>            | 920 x 460 x 960 mm      |
| <b>Current:</b>               | 230 / 240 V, 50 / 60 Hz |
| <b>Power:</b>                 | 1,100 W                 |
| <b>Speed:</b>                 | 23 U/min.               |
| <b>Max. working pressure:</b> | 8,000 kg                |



Sturdy hydraulic-pump with  
 precisely formed grips

For ideal handling

Powerful yet  
 quiet motor

Fine adjustment of the groove  
 depth and regulation

For optimum results

Pressure valve

Quick application modifications

Stabilizer for large pipes

No slipping of the pipe

Compact and very stable  
 machine design

Safe operation

Fig. Diameter measuring tape

Stabiliser for large pipe diameters  
 adjustable up to 12"



Tool compartment for accessories



Scope of delivery: ROGROOVER machine 2 - 12", roll groove set 2-6", roll groove set 3-6", roll groove set 8-12", pipe support stand, tools for installation, diameter measuring tape, installation and instructional CD

| Model                  | kg    | ☐ | No.       |
|------------------------|-------|---|-----------|
| ROGROOVER 2 - 12"      | 129.0 | 1 | 100000087 |
| Roll Groove set 2 - 6" | 1.5   | 1 | 150000130 |
| Roll Groove set 3 - 6" | 2.2   | 1 | 150000131 |





| Model                   | kg   | ☐ | No.       |
|-------------------------|------|---|-----------|
| Roll Groove set 8 - 12" | 2.4  | 1 | 150000132 |
| Pipe support stand      | 29.0 | 1 | 150000133 |
| Diameter measuring tape | 0.05 | 1 | 150000134 |

# Bonding

## Application Overview Soldering & Welding

### Application Table

Product listing according to application areas

| CARTRIDGE SOLDERING UNITS  |   |   |    |    |   |   |          |  |  |
|--|---|---|---|--|--|--|---|--|--|
|   | <b>SUPER FIRE 3</b>                       |  140-141   |  <br>Ø 35 Ø 28      | <br>Ø 22   |  |  |   |  |  |
|   | <b>POWER FIRE COMPACT</b>                 |  142       |  <br>Ø 28 Ø 22      | <br>Ø 22   |  |  |   |  |  |
|   | <b>ROFLAME PIEZO</b>                      |  142       |   |  |  |  | <br>Ø 22 |  |  |
|    | <b>ROFIRE® PIEZO / ROFIRE® / EASYFIRE</b> |  143       |   |  |  <br>Ø 22 Ø 18 |  <br>Ø 22 Ø 15 |   |  |  |
| Soft soldering up to 450°C  Brazing, etc. 450°C - 1100°C  Gas Welding > 1100°C  |   |   | Disposable gas cartridges  144-145   |  |  |  |   |  |  |
| ACETYLENE AND PROPANE TORCHES  |   |   |   |   |  |  |   |  |  |
|   | <b>AIRAC®</b>                             |  150     |  <br>Ø 54 Ø 35 |  |  |  |   |  |  |
|   | <b>ROCOLT HANDY PIEZO</b>                 |  146-147 |   |  <br>Ø 70 Ø 32 |  |  |   |  |  |
|   | <b>AIRPROP®</b>                           |  148     |   |  <br>Ø 54 Ø 22 |  |  |   |  |  |
|   | <b>TURBOPROP</b>                          |  149     |   |  <br>Ø 54 Ø 28 |  |  |   |  |  |
|   | <b>ROOFING-Set</b>                        |  152     |   |   |  |  |   |  |  |
|   | <b>MULTI 300</b>                          |  151     |   |   |  |  |   |  |  |
|  |   |   | Light steel cylinders  153, 162  |  |  |  |   |  |  |

The bottle colours shown are without obligation!

4





## Application Overview Soldering & Welding

Soft soldering  
up to 450°C
















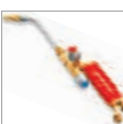









Brazing, etc.  
450°C - 1100°C



Gas  
Welding  
> 1100°C





### GAS-WELDING EQUIPMENT

|   |                    |   |  |   |   |
|---|--------------------|---|--|---|---|
|  | <b>ROFLASH</b>     |  159     | <br><b>Acetylene-Oxygen</b><br>  <br>Welding 0,2-14 mm<br>Cutting 3-75 mm | <br><b>Propane-Oxygen</b>  | <br><b>Maxi 400 Oxygen</b>   |
|  | <b>RE 17</b>       |  160-161 |   <br>Welding 0,5-14 mm<br>Cutting 3-100 mm   |   |   |
|  | <b>ALLGAS 2000</b> |  156-158 |  |   <br>Cutting 0,2-5 mm |   |
|  | <b>ROXY 400 L</b>  |  158     |  |   |   <br>Cutting 0,5-2 mm |

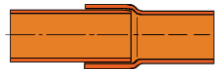


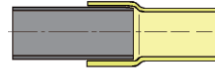
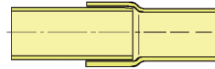
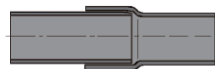
Light steel cylinders  153, 174 Disposable gas cartridges  144-145

### ELECTRIC SOFT SOLDERING UNIT

|   |                     |   |  |
|---|---------------------|---|--|
|  | <b>ROTHERM 2000</b> |  154 | <b>230 V 50/60 Hz</b><br><br>Ø 54 |
|---|---------------------|---|--|

The bottle colours shown are without obligation!

### Soldered Joints

| Material  | Required Hard Solder  | Melting Range  | Working Temperature                  | Standard    |
|---|---|--|--------------------------------------|-------------|
| <b>Copper-Copper</b><br>             | S 34 Cu / S 34 Cu U<br>S 94 / S 94 XN / S1<br>S 2 / S 5<br>S 15 | 630 °C - 730 °C<br>710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 800 °C | 710 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Copper-Carbon Steel</b><br>       | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 630 °C - 730 °C<br>640 °C - 680 °C                                       | 710 °C<br>670 °C                     | DIN EN 1044 |
| <b>Copper-Brass</b><br>              | S 94 / S 94 XN / S1<br>S 2<br>S 5<br>S 15                       | 710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 810 °C<br>650 °C - 810 °C | 730 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Brass-Carbon Steel</b><br>        | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 600 °C - 690 °C<br>595 °C - 630 °C                                       | 680 °C<br>610 °C                     | DIN EN 1044 |
| <b>Brass-Brass</b><br>               | S 94 / S 94 XN<br>S 1 (not standardised)<br>S 2 / S 5<br>S 15   | 710 °C - 880 °C<br>710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 810 °C | 730 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Carbon Steel-Carbon Steel</b><br> | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 630 °C - 730 °C<br>640 °C - 680 °C                                       | 710 °C<br>670 °C                     | DIN EN 1044 |



# Bonding

## Brazing Cartridges

### SUPER FIRE 3

Ergonomic HEAVY-DUTY brazing unit up to Ø 28 mm

For soft soldering, brazing and other applications such as loosening of colour or shrinking of hoses



#### Product Profile

#### APPLICATION AREA

**Brazing:** up to Ø 28 mm (with flame reflector in a wind protected environment)  
**Soft soldering:** up to Ø 35 mm

#### KEY FEATURES

Versatile - for use in all positions (360°)  
 Rapid heat-up, less use!  
 Long service life  
 "Twist 'N Load" system (5 different nozzles available)  
 Precise flame adjustment  
 Up to 2.5 hours of brazing with one cartridge

#### KEY FEATURES

Even more comfortable for longer jobs  
 Reliable Piezo ignition (up to 30,000 ignitions)  
 Double the safety because there is no gas leakage without locked nozzle (Piezo ignition)

#### TECHNICAL DATA

**Coupling:** 7/16" EU  
**Handle:** Aluminium, bolted  
**Burner:** Brass / stainless steel  
**"Twist 'N Load":** 5 different nozzles for different uses

4



### SUPER FIRE 3 Nozzles

Quick exchange with the "Twist 'N Load" system

### "Twist 'N Load"!

Fast "Twist 'n Load" system

Exchange of the nozzle with one movement (5 different nozzles available)

Elaborately manufactured brass / stainless steel design

Long service life

Fine regulating valve

Precise flame adjustment



Nozzle with swirl flame

Rapid heat-up, less use!

Only ignites if torch has been securely locked

Dual safety

Ergonomically designed handle made of high-quality aluminium

Robust and optimum handling

High Performance Piezo

Reliable (up to 30,000 ignitions)



Locking button

Continual use

ROTHENBERGER MAPP<sup>®1)</sup> Gas

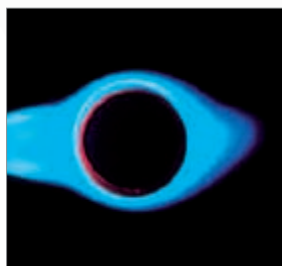
Up to 2.5 hours of brazing with one cartridge

Can be used in any position (360°)!

Soft soldering in heating installation



High flame temperature through cyclone swirl



Brazing in gas installation



Hard soldering in refrigeration and climate control



1) MAPP<sup>®</sup> is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main

### Pin-point Nozzle (460 °C):



(No. 35455)

For fine soldering; precise and stable flame

### Standard Nozzle (700 °C):



(No. 35456)

For soft soldering and other jobs with lower heat application; precise, powerful and stable flame

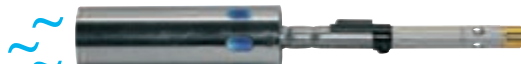
### Cyclone Nozzle (950 °C):



(No. 35457)

For hand and soft soldering with an efficient swirl flame (allows pipe to heat up evenly)

### Hot air Nozzle (400 °C):



(No. 35458)

For the removal of paint and for shrinking work up to approx. 80 mm diameter; wind-stable, powerful current of hot air

### Shrinking Nozzle (720 °C):



(No. 35459)

For shrinking up to dia. 300 mm and for heating; powerful, wind-stable soft flame

## SUPER FIRE 3 HOT BOX

### KEY FEATURES

The ideal service kit  
For repairs, heating installations and refrigeration / air-conditioning technology



5 part set (No. 35490) includes: handle (No. 35445), cyclone nozzle (No. 35457), pin-point nozzle (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2 x MAPP® gas cartridges (No. 035551-A), carrying case

| Model                |   |   | No.          |
|----------------------|---|---|--------------|
| SUPER FIRE 3 HOT BOX | 1 | 4 | <b>35490</b> |

## SUPER FIRE 3 Basic Set

Set (No. 35436 / No. 35431) includes:  
handle (No. 35445), cyclone nozzle (No. 35457)

## SUPER FIRE 3 MAPP®<sup>1)</sup> Set

Set (No. 35432) includes:  
handle (No. 35445), cyclone nozzle (No. 35457),  
MAPP® gas cartridge (No. 035551-A)



No. 035648X

**When placing your order, remember to order the universal torch support (No. 35461) for stationary soldering, too!**



| Model                                 |   |    | No.            |
|---------------------------------------|---|----|----------------|
| SUPER FIRE 3 Basic Set                | 1 | 4  | <b>35436</b>   |
| SUPER FIRE 3 MAPP® Set                | 1 | 10 | <b>35432</b>   |
| SUPER FIRE safety adaptor 7/16" to 1" | 1 | 1  | <b>035648X</b> |

## ACCESSORIES



| Model                          |                  | Model                          |            |
|--------------------------------|------------------|--------------------------------|------------|
| Welding blanket                | <b>165</b>       | External brush for copper pipe | <b>165</b> |
| Internal brush for copper pipe | <b>165</b>       | ROVLIES®                       | <b>165</b> |
| Solder                         | <b>167 - 171</b> | Soft-soldering paste ROSOL     | <b>167</b> |

1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main



# Bonding

## Brazing Cartridges / Soft Soldering Cartridges

### POWER FIRE Compact

PROFESSIONAL brazing- Ø 22 mm  
and soft soldering unit up to Ø 28 mm



#### APPLICATION AREA

**Coupling:** 7/16" EU  
**Brazing:** up to Ø 22 mm  
**Soft soldering:** up to Ø 28 mm



#### KEY FEATURES

##### Characteristics

With Piezo ignition button  
For use in all positions (MAPP®<sup>1)</sup> Gas  
Compact and 45% lighter (compared to POWER FIRE)

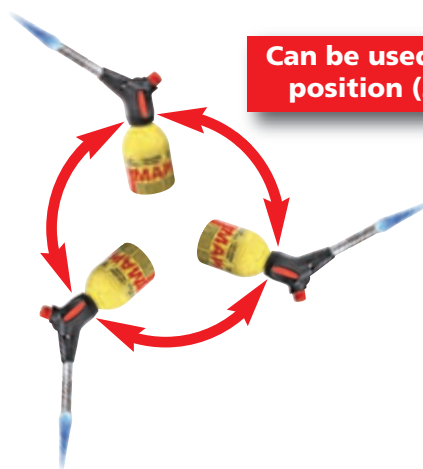


##### High Performance Piezo

Reliable  
(up to 20,000 ignitions)



**Can be used in any position (360°)!**



Nozzle with swirl flame  
Rapid heat-up, less use!



No. 35424

Model No.

|  |              |
|--|--------------|
| POWER FIRE Compact set (torch, MAPP® <sup>1)</sup> Gas     | <b>35424</b> |
| POWER FIRE Compact set (including MAPP® <sup>1)</sup> Gas) | <b>30813</b> |

### ROFLAME PIEZO

CLASSIC soft soldering unit Ø 22 mm



#### APPLICATION AREA

**Coupling:** Pluggable cartridge  
**Soft soldering:** up to Ø 22 mm



#### KEY FEATURES

High-performance torch with stable, ergonomic handle, including Piezo ignition and fine flame adjustment  
Comfortable one-handed use and secure storage surface  
Piezo Ignition  
Precise adjustment of the flame  
Exchangeable torch nozzles in case of repair is needed



Model No.

|   |                  |
|---|------------------|
| ROFLAME PIEZO 1800 °C (w/o gas cartridge C 200) | <b>750 35931</b> |
|---|------------------|

1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main

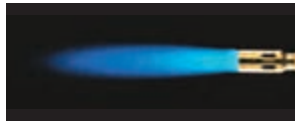
## Soft Soldering Cartridges

### ROFIRE®

ECONOMY soft soldering unit up to Ø 22 mm

#### APPLICATION AREA

**Coupling:** 7/16" EU  
**Brazing:** up to Ø 15 mm  
**Soft soldering:** up to Ø 22 mm



#### KEY FEATURES

- Torch with integrated support bracket
- Precise adjustment of the flame with the fine adjustment valve
- Exchangeable torch nozzles in case of repair is needed

| Model                                     | g   | No.   |
|---|-----|-------|
| ROFIRE® 1800 °C set (torch, Multigas 300) | 760 | 35428 |
| ROFIRE® 1800 °C handle                    |     | 35506 |



### ROFIRE® PIEZO

CLASSIC soft soldering unit Ø 22 mm

Powerful soldering unit for CU-brazing joints up to Ø 15 mm and soft soldering up to Ø 22 mm

#### APPLICATION AREA

**Coupling:** 7/16" EU  
**Brazing:** up to Ø 15 mm  
**Soft soldering:** up to Ø 22 mm



#### KEY FEATURES

- Piezo Ignition
- Precise adjustment of the flame
- Torch head with integrated support bracket
- Exchangeable torch nozzles in case of repair is needed

| Model                                   | g   | No.   |
|---|-----|-------|
| ROFIRE® PIEZO set (torch, Multigas 300) | 760 | 35429 |
| ROFIRE® PIEZO handle                    |     | 35556 |



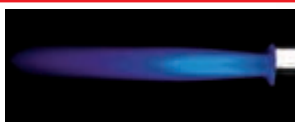
### EASY FIRE

ECONOMY soft soldering up to Ø 22 mm

High performance torch with Piezo ignition

#### APPLICATION AREA

**Coupling:** 7/16" EU  
**Brazing:** up to Ø 15 mm  
**Soft soldering:** up to Ø 22 mm



#### KEY FEATURES

- Piezo ignition
- Precise adjustment of the torch flame
- Suitable for Multigas 300

| Model                               | g   | No.   |
|-------------------------------------|-----|-------|
| EASY FIRE set (torch, Multigas 300) | 730 | 35553 |
| EASY FIRE torch without gas         |     | 35552 |



# Bonding

## Soft Soldering Cartridges

### MAPP®<sup>1)</sup> Gas

Special gas mix for high-performance soldering work

Flame temperatures up to 2,700 °C and 35 % faster than propane



#### Product Profile

##### KEY FEATURES

Extremely high flame temperature, utmost burning performance and guaranteed short working times  
Guaranteed constant top torch performance

##### KEY FEATURES

Easy to use  
Increased user safety through the sandwich valves and aluminium mono-block cylinder  
Longer periods of use

Contains no BUTADIEN

Poses no health risks

ROTHENBERGER MAPP®<sup>1)</sup> Gas is produced in ultra-modern filling plants and processor-controlled batching systems

Guaranteed constant top torch performance

Special gas mixture with outstanding flame characteristics

Extreme flame temperatures, utmost torch performance and guaranteed short working times

7/16" Sandwich valve

Increased safety



Less weight compared to conventional steel cylinders (228g empty)

Easy to use

**MAPP®<sup>1)</sup> monoblock aluminium cylinder**

TÜV tested gas cartridge (drawn from solid material)

Increased safety for the user

Burns approx. 1/3 longer than propane

Up to 2.5 hours of use

**MAPP®<sup>1)</sup> Gas**  
Special gas mixture researched by ROTHENBERGER



Fig. MAPP®<sup>1)</sup> Gas



### Packaging Profile

| Model                            | MAPP® <sup>1)</sup> Gas |
|----------------------------------|-------------------------|
| No.                              | 035551-A                |
| EAN Code                         | 4004625355510           |
| Product size (mm) (W x H)        | 80 x 285                |
| Contents (ml)                    | 750                     |
| Weight (g)                       | 450                     |
| Unit per PU                      | 12                      |
| PU per layer / palette           | 8                       |
| Layer per palette                | 3                       |
| Units per palette                | 288                     |
| Number of palettes per truckload | 60                      |
| Units per truckload              | 17,280                  |
| Palette weight (kg)              | 241                     |
| Palette size (mm) (L x W x H)    | 800 x 1,200 x 1,000     |
| Carton size (mm) (L x W x H)     | 320 x 295 x 250         |

| Model                                 | Contents |          |                 | No. |
|---------------------------------------|----------|----------|-----------------|-----|
| MAPP® <sup>1)</sup> gas cartridge     | 750 ml   | 12 / 360 | <b>035551-A</b> |     |
| Languages: D, GB, F, E, I, P          |          |          |                 |     |
| MAPP® <sup>1)</sup> gas cartridge     | 750 ml   | 12 / 360 | <b>035551-B</b> |     |
| Languages: DK, NL, SE, FI, FR, RU     |          |          |                 |     |
| MAPP® <sup>1)</sup> gas cartridge     | 750 ml   | 12 / 360 | <b>035551-C</b> |     |
| Languages: CZ, PL, HU, BG, TR, GR     |          |          |                 |     |
| Turners can be found starting on  141 |          |          |                 |     |

1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main





## Soft Soldering Cartridges

### Maxigas 400

High-performance welding, cutting and brazing gas for flame temperatures up to 2,200 °C. Gas cartridge with 7/16" EU coupling thread



### Multigas 300

Propane / butane gas mixture for flame temperatures up to 1,900 °C. Gas cartridge with 7/16" EU coupling thread



|                                  |                     |
|----------------------------------|---------------------|
| Model                            | <b>Maxigas 400</b>  |
| No.                              | <b>035570-A/-B</b>  |
| EAN Code                         | 4004625355701       |
| Product size (mm) (W x H)        | 65 x 260            |
| Contents (ml)                    | 600                 |
| Weight (g)                       | 352                 |
| Unit per PU                      | 24                  |
| PU per layer / palette           | 9                   |
| Layer per palette                | 3                   |
| Units per palette                | 648                 |
| Number of palettes per truckload | 60                  |
| Units per truckload              | 38.880              |
| Palette weight (kg)              | 195                 |
| Palette size (mm) (L x W x H)    | 800 x 1,200 x 1,000 |
| Carton size (mm) (L x W x H)     | 405 x 272 x 264     |

|                                  |                     |
|----------------------------------|---------------------|
| Model                            | <b>Multigas 300</b> |
| No.                              | <b>035510-A/-B</b>  |
| EAN Code                         | 4004625355107       |
| Product size (mm) (W x H)        | 65 x 260            |
| Contents (ml)                    | 600                 |
| Weight (g)                       | 338                 |
| Unit per PU                      | 24                  |
| PU per layer / palette           | 9                   |
| Layer per palette                | 3                   |
| Units per palette                | 648                 |
| Number of palettes per truckload | 60                  |
| Units per truckload              | 38.880              |
| Palette weight (kg)              | 191                 |
| Palette size (mm) (L x W x H)    | 800 x 1,200 x 1,000 |
| Carton size (mm) (L x W x H)     | 405 x 272 x 264     |

### Propane Gas

Gas cartridges for flame temperatures up to 1,900 °C. With EU coupling 7/16"



### C 200 Supergas

Pierceable butane cartridge with propane contents, also for working at low temperatures. Manufactured according to EN 417



|                                  |                         |
|----------------------------------|-------------------------|
| Model                            | <b>Propane Gas 2000</b> |
| No.                              | <b>035546-A/-B</b>      |
| EAN Code                         | 4004625355466           |
| Product size (mm) (W x H)        | 80 x 285                |
| Contents (ml)                    | 750                     |
| Weight (g)                       | 450                     |
| Unit per PU                      | 12                      |
| VPE pro Lage / Palette           | 8                       |
| Layer per palette                | 3                       |
| Units per palette                | 288                     |
| Number of palettes per truckload | 60                      |
| Units per truckload              | 17,280                  |
| Palette weight (kg)              | 198                     |
| Palette size (mm) (L x W x H)    | 800 x 1,200 x 1,000     |
| Carton size (mm) (L x W x H)     | 320 x 295 x 250         |

|                                  |                       |
|----------------------------------|-----------------------|
| Model                            | <b>C 200 Supergas</b> |
| No.                              | <b>035900-A/-B</b>    |
| EAN Code                         | 4004625359006         |
| Product size (mm) (W x H)        | 90 x 95               |
| Contents (ml)                    | 190                   |
| Weight (g)                       | 290                   |
| Unit per PU                      | 36                    |
| VPE pro Lage / Palette           | 9                     |
| Layer per palette                | 3                     |
| Units per palette                | 972                   |
| Number of palettes per truckload | 60                    |
| Units per truckload              | 58,320                |
| Palette weight (kg)              | 251                   |
| Palette size (mm) (L x W x H)    | 800 x 1,200 x 1,000   |
| Carton size (mm) (L x W x H)     | 405 x 272 x 264       |

# Bonding

## Brazing Cylinders

### ROCOLT HANDY PIEZO Set

Professional brazing system with quick-change torch

Three torch nozzles for different applications



#### Product Profile

##### APPLICATION AREA

**Brazing:** up to Ø 18 mm  
**Soft soldering:** up to Ø 32 mm  
**Warming-up:** up to Ø 60 mm

##### KEY FEATURES

Three torch nozzles for different applications  
 Reliable PIEZO ignition for up to 30,000 ignitions  
 Increased safety with the hose failure protection

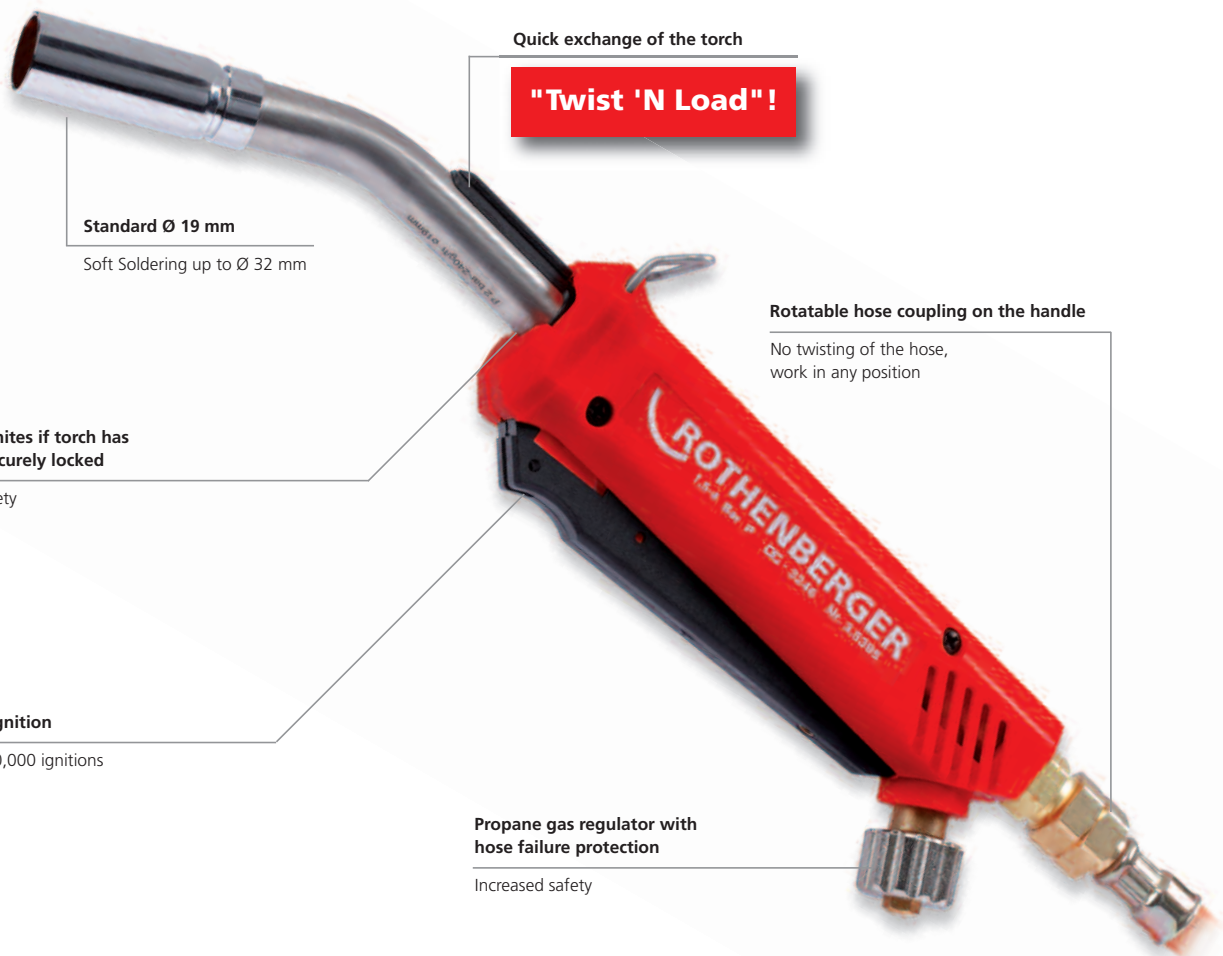
##### KEY FEATURES

No twisting of the hose, work in any position  
 Tool-free nozzle exchange with the fast "Twist 'N Load" system

##### TECHNICAL DATA

**Coupling:** 3/8" left  
**Handle:** Plastic, with screws  
**Burner:** Brass / stainless steel

4



Quick exchange of the torch

**"Twist 'N Load" !**

Standard Ø 19 mm

Soft Soldering up to Ø 32 mm

Rotatable hose coupling on the handle

No twisting of the hose,  
work in any position

Only ignites if torch has  
been securely locked

Dual safety

PIEZO ignition

Up to 30,000 ignitions

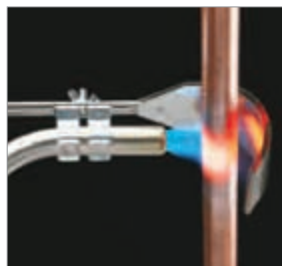
Propane gas regulator with  
hose failure protection

Increased safety

PIEZO ignition



Application with flame reflector



Brazing

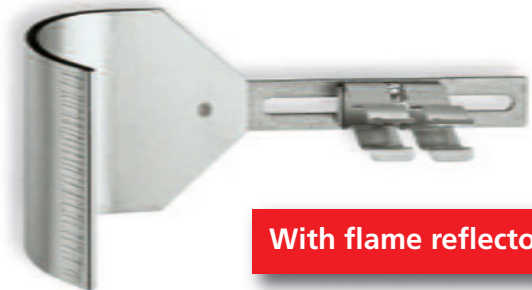


Soft soldering



### ROCOLT HANDY PIEZO Set

8-part set (No. 35390) includes: ROCOLT handle (No. 35395), standard torch 19 mm (No. 35378), cyclone torch (No. 35398), pressure reducer including rotatable hose failure protection (No. 35356), propane hose 3 m (No. 35383), flame reflector 65 mm (No. 31043), ROVLIES® (No. 45268), plastic carrying case (No. 35355)



**With flame reflector!**



| Model                  | kg  | No.          |
|------------------------|-----|--------------|
| ROCOLT HANDY PIEZO Set | 1.5 | <b>35390</b> |
| ROCOLT HANDY Handle    | 0.1 | <b>35395</b> |

### ROCOLT HANDY PIEZO Standard Torch

Standard torch with extremely short, bundled flame for low consumption. Ideal burner for brazing, soft soldering, warming up annealing, hardening, etc.



Soft soldering Ø 12 mm  
(No. 35377)

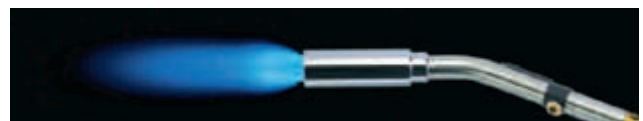
Soft soldering Ø 32 mm  
(No. 35378)

Soft soldering Ø 70 mm  
(No. 35379)



### ROCOLT HANDY PIEZO Cyclone Torch

Cyclone torch with optimum enveloping flame aspect when soldering pipes and fittings. Ideal burner for brazing, soft soldering, warming up, annealing, hardening, etc.



Soft soldering Ø 28 mm  
Brazing Ø 15 mm  
(No. 35397)

Soft soldering Ø 32 mm  
Brazing Ø 18 mm  
(No. 35398)

Soft soldering Ø 70 mm  
Brazing Ø 32 mm  
(No. 35399)



| Model                | Torch Ø mm | g   | No.          | Model               | Torch Ø mm | g   | No.          |
|----------------------|------------|-----|--------------|---------------------|------------|-----|--------------|
| PIEZO Standard Torch | 14         | 160 | <b>35377</b> | PIEZO Cyclone Torch | 14         | 180 | <b>35397</b> |
| PIEZO Standard Torch | 19         | 150 | <b>35378</b> | PIEZO Cyclone Torch | 19         | 150 | <b>35398</b> |
| PIEZO Standard Torch | 25         | 160 | <b>35379</b> | PIEZO Cyclone Torch | 25         | 180 | <b>35399</b> |

### ACCESSORIES



| Model                          |                  | Model                          |            |
|--------------------------------|------------------|--------------------------------|------------|
| Welding blanket                | <b>165</b>       | External brush for copper pipe | <b>165</b> |
| Internal brush for copper pipe | <b>165</b>       | ROVLIES®                       | <b>165</b> |
| Solder                         | <b>167 - 169</b> | ROSOL Soft soldering paste     | <b>167</b> |



# Bonding

## Brazing Cylinders

### AIRPROP®

Propane high-performance torches for brazing up to Ø 22 mm and soft soldering up to Ø 54 mm

For brazing and soft soldering of copper and steel pipes up to 2,000 °C without oxygen, as well as warming up, shrinking and flame cleaning



#### Product Profile

##### KEY FEATURES

- Bundled, concentrated and hot flame with the built-in gas turbine in brazing torch
- Absolutely gas-tight with the optimised valve technology
- Gas-saving operation with the smooth-running economy valve
- Fast burner exchange without tools

##### TECHNICAL DATA

- Self-induced air:** Turbine and combustion chamber
- Torch:** Surface treated, chromed brass
- Hose coupling:** 3/8" L

#### Built-in gas turbine in brazing torch

Bundled, concentrated and hot flame



**Absolutely gas-tight connection thanks to dual O-ring technology**

Fast burner exchange without tools

#### Optimised valve technology

Absolutely gas tight

#### Shut-off valve

Prevents uncontrolled gas escape

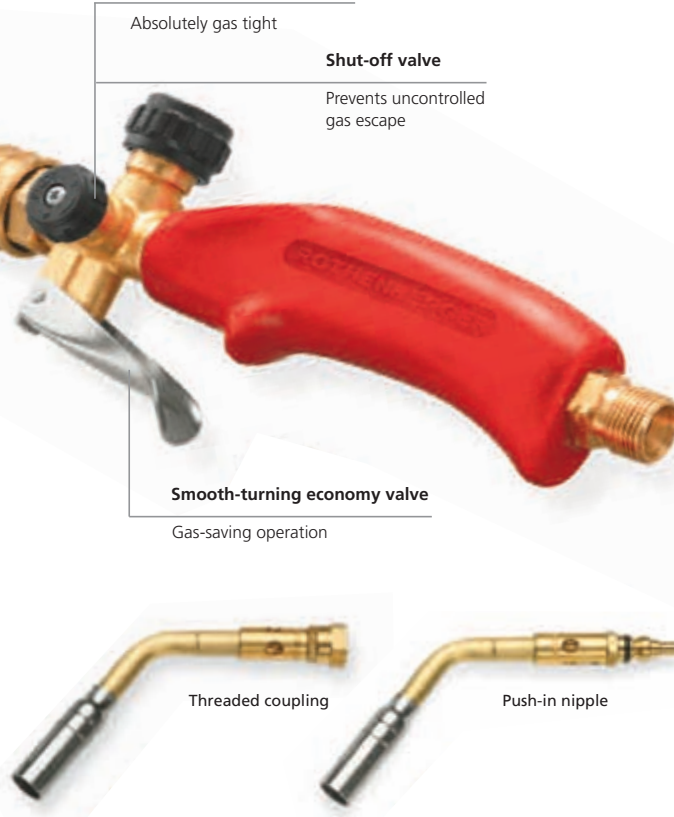
#### Smooth-turning economy valve

Gas-saving operation



Sets include: Safety handle with push-in coupling (No. 31009), brazing torch with push-in nipple Ø 14 mm (No. 31013) / Ø 16 mm (No. 31014) / Ø 19 mm (No. 31015), 2.5 m propane hose with 3/8" L coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

| Model  | kg  | No.          |
|--|-----|--------------|
| AIRPROP® Brazing set without propane regulator   | 2.8 | <b>31092</b> |
| AIRPROP® Brazing set with propane regulator (as in set (No. 31092) but with regulator (No. 32081) (W 21.8 L – R3/8 L)) | 3.1 | <b>31091</b> |
| Flame cleaning torch 20/ 50 mm   | 0.2 | <b>30922</b> |



Threaded coupling

Push-in nipple

#### AIRPROP® brazing burner with threaded coupling

| Ø mm  | L mm | g/h 2 bar | kWh – kcal – BTU      | g   | No.          |
|-------|------|-----------|-----------------------|-----|--------------|
| 14 mm | 140  | 125       | 1.60 – 1,375 – 5,465  | 95  | <b>30913</b> |
| 16 mm | 145  | 180       | 2.30 – 3,300 – 7,885  | 100 | <b>30914</b> |
| 19 mm | 170  | 300       | 3.84 – 3,300 – 13,115 | 130 | <b>30915</b> |
| 22 mm | 171  | 400       | 5.12 – 4,400 – 26,195 | 145 | <b>30916</b> |

#### AIRPROP® brazing burner with push-in nipple coup-

| Ø mm  | L mm | g/h 2 bar | kWh – kcal – BTU      | g   | No.          |
|-------|------|-----------|-----------------------|-----|--------------|
| 14 mm | 140  | 125       | 1.60 – 1,375 – 5,465  | 95  | <b>31013</b> |
| 16 mm | 145  | 180       | 2.30 – 3,300 – 7,885  | 100 | <b>31014</b> |
| 19 mm | 170  | 300       | 3.84 – 3,300 – 13,115 | 130 | <b>31015</b> |
| 22 mm | 171  | 400       | 5.12 – 4,400 – 26,195 | 145 | <b>31016</b> |

### TURBOPROP

Propane high-performance torch for brazing up to Ø 28 mm and soft soldering Ø 54 mm

For brazing and soft soldering of copper and steel pipes up to 2,200 °C without oxygen, as well as for warming up, shrinking and flame cleaning



#### Product Profile

##### KEY FEATURES

- High flame temperature due to turbine with increased oxygen self-induced air and 4 to 5-fold flame chamber
- Fast burner exchange without tools
- Gas-saving operation with the smooth-running economy valve
- Shut-off valve prevents uncontrolled gas escape

##### TECHNICAL DATA

- Self-induced air:** Turbine and combustion chamber
- Torch:** Surface treated, chromed brass
- Hose coupling:** 3/8" L

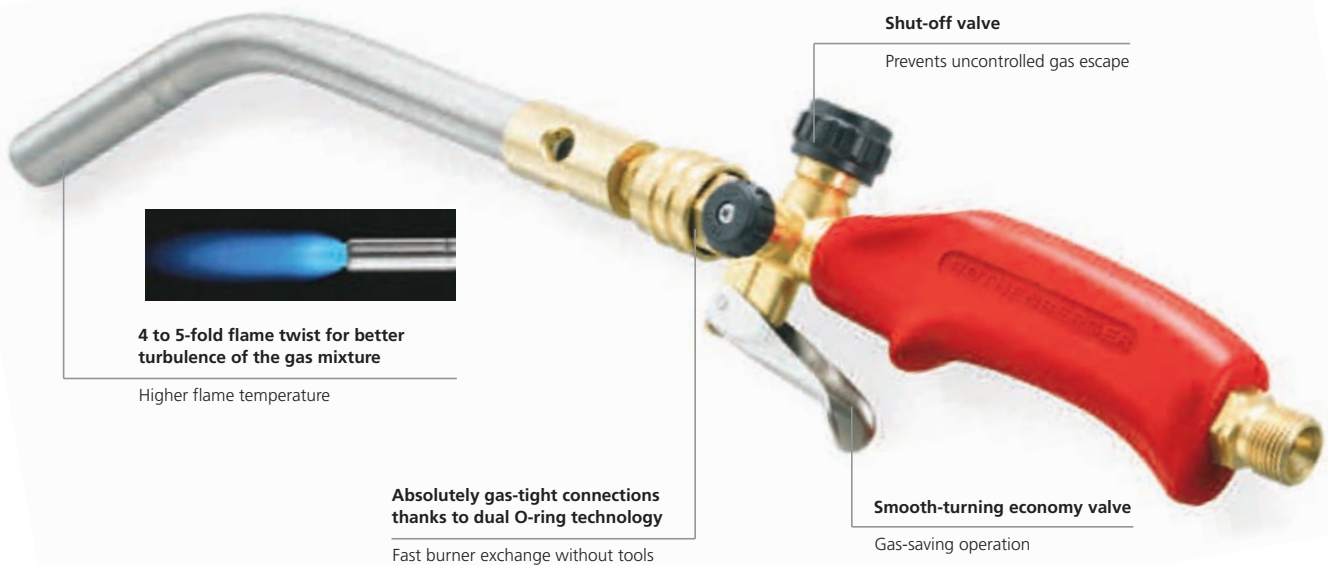


Fig. TURBOPROP torch with push-in nipple

Sets include: Safety handle with push-in coupling (No. 31009), brazing torch with push-in nipple Ø 12 mm (No. 31032) / Ø 15 mm (No. 31033) / Ø 19 mm (No. 31034), 2.5 m propane hose with 3/8" L coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)



| Model   | kg  | No.          |
|---|-----|--------------|
| TURBOPROP set without propane regulator   | 2.8 | <b>31090</b> |
| TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 3.2081E) (W 21,8 L – R 3/8 L))  | 3.1 | <b>31094</b> |
| TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 3.2083) (POL 7/8 L – R 3/8 L))  | 3.1 | <b>31037</b> |
| TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 32084) (W 20 x 14 L – R 3/8 L)) | 3.1 | <b>31036</b> |

#### TURBOPROP brazing torch with push-in nipple

| Ø mm  | L mm | g/h 2 bar | kWh – kcal – BTU      | g   | No.          |
|-------|------|-----------|-----------------------|-----|--------------|
| 10 mm | 165  | 70        | 1.89 – 770 – 3,050    | 70  | <b>31031</b> |
| 12 mm | 175  | 110       | 1.41 – 1,210 – 4,815  | 90  | <b>31032</b> |
| 15 mm | 195  | 180       | 2.30 – 1,980 – 7,855  | 110 | <b>31033</b> |
| 18 mm | 230  | 240       | 3.07 – 2,640 – 10,485 | 160 | <b>31034</b> |
| 24 mm | 270  | 450       | 5.75 – 4,950 – 19,640 | 230 | <b>31035</b> |

# Bonding

## Brazing Cylinders

### AIRAC® Set

Acetylene brazing torch up to Ø 35 mm with 2,350 °C

Ideal brazing unit - efficient, weight-saving and fast compared to gas welding units (no additional oxygen cylinders needed)



#### Product Profile

##### KEY FEATURES

Oxygen from the surrounding air and acetylene are fed without pressure into the burner and with the special construction of the burner produce a flame temperature of 2,350° C with a concentrated, pointed flame for precise and fast work  
Ideal for refrigeration installation

##### KEY FEATURES

Scale build-up on the treated surface is prevented by the nitrogen that is introduced into the air flow (shielding gas effect)  
Light weight makes transporting easy (one-cylinder system)  
Maximal performance with the turbine and combustion chamber effect  
Shut-off valve prevents uncontrolled gas leaks  
Gas-saving use with the smooth-running economy valve

4



High-performance injections burner only for acetylene 2,350 °C

Powerful operation

Turbine and combustion chamber effect, self-induced air

Maximum performance



Shut-off valve

Prevents uncontrolled gas leaks

Smooth running economy valve

Gas-saving operation



10-piece set (No. 31093) includes: Safety handle (No. 34991), brazing torch size 2 (No. 35022) / size 3 (No. 35023) / size 4 (No. 35024), 2.5 m acetylene hose (No. 35203), bend with nut 150 mm (No. 35110), torch spanner 14 x 19 mm (No. 32073), safety igniter (No. 32077), replacement flints (No. 32079), steel case (No. 35005)

| Model                                    | kg  | No.          |
|--|-----|--------------|
| AIRAC® brazing set in steel case         | 2.9 | <b>31093</b> |
| Further accessories can be found on  162 |     |              |

### AIRAC® Safety Handle

Safety handle with economy, regulating and shut-off valve, threaded coupling M 16 x 1, hose coupling R 3/8" L



| Model                                     | g   | No.          |
|---|-----|--------------|
| Safety handle                             | 290 | <b>34991</b> |
| Repair kit for shut-off valve, complete   | 10  | <b>30101</b> |
| Repair kit for regulating valve, complete | 10  | <b>30102</b> |
| Repair kit for economy valve, complete    | 10  | <b>30103</b> |

### AIRAC® Brazing Torch

Made of surface-handled brass, stable and concentrated flame



| Model                  | Pipe Ø  | g  | No.          |
|------------------------|---------|----|--------------|
| Bend with nut (150 mm) |         | 80 | <b>35110</b> |
| Size 2                 | 12 - 15 | 40 | <b>35022</b> |
| Size 3                 | 18 - 22 | 50 | <b>35023</b> |
| Size 4                 | 28 - 35 | 70 | <b>35024</b> |



## Soft-Soldering Cylinders

### MULTI 300 Propane Soft Soldering Kit

For soft soldering of copper pipes, for tin and lead soldering, for tinning, warming up, flame cleaning, etc.



#### Product Profile

##### KEY FEATURES

- For all types of fine soldering in the areas of electronics and telecommunications
- For working with lead (gutters, laminations and roof edging, ventilation shafts, etc.)

##### TECHNICAL DATA

Propane handle with heat insulated wooden grip  
 Rotatable air / rotary valve for the adjustment of an especially fine flame  
 Rotatable hose coupling M10 x 1 L  
 With longer ball spindle and dual spring control  
 Favourable working pressure with 1.5 bar



Fig. Similar

**3-part set** (No. 35489) includes: Soft soldering iron copper head with 350 g flat (No. 520849), 2 m propane hose (No. 30927), small propane cylinder 0.5 kg with hook (No. 33079)

**13-part set** (No. 35488) includes: Soft soldering iron with copper head 350 g flat (No. 520849), soft soldering torch Ø 17 mm (No. 520856) / Ø 20 mm (No. 520857), wide torch 45 mm (No. 520845), propane regulator 0-6 bar (No. 32082), 2 m propane hose (No. 30927), small propane cylinder 0.5 kg with hook (No. 33079), refilling adaptor (No. 32207), torch spanner (No. 35530), open-ended spanner (No. 32073), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35487)

| Model  | kg  | No.          |
|--|-----|--------------|
| MULTI 300 / Kit A without propane regulator          | 4.1 | <b>35486</b> |
| MULTI 300 / Kit A with propane regulator (No. 32082) | 4.3 | <b>35489</b> |
| MULTI 300 / Kit B                                    | 9   | <b>35488</b> |

#### ACCESSORIES



| Description                                      | g   | No.           | Description                                     | g    | No.           |
|--|-----|---------------|---|------|---------------|
| Soft soldering iron with handle, iron torch,     | 940 | <b>520849</b> | Copper Head 250 g pointed                       | 270  | <b>32099</b>  |
| Iron Holder, wind protector, copper head         |     |               | Copper Head 350 g flat                          | 270  | <b>32075</b>  |
| Soft soldering iron with handle, iron burner,    | 570 | <b>520840</b> | Copper Head 350 g pointed                       | 370  | <b>32076</b>  |
| Iron Holder, wind protector, without copper head |     |               | Soft soldering torch size 5, Ø 17 mm, M 15 x 1  | 70   | <b>520856</b> |
| Handle with hose coupling M 10 x 1 L             | 300 | <b>520850</b> | Soft soldering burner size 7, Ø 20 mm, M 15 x 1 | 120  | <b>520857</b> |
| Iron Burner with coupling M 15 x 1               | 70  | <b>520865</b> | Steel case                                      | 3390 | <b>35487</b>  |
| Iron Holder with foot                            | 100 | <b>520866</b> | Torch spanner                                   | 60   | <b>35530</b>  |
| Wind protector                                   | 100 | <b>520867</b> | Safety igniter with rolling file                | 60   | <b>32077</b>  |
| Copper Head 250 g flat                           | 270 | <b>32098</b>  | Replacement flints, tin with 5 pieces           | 15   | <b>32088</b>  |

# Bonding

## Soft Soldering Cylinders

### ROOFING-Set

Propane surface-heating torch with Ø 63 mm high-performance torch nozzle



#### Product Profile

##### APPLICATION AREA

Ideal for roofing and asphalt work and for bonding of bituminous sheeting, large-scale burning of weeds, defrosting, insulation, shrinking, drying and warming up.

##### KEY FEATURES

- Large working range with 5 m propane hose
- Efficient use even in adverse weather conditions with the flame stabiliser
- High-performance burner with flame stabiliser chrome plated with a reinforced edge
- Burner support

##### TECHNICAL DATA

600 mm burner tube  
Burner support

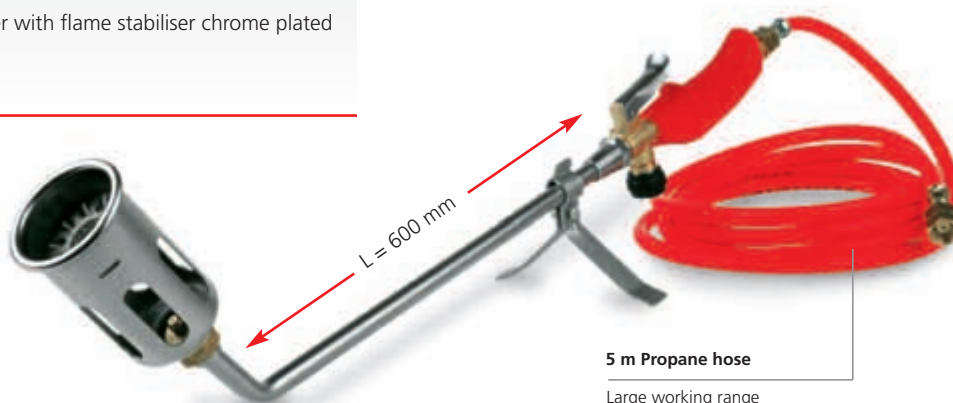


4



Ø 63 mm

**Burner support included!**



5 m Propane hose

Large working range

Ideal for roofing and asphalt work



600 mm burner tube with support and 5.0 m propane hose



5-part set (No. 030954E) includes: Propane handle (No. 030910D), 63 mm high-performance torch (No. 32163), 600 mm torch pipe (No. 32160), 5.0 m propane hose (No. 32203), torch support (No. 32213)

| Model          | g     | No.           |
|----------------|-------|---------------|
| ROOFING-Set    | 1,920 | <b>30954</b>  |
| Burner support | 60    | <b>032213</b> |

### Extensions

Special tube, chrome plated, angled 40°, inlet M 14 x 1, outlet M 20 x 1



| L<br>mm | g   | No.          | L<br>mm | g   | No.          |
|---------|-----|--------------|---------|-----|--------------|
| 100     | 90  | <b>32110</b> | 350     | 190 | <b>32135</b> |
| 200     | 120 | <b>32120</b> | 600     | 290 | <b>32160</b> |

### Surface-Heating Torch Heads

High-efficiency torch heads with flame stabilisers, made of special chrome plated steel, reinforced edge. For warming up, shrinking, insulating, hardening, general repair work, etc.  
Threaded M 20 x 1 coupling



| mm     | L<br>mm | g/h<br>2 bar | kWh – kcal – BTU         | g   | No.          |
|--------|---------|--------------|--------------------------|-----|--------------|
| 45     | 102     | 2500         | 32.00 – 27,500 – 109,280 | 240 | <b>32045</b> |
| 51     | 112     | 3800         | 48.60 – 41,800 – 165,970 | 270 | <b>32051</b> |
| 63     | 138     | 6700         | 85.70 – 73,700 – 292,670 | 440 | <b>32063</b> |
| closed |         |              |                          |     |              |
| 45     | 102     | 2500         | 32.00 – 27,500 – 109,280 | 240 | <b>32111</b> |
| 51     | 112     | 3800         | 48.60 – 41,800 – 165,970 | 270 | <b>32112</b> |
| 57     | 126     | 5500         | 70.35 – 60,500 – 240,257 | 350 | <b>32113</b> |
| 63     | 138     | 6700         | 85.70 – 73,700 – 292,670 | 440 | <b>32114</b> |

### Safety Propane Handles

With economy, regulating and shut-off valves, hose coupling R 3/8" L

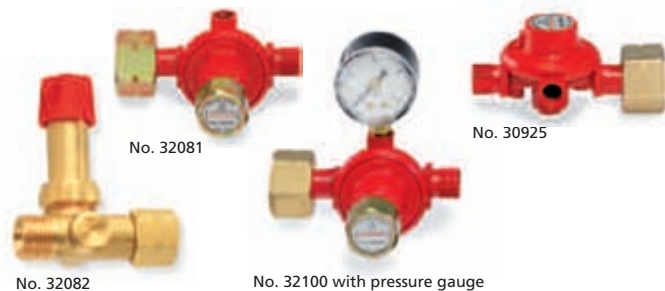
| Model                                       |     | g | No.          |
|---|-----|---|--------------|
| Safety Propane handle with push-in coupling | 350 |   | <b>31009</b> |
| Safety Propane handle with M 14x1 coupling  | 290 |   | <b>31989</b> |
| Repair kit with shut-off valve, complete    | 10  |   | <b>30101</b> |
| Repair kit with regulating valve, complete  | 10  |   | <b>30102</b> |



### Propane Regulators

Brass, for 0.5 kg, 5 kg and 11 kg cylinders

| Inlet            | Outlet   | Working pressure Bar | Performance kg/h | g   | No.          |
|------------------|----------|----------------------|------------------|-----|--------------|
| W 21.8 x 1/14" L | R 3/8" L | 0.5 - 4.0            | 8                | 240 | <b>32081</b> |
| R 3/8" L         | R 3/8" L | 0.5 - 4.0            | 8                | 200 | <b>32082</b> |
| W 21.8 x 1/14" L | R 3/8" L |                      | 10               | 270 | <b>32100</b> |
| W 21.8 x 1/14" L | R 3/8" L |                      | 8                | 230 | <b>30925</b> |



### Propane Hoses

Top quality, DIN / DVGW tested, with strong inlay, durable and flexible, mounted with sleeves and nuts in middle (DK 6) or high-pressure (DK 30) versions

| L m | Inlet    | Outlet     | Pressure class | Interior-Ø mm Wall thickness | g     | No.          |
|-----|----------|------------|----------------|------------------------------|-------|--------------|
| 2   | R 3/8" L | M 10 x 1 L | DK 6           | 4.0 x 3.5                    | 310   | <b>30927</b> |
| 2.5 | R 3/8" L | R 3/8" L   | DK 6           | 4.0 x 3.5                    | 350   | <b>32201</b> |
| 5   | R 3/8" L | R 3/8" L   | DK 30          | 4.0 x 4.0                    | 730   | <b>33310</b> |
| 10  | R 3/8" L | R 3/8" L   | DK 30          | 6.3 x 5.0                    | 1,650 | <b>32223</b> |



### Propane Hose Failure Protection

Nominal pressure 1.5 - 4 bar, brass, DIN / DVGW tested.

Automatic interruption of gas supply if hose is damaged or loosened, push-button for resetting after interruption

| Inlet    | Outlet   | Performance kg/h | Push button | g   | No.          |
|----------|----------|------------------|-------------|-----|--------------|
| R 3/8" L | R 3/8" L | 10               | blue        | 130 | <b>35925</b> |



### Refilling Adaptor

For refilling 0.5 propane cylinders from 3.5 or 11 kg propane cylinders, brass with guide pin

| Inlet            | Outlet   | g   | No.          |
|------------------|----------|-----|--------------|
| W 21.8 x 1/14" L | R 3/8" L | 160 | <b>32207</b> |



### Propane Lightweight Steel Cylinder

With cylinder valve, TÜV (= Technical Supervisory Association, Germany) tested, according to TRG

| Model                            | Outlet | Contents | kg    | No.          |
|----------------------------------|--------|----------|-------|--------------|
| Small cylinder, 0.5 kg with foot | R 3/8" | empty    | 2.75  | <b>33079</b> |
| Cylinder 5 kg, with foot and cap |        | filled   | 12.60 | <b>31081</b> |
| W 21.8 x 1/14" L Collar          |        |          |       | <b>35636</b> |



With 0.5 kg cylinder protective collar included in delivery



No. 31081



# Bonding

## Soft Soldering Electric

### ROThERM 2000

Electric soft soldering unit up to Ø 54 mm / 2.1/8"



#### Product Profile

##### APPLICATION AREA

For simple, safe and time-saving soft soldering without a flame. Particularly suitable for repair and modification work in surroundings or rooms with a fire hazard, as well as in building refurbishment

**Soft soldering of Copper pipes up to:**  
Ø 6 - 54 mm, 1/4 - 2.1/8"

##### KEY FEATURES

- Soldering without open flame
- Large working radius, also when working under ceilings
- Comfortable transport and convenient use
- High performance, short soldering times
- Thermal overload protection turns device off automatically

##### KEY FEATURES

- Handle shell will not overheat
- No purchasing on handling of gas cylinders necessary
- Equivalent with transport terms
- Problem-free connection on every 230 V outlet, 2 m connection cable
- Fast return on investment
- Power control lamp (red) and operating control lamp (green), equipment fuse accessible from outside

##### TECHNICAL DATA

|                                |                    |
|--------------------------------|--------------------|
| <b>Power:</b>                  | 2000 Watt          |
| <b>Soldergun cable:</b>        | 4 m                |
| <b>Dimensions (L x W x H):</b> | 260 x 190 x 200 mm |
| <b>Weight:</b>                 | 10,5 kg            |

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### Soldering without open flame!

Generously dimensioned stainless steel cooling ribs on both shanks of the tongs

No overheating of the handle shells

#### Thermal overload protection

Automatic device shut-off

#### 2000 W

High performance, short soldering times



#### Soldering without open flame

No risk of fire from flammable wall or floor covering, or from plastic parts, etc

#### Highly flexible, extra long 4 m solder gun cable

Large working radius, also when working under ceilings

#### Compact design

Comfortable transport and convenient use

### ROTHERM 2000 Soft Soldering Set

Electric soft soldering unit up to  $\varnothing$  54 mm / 2.1/8"

Set (No. 36702 / No. 036704V) includes: ROTHERM 2000 soft soldering unit 230 V (No. 36700), Rosol 3 fittings soldering paste No. 45225), fitting solder 3 (No. 45255), ROVLIES® (No. 45268), Cu. Internal brushes 10 mm (No. 854180) / 12 mm (No. 854181) / 15 mm (No. 854183) / 18 mm (No. 854185) / 22 mm (No. 854186), steel case (No. 36715)

Particularly suitable for repair and modification work in surroundings or rooms with a fire hazard, as well as in building refurbishment!



Warming up of the soldering point without open flame



Rod electrodes for working near to the wall or between parallel running pipes with narrow gaps (can be ordered separately)



Flat electrode



Simple replacement of electrodes and electrode holders



| Model                            | kg   | 230 V<br>50/60 Hz |
|----------------------------------|------|-------------------|
| ROTHERM 2000 Soft soldering set  | 17.8 | <b>36702</b>      |
| ROTHERM 2000 Soft soldering unit | 13.6 | <b>36700</b>      |
| Steel case                       | 3.5  | <b>36715</b>      |

#### ACCESSORIES



| Model                             | No.          | Model                          |            |
|-----------------------------------|--------------|--------------------------------|------------|
| Flat electrode (pair)             | <b>36721</b> | ROVLIES®                       | <b>165</b> |
| Flat electrode with holder (pair) | <b>36711</b> | External brush for copper pipe | <b>165</b> |
| Rod electrodes (pair)             | <b>36720</b> | Soft soldering flux            | <b>167</b> |
| Rod electrodes with holder (pair) | <b>36710</b> | Solders                        | <b>167</b> |
|                                   |              | Internal brush for copper pipe | <b>165</b> |

# Bonding

## Gas-Welding

### ALLGAS 2000 Set

#### Mobile soldering and welding torch

Ideal mobile soldering and welding torch for plumbers, HVAC fitters, refrigeration technicians, automotive workshops and tinsmiths



#### Product Profile

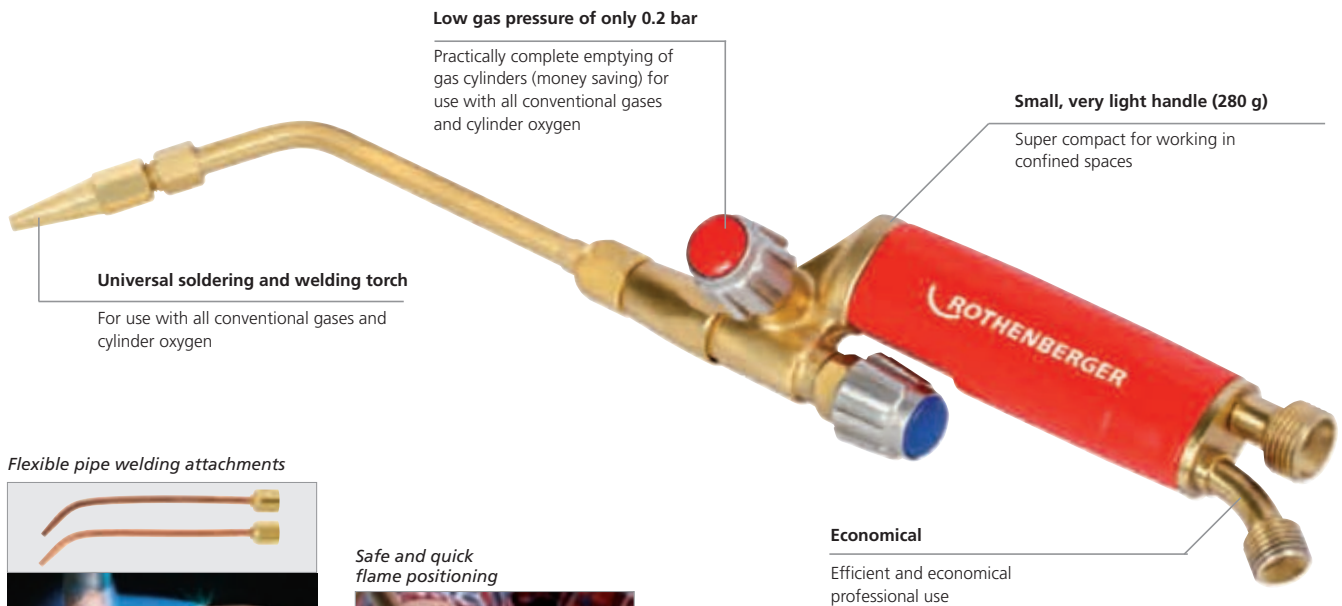
##### APPLICATION AREA

**Soldering range:** up to 2.5 mm material thickness  
**Welding range:** 0,2 - 5 mm  
**Suitable for use with:** Oxy-Acetylene  
 Propane and oxygen  
 CNG and oxygen  
 Town gas and oxygen

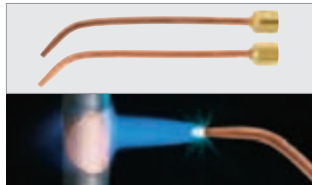
##### KEY FEATURES

For use with all conventional gases and cylinder oxygen  
 Practically complete emptying of gas cylinders (money-saving)  
 Super compact for working in confined spaces  
 Efficient and economical professional use

4



#### Flexible pipe welding attachments



#### Safe and quick flame positioning



#### Dispersion nozzle for warming up



#### Economical

Efficient and economical professional use

**20-part set (No. 35300)** includes: Handle (No. 35303), mixing nozzle with union nut (No. 35304), 5 welding tips Ø 0.2 mm (No. 35305) / Ø 1 - 2 mm (No. 35306) / Ø 2 - 3 mm (No. 35307) / Ø 3 - 4 mm (No. 35308) / Ø 4 - 5.0 mm (No. 35309), pipe welding tips, size 1 (No. 35313) / size 2 (No. 35314), coupling nut size 14 (No. 35315), dispersion nozzle (No. 35311), 2.5 m dual-hose package (No. 35221), open-ended spanner size 14 x 19 mm (No. 32073), welding tip holder / spanner (No. 35312), safety igniter (No. 3.077), replacement flints (No. 32088), steel case (No. 35319)



Fig. ALLGAS 2000 Set

| Model                        | Coupling oxygen | Coupling fuel gas | g     | No.          |
|------------------------------|-----------------|-------------------|-------|--------------|
| ALLGAS 2000 Set              |                 |                   | 3,100 | <b>35300</b> |
| Handle ALLGAS 2000           | R 1/4"          | R 3/8" L          | 280   | <b>35303</b> |
| Mixing nozzle with union nut |                 |                   | 40    | <b>35304</b> |

#### Welding tips, Welding attachments

| Size   | Brazing range mm | g  | No.          |
|--|------------------|----|--------------|
| Size 1                                       | 0,2 - 1,0        | 10 | <b>35305</b> |
| Size 2                                       | 1,0 - 2,0        | 10 | <b>35306</b> |
| Size 3                                       | 2,0 - 3,0        | 10 | <b>35307</b> |
| Size 4                                       | 3,0 - 4,0        | 10 | <b>35308</b> |
| Size 5                                       | 4,0 - 5,0        | 10 | <b>35309</b> |
| Dispersion nozzle for warming up             | 20               |    | <b>35311</b> |
| Welding tip holder, can be used as a spanner |                  | 20 | <b>35312</b> |
| Size 1                                       | 2,0 - 3,0        | 40 | <b>35313</b> |
| Size 2                                       | 4,0 - 5,0        | 40 | <b>35314</b> |
| Coupling / union nut, size 14                | 10               |    | <b>35315</b> |

Further accessories can be found on 162



## ALLGAS 2000 PS 0,5 / 2 Compact

Portable fitter's brazing equipment with carrying frame

For brazing iron, steel, sheet steel, pipes and non-ferrous metals



### Product Profile

#### KEY FEATURES

Secure transport in closed supporting frame  
Portable, light fitter's brazing equipment  
Ideal for mobile building-site and repair use  
Small propane cylinders can be refilled

#### TECHNICAL DATA

**Gas:** Propane with oxygen  
**Flame temperature:** 2,850 °C  
**Working temperature:** 1,150 °C

**Transport safety according to DIN EN 962, BGV D34, GGVSE und TRG 280!**

22-part set (No. 35655) includes: Handle Allgas 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 32082), oxygen pressure reducer 10 bar (No. 35634), mixing nozzle with union nut (No. 35304), welding tips 0.2-1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4-5 mm (No. 35309), pipe-welding tips, flexible size 1 (No. 35313) / size 2 (No. 35314), dispersion nozzle (No. 35311), welding tip holder / spanner (No. 35312), multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), nylon safety goggles (No. 540620), small propane cylinder 0.5 kg, empty (No. 33079), steel oxygen cylinder 2.0 l, full (No. 35635), carrying frame (No. 35629)

| Model                              | kg   | No.          |
|------------------------------------|------|--------------|
| ALLGAS 2000 PS 0,5 / 2 Set         | 21.4 | <b>35655</b> |
| Carrying frame without accessories | 10.3 | <b>35629</b> |

Further accessories can be found on 162

Carrying comfort



The bottle colours shown are without obligation!

## ALLGAS 2000 Welding Tips

For brazing iron, steel, sheet steel, pipes and non-ferrous metals



Welding Tips, Nozzle thread M8 X 1



| Size                                      | Welding range mm | kg | No.          |
|---|------------------|----|--------------|
| Size 1                                    | 0.2 - 1.0        | 10 | <b>35305</b> |
| Size 2                                    | 1.0 - 2.0        | 10 | <b>35306</b> |
| Size 3                                    | 2.0 - 3.0        | 10 | <b>35307</b> |
| Size 4                                    | 3.0 - 4.0        | 10 | <b>35308</b> |
| Size 5                                    | 4.0 - 5.0        | 10 | <b>35309</b> |
| Dispersion nozzle for warming up          |                  | 20 | <b>35311</b> |
| Welding tip holder can be used as spanner |                  | 20 | <b>35312</b> |



No. 35311



No. 35312

## Flexible Pipe Welding Attachments

| Size                          | Welding range mm | kg | No.          |
|-------------------------------|------------------|----|--------------|
| Size 1                        | 2.0 - 3.0        | 40 | <b>35313</b> |
| Size 2                        | 4.0 - 5.0        | 40 | <b>35314</b> |
| Coupling / union nut, size 14 |                  | 10 | <b>35315</b> |



# Bonding

## Gas-Welding

### ALLGAS 2000 PS 0.5 / 2 Basic

Portable fitter's brazing equipment

For brazing iron, steel, sheet steel, pipes and non-ferrous metals



#### KEY FEATURES

- Compact and handy construction for mobile building-site and repair use
- Job compatible combination, assembled and ready to use

#### Space saving storage in service vehicles!



**18-part set (No. 35651)** includes: Handle Allgas 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 32082), oxygen pressure reducer 10 bar (No. 35634), mixing nozzle with union nut (No. 35304), welding tips 0.2 - 1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5 mm (No. 35309), welding tip holder / spanner (No. 35312) multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), steel oxygen cylinder 2.0 l, filled (No. 35635) Allgas stand (No. 35628)

| Model                                    | kg   | No.          |
|--|------|--------------|
| ALLGAS 2000 PS 0.5 / 2 Set               | 14.4 | <b>35651</b> |
| Further accessories can be found on  162 |      |              |

The bottle colours shown are without obligation!

### ROXY 400 L

Standard gas-welding equipment for flame temperatures up to 3,100 °C

For brazing iron, steel, sheet steel, pipes and non-ferrous metals



#### Space saving storage in service vehicles!



**20-part set (No. 35780)** includes: Handle with fine regulating valve (No. 35580), Maxigas 400 (No. 35570), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 35723), oxygen pressure reducer according to DIN 0-315 / 200 bar 0-16 / 10 bar (No. 35634), hose set (3 m without handle (No. 35785), oxygen blowback protection (No. 35678), gas blowback protection (No. 35691), mixing nozzle with union nut (No. 35587), high-performance tips 1.5 mm (No. 35422) / 2.0 mm (No. 35423), micro-tips 0.3 mm (No. 35712) / 0.5 mm (No. 35696) / 0.7 mm (No. 35713), micro-tip adaptor (No. 35585), welding goggles A5 (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738) carrying frame (No. 35727)

| Model                                     | kg    | No.          |
|---|-------|--------------|
| ROXY 400 L Set                            | 10.80 | <b>35780</b> |
| ROXY welding handle Profi                 | 0.01  | <b>35580</b> |
| Hose Set (3 m without handle)             | 0.95  | <b>35785</b> |
| ROXY micro-nozzle adaptor                 | 0.01  | <b>35585</b> |
| ROXY micro-nozzle for 1-1.2 sheet metal   | 0.04  | <b>35588</b> |
| ROXY micro-nozzle for 0.7-0.9 sheet metal | 0.06  | <b>35589</b> |
| ROXY micro-torch 0.4 mm                   | 0.01  | <b>35695</b> |
| ROXY micro-torch 0.5 mm                   | 0.02  | <b>35696</b> |
| ROXY micro-torch 0.6 mm                   | 0.02  | <b>35697</b> |
| ROXY micro-torch 0.3 mm                   | 0.01  | <b>35712</b> |
| ROXY micro-torch 0.7 mm                   | 0.01  | <b>35713</b> |

The bottle colours shown are without obligation!

4



### ROFLASH Set

Welding and cutting kit

Welding range: 0.5 - 14 mm, Cutting range: 3 - 75 mm

22-part set (No. 513300) includes: Handle (No. 513010), welding attachments 0.2 - 0.5 (No. 513030), 0.5 - 1 (No. 513031), 1 - 2 (No. 513032), 2 - 4 (No. 513033), 4 - 6 (No. 513034), 6 - 9 (No. 513035), 9 - 14 (No. 513036), spring-lever cutting attachment (No. 513310), cutting tips 3 - 6 (No. 513330), 6 - 20 (No. 513331), 20 - 75 (No. 513332), cutting burner guiding wagon, burner spanner (No. 510106), nylon safety goggles (No. 540621), 10 piece nozzle cleaning set (No. 510105), hose nozzle R 1/4" 4 mm (No. 540221), hose nozzle R 3/8" 4 mm (No. 540222), hose nozzle R 3/8" 6 mm (No. 540223), coupling nut R 1/4" (No. 540210), coupling nut R 3/8" (No. 540215)

| Model       | kg  | No.    |
|-------------|-----|--------|
| ROFLASH Set | 4.2 | 513300 |



Exchange of the welding tip

Can be used with all types of gas

Cutting oxygen valve with spring-lever

Enables one-handed use for spray-free cutting, etc.



### ROFLASH Handle

Welding kit handle

#### KEY FEATURES

The new monoblock valves enable the precise adjustment and accurate control of the flame

Comfortable one-handed use with the v-formed valve arrangement

| Model          | g   | No.    |
|----------------|-----|--------|
| ROFLASH Handle | 434 | 513010 |



### ROFLASH Spring-lever Cutting Attachment

#### KEY FEATURES

The solid torch nozzle is made from forged brass and can withstand the highest thermal demands and also enables use under extreme conditions, maintenance-free monoblock valve

| Model                            | g   | No.    |
|----------------------------------|-----|--------|
| ROFLASH cutting tips 3 - 6 mm    | 97  | 513330 |
| ROFLASH cutting tips 6 - 20 mm   | 97  | 513331 |
| ROFLASH cutting tips 20 - 75 mm  | 98  | 513332 |
| ROFLASH cutting tips 75 - 125 mm | 110 | 513333 |

Tool-less exchange possible



| Model                                   | g   | No.    |
|---|-----|--------|
| ROFLASH spring-lever cutting attachment | 582 | 513310 |

### ROFLASH Welding Attachments / Welding Tips



| Model                                     | g   | No.    |
|---|-----|--------|
| ROFLASH welding attachments 0.2 - 0.5 mm  | 96  | 513030 |
| ROFLASH welding attachments 0.5 - 1.0 mm  | 96  | 513031 |
| ROFLASH welding attachments 1.0 - 2.0 mm  | 104 | 513032 |
| ROFLASH welding attachments 2.0 - 4.0 mm  | 117 | 513033 |
| ROFLASH welding attachments 4.0 - 6.0 mm  | 128 | 513034 |
| ROFLASH welding attachments 6.0 - 9.0 mm  | 148 | 513035 |
| ROFLASH welding attachments 9.0 - 14.0 mm | 171 | 513036 |



| Model                             | g   | No.    |
|-----------------------------------|-----|--------|
| ROFLASH welding tips 0.2 - 0.5 mm | 96  | 513040 |
| ROFLASH welding tips 2.0 - 4.0 mm | 126 | 513043 |
| ROFLASH welding tips 4.0 - 6.0 mm | 128 | 513044 |
| ROFLASH welding tips 6.0 - 9.0 mm | 147 | 513045 |
| ROFLASH welding tips 9.0 - 14 mm  | 171 | 513046 |



# Bonding

## Three-Gas Welding

### RE 17 Three-gas System AMS 5/5

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



Including gas cylinders and dual-telescoping transport trolley!

27-piece set (No. 35400) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 3-25 mm (No. 35341) / 25 - 50 mm (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), burner torch (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 10 l (filled) (No. 35178), oxygen cylinder 10 l (filled) (No. 35188), Maxigas 400 (No. 35570), gas regulating valve Maxigas (No. 35723), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

The bottle colours shown are without obligation!

| Model                          | kg | No.          |
|--------------------------------|----|--------------|
| RE 17 Three-gas System AMS 5/5 | 50 | <b>35400</b> |

### RE 17 Three-gas System AMS 5 and 10

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



25-part set (No. 35403) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 3-25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 3-100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), burner torch (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), Maxigas 400 (No. 35570), gas regulating valve Maxigas (No. 35723), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

| Model                             | kg | No.          |
|-----------------------------------|----|--------------|
| RE 17 Three-gas System AMS 5 + 10 | 23 | <b>35403</b> |

### RE 17 Three-gas System AMS 10/10

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



Including gas cylinders and dual-telescoping transport trolley!

27-part set (No. 35401) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 3-25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 3 - 100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 10 l (filled) (No. 35179), oxygen cylinder 10 l (filled) (No. 35189), Maxigas 400 (No. 35570), gas regulating valve Maxigas (No. 35723), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

The bottle colours shown are without obligation!

No. 35798 as in 35401 for cutting range 3.0 - 25 mm  
No. 35799 like 35401 without cylinders

| Model  | kg | No.          |
|--|----|--------------|
| RE 17 Three-gas System AMS 10/10             | 66 | <b>35401</b> |
| RE 17 as in 35401, cutting range 3.0 - 25 mm | 65 | <b>35798</b> |
| RE 17 without cylinder                       | 23 | <b>35799</b> |

### RE 17 UNIVERSAL Pipe Welding Set

For welding, cutting, brazing and warming up  
Welding range: 0.5 - 14 mm, Cutting range: 3 - 100 mm



Set (No. 35479) includes: Handle with coupling nut (No. 35324), welding attachments 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329), pipe-welding tips 2 - 4 mm (No. 35347) / 4 - 6 mm (No. 35348), wing-lever cutting attachment (No. 35338), Cutting tip 3 - 25 mm (No. 35341), Heating nozzle 3 - 100 mm (No. 35339), Nozzle cleaning set, 10 piece (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35800)

| Nominal size   | kg   | No.          |
|--|------|--------------|
| RE 17 Pipe welding set   | 4.3  | <b>35479</b> |
| RE 17 Pipe welding set   | 4.8  | <b>35480</b> |
| As in set (No. 35479), but also including with welding attachments 0.5-1 mm (No. 35325) / 1-2 mm (No. 35326), cutting tip 3 - 25 mm (No. 35341) / 25-50 mm (No. 35344) |      |              |
| Steel case RE 17 (empty)   | 1.70 | <b>35800</b> |
| RE 17 handle with burner coupling nut  | 0.47 | <b>35324</b> |
| Coupling: oxygen R 1/4", gas R 3/8" L  |      |              |



No. 35480



No. 35324

### RE 17 Welding Attachments

|                    | Welding range mm | kg  | No.          |
|--------------------|------------------|-----|--------------|
| Welding attachment | 0.5 - 1          | 140 | <b>35325</b> |
| Welding attachment | 1 - 2            | 150 | <b>35326</b> |
| Welding attachment | 2 - 4            | 170 | <b>35327</b> |
| Welding attachment | 4 - 6            | 190 | <b>35328</b> |
| Welding attachment | 6 - 9            | 220 | <b>35329</b> |
| Welding attachment | 9 - 14           | 260 | <b>35334</b> |
| Welding attachment | 14 - 20          | 280 | <b>35335</b> |



### RE 17 Pipe Welding Attachment, Flexible

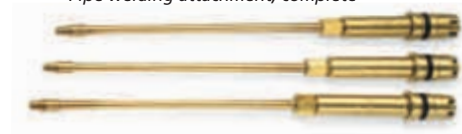
Pipe welding attachment, Flexible copper tips complete

| Welding range mm | g   | No.          | Welding range mm | g  | No.          |
|------------------|-----|--------------|------------------|----|--------------|
| 1 - 2            | 130 | <b>35346</b> | 1 - 2            | 40 | <b>35475</b> |
| 2 - 4            | 140 | <b>35347</b> | 2 - 4            | 40 | <b>35476</b> |
| 4 - 6            | 150 | <b>35348</b> | 4 - 6            | 50 | <b>35477</b> |

Pipe welding attachment, front piece



Pipe welding attachment, complete



### RE 17 Wing-lever Cutting Attachment

| Model                           | g   | No.          |
|---------------------------------|-----|--------------|
| Cutting attachment without tips | 820 | <b>35338</b> |

### RE 17 Cutting Tips and Heating Nozzle

| Model          | Cutting range mm | g  | No.          |
|----------------|------------------|----|--------------|
| Cutting tip    | 3 - 25           | 10 | <b>35341</b> |
| Cutting tip    | 25 - 50          | 20 | <b>35344</b> |
| Cutting tip    | 50 - 100         | 20 | <b>35345</b> |
| Heating nozzle | 3 - 100          | 50 | <b>35339</b> |



No. 35338

No. 35341  
No. 35344  
No. 35345



No. 35339

# Bonding

## Accessories Soldering & Welding



### Oxy-Acetylene Hoses

Top quality in accordance with **DIN 8541**, with strong inlay, durable and flexible, rubber, mounted with sleeves and nuts



### Oxygen Hoses

| L<br>m | Inlet  | Outlet | Internal Ø x wall thickness<br>mm | kg  | No.          |
|--------|--------|--------|-----------------------------------|-----|--------------|
| 5      | R 1/4" | R 1/4" | 6.0 x 3.5                         | 1.1 | <b>33311</b> |
| 10     | R 1/4" | R 1/4" | 6.0 x 3.5                         | 1.9 | <b>33314</b> |

### Acetylene Hoses

| L<br>m | Inlet  | Outlet   | Internal Ø x wall thickness<br>mm | kg  | No.          |
|--------|--------|----------|-----------------------------------|-----|--------------|
| 2.5    | R 3/8" | R 3/8" L | 6.0 x 3.5                         | 0.5 | <b>35203</b> |
| 5      | R 3/8" | R 3/8" L | 6.0 x 3.5                         | 1.1 | <b>33312</b> |
| 10     | R 3/8" | R 3/8" L | 6.0 x 3.5                         | 1.9 | <b>33315</b> |

### Dual Hoses A/S

| L<br>m | Coupling<br>Oxygen | Coupling<br>Outlet | Internal Ø x wall thickness<br>Oxygen / Acetylene | kg  | No.          |
|--------|--------------------|--------------------|---|-----|--------------|
| 2.5    | R 1/4"             | R 3/8" L           | 6.0 x 3.5   | 0.9 | <b>35221</b> |
| 5      | R 1/4"             | R 3/8" L           | 6.0 x 3.5   | 2.0 | <b>35222</b> |
| 10     | R 1/4"             | R 3/8" L           | 6.0 x 3.5   | 3.8 | <b>35223</b> |
| 40*    | R 1/4"             | R 3/8" L           | 6.0 x 3.5   | 9.1 | <b>35230</b> |

\*40 m hose without sleeves and nuts



Included in delivery for steel cylinders without cap, protective bracket



The bottle colours shown are without obligation!

### Lightweight Steel Cylinders, filled

With cylinder valve, base and cap from 5 l, TÜV (= Technical Supervisory Association, Germany) tested in accordance with TRGI

| Model     | Contents | Filling pressure<br>bar | Height<br>mm | Ø<br>mm | kg   | No.          |
|-----------|----------|-------------------------|--------------|---------|------|--------------|
| Oxygen    | 0.67 l   | 200                     | 400          | 80      | 2.5  | <b>35736</b> |
| Oxygen    | 2 l      | 200                     | 420          | 110     | 4.6  | <b>35635</b> |
| Oxygen    | 5 l      | 200                     | 595          | 145     | 14.0 | <b>35188</b> |
| Oxygen    | 10 l     | 200                     | 980          | 145     | 17.0 | <b>35189</b> |
| Acetylene | 5 l      | 18                      | 595          | 145     | 13.0 | <b>35178</b> |
| Acetylene | 10 l     | 18                      | 980          | 145     | 23.0 | <b>35179</b> |



### Cylinder Transport Trolley

Portable and mobile, for 5 and 10 l acetylene / oxygen cylinders, 5 kg and 12 kg propane cylinders can be used with conversion kit (special accessory). Coupling for disposable MAXIGAS 400 cartridges, dual-telescoping for different cylinder heights, brackets for ALLGAS and RE 17 steel cases

| Model   | kg  | No.          |
|---|-----|--------------|
| Transport Trolley for 5 / 10 l acetylene / oxygen cylinders                   | 8.9 | <b>35354</b> |
| Conversion kit for adaption of Propane 0.5 kg / oxygen 5 l and 10 l cylinders |     | <b>35342</b> |





### Cylinder Pressure Reducer

Rugged pressed brass construction with large pressure gauge according to **DIN 8549** (Ø 63 mm), with shut-off and safety valves, one-stage design according to **DIN 8546** with test mark



No. 35634



No. 35794

| Cylinder contents bar | Working pressure bar | Inlet  | Outlet   |     | No.          |
|-----------------------|----------------------|--------|----------|-----|--------------|
| Oxygen                |                      |        |          |     |              |
| 0 - 315 / 200         | 0 - 16 / 10          | R 3/4" | R 1/4"   | 1.4 | <b>35634</b> |
| Acetylene             |                      |        |          |     |              |
| 0 - 40                | 0 - 2.5/1.5          | R 3/4" | R 3/8" L | 1.6 | <b>35794</b> |

### Blowback Prevention

Torch-mounted flashback arrestors, type-tested, with flame trap, flow lock, non-return valve and dirt filter

| Model                      | max. Operating pressure | Coupling-thread |     | No.           |
|----------------------------|-------------------------|-----------------|-----|---------------|
| Handle-mounted, oxygen     | 20 bar                  | R 1/4"          | 190 | <b>540320</b> |
| Handle-mounted, acetylene  | 1.5 bar                 | R 3/8" L        | 190 | <b>540321</b> |
| Reducer-mounted, oxygen    | 20 bar                  | R 1/4"          | 190 | <b>540360</b> |
| Reducer-mounted, acetylene | 1.5 bar                 | R 3/8" L        | 190 | <b>540365</b> |



No. 540320



No. 540321



No. 540360



No. 540365

### Protective Guard for Pressure Reducer

Impact protection, rugged steel construction, mounts on connection coupling

| Model                          | Colour |     | No.          |
|--------------------------------|--------|-----|--------------|
| For oxygen pressure reducer    | blue   | 820 | <b>35146</b> |
| For acetylene pressure reducer | yellow | 820 | <b>35140</b> |



### Protective Rubber Cap

With slot, open

| Model                          | Farbe |    | No.           |
|--------------------------------|-------|----|---------------|
| For oxygen pressure reducer    | blue  | 50 | <b>511427</b> |
| For acetylene pressure reducer | red   | 50 | <b>511428</b> |



### Oxygen Refilling Bend

Suitable for all 0,67l, 2l, 3l, 5l, 10l, 20l and 50l bottles up to 200bar

| Model                                  |     | No.          |
|--|-----|--------------|
| max. 200 bar, cylinder coupling R 3/4" | 360 | <b>35199</b> |



### Safety Igniters

Powerful spark, wear-free hard alloy friction surface

| Model                                 |    | No.          |
|---------------------------------------|----|--------------|
| Safety Igniter with rolling file      | 60 | <b>32077</b> |
| Replacement flints, tin with 5 pieces | 15 | <b>32088</b> |



No. 32077



No. 32088

# Bonding

## Accessories Soldering & Welding



No. 540850



No. 540855

### Hand-held Welding Mirror

| Model                                     | g   | No.           |
|---|-----|---------------|
| Steel wire handle with clamp / ball joint | 280 | <b>540850</b> |
| Spare steel mirror                        | 50  | <b>540851</b> |

### Magnet Welding Mirror

| Model                                 | g   | No.           |
|---------------------------------------|-----|---------------|
| With flexible metal tube / ball joint | 450 | <b>540855</b> |
| Spare steel mirror                    | 50  | <b>540851</b> |



### Nozzle Cleaner

| Model                     | g  | No.           |
|---------------------------|----|---------------|
| 10 piece, in folding case | 20 | <b>510105</b> |



### Torch Spanner

| Model      | g   | No.           |
|------------|-----|---------------|
| With 11 SW | 210 | <b>510106</b> |



### Soldering Flux and Container for Hydrochloric Acid

| Model                         | g  | No.           |
|-------------------------------|----|---------------|
| With screw cap retaining band | 40 | <b>530250</b> |



### Salmiakstone

| Model   | L x W x H       | g  | No.           |
|---------|-----------------|----|---------------|
| Pressed | 65 x 45 x 40 mm | 15 | <b>530310</b> |



### Soapstone Marker

| Model                 | L x W x H        | g  | No.           |
|-----------------------|------------------|----|---------------|
| White, heat-resistant | 100 x 10 x 10 mm | 30 | <b>561550</b> |



No. 540620



No. 540622



No. 540640

### Welding Goggles DIN EN 166

With thermal glasses as per DIN EN 169






| Model                       | Glass                  | g  | No.           |
|-----------------------------|------------------------|----|---------------|
| Nylon safety goggles        | A 4                    | 60 | <b>540620</b> |
|                             | A 5                    | 60 | <b>540621</b> |
| Replacement glass (pair)    | clear, non-splintering | 60 | <b>540622</b> |
|                             | A 4                    | 30 | <b>540625</b> |
|                             | A 5                    | 10 | <b>540626</b> |
|                             | clear, non-splintering | 30 | <b>540627</b> |
| Screw-ring safety goggles   | A 4                    | 90 | <b>540640</b> |
|                             | A 5                    | 90 | <b>540641</b> |
| Replacement glass (Ø 50 mm) | A 4                    | 30 | <b>540675</b> |
|                             | A 5                    | 10 | <b>540676</b> |

### ROVLIES® Cleaning Pads

Metal-free, for fast, score-free cleaning of copper pipe soldering surfaces

#### KEY FEATURES





- Reduced corrosion damage
- No metal abrasion, can be used wet or dry
- Removes oxide layers, corrosion, surface dirt, oil and grease residues
- Solvent-resistant and flexible

| Model                    |  |  |  | No.            |
|--------------------------|---|---|---|----------------|
| ROVLIES®                 | 1(10)   | 80  |   | <b>45268</b>   |
| ROVLIES® counter display | 36(10)  | 2,180   |   | <b>045268D</b> |



### Internal Brushes for Copper Pipe





For fast cleaning of the soldering surface, rugged plastic handle

|  | mm |  | No.           |  | mm |  | No.           |
|---|----|---|---------------|---|----|---|---------------|
|   | 8  | 60  | <b>854179</b> |   | 16 | 120   | <b>854184</b> |
|   | 10 | 70  | <b>854180</b> |   | 18 | 120   | <b>854185</b> |
|   | 12 | 80  | <b>854181</b> |   | 22 | 140   | <b>854186</b> |
|   | 14 | 90  | <b>854182</b> |   | 28 | 140   | <b>854187</b> |
|   | 15 | 100   | <b>854183</b> |   | 35 | 160   | <b>854188</b> |




### External Brushes for Copper Pipe

For fast cleaning of the soldering surface, tough housing

|  | mm |  | No.           |  | mm |  | No.           |
|---|----|---|---------------|---|----|---|---------------|
|   | 8  | 80  | <b>854189</b> |   | 16 | 130   | <b>854194</b> |
|   | 10 | 90  | <b>854190</b> |   | 18 | 140   | <b>854195</b> |
|   | 12 | 100   | <b>854191</b> |   | 22 | 150   | <b>854196</b> |
|   | 14 | 110   | <b>854192</b> |   | 28 | 160   | <b>854197</b> |
|   | 15 | 120   | <b>854193</b> |   | 35 | 170   | <b>854198</b> |



### Hand Wire Brushes

| Model          | Numbers of rows |  | No.           |
|----------------|-----------------|---|---------------|
| Standard steel | 3 rows          | 130   | <b>561351</b> |
| Standard steel | 4 rows          | 130   | <b>561352</b> |



### Welding Blanket

Flame and heat resistant up to 1,000° C  
 Permanent heat resistance up to 900° by direct flame contact and molten slag  
 Good formability, long service life, asbestos-free and poses no health hazard  
 Bonded edges

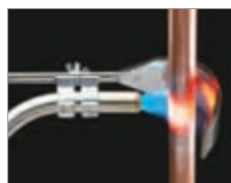
Thickness: 1.4 mm  
 Weight: 1,000 g/m<sup>2</sup>




| Model           | L x W x H    |  | No.          |
|-----------------|--------------|---|--------------|
| Welding Blanket | 330 x 500 mm | 300   | <b>31050</b> |

### Flame Reflectors

Made of high-quality stainless steel  
 Protects surrounding materials  
 Better heat utilisation, saves time and energy



| Model   | Width mm | Adaptor Ø mm |  | No.          |
|---------|----------|--------------|---|--------------|
| 65 / 15 | 65       | 8 – 15       | 100   | <b>31042</b> |
| 65 / 22 | 65       | 15 – 22      | 100   | <b>31043</b> |



# Bonding

## Accessories Soldering & Welding

### Fitting Soft Solder to DIN EN

| Standard type according to DIN EN 29 453 | Solder composition in weight % | Melting range °C | Suitable for soft soldering in the plumbing industry |                         |  | Recommended heat source  |
|--|--------------------------------|------------------|--|-------------------------|--|--|
|  |                                |                  | Pipe Material  | Fittings material       | Recommended Flux according to DIN EN 29454 |  |
| <b>S -Sn97Cu3</b>                        | Sn 97 %, Cu 3 %                | 230 - 250°       | Copper   | Copper, gunmetal, brass | Part 1 - 3.1.1, 3.1.2, 2.1.2 or ROSOL 3    | Cartridge burner, heat resistant soldering unit, Propane / induced-air burner, Acetylene / induced-air burner, Larger pipe diameters above 28 mm with propane / oxygen burner with dispersion nozzle |
| <b>S -Sn97Ag3</b>                        | Sn 96,7 %, Ag 3,3 %            | 221 - 240°       | Copper   | Copper, gunmetal, brass | Part 1 - 3.1.1, 3.1.2, 2.1.2 or ROSOL 1 S  |  |

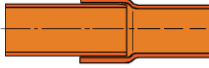
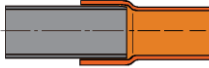
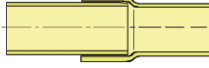
### Standard Solder according to DIN EN

| Standard type according to DIN EN 1044 | Solder composition in weight %                    | Melting range °C | Working temperature °C | Suitable for installation technology brazing |                                    |  | Recommended Flux according to DIN EN 29454 | Recommended heat source  |
|--|---|------------------|------------------------|--|------------------------------------|--|--|--|
|  |   |                  |                        | Pipe Material                                | Fittings material                  | Flux   |  |  |
| <b>CP 203</b>                          | P 5,9 - 6,5 / Cu rest                             | 710 - 880°       | 730°                   | Copper                                       | Copper<br>Gunmetal<br>Brass        | without flux<br>with flux                        | F-SH 1<br>or<br>LP 5                       | Cartridge torch with MAPP <sup>®1</sup> Gas,<br>Propane / induced-air torch,<br>Acetylene / induced-air torch,<br>Larger pipe diameters above 28 mm with propane / oxygen torch with dispersion nozzle |
| <b>CP 105</b>                          | Ag 1,5 - 2,5 /<br>P 5,9 - 6,5 / Cu rest           | 650 - 810°       | 710°                   | Copper                                       | Copper<br>Gunmetal<br>Brass        | without flux<br>with flux                        | F-SH 1<br>or<br>LP 5                       |  |
| <b>CP 104</b>                          | Ag 4,0 - 6,0 /<br>P 5,7 - 6,3 / Cu rest           | 650 - 810°       | 710°                   | Copper                                       | Copper<br>Gunmetal<br>Brass        | without flux<br>with flux                        | F-SH 1<br>or<br>LP 5                       |  |
| <b>CP 102</b>                          | Ag 14,0 - 16,0 /<br>P 4,7 - 5,3 / Cu rest         | 650 - 800°       | 710°                   | Copper                                       | Copper<br>Gunmetal<br>Brass        | without flux<br>with flux                        | F-SH 1<br>or<br>LP 5                       |  |
| <b>AG 106</b>                          | Ag 33 - 35 / Cu 35 - 37<br>Sn 1,5 - 2,5 / Zn rest | 630 - 730°       | 710°                   | Stahl<br>Copper                              | Steel, Copper<br>Gunmetal<br>Brass | with flux<br>(U = sheathed<br>from 22 mm pipe-Ø) | F-SH 1<br>or<br>LP 5                       |  |
| <b>AG 104</b>                          | Ag 44 - 46 / Cu 26 - 28<br>Sn 2,5 - 3,5 / Zn rest | 640 - 680°       | 670°                   | Stahl<br>Copper                              | Steel, Copper<br>Gunmetal<br>Brass | with flux<br>(U = sheathed<br>from 22 mm pipe-Ø) | F-SH 1<br>or<br>LP 5                       |  |

4



### Soldered Joints

| Material  | Required Hard Solder  | Melting Range  | Working Temperature                  | Standard    |
|---|---|--|--------------------------------------|-------------|
| <b>Copper-Copper</b><br>             | S 34 Cu / S 34 Cu U<br>S 94 / S 94 XN / S1<br>S 2 / S 5<br>S 15 | 630 °C - 730 °C<br>710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 800 °C | 710 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Copper-Carbon Steel</b><br>       | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 630 °C - 730 °C<br>640 °C - 680 °C                                       | 710 °C<br>670 °C                     | DIN EN 1044 |
| <b>Copper-Brass</b><br>              | S 94 / S 94 XN / S1<br>S 2<br>S 5<br>S 15                       | 710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 810 °C<br>650 °C - 810 °C | 730 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Brass-Carbon Steel</b><br>        | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 600 °C - 690 °C<br>595 °C - 630 °C                                       | 680 °C<br>610 °C                     | DIN EN 1044 |
| <b>Brass-Brass</b><br>               | S 94 / S 94 XN<br>S 1 (nicht genormt)<br>S 2 / S 5<br>S 15      | 710 °C - 880 °C<br>710 °C - 880 °C<br>650 °C - 810 °C<br>650 °C - 810 °C | 730 °C<br>730 °C<br>710 °C<br>710 °C | DIN EN 1044 |
| <b>Carbon Steel-Carbon Steel</b><br> | S 34 Cu / S 34 Cu U<br>S 45 Cu / S 45 Cu U                      | 630 °C - 730 °C<br>640 °C - 680 °C                                       | 710 °C<br>670 °C                     | DIN EN 1044 |

1) MAPP<sup>®</sup> is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main


### Fittings Solders

Quality soft solders in accordance with **DIN EN 29453** for joining copper pipes to copper, gunmetal and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 2 without flux, for use with corresponding ROSOL fittings solder paste

DIN  
-Norm

### Fitting Solder 1 S

Quality soft solder **S-Sn97Ag3**, melting range 221 °C – 240 °C, for use with ROSOL 1 S fittings solder paste


| Solder wire Ø | Description |  g | No.          |
|---------------|-------------|---|--------------|
| 2 mm          | 250 g coil  | 270   | <b>45252</b> |
| 3 mm          | 250 g coil  | 270   | <b>45250</b> |



No. 45252

### Fitting Solder 3

Quality soft solder, **S-Sn97Cu3**, melting range 230 °C - 250 °C, for use with ROSOL 3 fittings solder paste

| Solder wire Ø | Description |  g | No.          |
|---------------|-------------|---|--------------|
| 2 mm          | 250 g coil  | 270   | <b>45257</b> |
| 3 mm          | 250 g coil  | 270   | <b>45255</b> |



No. 45257

DIN  
-Norm

### ROSOL Soldering Paste

Quality soft solders according to **DIN EN 29453**, with flux core **DIN EN 29454-1 3.1.1.C**, with test mark **DVGW Reg.-No. DV-0101AT2247**, for joining copper pipes to copper, gunmetal and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 7, metal content 60% by weight, flux residues are 100% water soluble

DIN  
-Norm




No. 45220

No. 45225

### ROSOL 1 S

#### Fittings solder paste


Quality soft soldering flux, metal content: **S-Sn97Ag3**, only for use with fitting solder 1 S

| Model                             |  g | No.          |
|-----------------------------------|---|--------------|
| ROSOL 1 S in plastic bottle 250 g | 270   | <b>45220</b> |

### ROSOL 3

#### Fittings solder paste


Quality soft soldering flux, metal content: **S-Sn97Cu3**, only for use with fittings solder 3

| Model                           |  g | No.          |
|---------------------------------|---|--------------|
| ROSOL 3 in plastic bottle 250 g | 270   | <b>45225</b> |

### Fittings Soft Solder Flux

According to **DIN EN 29454-1 3.1.1.C**, flux residues are 100 % water soluble, for joining copper pipes to copper, gunmetal, and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 2 + GW 7, also suitable for general-purpose soldering work.

DIN  
-Norm

| Model   |  g | No.          |
|---|---|--------------|
| Fittings Soft Solder Flux in plastic tube 35 ml | 45  | <b>45266</b> |





### Hard Solder Rings S 5

High-quality safety solder material with silver-phosphorus content, guaranteed according to DIN EN 1044, CP 105

#### KEY FEATURES

- Ideal for capillary soldering with copper pipe installation in sanitary and heating systems
- Matched precisely to the inner pipe diameters of brushed pipes and fittings according to **EN 1254**
- Complete wetting of brushes
- Particularly efficient working through precise solder quantity
- No preparatory or re-work of the soldered joint

#### TECHNICAL DATA

|                            |   |
|----------------------------|---|
| <b>Alloy (weight %):</b>   | Ag 1.5 - 2,5 / P 5.9 - 6.5 / Cu rest                |
| <b>Melting range:</b>      | 650 °C - 810 °C                                     |
| <b>Joinable materials:</b> | Copper, gunmetal, brass, bronze                     |
| <b>Use of flux with:</b>   | Gunmetal, brass, bronze with hard solder paste LP 5 |
| <b>Package size:</b>       | 250 g plastic bag                                   |

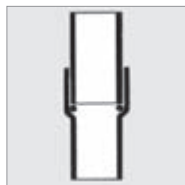
4



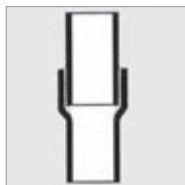
Simple insertion



Precise quantity of solder



Simply heat, no dripping, no reduction of cross-section



| Outside Ø mm                   | approx. Content rings | g   | No.          |
|--------------------------------|-----------------------|-----|--------------|
| Hard solder rings S 5, Ø 12 mm | 395                   | 260 | <b>40512</b> |
| Hard solder rings S 5, Ø 14 mm | 268                   | 260 | <b>40514</b> |
| Hard solder rings S 5, Ø 15 mm | 244                   | 260 | <b>40515</b> |
| Hard solder rings S 5, Ø 16 mm | 228                   | 260 | <b>40516</b> |
| Hard solder rings S 5, Ø 18 mm | 186                   | 260 | <b>40518</b> |
| Hard solder rings S 5, Ø 22 mm | 106                   | 260 | <b>40522</b> |
| Hard solder rings S 5, Ø 28 mm | 79                    | 260 | <b>40528</b> |
| Hard solder rings S 5, Ø 32 mm | 60                    | 260 | <b>40532</b> |



### Hard Solder Paste LP 5

Flux for hand soldering at working temperatures above 600 °C, according to DIN EN 29454, Type F-SH 1, DVGW tested Reg.-No. DV-0101-AT2245, for gas and water installations with copper pipes, recommended by DVGW in accordance with Worksheets GW 2 and GW 7, hard solders with silver content and usable with any basic materials of steel, copper and copper alloys, brass and gunmetal, working temperature range 550 °C – 800 °C, flux residues must be removed carefully

| Description                  | g   | No.          |
|------------------------------|-----|--------------|
| LP 5 in plastic bottle 160 g | 180 | <b>40500</b> |



### Hard Solder Powder HKM

Flux for hard soldering at working temperatures above 800 °C, according DIN EN 29454, Type F-SH 2, working temperature 750 - 1100 °C, for copper and copper alloys, brass, gunmetal, nickel silver, bronze, steel and galvanised steel, grey iron and malleable cast iron, for welding copper and brass in dry conditions, can be mixed with clean water to form a paste, flux residues must be removed carefully

| Description                 | g   | No.          |
|-----------------------------|-----|--------------|
| HKM in plastic bottle 160 g | 180 | <b>35611</b> |



### Flux Brush

| Description | Width mm | Length mm | g  | No.           |
|-------------|----------|-----------|----|---------------|
| Flux Brush  | 13       | 140       | 20 | <b>530261</b> |



### Hard Solders

#### For copper pipe installation

ROTHENBERGER ROLOT special hard solders are particularly suited for copper pipe installations in cold and hot water systems, for open and closed heating systems, for gas installations in accordance with DVGW Worksheet GW 2 (liquid, natural and town gas), as well as for HVAC and refrigeration applications, and oil pipes. ROTHENBERGER ROLOT is especially suited for capillary soldering of copper pipes without fittings. Copper / phosphorus / silver solders are highly formable, and are therefore recommended for joints that are subjected to high thermal and mechanical alternating loads.

#### KEY FEATURES

- Non-foaming. Heat- resistant up to 200 °C
- No flux required with copper / copper joints
- Flux LP 5 is to be used when joining brass, gunmetal, copper, tin and copper / tin alloys
- Not to be used with materials containing sulphur, with iron / nickel alloys or with copper alloys containing nickel
- Manufactured with new, environmentally compatible technology, corrosion neutral, scale-free, improved flow properties



### ROLOT® S 94 CP 203

Quality hard solder **guaranteed according to DIN EN 1044**, due to low phosphorus content, the solder has a wide melting range, and gives soldered joints with increased strength. Standard solder for normally-stressed copper pipe installation, especially for capillary soldering with copper pipe installation without fittings

#### TECHNICAL DATA

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Alloy (weight %):</b>    | P 5.9 - 6.5 Cu rest               |
| <b>Melting range:</b>       | 710 °C – 880 °C                   |
| <b>Working temperature:</b> | 730 °C                            |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze   |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with LP 5 |

**Guaranteed according to DIN EN 1044!**



| Contents         | Squared section mm | Length mm | g     | No.               |
|------------------|--------------------|-----------|-------|-------------------|
| 1 kg carton      | 2 x 2              | 500       | 1,025 | <b>40094</b>      |
| 1 kg carton      | 3 x 3              | 500       | 1,025 | <b>40095</b>      |
| 5 kg plastic bag | 2 x 2              | 500       | 5,025 | <b>040094A</b>    |
| 400 g blister    | 2 x 2              | 500       | 420   | <b>1000000133</b> |

### ROLOT® S 94 XN CP 203

Quality brazing solder, **guaranteed according to DIN EN 1044**, due the special manufacturing method it has excellent flow characteristics, uniform melting for perfect soldered joints, capillary and air-tight active, ideal for capillary gap soldering in sanitary, heating and gas installation

#### TECHNICAL DATA

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Alloy (weight %):</b>    | P 5.9 - 6.5 Cu rest               |
| <b>Melting range:</b>       | 710 °C – 880 °C                   |
| <b>Working temperature:</b> | 730 °C                            |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze   |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with LP 5 |

**Guaranteed according to DIN EN 1044!**



| Contents    | Squared section mm | Length mm | g     | No.            |
|-------------|--------------------|-----------|-------|----------------|
| 1 kg carton | 2 x 2              | 500       | 1,025 | <b>040097X</b> |

### ROLOT® S 1 CP 203

Special quality brazing solder, not standardised, **similar to DIN EN 1044**, CP 203, for normally-stressed copper pipes systems, also for gap soldering for copper pipe installations without fittings

#### TECHNICAL DATA

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Melting range:</b>       | 710 °C – 880 °C                 |
| <b>Working temperature:</b> | 730 °C                          |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze |
| <b>Flux required with:</b>  | Brass, gunmetal, bronze LP 5    |




| Contents    | mm | Length mm | g     | No.          |
|-------------|----|-----------|-------|--------------|
| 1 kg carton | 2  | 500       | 1,025 | <b>40102</b> |

# Bonding


## Accessories Soldering & Welding




| Contents      | Square mm | Length mm |  g | No.               |
|---------------|-----------|-----------|---|-------------------|
| 1 kg carton   | 2 x 2     | 500       | 1,025   | <b>40202</b>      |
| 1 kg carton   | 3 x 3     | 500       | 1,025   | <b>40203</b>      |
| 400 g blister | 2 x 2     | 500       | 420   | <b>1000000135</b> |

**Guaranteed according to DIN EN 1044!**




| Contents      | Square mm | Length mm |  g | No.               |
|---------------|-----------|-----------|--|-------------------|
| 1 kg carton   | 2 x 2     | 500       | 1,025  | <b>40212</b>      |
| 1 kg carton   | 3 x 3     | 500       | 1,025  | <b>40213</b>      |
| 400 g blister | 2 x 2     | 500       | 420  | <b>1000000134</b> |



| Contents      | Square mm | Length mm |  g | No.               |
|---------------|-----------|-----------|---|-------------------|
| 1 kg carton   | 2 x 2     | 500       | 1,025   | <b>40502</b>      |
| 400 g blister | 2 x 2     | 500       | 420   | <b>1000000137</b> |

**Guaranteed according to DIN EN 1044!**



| Contents      | Square mm | Length mm |  g | No.               |
|---------------|-----------|-----------|---|-------------------|
| 1 kg carton   | 2 x 2     | 500       | 1,025   | <b>40005</b>      |
| 400 g blister | 2 x 2     | 500       | 420   | <b>1000000136</b> |

### ROLOT® S 2 CP 105

Special quality hard solder, not standardised, **similar to DIN EN 1044**, with low silver content, matched to normally-stressed copper pipe system, ideal for capillary gap soldering

#### TECHNICAL DATA

|                             |   |
|-----------------------------|---|
| <b>Melting range:</b>       | 710 °C – 820 °C                                     |
| <b>Working temperature:</b> | 720 °C  |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze                     |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with hard solder paste LP 5 |

### ROLOT® S 2 CP 105

Silver / phosphorus safety hard solder, **guaranteed according to DIN EN 1044**, for higher-stressed copper pipe systems, ideal for capillary soldering in sanitary, heating and gas installations

#### TECHNICAL DATA

|                             |  |
|-----------------------------|--|
| <b>Alloy (weight %):</b>    | Ag 1.5 – 2.5 / P 5.9 – 6.5 / Cu rest               |
| <b>Melting range:</b>       | 650 °C – 810 °C                                    |
| <b>Working temperature:</b> | 710 °C   |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze                    |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with hard solder paste LP5 |

### ROLOT® S 5 CP 104

Particularly high quality hard solder, not standardised, **similar to DIN EN 1044**, with low silver content, ideal for capillary and joint soldering in sanitary, heating and gas installations

#### TECHNICAL DATA

|                             |  |
|-----------------------------|--|
| <b>Melting range:</b>       | 710 °C – 820 °C                                    |
| <b>Working temperature:</b> | 720 °C   |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze                    |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with hard solder paste LP5 |

### ROLOT® S 5 CP 104

High-quality silver/phosphorus safety hard solder, **guaranteed according to DIN EN 1044**, for higher-stressed copper pipe systems, ideal for capillary and joint soldering in sanitary, heating and gas installations

#### TECHNICAL DATA

|                             |  |
|-----------------------------|--|
| <b>Alloy (weight %):</b>    | Ag 4 – 6 / P 5.7 – 6.3 / Cu rest                   |
| <b>Melting range:</b>       | 650 °C – 810 °C                                    |
| <b>Working temperature:</b> | 710 °C   |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze                    |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with hard solder paste LP5 |

### ROLOT® S 15 CP 102

Particularly high quality silver hard solder, **guaranteed according to DIN EN 1044**, especially for capillary-gap soldering subject to high thermal and mechanical alternating loads in HVAC systems, as well as demanding sanitary and gas installations

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

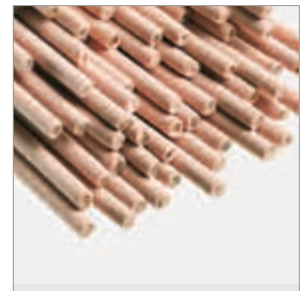
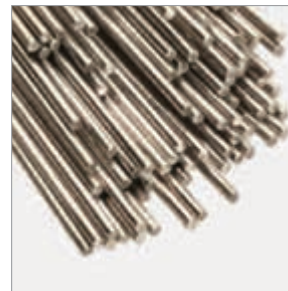
|                             |  |
|-----------------------------|--|
| <b>Alloy (weight %):</b>    | Ag 14.0 – 16.0 / P 4.7 – 5.3 / Cu rest             |
| <b>Melting range:</b>       | 650 °C – 800 °C                                    |
| <b>Working temperature:</b> | 710 °C   |
| <b>Joinable materials:</b>  | Copper, gunmetal, brass, bronze                    |
| <b>Flux required with:</b>  | Gunmetal, brass, bronze with hard solder paste LP5 |

| Contents    | Square mm | Length mm | g     | No.          |
|-------------|-----------|-----------|-------|--------------|
| 1 kg carton | 2 x 2     | 500       | 1,025 | <b>40015</b> |

### Silver Hard Solders Ag 106 S 34 Cu / S 34 Cu U flux-covered

**Free of cadmium**, quality silver hard solder **guaranteed according to DIN EN 1044**, plain (S 34 Cu) or flux-covered according to DIN EN 29454 F-SH 1 (S 34 Cu U), universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

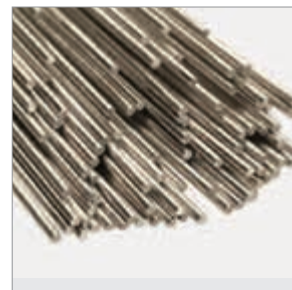
|                             |  |
|-----------------------------|--|
| <b>Alloy (weight %):</b>    | Ag 33.0 – 35.0 / Cu 35.0 – 37.0<br>Sn 1.5 – 2.5 / Zn rest              |
| <b>Melting range:</b>       | 630 °C – 730 °C  |
| <b>Working temperature:</b> | 710 °C   |
| <b>Joinable materials:</b>  | Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys |
| <b>Flux required:</b>       | for S 34 Cu generally with hard solder paste LP 5                      |

| Contents           | mm | g     | S 34 No.     | S 34 U No.   |
|--------------------|----|-------|--------------|--------------|
| 100 g plastic bag  | 2  | 110   | <b>44910</b> | <b>44915</b> |
| 250 g plastic bag  | 2  | 260   | <b>44911</b> | <b>44916</b> |
| 1000 g plastic bag | 2  | 1,010 | <b>44912</b> | <b>44917</b> |

### Silver Hard Solders Ag 104 S 45 Cu / S 45 Cu U flux-covered

**Free of cadmium**, quality silver hard solder, **guaranteed according to DIN EN 1044**, plain (S 45 Cu) or flux-covered according to DIN EN 29454 F-SH 1 (S 45 Cu U), universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

|                             |  |
|-----------------------------|--|
| <b>Alloy (weight %):</b>    | Ag 44.0 – 46.0 / Cu 26.0 – 28.0<br>Sn 2.5 – 3.5 / Zn rest              |
| <b>Melting range:</b>       | 640 °C – 680 °C  |
| <b>Working temperature:</b> | 670 °C   |
| <b>Joinable materials:</b>  | Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys |
| <b>Flux required:</b>       | for S 45 generally with hard solder paste LP 5                         |

| Contents           | mm | g     | S 45 No.     | S 45 U No.   |
|--------------------|----|-------|--------------|--------------|
| 100 g plastic bag  | 2  | 110   | <b>45050</b> | <b>45055</b> |
| 250 g plastic bag  | 2  | 260   | <b>45051</b> | <b>45056</b> |
| 1000 g plastic bag | 2  | 1,010 | <b>45052</b> | <b>45057</b> |







# Testing & Leak Detection

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# Testing & Leak Detection

## Overview Testing Pumps

up to 60 bar

### RP 50-S / RP 50-S INOX

Manual precision testing pump, 0 - 60 bar

- A classic, precise and safe
- Scaling pressure gauge 1 bar
- Scaling pressure gauge 0.1 bar expandable up to a maximum pressure of 16 bar
- Container: Steel Duramant® coated or stainless steel
- Volume: 12 l
- Weight: 8 kg

175



5

up to 40 bar

### RP PRO III

Self-priming electrical testing pump, 0 - 40 bar

- Saves time and effort, automatic filling and testing
- Scaling pressure gauge 1 bar
- Liquid supply self-priming or using a pressure source
- Weight: 16 kg

176



up to 30 bar

### RP 30

Manual testing pump, 0 - 30 bar

- Simple, light and handy, for all common uses in residential construction
- Scaling pressure gauge 1 bar
- Container: ABS-plastic
- Volume: 4.5 l
- Weight: 4.5 kg

177



up to 25 bar

### TP 25

Manual testing pump, 0 - 25 bar

- Small and robust, for daily use at the building site
- Scaling pressure gauge 1 bar
- Container: Steel Duramant® coated
- Volume: 7 l
- Weight: 4,6 kg

177





### RP 50-S / RP 50-S INOX

Robust precision testing pump for the pressure testing of water lines and containers up to 60 bar with very high testing standards

Adjustment of the pressure gauge to 0,1 bar is possible!



#### Product Profile

##### APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers (up to 60 bar). Expansion possible with an extra fine scaling pressure gauge (0.1 bar) for testing up to 16 bars

##### KEY FEATURES

- A drag indicator displays the preset pressure so that a loss of pressure in the system can be detected easier
- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Especially precise reading as needed: finely scaled (scaling 0.1 bar) pressure gauge available separately
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Type 50-S: Weather and cold-resistant steel container with DURAMANT coating
- Type 50-S INOX: high-quality corrosion resistant stainless steel tank

##### TECHNICAL DATA

|                                    |   |
|------------------------------------|---|
| <b>Testing and pressure range:</b> | 0 - 60 bar, with 1 bar steps<br>0 - 860 psi, with 20 psi steps<br>0 - 6 MPa, with 0,1 MPa steps |
| <b>Hub suction capacity:</b>       | approx. 45 ml / stroke  |
| <b>Tank capacity:</b>              | 12 l  |
| <b>Dimensions (L x W x H):</b>     | 720 x 170 x 260 mm  |
| <b>Connection:</b>                 | R 1/2"  |
| <b>Container RP 50-S:</b>          | Steel, DURAMANT® coated   |
| <b>Container RP 50-S INOX:</b>     | Stainless steel   |

##### Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

##### Additional pressure gauge with fine scaling 0.1 bar optional

Enables very precise readings up to a range of 16 bar (No. 61316)

##### Testing hose with steel mesh

Precise measurement

##### Weather and cold-resistant container

5 year rust-free guarantee - DURAMANT® coated

**INOX!**



No. 60203



No. 60200

Double valve system: enables self-testing of the pump, as well as a precise fine adjustment of the pressure

Optional: Extra fine scaling Pressure gauge for the testing of systems up to 16 bar with a 0.1 scaling



| Model                                       | kg | g   | No.          |
|---|----|-----|--------------|
| RP 50-S Testing Pump                        | 8  | 1 4 | <b>60200</b> |
| RP 50-S INOX (stainless steel) Testing Pump | 8  | 1 4 | <b>60203</b> |

#### ACCESSORIES

| Model                      | g   | No. | Model  | g   | No.            |
|----------------------------|-----|-----|--|-----|----------------|
| Maintenance package        | 0.1 | 1   | High pressure hose with 1/4"-1/2" connection             | 490 | 1 <b>61125</b> |
| Double nipple 1/2" to 3/4" | 0,1 | 1   | Extra 16 bar pressure gauge with drag indicator R1/4"100 | 1   | <b>61316</b>   |



# Testing & Leak Detection

## Testing of Water Lines & Containers

### RP PRO III

Self-priming electric filling and testing pump up to 40 bar

#### Product Profile

##### APPLICATION AREA

Electrical testing pump for the automatic pressure testing of piping and containers up to 40 bar in accordance with national and international standards

##### KEY FEATURES

- Comfortable, automatic filling and pressure testing of piping and containers
- Compact and robust plastic casing for simple handling at the building site
- Liquid supply freely selectable: optional self-priming or from a pressure source. Suitable for water and oil
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Glycerine cushioned pressure gauge absorbs pressure surges which makes pressure reading easier

##### TECHNICAL DATA

|                                    |   |
|------------------------------------|---|
| <b>Testing and pressure range:</b> | 0 - 40 bar, with 1 bar steps<br>0 - 570 psi, with 20 psi steps<br>0 - 0.1 MPa steps |
| <b>Flow Rate:</b>                  | 6 l / min   |
| <b>Dimensions (L x W x H):</b>     | 375 x 290 x 300 mm  |
| <b>Connection:</b>                 | R 1/2"  |
| <b>Mains voltage:</b>              | 200 - 240 V / 50 HZ and<br>110 V / 50 - 60 HZ                                       |
| <b>Performance:</b>                | 1.3 kW  |
| <b>Container:</b>                  | ABS-plastic   |

5



#### Valve for pressure adjustment

Precise labelling on handle

#### Glycerine pressure gauge

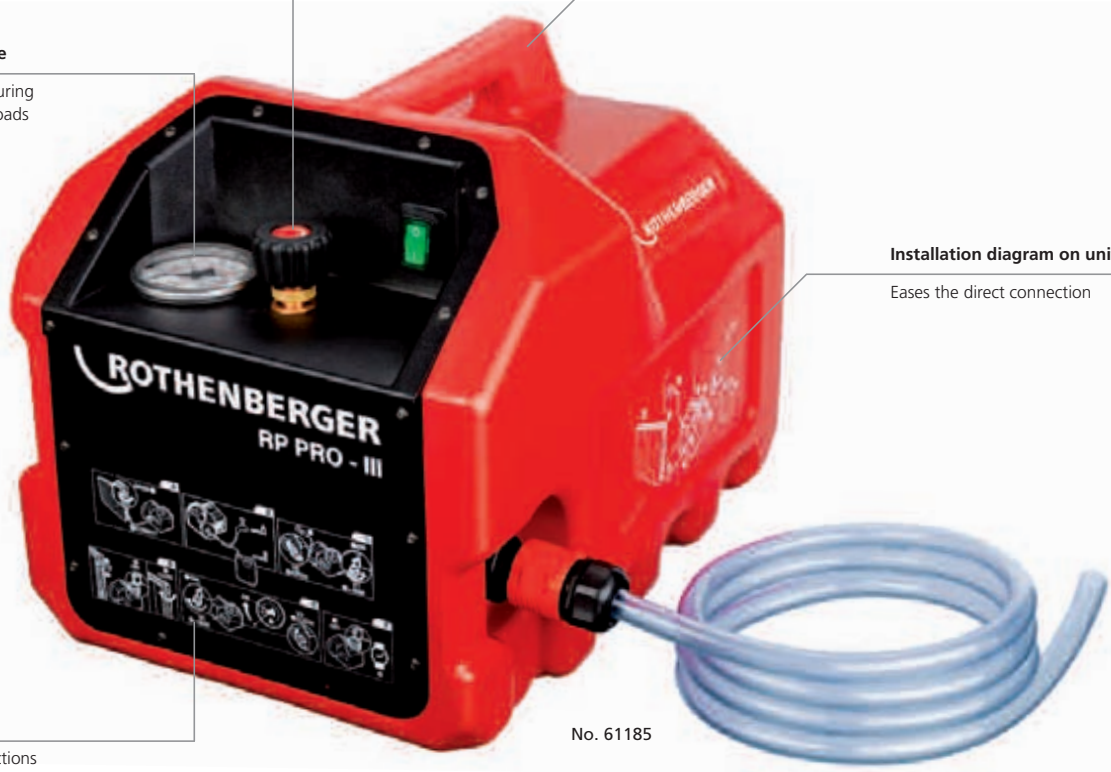
Easy for the user to read during high dynamic alternating loads

#### Optimal weight distribution

Comfortable to carry

#### Installation diagram on unit

Eases the direct connection



No. 61185

#### Function Overview

Direct overview of the functions

Optional: Extra fine scaling Pressure gauge for the testing of systems up to 16 bar with a 0.1 scaling



| Model   | kg   | No.          |
|---|------|--------------|
| Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose | 16.0 | <b>61185</b> |
| Filling hose with adaptor   | 0.5  | <b>61001</b> |
| Testing hose with R 1/2" connection   | 0.4  | <b>61002</b> |
| Extra pressure gauge  | 0.8  | <b>61187</b> |
| Maintenance package RP PRO III in scope of delivery   |      | <b>61186</b> |



### TP 25

Small, robust precision testing pump for pressure testing up to 25 bar

#### Product Profile

#### APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers up to 25 bar in accordance with international and national standards

#### KEY FEATURES

- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Weather and cold-resistant steel container with DURAMANT® coating

#### TECHNICAL DATA

**Testing and pressure range:** 0 - 25 bar  
**Hub suction capacity:** approx. 16 ml / stroke  
**Dimensions (L x W x H):** 380 x 215 x 156 mm  
**Connection:** R 1/2"  
**Container:** Steel, DURAMANT® coated (5 year guarantee)



For the daily work on site



| Model                     | Pressure range | kg  |     | No.          |
|---------------------------|----------------|-----|-----|--------------|
| TP 25 Testing Pump        | up to 25 bar   | 4.6 | 1 4 | <b>60250</b> |
| Maintenance package TP 25 |                |     | 1   | <b>60251</b> |

### RP 30

Simple and light testing pump for compression testing up to 30 bar

#### Product Profile

#### APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers up to 30 bar in accordance with international and national standards

#### KEY FEATURES

- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Shock and corrosion resistant ABS plastic container with reinforced floor

#### TECHNICAL DATA

**Testing and pressure range:** 0 - 30 bar, with 1-bar steps  
 0 - 440 psi, with 20 PSI steps  
**Hub suction capacity:** 16 ml / stroke  
**Dimensions (L x W x H):** 440 x 200 x 240 mm  
**Connection:** R 1/2"  
**Container:** ABS-plastic



Easy, light and handy: for all common house building applications



| Model              | Pressure range | kg  |     | No.          |
|--------------------|----------------|-----|-----|--------------|
| Testing pump RP 30 | up to 30 bar   | 4.5 | 1 4 | <b>61130</b> |
| Testing hose       |                | 0.4 | 1   | <b>61125</b> |



# Testing & Leak Detection

## Testing of Gas & Water Lines

### ROTEST® GW 150/4

Analogue testing device for gas and water connections using air as the medium



#### Product Profile

##### APPLICATION AREA

Analogue testing unit for the implementation of the following tests:

**Gas:** Load and leakage test for newly installed gas lines in accordance with DVGW - TRGI worksheet G600 (April 2008)

Leakage test from propane liquid gas lines / low-pressure liquid gas lines

Adjustment of the duct pressure on atmospheric burners and forced-air burners

Testing of the appliance connection pressure on gas appliances

**Water:** Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)

##### KEY FEATURES

- Quick and precise pressure reading over water column without electronic
- Testing time and pressures in accordance with DVGW - TRGI and TRWI clearly arranged on unit cover
- Sturdy unit: High reliability when used on the building site

##### TECHNICAL DATA

**Pressure gauge:** 4 bar  
**Water column:** 150 mbar  
**Testing accuracy:** Water column 0.1 mbar (Reading accuracy in accordance with TRGI)  
 Pressure gauge 0.1 bar (Display range 0 - 4 bar)

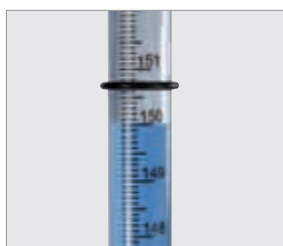
5



**DVGW-TRGI / worksheet G600/April 2008 conforming!**



Testing scale up to 150 mbar on transparent extending tube element



Transparent tube element with double o-ring seal



Inspection glass  
Water level control



Legible scaling

Continuous scaling up to 150 mbar

Measurement chart in unit

Testing times and testing pressure from lawmakers at a glance

Foam inlay

High transport safety and protection of the components

Compact measuring station

Designed to serve in real-life situations through quick, exact gas pressure measurements

| Model in combination with basic unit                             | kg  | No.          |
|--|-----|--------------|
| with 5 test plugs and supply end cap (with No. 1-14, 16-17)      | 7.6 | <b>61700</b> |
| with 5 test plugs and supply end cap (with No. 1-5, 7-14, 16-17) | 7.3 | <b>61701</b> |

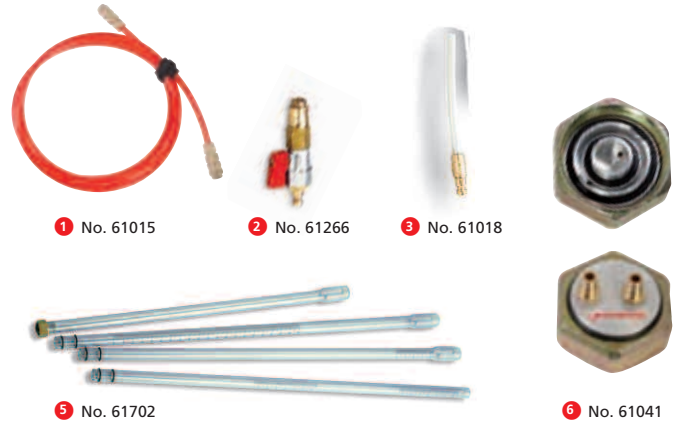
# Testing & Leak Detection

## Testing of Gas & Water lines

### Set Components

| Description                       | ET | g   | No.    |
|-----------------------------------|----|-----|--------|
| Connecting hose                   | 1  | 130 | 61015  |
| Cut-off valve, gas                | 2  | 125 | 61266  |
| Adaptor                           | 3  | 10  | 61018  |
| Rubber bellow                     | 4  | 55  | 61014  |
| Tube element, 4 piece             | 5  | 120 | 61702  |
| Supply end cap                    | 6  | 380 | 61041  |
| Seal set                          | 7  | 40  | 61030  |
| Force pump                        | 8  | 400 | 61011  |
| Spare manometer R 1/4"            | 9  | 75  | 61012  |
| Double nipple for hose connection | 10 | 100 | H96591 |
| Measurement fluid, blue           | 11 | 100 | 351257 |

4, 7 up to 11 without picture



### Gas Test Plug / Adaptor

Suitable for gas lines up to 1.5 bar

| Model                                   | Steel exterior pipe Ø inch | Copper exterior pipe Ø mm | Parts-No. | g   | No.    |
|---|----------------------------|---------------------------|-----------|-----|--------|
| Conical shape with pneumatic connection |                            |                           |           |     |        |
| Size 0                                  | 3/8 - 1/2"                 | 12 - 20                   | 12        | 45  | 351260 |
| Size 1                                  | 1/2 - 1"                   | 20 - 30                   | 13        | 80  | 351261 |
| Size 2                                  | 3/4 - 1.1/4"               | 25 - 40                   | 14        | 125 | 351262 |
| Size 3                                  | 1.1/4 - 2"                 | 35 - 60                   | 15        | 175 | 351263 |

| Model                                       | Steel exterior pipe Ø inch | Copper exterior pipe Ø mm | Parts-No. | g  | No.    |
|---|----------------------------|---------------------------|-----------|----|--------|
| Cylindrical shape with pneumatic connection |                            |                           |           |    |        |
| Size 1                                      | 3/4"                       | 18 - 22                   | 16        | 60 | 351271 |
| Size 2                                      | 1"                         | 28 - 30                   | 17        | 75 | 351272 |

| Model                            | Steel exterior pipe Ø inch | Copper exterior pipe Ø mm | Parts-No. | g   | No.    |
|----------------------------------|----------------------------|---------------------------|-----------|-----|--------|
| Conical shape with hose coupling |                            |                           |           |     |        |
| Size 0                           | 3/8 - 1/2"                 | 12 - 20                   | 18        | 200 | 351220 |
| Size 1                           | 1/2 - 1"                   | 20 - 30                   | 19        | 300 | 351221 |
| Size 2                           | 3/4 - 1.1/4"               | 25 - 40                   | 20        | 300 | 351222 |
| Size 3                           | 1.1/4 - 2"                 | 35 - 60                   | 21        | 400 | 351223 |

| Model                            | Steel exterior pipe Ø inch | Copper exterior pipe Ø mm | Parts-No. | g   | No.    |
|----------------------------------|----------------------------|---------------------------|-----------|-----|--------|
| Conical shape with 2 ball valves |                            |                           |           |     |        |
| Size 1                           | 1/2 - 1"                   | 20 - 30                   | 22        | 260 | 351231 |
| Size 2                           | 3/4 - 1.1/4"               | 25 - 40                   | 23        | 420 | 351232 |
| Size 3                           | 1.1/4 - 2"                 | 35 - 60                   | 24        | 700 | 351233 |

| Model                           | Steel exterior pipe Ø inch | Copper exterior pipe Ø mm | Parts-No. | g   | No.    |
|---------------------------------|----------------------------|---------------------------|-----------|-----|--------|
| Conical shape with 1 ball valve |                            |                           |           |     |        |
| Size 0                          | 3/8 - 1/2"                 | 12 - 20                   | 25        | 200 | 351225 |
| Size 1                          | 1/2 - 1"                   | 20 - 30                   | 26        | 350 | 351226 |
| Size 2                          | 3/4 - 1.1/4"               | 25 - 40                   | 27        | 390 | 351227 |
| Size 3                          | 1.1/4 - 2"                 | 35 - 60                   |           | 600 | 351228 |

| Model                                     | Parts-No. | g   | No.    |
|---|-----------|-----|--------|
| With double plug valve - with hose snout  |           |     |        |
| Adaptor/cut-off valve with pn. connection | 28        | 290 | 351265 |



# Testing & Leak Detection

## Testing of Gas & Water Lines

### ROTEST® GW DIGITAL V2.3 USB

Universal, digital leakage testing system for gas, water and sewage lines with automatic logging

DVGW-TRGI / worksheet  
G600/April 2008 conforming!



#### Product Profile

##### APPLICATION AREA

Digital testing unit with automatic logging for the implementation of following tests:

- Gas:**
  - Load and leakage test for newly installed gas lines in accordance with DVGW - TRGI Worksheet G600 (April 2008)
  - Leakage test from propane liquid gas lines / low-pressure liquid gas lines
  - Adjustment of the duct pressure on atmospheric burners and forced-air burners
  - Testing of the appliance connection pressure on gas appliances
  - Long-term pressure testing
- Water:**
  - Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)
  - Long-term pressure testing
- Sewage:**
  - Leakage testing on sewage lines (house connection) in accordance with DIN EN 1610 and DIN 1986 part 30 possible in combination with the house connection testing set (see page 182)
  - Long-term pressure testing

##### KEY FEATURES

- High safety and simple use, the software in the unit guides the user step-by-step through the tests - in accordance with the legally required testing specifications
- Simple logging of the results with the thermal printer (optional accessory) or with the PC software included in delivery
- Two ports (infra-red and USB) for quick communication with the thermal printer or PC

##### TECHNICAL DATA

- Low-pressure sensor**  
Resolution / Testing range: 0.1 mbar / 0 - 250 mbar
- High-pressure sensor**  
Resolution / Testing range: 0.001 bar / 0 - 20 bar
- Continuous long-term testing:** at 0.5 minute intervals max. 3 days
- Data transfer:**
- Printer: Infrared
- PC: USB
- Power supply:** Main adaptor, 1 x 9 Volt lithium cell, type SLM 9 V

Robust pressure sensor with a pressure range (250 mbar) blue and (20 bar) red



Ideal for measuring with the House Connection Test Set page 182 up to 250 mbar





# Testing & Leak Detection

## Testing of Gas & Water Lines

### Set components ROTEST® GW DIGITAL V2.3 USB



Set (No. 61298) includes: Individual components 1-20 without thermal printer (No. 61052) and Y-manifold (61282)  
 Set (No.61297) includes: Individual components like No. 61298 without leakage pump (No. 61271), actuator (No.61284) and fine pressure actuator (No. 61282)  
 (Serviceability test not possible)

| Model  | kg  | No.          |
|--|-----|--------------|
| ROTEST® GW DIGITAL V2.3 USB with leakage pump    | 5.4 | <b>61298</b> |
| ROTEST® GW DIGITAL V2.3 USB without leakage pump | 4.3 | <b>61297</b> |

| Model                                  | ET | kg  | No.          | Model                      | ET | kg   | No.          |
|--|----|-----|--------------|----------------------------|----|------|--------------|
| ROTEST® GW DIGITAL V2.3 USB basic unit | 1  | 270 | <b>61293</b> | Adaptor water              | 12 | 160  | <b>61264</b> |
| Power supply                           | 2  | 120 | <b>61094</b> | Cut-off valve gas          | 13 | 155  | <b>61266</b> |
| Low-pressure sensor V2.3 USB           | 3  | 40  | <b>61276</b> | Cut-off valve for water    | 14 | 165  | <b>61267</b> |
| High-pressure sensor V2.3 USB          | 4  | 40  | <b>61277</b> | Adaptor 1/2"               | 15 | 50   | <b>61265</b> |
| Leakage pump                           | 5  | 780 | <b>61271</b> | Adaptor 1/8"               | 16 | 10   | <b>61270</b> |
| PC Cable USB                           | 6  | 105 | <b>61294</b> | Adaptor for burner setting | 17 | 20   | <b>61274</b> |
| PC Software RoData 2.4 USB             | 7  | 20  | <b>92655</b> | Fine pressure regulator    | 18 | 50   | <b>61284</b> |
| Thermal printer                        | 8  | 505 | <b>61052</b> | Y-manifold                 | 19 | 415  | <b>61282</b> |
| Hand pump                              | 9  | 200 | <b>61268</b> | Connecting hose            | 20 | 195  | <b>61269</b> |
| Double bellows                         | 10 | 115 | <b>61273</b> | Padded carrying case       |    | 1550 | <b>61279</b> |
| Adaptor for gas                        | 11 | 190 | <b>61263</b> |                            |    |      |              |

### ACCESSORIES

| Model                                    | kg | No.          | Model  | kg  | No.           |
|--|----|--------------|--|-----|---------------|
| Paper roll for thermal printer (4 rolls) | 40 | <b>61043</b> | Gas test plugs, size 0, conical 3/8 - 1/2"   | 45  | <b>351273</b> |
| House connection test set (DIN EN 1610)  |    | <b>61340</b> | Gas test plugs, size 1, conical 1/2 - 1"     | 80  | <b>351274</b> |
|  |    |              | Gas test plugs, size 2, conical 3/4 - 1 1/4" | 125 | <b>351275</b> |
|  |    |              | Gas test plugs, size 3, conical 1 1/4 - 2"   | 175 | <b>351276</b> |
|  |    |              | Gas test plugs, size 1, cylindrical 3/4"     | 60  | <b>351277</b> |
|  |    |              | Gas test plugs, size 2, cylindrical 1"       | 75  | <b>351278</b> |
|  |    |              | Supply end cap                               | 380 | <b>351279</b> |

House connection test set (DIN EN 1610) see 182



# Testing & Leak Detection

## Testing of Waste Water Lines

### House Connection Test Set

Set for testing in accordance with DIN EN 1610 and 1986 in combination with GW Digital (version 2.1 or newer)



#### Product Profile

##### APPLICATION AREA

Testing balloon and accessories for the leakage testing of ground water piping using air in accordance with **DIN EN 1610 and DIN 1986, part 30**. Suitable for nominal diameters of 65 to 250 mm

##### KEY FEATURES

- Handy set: One testing and sealing balloon for the most common pipe diameters (included in set are diameters 75 - 150 mm, additional balloons available in accessories)
- Easier positioning of the balloon, even in hard to reach places using various push and filling rod sizes
- Body material is made out of aluminium and eases the positioning of the testing balloon through the pipe system
- Sturdy balloons made of natural rubber are temperature, use and waste water resistant. If the balloon becomes damaged, a simple repair is possible

##### TECHNICAL DATA

Maximum operating pressure: 15 bar  
Push rod length: 10 m

##### DIN EN 1610

**1.5 million km underground piping alone in Germany are waiting for testing** (Source: DWA)

A new field for certified HVAC craftsmen: The DIN EN 1610 requires leakage testing with water or air for all ground pipe no later than 2015 (varies per region)

5



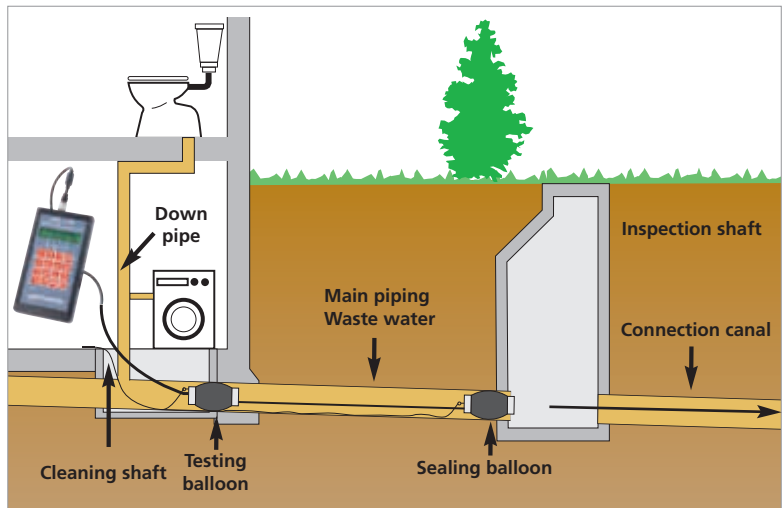
No. 61340

**Do you want to become certified? Just ask us!**

House connection sets in use



Connection example: House connection test set with ROTEST® GW Digital V2.3 USB



11-part House Connection Test Set (No. 61340) includes:

sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 61359), filling hose (No. 61365), test valve, filling valve (No. 61367), push rod (No. 61380), holding rope (No. 61368), upright pump with pressure gauge (No. 61369), plastic case (No. 61370), cover (No. 61370), cover (No. 91123), plastic case inlay for upright pump (No. 91122)

| Model                 | kg  | box | No.          |
|-----------------------|-----|-----|--------------|
| House Connection Test | 7.8 | 1   | <b>61340</b> |



| Ø Testing/Sealing balloon | Testing balloon No. | Sealing balloon No. |
|---------------------------|---------------------|---------------------|
| 65 - 100                  | <b>61358</b>        | -                   |
| 75 - 150                  | <b>61359</b>        | <b>61352</b>        |
| 90 - 250                  | <b>61360</b>        | <b>61353</b>        |

# Testing & Leak Detection

## Leak Detection on Gas Lines

### ROTEST®

Leak detection on gas lines

| Product Profile  |          |   |              |
|--|----------|---|--------------|
| <b>APPLICATION AREA</b>  |          |   |              |
| Ideal for detecting leaks in gas-filled lines, gas cylinders or containers. When a leak is present a blister forms   |          |   |              |
| <b>KEY FEATURES</b>  |          |   |              |
| <ul style="list-style-type: none"> <li>● Simple use - always ready to use</li> <li>● Highly sensitive foaming spray for a quick and reliable locating of leaks</li> </ul>                                  |          |   |              |
| <b>TECHNICAL DATA</b>  |          |   |              |
| Detects gases (for example natural gas, inflammable gas, air)<br>The leak detection spray is neutral against the most common inflammable gases and refrigerants. The only reaction is the building of foam |          |   |              |
| Model  | Contents |   | No.          |
| ROTEST® leak detection spray   | 400 ml   | 470 12  | <b>65000</b> |

Highly sensitive foam spray:  
Quick and reliable location of leaks!



DVGW tested  
Reg.-Nr. NG-5170CL0063



### ROTEST® Electronic 3

Leak detection on gas lines

| Product Profile   |  |
|---|--|
| <b>APPLICATION AREA</b>   |  |
| For the detection of gas in room, as well as leaks in pipes. Detects all flammable methane based gases  |  |
| <b>KEY FEATURES</b>   |  |
| <ul style="list-style-type: none"> <li>● Leaks are optically as well as acoustically displayed</li> <li>● With the help of the 42 cm long, flexible testing head and the integrated lamp, even dark and hard to reach places can be tested</li> <li>● Quick and precise leak location of even the smallest leak source: The sensitivity of the unit can be adjusted continuously in a range from &lt; 50 ppm - 1 Vol %</li> <li>● Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site</li> <li>● Optical display of battery status</li> </ul> |  |
| <b>TECHNICAL DATA</b>   |  |
| <b>Detects:</b>   | Natural gas, propane, butane, methane, acetone, alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel, paint thinner, naphtha, toluene |
| <b>Sensitivity:</b>   | < 50 ppm – 1 Vol % (Methan)  |
| <b>Power supply:</b>  | 1 x 9 Volt block battery, type SLM 9 V   |



Finds leaks easily



Set (No. 66080) includes:  
ROTEST® Electronic 3, 9 V battery, plastic carrying case (No. 66085)

|                      |   |              |
|----------------------|---|--------------|
| Model                |  | No.          |
| ROTEST® Electronic 3 | 1.5   | <b>66080</b> |





# Freezing

## Freezing Electric

Pipe Freezing Systems

186 - 188

## Freezing with Gas

Pipe Freezing Systems

189



# Freezing

## Freezing Electric

### ROFROST® TURBO 1.1/4" and 2"

Pipe freezing system for copper, steel and plastic composite pipes

#### Product Profile

##### APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installations

|                      |                |                       |
|----------------------|----------------|-----------------------|
| <b>Copper pipes:</b> | Ø 10 - 42 mm   | ROFROST® TURBO 1.1/4" |
|                      | Ø 10 - 54 mm   | ROFROST® TURBO 2"     |
|                      | Ø 3/8 - 1.3/8" | ROFROST® TURBO 1.1/4" |
|                      | Ø 3/8 - 2.1/8" | ROFROST® TURBO 2"     |
| <b>Steel pipes:</b>  | Ø 1/4 - 1.1/4" | ROFROST® TURBO 1.1/4" |
|                      | Ø 1/4 - 2"     | ROFROST® TURBO 2"     |

Plastic pipes, as well as multi-layered composite pipes

##### KEY FEATURES

Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen

Reduction inserts in various sizes for all common pipe diameters  
With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem

The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water

Simple and flexible use in all situations!



Temperature display easy to read and rotatable

Safe, controlled freezing and monitoring

6



Compact design

Portable use, optimal for service industry

Simple clamping system

For use even in confined spaces

For pipes with Ø 10 mm - 54 mm

Reduction inserts in various sizes







### Space requirements for freezing clamps

#### ROFROST® TURBO 1.1/4"

A<sub>min</sub> = 27 mm  
B<sub>min</sub> = 37 mm

B<sub>min</sub> = 52 mm

A<sub>min</sub> = 13 mm

Use on vertical pipes  
in corners

Use on pipes  
wall fitting / valve

Use on vertical  
pipes on walls



### Space requirements for freezing clamps

#### ROFROST® TURBO 2"

A<sub>min</sub> = 37 mm  
B<sub>min</sub> = 45 mm

A<sub>min</sub> = 57 mm

A<sub>min</sub> = 17 mm

Use on vertical pipes  
in corners

Use on pipes  
wall fitting / valve

Use on vertical  
pipes on walls



Excellent overall size for working  
close to walls or on floors



Can also be used with parallel  
running pipes and in confined  
spaces



Trouble-free use near walls,  
only 52 mm contact surface  
on pipe required



Anti-kink, diffusion proof mono-  
tube system with plastic capillary  
pipes guarantees high flexibility  
and uninterrupted operation



Model



230 Volt  
50/60 Hz

|  |      |              |
|--|------|--------------|
| ROFROST® TURBO 1.1/4" with reduction inserts size I, II, III, V, VII, IX, XII (see ROFROST® reduction insert overview) | 24.8 | <b>62200</b> |
| ROFROST® TURBO 2" with reduction inserts size A, E, F, G (see ROFROST® reduction insert overview)                      | 25.6 | <b>62203</b> |
| ROFROST® TURBO 2" with reduction inserts size II, III, V, VII, A, E, F, G (see ROFROST® reduction insert overview)     | 25.8 | <b>62206</b> |
| Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII   |      | <b>62230</b> |

additional sets upon request

## ROFROST® TURBO Reduction Inserts



### ROFROST® TURBO 1.1/4"

| Reduction insert | Nominal size Cu | Nominal size Cu | Nominal size Fe | g   | No.          |
|------------------|-----------------|-----------------|-----------------|-----|--------------|
| Size I           | 10 mm           | 3/8"            | 1/8"            | 190 | <b>62217</b> |
| Size II          | 12 mm           | 1/2"            | -               | 180 | <b>62211</b> |
| Size III         | 14/15 mm        | -               | 1/4"            | 170 | <b>62212</b> |
| Size IV          | 16 mm           | 5/8"            | -               | 170 | <b>62219</b> |
| Size V           | 18 mm           | -               | 3/8"            | 165 | <b>62213</b> |
| Size VI          | 20 mm           | 3/4"            | -               | 155 | <b>62224</b> |
| Size VII         | 22 mm           | 7/8"            | 1/2"            | 145 | <b>62214</b> |
| Size VIII        | -               | 1"              | -               | 125 | <b>62226</b> |
| Size IX          | 28 mm           | -               | 3/4"            | 110 | <b>62215</b> |
| Size X           | -               | 1.1/8"          | -               | 90  | <b>62227</b> |
| Size XI          | 32 mm           | 1.1/4"          | -               | 80  | <b>62221</b> |
| Size XII         | 35 mm           | 1.3/8"          | 1"              | 65  | <b>62216</b> |

### ROFROST® TURBO 2"

| Reduction insert | Nominal size Cu | Nominal size Cu | Nominal size Fe | g   | No.          |
|------------------|-----------------|-----------------|-----------------|-----|--------------|
| Size A           | 28 mm           | -               | 3/4"            | 190 | <b>62231</b> |
| Size B           | -               | 1.1/8"          | -               | 180 | <b>62232</b> |
| Size C           | 32 mm           | 1.1/4"          | -               | 170 | <b>62233</b> |
| Size D           | 35 mm           | 1.3/8"          | 1"              | 170 | <b>62234</b> |
| Size E           | 42 mm           | -               | 1.1/4"          | 165 | <b>62235</b> |
| Size F           | -               | -               | 1.1/2"          | 155 | <b>62236</b> |
| Size G           | 54 mm           | 2.1/8"          | -               | 145 | <b>62237</b> |

The reduction insert size E, 42 mm serves as an adaptor piece for fitting ROFROST® TURBO 1.1/4" reduction inserts size I – size XII

## ROFROST® Heat Conductive Paste

| Description                           | g   | kg | No.          |
|---------------------------------------|-----|----|--------------|
| ROFROST® Heat Conductive Paste 150 ml | 130 | 1  | <b>62291</b> |

Heat conductive paste enables fully  
automatic freezing without spraying!



No. 62291



# Freezing

## Freezing Electric

### ROFROST® ECO

The compact and refrigerant-free freezing unit for copper, steel and multi-layered composite pipe



Refrigerant-free!



#### Product Profile

##### APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installation

##### KEY FEATURES

- ROFROST® ECO works without refrigerant, no more refrigerant-caused service costs
- Defrost function: Follow-up work can begin quickly
- Extremely handy, light and quiet and weighs only 11 kg
- Quick freezing

##### KEY FEATURES

- Acoustic freeze monitoring
- With the flexible hoses and the simple clamping system even working overhead and in confined spaces are not a problem
- Reduction inserts in various sizes for all common pipe diameters
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water

##### TECHNICAL DATA

- Power requirement:** 700 W
- Voltage:** 90 - 250 V / 50 Hz
- Temperature range:** 0 - 25° C (ambient temperature)
- Copper pipes:** Ø 8 - 22 mm
- Steel pipes:** Ø 1/16 - 1/2"
- Plastic pipe as well as multi-layered composite pipe**

#### Defrost function

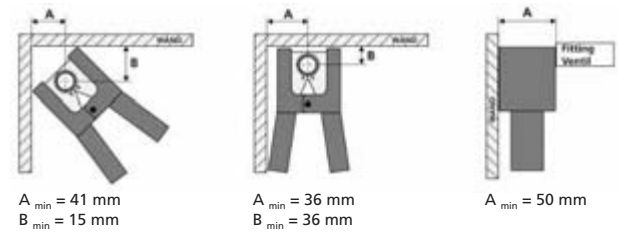
The pipe is defrosted in approx. 1 minute



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#### Space requirements for the ROFROST® ECO freezing clamps



#### Freezing with ROFROST® ECO



Freezing clamps can be use one-handed

Clear control panel with a digital display of the temperature on the freezing clamps



Scope of delivery (No. 1500000089): Basic unit ROFROST® ECO, Reduction inserts size 3, size 5, size 7, Heat conductive paste (No. 62291)

| Model                 | kg   |   | No.        |
|-----------------------|------|---|------------|
| ROFROST® ECO          | 11.0 | 1 | 1500000089 |
| Heat Conductive Paste | 0.13 | 1 | 62291      |

#### ROFROST® ECO Reduction Inserts

| Reduction insert Size | Cu    | Cu   | Fe    | g  | No.        |
|-----------------------|-------|------|-------|----|------------|
| Size 1                | 8 mm  | -    | 1/16" | 70 | 1500000100 |
| Size 2                | 10 mm | 3/8" | 1/8"  | 62 | 1500000101 |
| Size 3                | 12 mm | 1/2" | -     | 52 | 1500000102 |
| Size 4                | 14 mm | -    | -     | 52 | 1500000103 |
| Size 5                | 15 mm | -    | 1/4"  | 48 | 1500000104 |
| Size 6                | 16 mm | 5/8" | -     | 46 | 1500000105 |
| Size 7                | 18 mm | -    | 3/8"  | 42 | 1500000106 |
| Size 8                | 20 mm | 3/4" | -     | 40 | 1500000107 |

### ROFROST® Dry Ice Set

Freezing unit for the freezing of pipes up to 2" without electricity

#### Product Profile

#### APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installation. No electrical connection required!

#### KEY FEATURES

- Flexible use, freezing possible without electricity!
- Because of the low temperature (up to -79° C) the dry ice enables a faster freezing as every other electrical freezing unit that uses refrigerant
- Piping up to 2" can be frozen with just one unit
- Freezer heads made out of extremely cold-resistant special plastic

#### TECHNICAL DATA

**Copper pipes:** Ø 10 mm - 60 mm  
Ø 1/2 - 2.1/8"

**Steel pipes:** Ø 1/8 - 2"

Plastic pipes, as well as plastic composite pipes

19-part set (No. 65030) includes: 2 handles with feed valves (No. 65032), 2 high pressure hoses (No. 65033), 10 pairs of freezer heads (2 for each pipe dimension), stopper for one-sided freezing (No. 65049), wrench (No. 65045), internal hexagonal screwdriver (No. 65046), T-piece (65034), Plastic carrying case (65031)

| for Copper pipes |              | for Steel pipes |        | kg  | No.          |
|------------------|--------------|-----------------|--------|-----|--------------|
| Ø mm             | Ø inch       | Ø inch          | Ø inch |     |              |
| 10 - 60          | 1/2 - 2.1/8" | 1/8 - 2"        |        | 4.9 | <b>65030</b> |

### ROFROST® Freezer Heads

| Size | for Copper pipes |            | for Steel pipes |        | g | No.          |
|------|------------------|------------|-----------------|--------|---|--------------|
|      | Ø mm             | Ø inch     | Ø inch          | Ø inch |   |              |
| 1    | 10 - 12          | 1/2"       | 1/8"            | 60     |   | <b>65035</b> |
| 2    | 14 - 15          | -          | 1/4"            | 60     |   | <b>65036</b> |
| 3    | 16 - 18          | 5/8"       | 3/8"            | 70     |   | <b>65037</b> |
| 4    | 22               | 3/4 - 7/8" | 1/2"            | 70     |   | <b>65038</b> |
| 5    | 28               | 1.1/8"     | 3/4"            | 110    |   | <b>65039</b> |

Set without carbon dioxide bottles!



Use carbon dioxide bottles only with stand pipes



Freezer Heads



| Size | for Copper pipes |        | for Steel pipes |        | g | No.          |
|------|------------------|--------|-----------------|--------|---|--------------|
|      | Ø mm             | Ø inch | Ø inch          | Ø inch |   |              |
| 6    | 35               | 1.3/8" | 1"              | 110    |   | <b>65040</b> |
| 7    | 42               | 1.5/8" | 1.1/4"          | 210    |   | <b>65041</b> |
| 8    | -                | -      | 1.1/2"          | 210    |   | <b>65042</b> |
| 9    | 54               | 2.1/8" | -               | 250    |   | <b>65043</b> |
| 10   | 60               | -      | 2"              | 250    |   | <b>65044</b> |

### ROFROST® Handy

The fast, portable freezing system for copper pipes Ø 15 - 28 mm and steel pipes 1/4 - 3/4"

#### Product Profile

#### APPLICATION AREA

Pipe freezing system is ideally for quick repairs and small expansion tasks

#### KEY FEATURES

- Freezing is possible in the smallest spaces
- Space saving case

10 piece set (No. 64020) includes: Quick Freeze freezing spray (No. 64001), Freezing head 1/4" (No. 64021), Freezing head 3/8" (No. 64022) Freezing head 1/2" (No.64023) Freezing head 3/4" (No. 64024), internal hexagonal screwdriver (No. 65046), Foam inlay (No. 64026), Plastic carrying case without inlay (No. 30898), Inlay for plastic carrying case (No. 62045), ROTHENBERGER fleece cloth (No. 93915)



| Model                       | g     | No.          |
|-----------------------------|-------|--------------|
| ROFROST® Handy              | 2,400 | <b>64020</b> |
| Quick Freeze Freezing Spray | 500   | <b>64001</b> |







# Inspection & Locating

|   |                  |
|---|------------------|
| <b>System Overview Video Inspection</b>       | <b>192 - 193</b> |
| <b>Video Inspection</b>                       |                  |
| ROSCOPE® 1000 Overview                        | 194 - 195        |
| Inspection Module for ROSCOPE® 1000           | 196 - 197        |
| Locating Module for ROSCOPE® 1000             | 198 - 199        |
| ROCAM® Pipe Inspection Camera                 | 200 - 203        |
| Accessories for ROCAM® Pipe Inspection Camera | 204 - 205        |



# Inspection & Locating

## System Overview Video Inspection

### ROSCOPE® 1000

Modular system for inspecting pipes and hollow spaces

#### KEY FEATURES

- Photos and videos can be easily stored on the SD card
- Various modules for different pipe dimensions and cable lengths
- Camera head and base unit are waterproof in accordance with IP 68 / 65
- Module TEC 1000 and Module Pipe 25/16 have self-leveling pictures
- Module ROLOC PLUS for precise locating of the camera head
- Headset connection for adding audio commentary to the inspection



## Which ROSCOPE® system for which application area?



**1** **Module TEC 1000**  
Cable length / range: 0.9 m  
Working range: hollow spaces  
Page 196



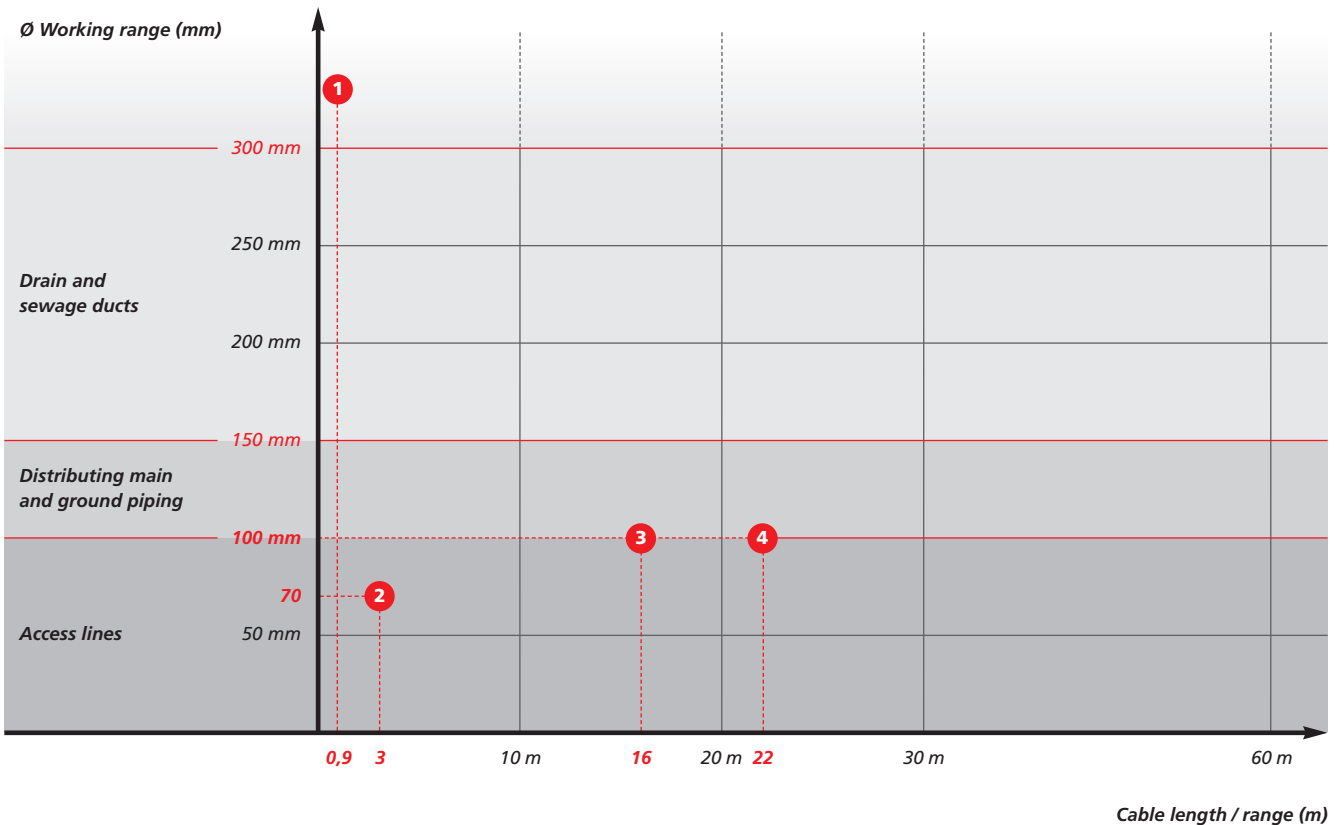
**2** **Module Pipe 20/3**  
Cable length / range: 3 m  
Working range: up to Ø 70 mm



**3** **Module Pipe 25/16**  
Cable length / range: 16 m  
Working range: up to Ø 100 mm  
Page 197



**4** **Module Pipe 25/22**  
Cable length / range: 22m  
Working range: up to Ø 100 mm  
Page 196





## ROCAM®

Camera for the inspection of pipes

### KEY FEATURES

- Professional documentation with the logging software and data recording
- Self-leveling picture
- Recording of videos and photos
- Can be used immediately, no mounting of the reel is necessary
- Fits various pipe diameters
- ROCAM® 3 Multimedia with an integrated transmitter for the precise locating of the camera head



## Which ROCAM® for which application area?



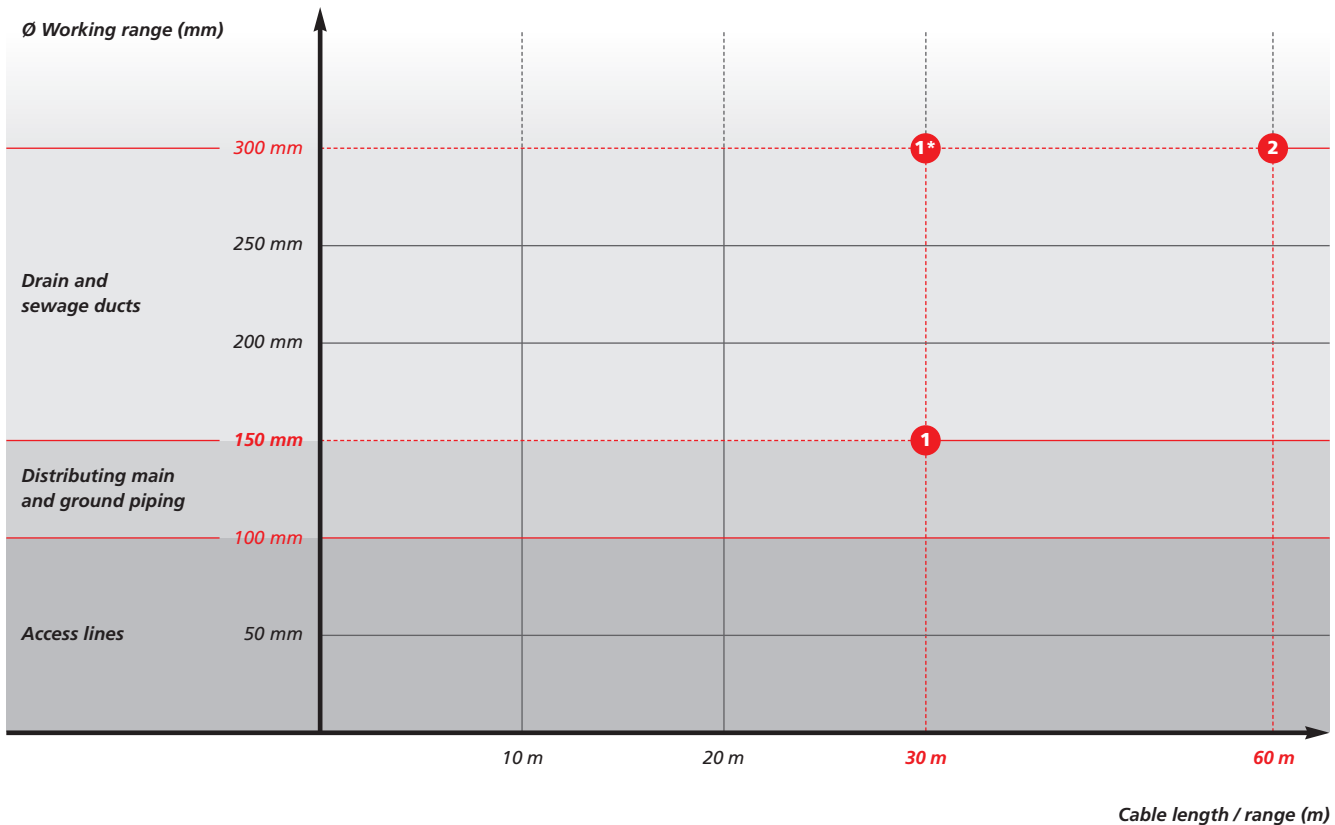
- 1** **ROCAM® 3 Multimedia**  
Cable length / range: 30 m  
Working range: up to Ø 150 mm  
(\*Can be optionally used with the SL-40 camera head up to Ø 300 mm)  
Page 200



- 2** **ROCAM® Plus**  
Cable length / range: 60 m  
Working range: up to Ø 300 mm  
Page 202



ROCAM® 3 Multimedia with removable control unit

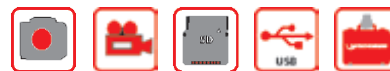


# Inspection & Locating

## Video Inspection

### ROSCOPE® 1000

The MULTIFUNCTION technology unites inspection technology and locating technology in one unit



#### Product Profile

##### APPLICATION AREA

The ROSCOPE® 1000 System covers almost all inspection techniques within living and working spaces. The ROSCOPE® 1000 can also be used with the ROLOC PLUS module for locating piping and camera head systems

##### KEY FEATURES

- The ROSCOPE® system is very handy and highly versatile
- Numerous inspections can be documented professionally and with multimedia

##### TECHNICAL DATA

**Display:** 3.5" TFT-LCD colour display  
**Video format:** AVI  
**Picture format:** JPEG, 720 x 480 pixels  
**Connection:** Mini-USB, AV-Out, SD-card slot, headset plug  
**Power supply:** Li-ion battery 3.7 V / 4.2 Ah

### Versatile and user-friendly!

#### 3.5" TFT-LCD colour display

720 x 480 pixel resolution (JPEG)

#### Ergonomically arranged function keys

Single handed use without problem

#### Slip-free, ergonomical handle

For comfortable and effort saving operation - even over long periods of time

#### Protection against splash water as per IP 65

For safe use in wet surroundings

#### 5-pin connection

Previous ROTHENBERGER modules can be used

#### Can be switched to black and white

Improves contrast by difficult lighting conditions

#### SD-card slot

Even more storage space for your recordings

#### Headset connection

Personal, explanatory audio commentary can be added

#### Powerful Li-ion battery

For an extra long battery life of 3-5 hours



#### Accessories



| Model          |   | No.   |
|----------------|---|-------|
| Headset        | 1 | 69616 |
| Li-ion battery | 1 | 69618 |
| Charger        | 1 | 69619 |

### For Inspection: MULTIVIEW

Modular concept for visual inspection of pipes, hollow spaces and pipes

#### KEY FEATURES

5 different modules for the ROSCOPE® 1000 base unit

- With the Module Micro 5.5/1 you have access to the tightest spaces, for example in engine compartments
- Hollow space inspection with self-leveling picture with the Module TEC 1000
- Inspection of pipes up to  $\varnothing$  100 with Module Pipe 25/16 or 25/22
- Waterproof pipe module for pipe inspection in 90° bends from  $\varnothing$  40

### Hollow spaces

Module Micro 5.5/1



Module TEC 1000



### Pipes

Module TEC 1000 (extended)



Module Pipe 20/3



Module Pipe 25/16



Module Pipe 25/22



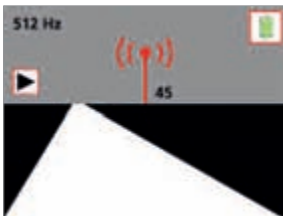
### For Locating: ROLOC PLUS

Positioning module for sondes and pipelines

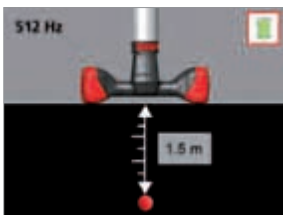
#### KEY FEATURES

- The unit guides through the locating process reliably
- Minimises the effort needed for evacuations or locating damaged areas on the pipe with pin-point locating of the camera head
- Pin-point locating of the specific location with the depth measurement function

Target is right of the running direction. Correction of your direction to the right is necessary



Camera head is 1.5 m deep





# Inspection & Locating

## Video Inspection

Self-leveling camera head



No. 69615

Inspection of hollow spaces



Camera head with high-performance LEDs



### ROSCOPE® 1000 Set TEC 1000

High-performance camera for the inspection of hollow spaces and hard to reach areas

#### Product Profile

##### KEY FEATURES

- Self-leveling camera head
- Waterproof camera head as per IP 68
- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extension of the goose neck up to a maximum of 9 m

##### TECHNICAL DATA

|                      |   |
|----------------------|---|
| <b>Display:</b>      | 3.5" TFT LCD colour display (technical data about basic unit available on page 194) |
| <b>Camera head:</b>  | Ø 17 mm, <b>self-leveling</b> and waterproof, with 4 LED lights                     |
| <b>Brightness:</b>   | 100 LUX (0.5 m)   |
| <b>Cable length:</b> | 0.9 m   |
| <b>Power supply:</b> | Li-ion battery 3.7 V / 4.2 Ah   |
| <b>Weight:</b>       | 0.9 kg  |

Scope of delivery ROSCOPE® 1000 set TEC 1000 (No. 69600): ROSCOPE® 1000 basic unit, Module TEC 1000, battery, charger, plastic carrying case

| Model                      |   | No.               |
|----------------------------|---|-------------------|
| ROSCOPE® 1000 Set TEC 1000 | 1 | <b>69600</b>      |
| Module TEC 1000            | 1 | <b>69601</b>      |
| Extension TEC 1.8 m        | 1 | <b>1500000010</b> |
| Set (hook, magnet, mirror) | 1 | <b>69615</b>      |
| Module Pipe 20/3           | 1 | <b>69385</b>      |
| Module Micro 5.5/1         | 1 | <b>69376</b>      |

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**22 m long cable!**



Inspection of rain downpipes



Inspection of rain drainage pipes



### ROSCOPE® 1000 Set Pipe 25/22

High-performance camera for the inspection of pipes from Ø 40 up to 100 mm. With the Module TEC 1000

#### Product Profile

##### KEY FEATURES

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 40 mm

##### TECHNICAL DATA

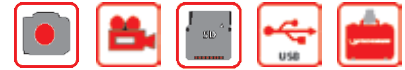
|                        |   |
|------------------------|---|
| <b>Display:</b>        | 3.5" TFT LCD colour display (technical data about basic unit available on page 194) |
| <b>Camera head:</b>    | Ø 25 mm, waterproof, with 8 LED lights  |
| <b>Brightness:</b>     | 100 LUX (0.5 m)   |
| <b>Cable length:</b>   | 22 m  |
| <b>Cable diameter:</b> | 5.5 mm  |
| <b>Power supply:</b>   | Li-ion battery 3.7 V / 4.2 Ah   |
| <b>Weight:</b>         | 3.1 kg  |

Scope of delivery ROSCOPE® 1000 set Pipe 25/22 (No. 1000000009): ROSCOPE® 1000 basic unit, Module Pipe 25/22, Module TEC 1000, battery, charger, plastic carrying case

| Model                                      |   | No.               |
|--|---|-------------------|
| ROSCOPE® 1000 Set Pipe 25/22 + Module TEC  | 1 | <b>1000000009</b> |
| Module Pipe 25/22                          | 1 | <b>69603</b>      |
| Guide skid for Module Pipe 25/16 and 25/22 | 1 | <b>74629</b>      |

### ROSCOPE® 1000 Set Pipe 25/16

High-performance camera for the inspection of pipes from Ø 40 up to 100 mm. With an integrated transmitter for the precise locating of the camera head. With Module TEC 1000



#### Product Profile

##### KEY FEATURES

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 40 mm
- Can be used with guide skid up to Ø 100 mm
- Self-leveling picture
- Integrated transmitter for the precise locating of the camera head
- ROSCOPE® 1000 basic unit can also be used as control unit for the ROLOC PLUS locating module

##### TECHNICAL DATA

|                        |   |
|------------------------|---|
| <b>Display:</b>        | 3.5" TFT LCD colour display (technical data about basic unit available on page 194) |
| <b>Camera head:</b>    | Ø 25 mm, <b>self-leveling</b> and waterproof, with 4 extra bright LED lights        |
| <b>Brightness:</b>     | 125 LUX (0.5 m)   |
| <b>Cable length:</b>   | 16 m  |
| <b>Cable diameter:</b> | 8.5 mm  |
| <b>Frequency:</b>      | 512 Hz  |
| <b>Power supply:</b>   | Li-ion battery 3.7 V / 4.2 Ah, 2 AA batteries (transmitter)                         |
| <b>Weight:</b>         | 3.9 kg  |

#### Switch to black and white

Improves the contrast by difficult lighting conditions

**Simple locating of the camera head with the integrated transmitter!**

#### Battery compartment

For the power supply of the integrated transmitter (2 AA batteries included in delivery)

#### Rubberized base

Stable stand without slipping and damaging the surface

#### Inspection from floor drains



#### Inspection of rain drainpipes



#### Integrated transmitter

For the precise locating of the camera head



#### Self-leveling camera head

Picture is always upright, no loss of orientation



#### Guide skid for Module Pipe 25/16 and 25/22

For centring of the camera head, better illumination of the pipe



No. 74629

Scope of delivery ROSCOPE® 1000 Set Pipe 25/16 (No. 1000000064): ROSCOPE® 1000 basic unit, Module Pipe 25/16, Module TEC 1000, battery, charger, plastic carrying case

| Model                                      |   | No.               |
|--|---|-------------------|
| ROSCOPE® 1000 Set Pipe 25/16 + Module TEC  | 1 | <b>1000000064</b> |
| Module Pipe 25/16                          | 1 | <b>1500000052</b> |
| Guide skid for Module Pipe 25/16 and 25/22 | 1 | <b>74629</b>      |

# Inspection & Locating

## Video Inspection

### ROSCOPE® 1000 Set ROLOC PLUS

Easy to use pipe and sonde locating device. Available as a complete unit, as well as locating module for the ROSCOPE® 1000 base unit

#### Product Profile

##### KEY FEATURES

- Pin-point location of the sonde
- Precise depth measurement
- Different frequencies can be chosen
- Simple and clear menu design guides step-by-step through the locating process
- Telescopic function makes transporting in case easier

##### TECHNICAL DATA

|                      |   |
|----------------------|---|
| <b>Display:</b>      | 3.5" TFT LCD colour display (technical data about basic unit available on page 194) |
| <b>Frequencies:</b>  | 512 and 650 Hz, 33 kHz active, 50/60 Hz passive                                     |
| <b>Power supply:</b> | Li-ion battery 3.7 V / 4.2 Ah   |
| <b>Dimensions:</b>   | 95 x 32 x 30 cm (operating mode)<br>67 x 32 x 9 (transportation mode)               |
| <b>Weight:</b>       | 1.4 kg  |

### Included in set: Module TEC 1000

Formable camera module for the ROSCOPE® 1000 basic unit for the inspection from hollow spaces and hard to reach areas

##### TECHNICAL DATA

|                      |  |
|----------------------|--|
| <b>Camera head:</b>  | Ø 17 mm <b>self-leveling</b> and waterproof, with 4 LED lights |
| <b>Brightness:</b>   | 100 LUX (0.5 m)  |
| <b>Cable length:</b> | 0.9 m  |



**Locating module is included with the ROSCOPE® 1000 basic unit!**

#### Simple menu guidance

Guides step-by-step to targeted position



#### Multi-frequencies

Locating of the most common camera heads

#### Telescopic function

For easier transport in case

#### Depth measurement

Pin-point location of the transmitter position

Scope of delivery ROSCOPE® 1000 Set ROLOC PLUS (No. 1000000065): ROSCOPE® 1000 basic unit, Module ROLOC PLUS; Module TEC 1000, battery, charger, plastic carrying case

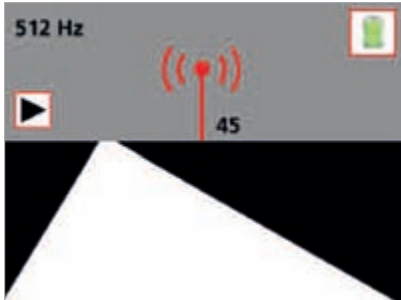
| Model  |   | No.               |
|--|---|-------------------|
| ROSCOPE® 1000 Set ROLOC PLUS + Module TEC 1000 | 1 | <b>1000000065</b> |
| Module ROLOC PLUS                              | 1 | <b>1500000057</b> |



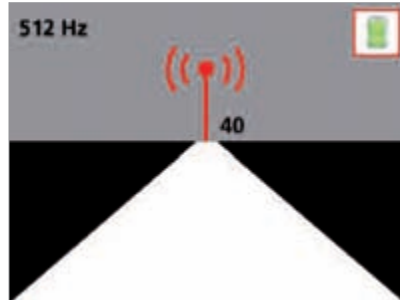
### Self explanatory and simple:

- The 3.5" colour display shows the direction of the transmitter
- The highest peak of the signal strength shows the position of the transmitter
- With a push of a button the depth of the camera head is displayed

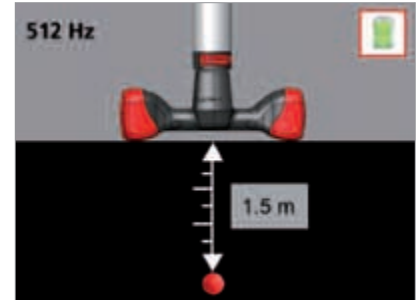
Target is right of the running direction. Correction of your direction to the right is necessary



Target is in the running direction. No correction is necessary



Depth measurement with a push of the button



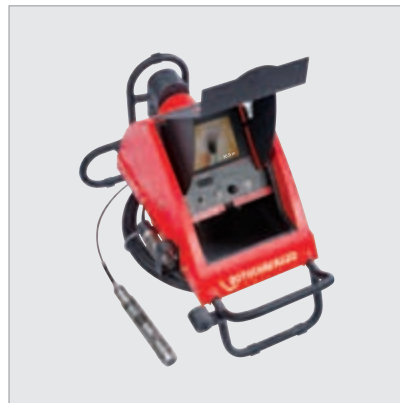
### Positioning of camera heads:

- Module ROLOC PLUS is adjustable to different frequencies and thereby compatible with the most common camera heads
- Even sondes from other suppliers can be located (manufacturer independent)

512 Hz: ROSCOPE® 1000  
Set Pipe 25/16



640 Hz: ROCAM® mobile



33 kHz: ROCAM® 3 Multimedia



33 kHz: ROCAM® Plus



# Inspection & Locating

## Video Inspection

### ROCAM® 3 Multimedia

Inspection camera for pipes from Ø 50 up to 150 mm and/or from Ø 150 up to 300 mm. With integrated transmitter for the precise locating of the camera head

#### Product Profile

##### KEY FEATURES

- Removable monitor unit for working in confined spaces
- Recording of photos and videos
- Logging software
- Data recording with the keyboard
- Audio commentary of the inspection is possible
- 4x zoom function
- Precise determination of the camera head distance with the digital meter counter fade-in on display

##### TECHNICAL DATA

|                        |   |
|------------------------|---|
| <b>Display:</b>        | 10.4" TFT LCD colour display, removable   |
| <b>Camera head:</b>    | Ø 30 mm (standard) with 25 LED lights, Ø 40 mm (optional) with 36 LED lights, <b>self-leveling</b> and waterproof |
| <b>Brightness:</b>     | 175 LUX (0.5 m), camera head Ø 30 mm<br>666 LUX (0.5 m), camera head Ø 40 mm                                      |
| <b>Cable length:</b>   | 30 m  |
| <b>Cable diameter:</b> | 7 mm  |
| <b>Power supply:</b>   | NiMH battery 12 V / 6 Ah  |
| <b>Weight:</b>         | 13 kg   |

**Simple locating of the camera head with the integrated transmitter!**

**Removable control unit with 10.4" TFT LCD colour display**

Simple use in hard to reach places

**Recording of photos and videos**

Simple documentation of the inspection on a USB stick

**Digital meter count fade-in**

Precise determination of the camera head distance

**Protection against splash water (IP65)**

For use in wet, dirty surroundings and easy, fast cleaning

**Strong push cable Ø 7 mm, 30 m long**

Precise and reliable camera guidance in pipe and duct



**Integrated transmitter**

For the precise locating of the camera head

**Mechanical self-leveling of the picture**

Picture is always upright, no loss of orientation

**Exchangeable head system**

Universal connection for attaching various camera heads

Model

No.

ROCAM® 3 Multimedia

1500000118

**With large 10.4" colour display!**

### Removable control unit

Makes working in tight spaces easier

- The camera base does not need to be near the user since all of the control elements such as recording, playback or LED regulation are integrated in the compact control unit
- Photos and videos of the inspection can be saved on the USB stick and immediately played back with just a push of a button
- The 10.4" TFT LCD colour display offers optimum conditions for a quick and simple analysis of the observations

ROCAM® 3 Multimedia with removable control unit



Keypad of the control unit



Locating of the integrated camera head with Module ROLOC PLUS



**With exchangeable head system!**

### Product Profile

#### KEY FEATURES

- Exchangeable head system: Universal connection for attaching various camera heads
- The mechanical, **self-leveling** picture enables a quick adjustment of the picture in comparison to digital technology
- Optional Ø 40 mm camera head for large pipe diameters



Mechanical leveling of the picture



| Model               | No.        |
|---------------------|------------|
| Camera head Ø 30 mm | 1500000123 |
| Camera head Ø 40 mm | 1500000122 |

**Logging software included!**

### Logging software

- Simple creation of a log during the inspection and as a supplement to photos and videos
- Listing of observations, including automatic transfer of the meter count
- Preloaded terms for a saved damage catalogue for uniform logging



# Inspection & Locating

## Video Inspection

### ROCAM® Plus

Inspection camera with battery and mains operation for pipes from Ø 25 up to 300 mm



#### Product Profile

##### APPLICATION AREA

Camera system for cost-effective inspection and damage analysis over long distances with self-leveling camera head and optional data archiving per ATV

##### KEY FEATURES

- Powerful, self-leveling camera head
- Precise and reliable guidance of the camera in pipe and drains
- Curve flexibility 90° starting from 40 mm with the Mini Module 1.4 (as standard included)
- Conserves battery: saves energy with the automatic shut-off
- Mobile and battery operation up to 2.5 hours, 12 V adaptor with on-board charger
- Precise determination of the camera head distance with the digital meter count fade-in on display
- Excellent contrast and sharp, continuously adjustable light intensity of the diodes

##### KEY FEATURES

- For the documentation of the inspection on video
- Direct data exchange with laptop / PC, etc., possible

##### TECHNICAL DATA

|                        |  |
|------------------------|--|
| <b>Display:</b>        | 5.6" TFT LCD colour display  |
| <b>Camera head:</b>    | Ø 40 mm, <b>self-leveling</b> and waterproof, with 35 LED lights                   |
| <b>Brightness:</b>     | 666 LUX (0.5 m)  |
| <b>Cable length:</b>   | 60 or 100 m  |
| <b>Cable diameter:</b> | 7.5 mm   |
| <b>Frequency:</b>      | 33 kHz (optional)  |
| <b>Power supply:</b>   | NiMH battery 12 V / 3 Ah or Mains operation 100-240 V / 50-60 Hz starting at 20 kg |
| <b>Weight:</b>         |  |

7



#### Duo-Power

Portable and mobile operation up to 2.5 hours. 12 V adaptor for on-board charger

#### Automatic shut-off when the hub is closed

Conserves battery and saves energy

#### Mini Module 1.4, 5 m long

Curve flexibility 90° starting from Ø 40 mm

#### Strong push cable 60 or 100 m long

Precise and reliable guidance of the camera in pipe and drains, even over long distances

#### Self-leveling camera head

Picture is always upright, no loss of orientation

#### TFT LCD colour display

Excellent contrast and sharpness

#### Digital meter count fade-in

Precise determination of the camera head distance

#### Video In / Video Out

For the documentation of the inspection on video. On laptop / PC with accessory No. 1000000082

#### COM port / RS232

Direct data exchange with laptop / PC, etc., possible



### Pivoting Rotor Head

Steerable camera head for the inspection of pipes from Ø 100 up to 400 mm

#### Product Profile

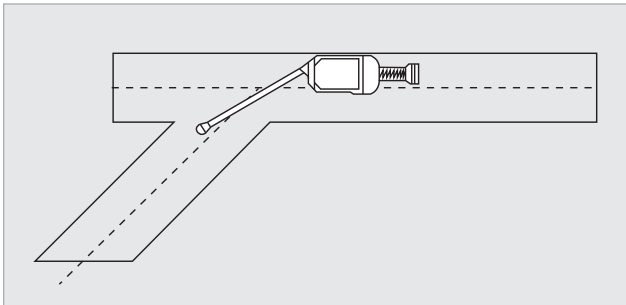
#### APPLICATION AREA

Camera head for the inspection of private drainage systems with pivoting rotor head function as per DIN EN 1610

#### KEY FEATURES

- With the rotation and pivot function it is optimal for the visual inspection of pipe connections
- Simply look in pipe branches
- Effortless inspection of individual details
- Bending rod (optional) enables branches to be navigated

Functional principle of the bending rod



**DIN EN 1610 capable!**



Optimal overview with 360° rotatable and 270° pivotal area



| Model                               | No.        |
|-------------------------------------|------------|
| Pivoting rotor head for ROCAM® Plus | 1500000242 |
| Bending rod for pivoting rotor head | 1500000243 |

\*69740 und 69840

| Model                          | Ausführung   | kg |   | No.   |
|--------------------------------|--|----|---|-------|
| ROCAM® Plus with meter counter | 60 m cable length  | 20 | 1 | 69725 |
| ROCAM® Plus with meter counter | 60 m cable length, with PC keyboard and professional drain software  | 21 | 1 | 69740 |
| ROCAM® Plus with meter counter | 100 m cable length   | 25 | 1 | 69825 |
| ROCAM® Plus with meter counter | 100 m cable length, with PC keyboard and professional drain software | 26 | 1 | 69840 |

Accessories see 204 – 205

ROCAM® Plus in use



Mini Module 1.4 for the inspection of the smallest pipes



Professional drain software in accordance with ATV



Functional principle of the camera head



Inspection of a rainfall drains



### ROCAM® Camera Heads

Camera heads made of high-quality materials for professional inspection of pipes from Ø 70 up to 300 mm

#### Product Profile

##### KEY FEATURES

###### Excellent brightness:

- The ROCAM® camera head Ø 30 mm has over 25 ultra bright LED lights, that effortlessly illuminate pipes up to Ø 150
- The camera head can be mounted with a Ø 40 mm camera head for larger pipe diameters

###### Pressure tight screw slip-ring connection:

- Pressure tight connection (3 bar) between camera head and push cable
- High resistance to shock and impact
- Quick and tool-less exchange of the camera heads
- No burden from electrical connections

###### High flexibility and resistant:

- Flexible spring provides 90° curveability in pipes up to Ø 70 mm when enough stability is provided
- Pressure tight up to 3 bar with the stainless steel casing
- Scratch and impact resistant with the sapphire glass objective

##### KEY FEATURES

###### Mountable transmitter:

- Optional 33 kHz transmitter can be used to determine the length of the camera head (90° from Ø 70)
- In small pipe diameters the transmitter can also be used without the camera head to determine the course of the pipe without a visual inspection

##### TECHNICAL DATA

|                     |   |
|---------------------|---|
| <b>Camera head:</b> | Ø 30 mm (standard) with 25 LED lights<br>Ø 40 mm (optional) with 36 LED lights<br><b>self-leveling</b> and waterproof |
| <b>Brightness:</b>  | 175 LUX (0.5 m), camera head Ø 30 mm<br>666 LUX (0.5 m), camera head Ø 40 mm  |

Always an upright picture!

#### Sapphire glass

Scratch and impact resistant for a long service life and professional use

#### Screw slip-ring connection

Pressure tight, durable connection without the burden of an electrical circuit

#### Stainless steel casing

Robust, durable and pressure tight (3 bar)

#### Flexible spring

90° curveability in pipes starting from Ø 70 mm

#### High-performance LED lights

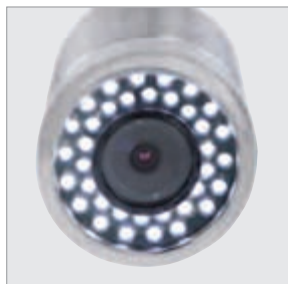
High-performance LED lights for pipes up to Ø 300 mm

#### Model

#### No.

|                     |            |
|---------------------|------------|
| Camera head Ø 30 mm | 1500000123 |
| Camera head Ø 40 mm | 1500000122 |

Excellent illumination



Pressure tight screw slip-ring connection



High flexibility and durability



Mountable transmitter





**Rolling Skids**

Recommended for distances from 30 m

**APPLICATION AREA**

Rolling skids RS40/150 for pipe diameters Ø 150 - 200 mm  
Rolling skids RS40/200 for pipe diameters Ø 200 - 300 mm

**KEY FEATURES**

- Optimized view of the pipe section
- Less pushing resistance with the fully rubberized wheels



No. 69118

No. 69119

| Model                     |     |   | No.          |
|---------------------------|-----|---|--------------|
| For camera heads Ø 40 mm: |     |   |              |
| Rolling skids RS40/150    | 700 | 1 | <b>69118</b> |
| Rolling skids RS40/200    | 700 | 1 | <b>69119</b> |

**Brush Attachments**

To improve the overview in pipes from Ø 100 – 200 mm

**APPLICATION AREA**

Brush attachment Ø 100 for use in pipe 100 - 150 mm  
Brush attachment Ø 150 for use in pipe 150 - 200 mm

**KEY FEATURES**

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens
- Good curveability with the brush flexibility



Brush attachment spiral feather (rear)  
No. 69113

Brush attachment camera head (front)  
No. 69117

\*Use with guidance skid No. 69112

| Model                   |     |   | No.          |
|-------------------------|-----|---|--------------|
| Brush attachment Ø 100* | 200 | 1 | <b>69113</b> |
| Brush attachment Ø 150* | 300 | 1 | <b>69117</b> |

**Rolling Skids ROCAM® 3 Multimedia and ROCAM® Plus**

For centring of the camera head in pipes for a better overview and illumination

**APPLICATION AREA**

Guide skid for pipe diameters Ø 70 - 150 mm  
Guide skid with brush attachment for pipe diameters Ø 70 - 200 mm

**KEY FEATURES**

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens



No. 69112



No. 1500000120 / 69111

| Model                               |     |   | No.               |
|-------------------------------------|-----|---|-------------------|
| For camera head Ø 30 mm:            |     |   |                   |
| Guidance skid for Ø 150 mm          | 200 | 1 | <b>1500000120</b> |
| For camera head Ø 40 mm:            |     |   |                   |
| Guidance skid for Ø 70 mm           | 200 | 1 | <b>69111</b>      |
| Guidance skid for Ø 70 mm, extended | 200 | 1 | <b>69112</b>      |

**Battery and Charger ROCAM® 3 Multimedia and ROCAM® Plus**

**KEY FEATURES**

- Extend the mobile operation spare battery
- No unintentional release of the battery, battery lock with click mechanism
- External battery charger, independent charging of the battery, higher mobility

**TECHNICAL DATA**

**Battery:** 12 V / 3 or 6 Ah NiMH  
**Running time:** up to 2.5 hours  
**Charger / charging time:** 12 V / 1-1.5 Std.



No. 69550



No. 69555

| Model                                |     |   | No.               |
|--------------------------------------|-----|---|-------------------|
| ROCAM® Plus NiMH battery 12 V / 3 Ah | 800 | 1 | <b>69550</b>      |
| ROCAM® Plus charger 12 V             | 750 | 1 | <b>69555</b>      |
| ROCAM® 3 M. NiMH battery 12 V / 6 Ah | 800 | 1 | <b>1500000121</b> |



ROTHENBERGER  
R600



# Flushing & Pipe Cleaning

## Flushing

|                     |     |
|---------------------|-----|
| Flushing Compressor | 208 |
| Cleaning Chemicals  | 209 |

## Decalcifying

|                        |     |
|------------------------|-----|
| Decalcifying Pumps     | 210 |
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## Pipe Cleaning Manual

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## Pipe Cleaning Electric

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| Pipe and Drain Cleaning Machines       | 215       |
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## Pipe Cleaning Spirals

|         |           |
|---------|-----------|
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## Drain Cleaning Tools

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## High Pressure Drain Cleaning

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|---|-----------|
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| High Pressure Cleaning Units            | 237 - 240 |
| Accessories High Pressure Pipe Cleaning | 241 - 243 |

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# Flushing & Pipe Cleaning

## Flushing

### ROPULS Flushing Compressor

For scouring and cleaning of heating systems and flushing of drinking water pipes according to DIN 188-2



#### Product Profile

##### KEY FEATURES

- One Unit - three uses for safety and energy efficient:  
Flushing of floor heating systems / heating circuits  
Flushing of drinking water pipes as per DIN 1988-2  
Sanitizing of drinking water pipes
- Compact dimensions and practical carriage for simple handling during transport and at the building site
- Two flushing speeds (impulse and long-term flushing) for good cleaning results
- Simple to use with the clearly arranged control panel

##### TECHNICAL DATA

|                                 |                    |
|---------------------------------|--------------------|
| <b>Pipe connection:</b>         | R 1" GK coupling   |
| <b>Max. pipe diameter:</b>      | DN 65 / 2"         |
| <b>Max. flow rate:</b>          | 5 m / h            |
| <b>Max. water pressure:</b>     | 7 bar              |
| <b>Max. water temperature:</b>  | 30° C              |
| <b>Safety class:</b>            | IP 22              |
| <b>Oil deposition rate:</b>     | 99.9%              |
| <b>Particle retention rate:</b> | 0,3 µm compressor  |
| <b>Max. operating pressure:</b> | 8 bar              |
| <b>Motor rating:</b>            | 1.1 kW             |
| <b>Power supply:</b>            | 230 V - 50 / 60 Hz |
| <b>Dimensions (H x W x D):</b>  | 630 x 380 x 340 mm |

Large LED display for flow rate amounts and metering impulse, membrane keyboard with program selection keys

Clearly arranged control panel

**Chemical cleaning possible with ROCLEAN attachment!**



For removing deposits in floor heating and radiators

Clean heating systems save energy

Loosening and flushing of construction material before the initial start up

Clean, perfect hygienic pipe systems for the field of drinking water

Flushing of drinking water pipes with pulsing compressed air water mix as per DIN 1988-2

Safety for plumbers and plant operators

Compressor is also for tools run on compressed air

Absolutely oil and water free air supply

Quick connect NW 7.2

For connecting pneumatic tools

Function switch

Enables you to change ROCLEAN functions easily

**Ideal for removing deposits from floor heating!**

Scope of delivery (No. 1000000145) ROPULS flushing compressor, 2 x 1 m fabric hose 1" with GK coupling

| Description                           | kg | No.        |
|---------------------------------------|----|------------|
| ROPULS flushing compressor with hoses | 28 | 1000000145 |

### ROPULS ROCLEAN

On the water access side of the ROPULS flush compressor is a pressure regulator. This holds the pressure of the fresh water supply at a constant 2 bar and guarantees a constant metered dose. The ROCLEAN injector is attached to the water exit side. The injector constantly meters the bottle contents and safeguards the system being clean

ROCLEAN injector with compressed air hose



Pressure regulator 2 bar



### Cleaning and Preservation with ROPULS ROCLEAN

#### Cleaning chemicals for radiator heating systems



For cleaning incrustations and tough deposits. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



#### Cleaning chemicals for surface heating systems



For cleaning of deposits and bio films. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



#### Preservative for radiators and surface heating systems



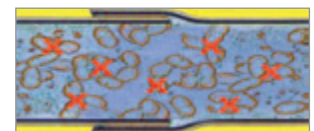
Maintains the cleaned condition and protects the system. One bottle is sufficient for 100 l system volume.



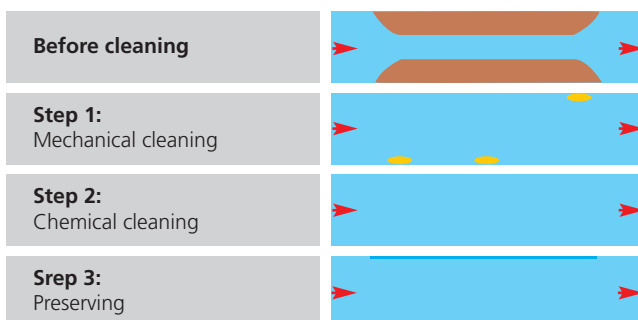
#### Disinfection of drinking water systems



Does not stay in system. One bottle per 100 l system volume.



#### Cleaning and preservation steps:



| Bezeichnung                | Farbcode |     |   | No.              |
|----------------------------|----------|-----|---|------------------|
| ROCLEAN injector           |          | 1,1 | 1 | <b>100000190</b> |
| Pressure regulator 2 bar   |          | 0,3 | 1 | <b>150000203</b> |
| <b>Chemical cleaning:</b>  |          |     |   |                  |
| – Radiator heating systems | ●        | 6,3 | 6 | <b>150000200</b> |
| – Surface heating systems  | ●        | 6,3 | 6 | <b>150000201</b> |
| Preservative               | ●        | 6,3 | 6 | <b>150000202</b> |
| Disinfection               | ●        | 6,3 | 6 | <b>150000157</b> |



# Flushing & Pipe Cleaning

## Decalcifying

### ROCAL 20 / ROMATIC 20

Decalcifying pump with flow direction change



#### Product Profile

##### RANGE OF USE

For the quick decalcifying of heat exchangers, water pipes, water tanks, heat and cooling systems

##### KEY FEATURES

- With the help of the flow reversal (change of the direction of flow) even very hard calcifications and deposits can be loosened
- Only ROMATIC: Running time of the pump and flow reversal can be programmed, which enables comfortable operation
- Approved for fluid temperatures up to 50° C for especially efficient decalcifying
- Constant circulation of the decalcifying chemical prevents damage that can be caused by the development of gas during decalcification

#### TECHNICAL DATA

|                  |                  |
|------------------|------------------|
| Connection:      | R 1/2"           |
| Tank volume:     | 15 l             |
| Power supply:    | 230 V 50 / 60 Hz |
| Motor rating:    | 150 Watt         |
| Volume flow:     | 40 l / min.      |
| Delivery height: | 10 m             |



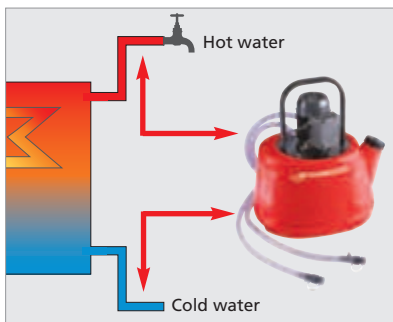
Automatic flow reversal!

Fig. ROCAL 20

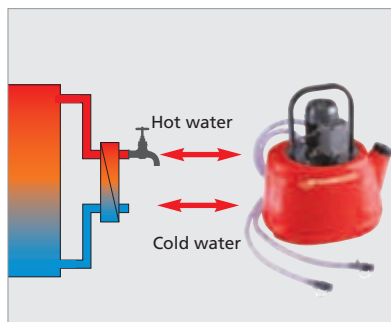


Fig. ROMATIC 20

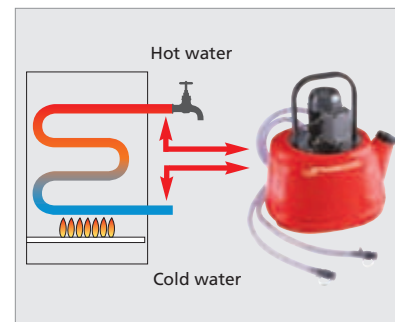
Decalcifying of drinking water storage tanks



Decalcifying of fresh water stations and external heat exchangers



Decalcifying of heat exchangers, water heaters or drinking water pipes



Scope of delivery: ROCAL 20 (No.61190) and ROMATIC 20 (No. 61100) each contain: 2x hoses with 1/2" connection (1G, 2 m long), 2 x double nipple 1/2-3/8", 2 x double nipple 1/2-3/4, 2 x double nipple 1/2-1/2", 2 x double socket 3/4-3/4", 2 x reduction piece 1/2-3/4"

| Description | kg |   | No.   |
|-------------|----|---|-------|
| ROCAL 20    | 6  | 1 | 61100 |
| ROMATIC 20  | 6  | 1 | 61190 |



### ROCAL Acid Multi / Plus

Decalcifying chemical for use with ROCAL 20, ROMATIC 20

#### Product Profile

##### RANGE OF USE

##### ROCAL Acid Multi

For the safe decalcification of all piping systems, heat exchangers, fresh water stations and water tanks

##### ROCAL Acid Plus

For strong calcifications and scale build-up. Only suitable for technical systems. Not suitable for drinking water pipes.

##### KEY FEATURES

- With colour indication. The use of the chemical effects is shown by the change of the fluid colour
- Concentrate to mix with water
- With corrosion protection



No. 1500000115

No. 1500000116

No. 1500000117



No. 61105

No. 61106

No. 61110

|                 | ROCAL Acid Multi | ROCAL Acid Plus |
|-----------------|------------------|-----------------|
| Copper          | ●                | ●               |
| Steel           | ●                | ●               |
| Stainless steel | ●                | -               |

● suitable - unsuitable

|           | ROCAL Acid Multi | ROCAL Acid Plus |
|-----------|------------------|-----------------|
| Aluminium | ●                | -               |
| Brase     | ●                | -               |
| Plastic   | ●                | -               |

● suitable - unsuitable

| Description      | kg | 1 | 4 | No.        |
|------------------|----|---|---|------------|
| ROCAL Acid Multi | 5  | 1 | 4 | 1500000115 |
| ROCAL Acid Multi | 10 | 1 | 2 | 1500000116 |
| ROCAL Acid Multi | 30 | 1 |   | 1500000117 |

| Description     | kg | 1 | 4 | No.   |
|-----------------|----|---|---|-------|
| ROCAL Acid Plus | 5  | 1 | 4 | 61105 |
| ROCAL Acid Plus | 10 | 1 | 2 | 61106 |
| ROCAL Acid Plus | 15 | 1 |   | 61110 |

### Neutralizer Powder

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

#### Product Profile

##### RANGE OF USE

Use is necessary after ROCAL Acid Plus / ROCAL Acid Multi has been used. The neutralizer dissolves in water. The decalcification pump and system are flushed with this solution. The PH value in the system and pump is neutral afterwards.

| Description        | kg | 1 | 5 | No.   |
|--------------------|----|---|---|-------|
| Neutralizer powder | 1  | 1 | 5 | 61115 |
| Neutralizer powder | 10 | 1 | 2 | 61120 |



No. 61115

No. 61120



# Flushing & Pipe Cleaning

## Pipe Cleaning Manual

### ROPUMP® SUPER PLUS

Professional force pump cleaner

The optimum introduction tool for the removal of obstructions in basins, bowls, tubs and toilets, etc., using water pressure

**Quick – Compact – Handy!**

#### Product Profile

##### KEY FEATURES

- Optimal adjustment for even the most difficult to reach drains with the appropriate adaptor
- Best force transmission with the flexible, adjustable handle
- Optimal sealed system and therefore the highest suction and pressure power with the double-sided sealing lip and single-cast main body

##### KEY FEATURES

- Simple handling with the perfect adaption an the drain, simple to use, with ergonomic formed components



**Short and long Adaptor included in scope of delivery!**



Adaptor wide  
No. 72073



Adaptor long  
No. 72071

Short adaptor



Long adaptor



| Model  | kg   |   |   | No.            |
|--|------|---|---|----------------|
| ROPUMP® SUPER PLUS with 2 Adaptors (long, short) | 200  | 1 | 4 | <b>072070X</b> |
| Adaptor long                                     | 0.66 | 1 |   | <b>72071</b>   |
| Adaptor short                                    | 0.16 | 1 |   | <b>72072</b>   |
| Adaptor wide                                     | 0.40 | 1 |   | <b>72073</b>   |

### ROPUMP®

Force pump cleaner according to the air-pump principle with water pressure



Dissolves obstructions in drains, basins, showers bathtubs, etc.

#### Product Profile

##### KEY FEATURES

- Small and handy
- Compact and effective

| Model                        | g   |   | No.          |
|------------------------------|-----|---|--------------|
| ROPUMP® with flexible socket | 500 | 1 | <b>71991</b> |

### ROSPI® H+E PLUS

#### Professional manual and electrical drain cleaning unit

Clean and comfortable removal of obstructions in kitchen, bath, toilets or drainage openings with drain cleaning spiral

#### Product Profile

##### KEY FEATURES

- Removal of sinks and siphon filters is not necessary
- Switch from manual to electrical use within seconds
- Secure hold even at higher speeds during drill operation
- Impact-resistant and protected from dirt contamination
- Hexagonal drive for conventional power drills

##### TECHNICAL DATA

**Range of use:** 20 - 50 mm  
**Spiral:** Ø 8 mm x 7.5 m



Electrical operation with cordless drill



Manual operation



| Model              |        | kg  |     | No.          |
|--------------------|--------|-----|-----|--------------|
| ROSPI® 6 H+E Plus  | 4.5 m  | 1.4 | 1 2 | <b>72090</b> |
| ROSPI® 8 H+E Plus  | 7.5 m  | 3.5 | 1 2 | <b>72095</b> |
| ROSPI® 10 H+E Plus | 10.0 m | 4.8 | 1 2 | <b>72005</b> |

For spare spirals see 233





# Flushing & Pipe Cleaning

## Pipe Cleaning Manual & Electric

### ROPOWER® HANDY

#### Manual drain cleaning unit, Ø 50 - 100 mm

A universal manual drain cleaning unit for fast clearance of obstructions. The spiral permits the attachment of a wide range of ROTHENBERGER pipe cleaning tools with 16 mm couplings

#### KEY FEATURES

- Additional spiral cleaning effects with the use of a square spiral



Set (No. 71973) includes: ROPOWER® PROFILE Spiral 2.3 m without core (No. 72494), manual crank (No. 71976), safety gloves (No. H81401), separating pin (No. 72100), blade cutter Ø 25 mm (No. 72169)

| Model                                   | kg  |   | No.          |
|---|-----|---|--------------|
| ROPOWER® HANDY complete                 | 1.7 | 1 | <b>71975</b> |
| ACCESSORIES                             |     |   |              |
| Manual crank                            | 0.4 | 1 | <b>71976</b> |
| ROPOWER® PROFILE CABLE w/o plastic core | 1.2 | 1 | <b>72494</b> |

### Manual Drain Cleaner Type 3 S

#### For pipes Ø 40 - 100 mm, Spirals Ø 13 mm x 15 m with 16 mm coupling

#### KEY FEATURES

- **Flexible use with a wide range of applications**  
For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings
- **Cleaning unit with stand**  
Secure use
- **Plastic spiral drum**  
Corrosion-proof and impact-resistant

Set includes (No. 72003): Manual drain cleaner Type 3 S (No. 72003), spirals Ø 13 mm x 15 m (No. 72016), cross-blade cutter Ø 35 mm (No. 72176) and separating pin (No. 72100)

| Model                                   | kg    |   | No.          |
|---|-------|---|--------------|
| Manual drain cleaner Type 3 S, complete | 17.50 | 1 | <b>72003</b> |
| Spare spiral Ø 13 mm x 15 m             | 7.00  | 1 | <b>72016</b> |
| Cross-blade cutter Ø 35 mm              | 0.04  | 1 | <b>72176</b> |
| Separating pin                          | 0.01  | 1 | <b>72100</b> |

Further Ø 16 mm tools can be found on 226

### WC-BLITZ RO-3 Toilet Auger

#### KEY FEATURES

- **Flexible use even in hard-to-reach places**  
With tough cleaning bulb auger. Extendable handle and 1 m spiral length, Ø 1/2"
- **No damage to ceramic surfaces**  
Angle made out of plastic

#### Angle with plastic protection

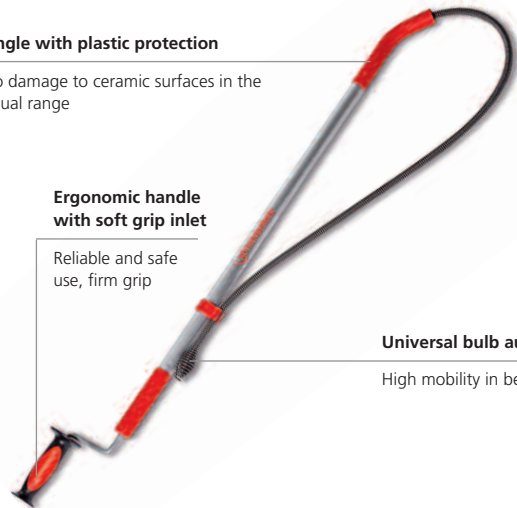
No damage to ceramic surfaces in the visual range

#### Ergonomic handle with soft grip inlet

Reliable and safe use, firm grip

#### Universal bulb auger

High mobility in bends



| Model                              | kg   |   | No.          |
|------------------------------------|------|---|--------------|
| WC-Blitz RO-3 complete with spiral | 2.75 | 1 | <b>78551</b> |

### ROSPI® R 36 Plus

#### Electrical drain cleaning unit, battery-powered or standard, Ø 20 - 75 mm

Ideal for small jobs in the kitchen, bathroom or toilet



#### KEY FEATURES

- **Clean use and sturdy construction**  
Closed plastic container for spiral, impact-resistant and crack-proof
- **Safe grip and operation even at high speed**  
Extra long handle with soft grip inlay

#### TECHNICAL DATA

|                        |   |
|------------------------|---|
| <b>For pipes:</b>      | Ø 20 - 75 mm                                |
| <b>Spirals:</b>        | Ø 8 mm x 7.5 m (Standard) & Ø 10 mm x 7.5 m |
| <b>Operating time:</b> | 1 hour                                      |
| <b>Charging time:</b>  | 1 hour                                      |



No. 72520

| Model                                 | kg  |   | No.          |
|---------------------------------------|-----|---|--------------|
| ROSPI® R 36 Plus 18 V battery version | 6.6 | 1 | <b>72520</b> |
| Spare high-performance battery        | 0.7 | 1 | <b>72516</b> |
| ROSPI® R 36 Plus standard version     | 4.7 | 1 | <b>72525</b> |
| Battery charger unit + AC adaptor     | 1.0 | 1 | <b>72513</b> |

For spare spirals see 233

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric



### ROSPIMATIC

Electrical pipe and drain cleaning machine up to Ø 50 mm

Powerful and quick removal of tough obstructions in access lines with the one-of-a-kind spiral forward and reverse system without changing the rotational direction

#### Product Profile

##### KEY FEATURES

- Switch between forward and reverse under full-load without the need to change the motor rotational direction is possible, which makes obstruction removal faster
- The spiral drive can be combined with 3 different cleaning tools, more efficient operation
- Spiral locking mechanism with torque control enables an optimal reverse of the spiral
- Enclosed spiral container prevents contamination by reversal of the spiral
- The flexible ceramic protective hose prevents unwanted damage and scratches on high-quality ceramic

##### TECHNICAL DATA

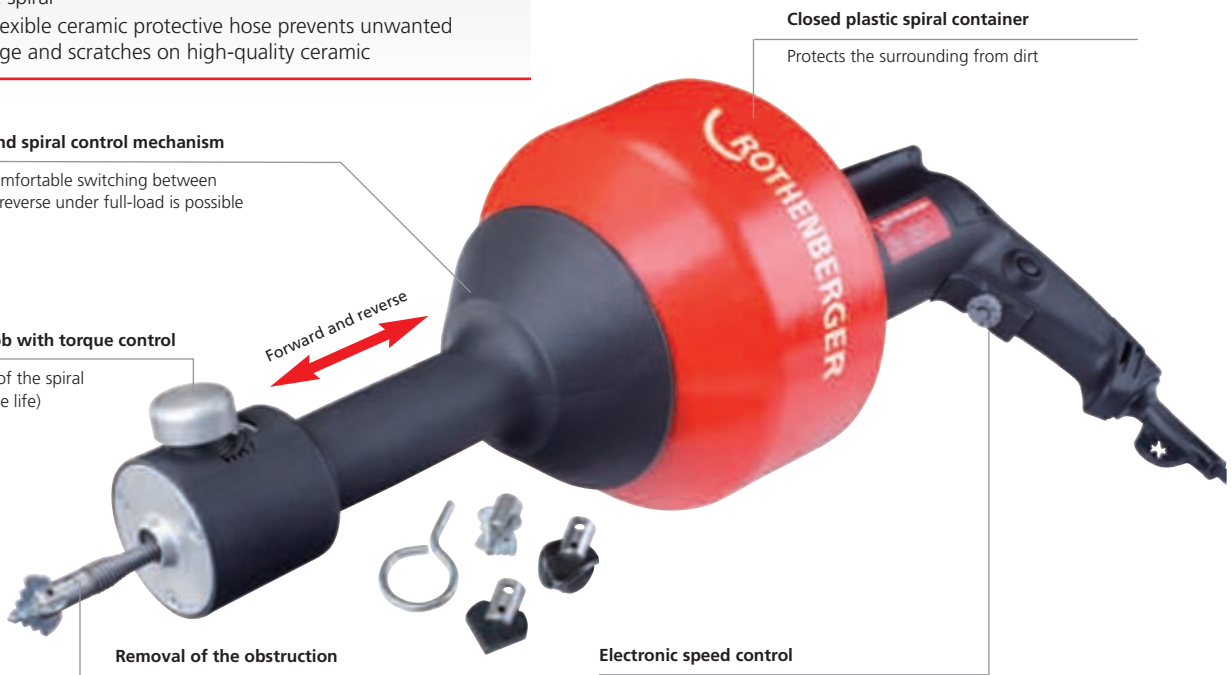
|   |                           |
|---|---------------------------|
| <b>Application range:</b>                             | 20 - 50 mm                |
| <b>Spiral with inner-liner &amp; Bulb head auger:</b> | Ø 8 mm x 7.5 m            |
| <b>Dimensions (without spiral):</b>                   | 560 x 200 x 320 mm        |
| <b>Weight (with 8 mm spiral):</b>                     | 5 kg                      |
| <b>Rating:</b>  | 630 W                     |
| <b>Speed:</b>   | 0 - 950 min <sup>-1</sup> |

#### One-of-a-kind spiral control mechanism

Quick and comfortable switching between forward and reverse under full-load is possible

#### Locking knob with torque control

No crushing of the spiral (longer service life)



#### Removal of the obstruction

Spiral can be combined with 3 different pipe cleaning tools (accessories, retrofittable)

#### Electronic speed control

Optimal pipe cleaning results

#### With bulb-auger



#### With coupling for various tools



#### With flexible guide hose



Set (No. 72942) includes: blade cutter (No. 72764), cross-blade cutter (No. 72765), ball head cutter (No. 72766), separating pin (No. 72102)

| Model                                       |   | No.          |
|---|---|--------------|
| ROSPIMATIC incl. 8 mm / 7.5 m spiral, 230 V | 1 | <b>78576</b> |
| Spiral 8 mm / 7.5 m with steel core         | 1 | <b>72413</b> |
| Spiral 8 mm / 7.5 m with coupling and core  | 1 | <b>72425</b> |
| Tool set (4 piece)                          | 1 | <b>72942</b> |
| ROSPIMATIC protective hose with cover       | 1 | <b>72542</b> |

#### Fast removal of obstructions



For additional accessories see 222

8



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### Powerful ROTHENBERGER Portable Machines for the Professional



#### Product Profile

#### SYSTEM CHARACTERISTICS FOR ALL PORTABLE MACHINES

R 550, R 600, R 650, R 750

- Easy to transport, ideal for mobile use
- Safe and kink-free guidance of the spiral, clean use
- Stable, torsion-resistant and optimised weight
- Robust and light

**Patented, central force transmission directly on the driveshaft!**

#### Patented jaw clamp system CENTRE-LOCK

Exceptional functional safety and central force transfer direct on the spiral (motor / spiral)

#### Individual and flexible working range with the different spiral diameters

Direct connection of spirals or adaptor magazine/clutch jaws (R 750)

#### Field tested motor with right/left rotation

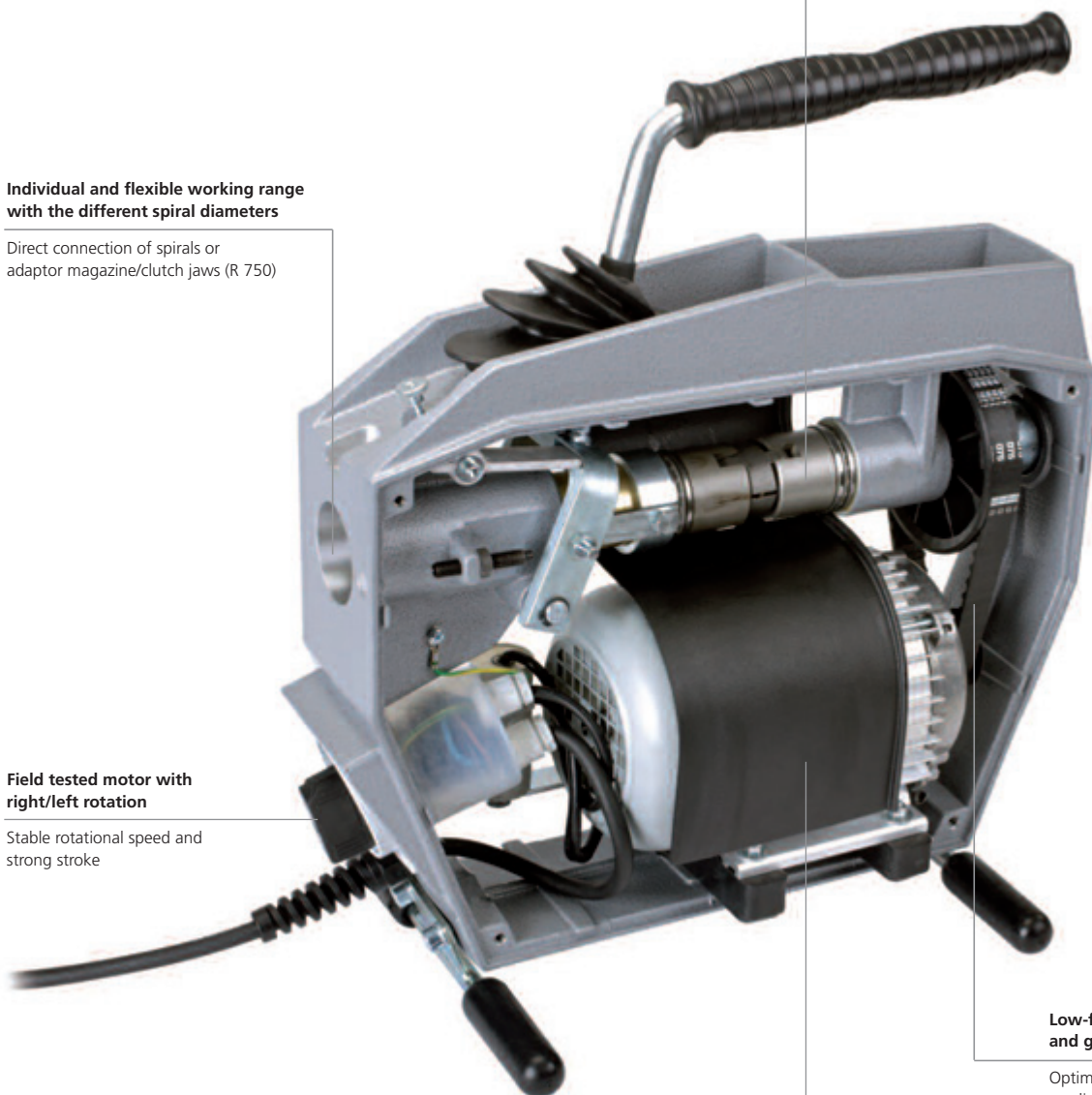
Stable rotational speed and strong stroke

#### Low-friction toothed belt and geared drive pinion

Optimum force transmission and no slipping of the drive shaft

#### Noise suppression and protected from splash water per IP 44

Safe use





# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

| Type of pipe           | Connecting pipes      | Distributing main connecting pipes | Down connecting pipes   | Mains pipes             | Municipal pipe network  |
|------------------------|-----------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| Spiral<br>Range of use | Ø 8 mm<br>up to DN 50 | Ø 10 mm<br>up to DN 75             | Ø 16 mm<br>up to DN 100 | Ø 22 mm<br>up to DN 150 | Ø 32 mm<br>up to DN 200 |
| <b>R 550</b>           | ●                     | ●                                  | ○                       | –                       | –                       |
| <b>R 600</b>           | ●                     | ●                                  | ○                       | ○                       | –                       |
| <b>R 650</b>           | ●                     | ●                                  | ○                       | ○                       | –                       |
| <b>R 750</b>           | –                     | –                                  | ●                       | ○                       | ○                       |

○ Direct attachment    ● Adaptor magazine/collet



8





# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

Please pay attention to system characteristics / advantages on pages 216/217!



|   |   |              |              |
|---|---|--------------|--------------|
| Model   |  | 230 V        | 110/115 V    |
| R 550 including guide hose  | 16.0  | <b>72686</b> | <b>72631</b> |
| Tool sets and accessories starting on  222 |   |              |              |

### R 550

#### Drain cleaning machine for pipe Ø 20 - 100 mm

Reliable, high-performance drain cleaning machine that has a variety of general purpose maintenance uses

#### Product Profile

##### APPLICATION AREA

##### Especially light, compact and handy design:

Ideal for the universal service use by pipe obstructions in connecting pipes from wash basins, toilets, sewage pipes, floor drains and roof drainage

##### KEY FEATURES



- Extremely light
- Direct attachment of 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 40 m, with Ø 16 mm S-spiral

##### TECHNICAL DATA

|                               |  |
|-------------------------------|--|
| <b>For pipe diameters:</b>    | Ø 20 - 100 mm  |
| <b>Direct attachment:</b>     | Ø 16 mm spirals  |
| <b>With adaptor magazine:</b> | Ø 8 mm and 10 mm   |
| <b>Max. working length:</b>   | 40 m with Ø 16 mm S-spirals<br>10 m with Ø 8 and 10 mm spirals |
| <b>Rating:</b>                | 440 W (Power input)  |
| <b>Voltage:</b>               | 230 / 110 / 115 V, 50 Hz                                       |
| <b>Speed:</b>                 | 583 min <sup>-1</sup> , RH and LH drive                        |
| <b>Weight:</b>                | 16.0 kg  |

8



|   |   |              |              |
|---|---|--------------|--------------|
| Model   |  | 230 V        | 110/115 V    |
| R 600 including guide hose  | 20.9  | <b>72687</b> | <b>72632</b> |
| Tool sets and accessories starting on  222 |   |              |              |

### R 600

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For installation and maintenance work in hospitals and municipal facilities

#### Product Profile

##### APPLICATION AREA

##### Universal use both indoors and outdoors:

The powerful motor works reliably even against stubborn obstructions. A wide range of accessories are available

##### KEY FEATURES

- Direct up-take from 16 mm and 22 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 50 m, with Ø 16 mm S-spirals
- Maximum working length 60 m, with Ø 22 mm S-spirals

##### TECHNICAL DATA

|                                |   |
|--------------------------------|---|
| <b>For pipe diameters:</b>     | Ø 20 - 150 mm   |
| <b>With direct attachment:</b> | Ø 22 and 16 mm spirals  |
| <b>With adaptor magazine:</b>  | Ø 8 and 10 mm   |
| <b>Max. working length:</b>    | 60 m with Ø 22 mm S-spirals<br>50 m with Ø 16 mm S-spirals<br>10 m with Ø 8 and 10 mm spirals |
| <b>Rating:</b>                 | 690 W (Power input)   |
| <b>Voltage:</b>                | 230 / 110 / 115 V, 50 Hz  |
| <b>Speed:</b>                  | 467 min <sup>-1</sup> , RH and LH drive   |
| <b>Weight:</b>                 | 20.9 kg   |

Please pay attention to system characteristics / advantages on pages 216/217

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 650

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### Product Profile

##### APPLICATION AREA

**Perfectly suited for rough use and in extreme working conditions:** Quiet operation and powerful cleaning action, even when cutting through roots or grinding out cement and lime deposits

##### KEY FEATURES

- Dual motor performance (cp. R 600)\*
- Flexible with drive lever that can be fitted on the side
- Direct up-take of 22 mm and 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 65 m, with Ø 22 mm S-spiral

##### TECHNICAL DATA

|                               |   |
|-------------------------------|---|
| <b>For pipe diameters:</b>    | Ø 20 - 150 mm   |
| <b>Direct attachment:</b>     | Ø 22 und 16 mm spirals  |
| <b>With adaptor magazine:</b> | Ø 8 mm and 10 mm  |
| <b>Max. working length:</b>   | 65 m with Ø 22 mm S-spirals<br>55 m with Ø 16 mm S-spirals<br>10 m with Ø 8 and 10 mm spirals |
| <b>Rating:</b>                | 1.350 W (Power input)   |
| <b>Voltage:</b>               | 230 / 110 / 115 V, 50 Hz  |
| <b>Speed:</b>                 | 623 min <sup>-1</sup> , RH and LH drive   |
| <b>Weight:</b>                | 22.8 kg   |



Drive lever can be fitted on the side  
Flexible use

|  |      |              |              |
|--|------|--------------|--------------|
| Model                                      |      | 230 V        | 110/115 V    |
| R 650 including guide hose                 | 22.8 | <b>72688</b> | <b>72633</b> |
| Tool sets and accessories starting on  222 |      |              |              |

### R 750

#### Drain cleaning machine for pipe Ø 20 - 200 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### Product Profile

##### APPLICATION AREA

**Perfectly suited for the cleaning of domestic connections and main pipes:** Quiet operation and powerful cleaning action. Suitable for continuous use such as chain spinning, grinding and cutting roots

##### KEY FEATURES

- Drive lever can be rotated (180°), locked and a handle for easy wheeling
- Direct up-take of 32 mm and 22 mm
- Optional Ø 8, 10 and 16 mm with clutch jaw possible
- Maximum working length 70 m, with Ø 22 mm S-spirals

##### TECHNICAL DATA

|                                |   |
|--------------------------------|---|
| <b>For pipe diameters:</b>     | Ø 20 - 200 mm   |
| <b>With direct attachment:</b> | Ø 32 and 22 mm spirals  |
| <b>With clutch jaw:</b>        | Ø 16 mm   |
| <b>Max. working length:</b>    | 80 m with Ø 32 mm S-spirals<br>70 m with Ø 22 mm S-spirals<br>55 m with Ø 16 mm S-spirals |
| <b>Rating:</b>                 | 1.400 W (Power input)   |
| <b>Voltage:</b>                | 230 / 110 / 115 V, 50 Hz  |
| <b>Speed:</b>                  | 467 min <sup>-1</sup> , RH and LH drive   |
| <b>Weight:</b>                 | 33.5 kg   |



Full rubber transport wheels  
Comfortable transport, high mobility and a secure stand

|  |      |              |              |
|--|------|--------------|--------------|
| Model                                      |      | 230 V        | 110/115 V    |
| R 750 including guide hose                 | 33.5 | <b>72689</b> | <b>72634</b> |
| Tool sets and accessories starting on  222 |      |              |              |





# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### ROSPEED 3F

High-performance pipe cleaning innovation for pipe Ø 50 - 125 mm, automatic spiral feed.  
Ideal for use inside buildings



#### Product Profile

##### APPLICATION AREA

By return of the spiral, the pipe contamination stays in the drum unlike the case machines. That is why this unit is ideally suited use by HVAC professionals, for example, use in private homes, hospitals and clinics, gastronomy and hotels, schools and nursing homes, facility management and other public buildings

##### KEY FEATURES

- The unit can be used immediately
- Easy and comfortable handling with the automatic feed
- Clean and discrete use
- Clear controls

##### KEY FEATURES

- 3F – three functions in one unit:
  1. Scrubbing
  2. Pulsating
  3. Final cleaning
- Simple cleaning of the drum with, for example, a steam cleaner

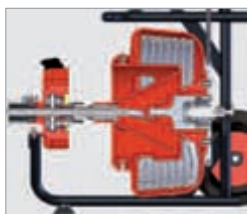
##### TECHNICAL DATA

|                                |  |
|--------------------------------|--|
| <b>For pipe diameters:</b>     | Ø 50 - 125 mm                                      |
| <b>With direct attachment:</b> | Ø 16 mm  |
| <b>Max. working length:</b>    | 15 m up to 30 m expandable                         |
| <b>Rating:</b>                 | 250 W  |
| <b>Speed:</b>                  | 270 - 340 min <sup>-1</sup> ,<br>3 Step adjustable |
| <b>Weight:</b>                 | 47.5 kg  |



#### Electronic display – 3F

Clear and easy control of the 3 cleaning functions



#### Forced guidance of the spiral, parallel layer winding, remains balanced

Spiral will not twist or turn in the drum

#### Spiral control in direction of rotation, automatic feed and retraction

Optimum handling

#### Clamping mechanism with T-groove coupling

For secure lengthening or shortening of the spiral



**ATC- Automatic Torque Control – One-of-a-kind automatic rpm control protects spiral and motor!**

#### Toolbox is included in delivery

Immediately ready-to use

#### Stainless steel grip

Easy to extend and pack away

#### Cleaning plug on the back side of the drum

Easy cleaning of the drum

#### With 6 professional tools to get started

- Straight Auger
- Bulb Auger
- Retrieving Auger
- Chain-spinning Head
- Cross-blade cutter, serrated
- Spiral Sawtooth Cutter

Set (No. 72960) for Standard 16 mm includes: Basic machine, straight auger (No. 72161), bulb auger (No. 72163), retrieving auger (No. 72162), chain-spinning head (No. 072185F), cross-blade cutter, serrated (No. 72176), spiral sawtooth cutter (No. 72166), separating pin (No. 72100), guide hose (No. 72540), ROWONAL spray (No. 72142), plastic carrying case

| Model  | kg   | ⊞ | No.          |
|--|------|---|--------------|
| ROSPEED 3F (230 V) with tool set                     | 47.5 | 1 | <b>72960</b> |
| Spiral 16 mm x 15 m with steel core                  | 15.0 | 1 | <b>72918</b> |
| ROSPEED 3F (230 V) with additional spiral and basket | 62.5 | 1 | <b>19077</b> |



Included in delivery



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 80

One-man professional machine for pipe Ø 50 - 250 mm

#### KEY FEATURES

- Small, compact design permits the machine to pass through doorways
- Portable and easy to navigate stairs
- Transports easily in any service vehicle, collapsible
- Ideal for manhole inspections through defined working height
- Fatigue-free clamping when working with large spiral diameters and lengths
- Integrated, spacious toolbox



#### TECHNICAL DATA

|                                    |  |
|------------------------------------|--|
| <b>For pipe diameters:</b>         | Ø 50 - 250 mm  |
| <b>For drain cleaning spirals:</b> | Ø 22 and 32 mm   |
| <b>Max. working length:</b>        | 80 m with Ø 32 mm S-spirals<br>70 m with Ø 22 mm S-spirals |
| <b>Rating:</b>                     | 1.4 kW (1.9 HP) RH / LH rotation                           |
| <b>Weight:</b>                     | 52 kg  |



Includes: Basic machine, grease gun (No. 855156), Allen keys (1 x No. 321515, 1 x No. 321188, 1 x No. 321189), open-ended spanners (1 x No. 310411, 1 x No. 310450)

|                    |                   |
|--------------------|-------------------|
| Model              | 230 V / 50 Hz     |
| R 80 basic machine | 52.0 <b>72585</b> |

### R 100 SP

One-man professional machine for pipes Ø 50 - 250 mm

#### KEY FEATURES

- Ideal for confined spaces such as skylights or ducts
- Portable and easy to navigate stairs
- Adjustable working heights, foldable
- Extendable supporting feet
- Transports easily in any service vehicle

#### TECHNICAL DATA

|                                    |   |
|------------------------------------|---|
| <b>For pipe diameters:</b>         | Ø 50 - 250 mm   |
| <b>For drain cleaning spirals:</b> | Ø 22 and 32 mm  |
| <b>Max. working length:</b>        | 100 m with Ø 32 mm S-spirals<br>70 m with Ø 22 mm S-spirals |
| <b>Rating:</b>                     | 1.4 kW (1.9 HP) RH / LH rotation                            |
| <b>Weight:</b>                     | 57 kg   |



Includes: Basic machine, grease gun (No. 855156), Allen key (No. 321515), open-ended spanners (No. 310450)

|                        |                   |
|------------------------|-------------------|
| Model                  | 230 V / 50 Hz     |
| R 100 SP basic machine | 57.0 <b>72610</b> |

### R 140 B

For municipal and industrial applications Ø 100 - 600 mm

#### KEY FEATURES

- Effortless conversion from spiral to rodding operation  
Working range from Ø 100 - 250 mm with 32 mm spirals  
Working range from Ø 150 - 600 mm with bar
- Petrol engine, independent from electric power supply
- Ideal for rodding work in rural area pipes
- Extremely powerful reversible drive
- 1 forward and 1 reverse gear
- Speed controlled by means of a manual throttle
- Manual slip clutch
- With quick-change couplings for rodding tools

#### TECHNICAL DATA

|                                       |  |
|---------------------------------------|--|
| <b>For pipe diameters:</b>            | Ø 100 - 600 mm                             |
| <b>For drain cleaning spirals:</b>    | Ø 32 mm                                    |
| <b>For rods:</b>                      | Ø 6 mm, 3/4"                               |
| <b>Max. working length:</b>           | 100 m with 32 mm-spirals<br>140 m with rod |
| <b>Rating:</b>                        | 4.8 kW (6.6 HPS), petrol engine            |
| <b>Motor:</b>                         | RH / LH rotation                           |
| <b>2 gear reversible drive speed:</b> | 160 - 600 min <sup>-1</sup>                |
| <b>Weight:</b>                        | 97 kg                                      |



Includes (No. 72971): R 140 (No. 72970) with rod, 25 x adaptor 3/4" (No. 78581) rod turning grip (No. 78580), tool adaptor for mounting 32 mm spirals (No. 72122), tool adaptor for 32 mm spiral rod coupling (No. H99569), rod tool adaptor (No. H99120), guide glove, left (No. 72120), guide glove, right (No. 72121), separating pin (No. 72101), funnel auger (No. 72322), straight auger (No. 72321), bulb auger (No. 72271), retrieving auger (No. 72272), spiral sawtooth cutter Ø 65 mm (No. 72747), dual spade head cutter (No. 72774), forked cutter Ø 76 new (No. 72350), forked cutter Ø 85 (No. 72781), forked cutter Ø 112 (No. 72782), tool box (No. FF60185), operating instructions (machine, motor, gears)

|                               |                     |
|-------------------------------|---------------------|
| Model                         | No.                 |
| R 140 B basic machine         | 97.00 <b>72970</b>  |
| R 140 B with rod and tool set | 108.50 <b>72971</b> |

# Flushing & Pipe Cleaning

## Accessories Pipe Cleaning Electric



No. 72538



No. 72536



No. 72638



No. 72666



No. 72563

### Clutch Jaws

| For machine type          | For spirals Ø | kg  | No.          |
|---------------------------|---------------|-----|--------------|
| <b>R 550</b>              |               |     |              |
| (from Serial No. 411542)  | 16 mm         | 0.1 | <b>72538</b> |
| (up to Serial No. 411541) | 16 mm         | 0.1 | <b>72536</b> |
| <b>R 600/650</b>          |               |     |              |
| (from Serial No. 409001)  | 16 and 22 mm  | 0.3 | <b>72638</b> |
| (up to Serial No. 409000) | 16 and 22 mm  | 0.3 | <b>72666</b> |
| <b>R 750</b>              | 22 and 32 mm  | 0.4 | <b>72563</b> |
| <b>R 80/100 SP</b>        | 22 mm         | 0.4 | <b>72561</b> |
| <b>R 80/100 SP</b>        | 32 mm         | 0.3 | <b>72562</b> |



No. 72511



No. 72511



No. 72514, No. 72515

### Adaptor Magazines

- Clean, safe storage of 8 and 10 mm spirals
- Impact-resistant container with clutch jaws and precision clutch

| For machine type | for spirals Ø | max. spiral length | kg  | No.          |
|------------------|---------------|--------------------|-----|--------------|
| R 550            | 8 and 10 mm   | 10 m               | 1.3 | <b>72511</b> |
| R 600/650        | 8 mm          | 10 m               | 1.8 | <b>72514</b> |
| R 600/650        | 10 mm         | 10 m               | 1.8 | <b>72515</b> |



### Clutch Jaws for R 750

| For machine type | for spirals Ø | kg  | No.          |
|------------------|---------------|-----|--------------|
| R 750            | 16 mm         | 0.3 | <b>72915</b> |

8

Ensures safe, kink-free spiral feed



No. 72541



No. 72559

With precision quick coupling

### Spiral Guide Hoses

- Prevents contamination and damage

| Model | for machine type | for spirals Ø | length | kg  | No.          |
|-------|------------------|---------------|--------|-----|--------------|
| FS 16 | R 550/ROSPEED 3F | 16 mm         | 2 m    | 1.1 | <b>72540</b> |
| FS 22 | R 600/650        | 22 mm         | 4 m    | 2.8 | <b>72541</b> |
| FS 32 | R 750/80/100 SP  | 32 mm         | 4 m    | 4.1 | <b>72559</b> |



### Ceramic Protection Hose

- For the protection of ceramic
- With adjustable holding clamp

| For spirals    | length | kg  | No.          |
|----------------|--------|-----|--------------|
| Ø 8, 10, 16 mm | 540 mm | 0.4 | <b>72705</b> |

Ideal working height



### Tripod Stand

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: Toilets
- Inspection holes in downpipes
- Spiral retrieving device

| For machine type              | kg  | No.          |
|-------------------------------|-----|--------------|
| R 550 - R 600 - R 650 - R 750 | 3.0 | <b>58182</b> |



# Flushing & Pipe Cleaning

## Accessories Pipe Cleaning Electric

### Spiral Retrieving Device

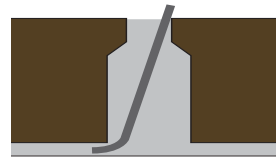
- Safe feeding / retrieving of spirals in downpipes
- Suitable for all Ø 22 and 32 mm open-wound spirals
- Suitable as pusher unit for difficult obstructions
- Also suitable as adaptor for third-party equipment without problems
- With water supply connection (two 1" threaded couplings)
- Socket for tripod stand



| Model                    | △kg△ | No.          |
|--------------------------|------|--------------|
| Spiral Retrieving Device | 3.7  | <b>72135</b> |

### Telescoping Guide Tubes

- No twisting: For safe spiral guidance in manholes and manhole covers



| Description             | Extended length m | Type     | △kg△ | No.          |
|-------------------------|-------------------|----------|------|--------------|
| For spirals Ø 16, 22 mm | 1.4 - 2.3         | 2 pieces | 3.0  | <b>72130</b> |
| For spirals Ø 22, 32 mm | 1.9 - 4.3         | 3 pieces | 10.0 | <b>72131</b> |

### Spiral Guide Gloves

- For safe grasping and guiding of cleaning spirals
- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove



| Description | model | △g△ | No.          |
|-------------|-------|-----|--------------|
| Guide glove | left  | 210 | <b>72120</b> |
| Guide glove | right | 210 | <b>72121</b> |

### ROWONAL Care and Rust Remover

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal and disinfection



No. 72142



No. 72140

| Description           | Contents | △g△   | No.          |
|-----------------------|----------|-------|--------------|
| Spray can             | 0.2 l    | 220   | <b>72142</b> |
| Plastic canister      | 5.0 l    | 5,100 | <b>72140</b> |
| Manual sprayer, empty | 0.5 l    | 90    | <b>72141</b> |

### Separating Pin

- For disconnecting spirals and spiral tools

| Model                                   | △g△ | No.          |
|---|-----|--------------|
| For spirals / tools with Ø 16 mm        | 20  | <b>72100</b> |
| For spirals / tools with Ø 22 and 32 mm | 30  | <b>72101</b> |
| For spirals / tools with Ø 8 mm         | 15  | <b>72102</b> |



No. 72100



No. 72101

### Spiral Baskets

- Safe storage combined with convenient transport
- Perfectly suited for cleaning and preservation

| Model                                | Spiral length max. | △kg△ | No.          |
|--------------------------------------|--------------------|------|--------------|
| For spirals / tools with Ø 16 mm     | 34.5 m             | 1.3  | <b>72110</b> |
| For spirals / tools with Ø 22 mm     | 22.5 m             | 1.6  | <b>72112</b> |
| For spirals / tools with Ø 22, 32 mm | 22.5 m             | 2.3  | <b>72111</b> |



No. 72111

No. 72110

No. 72112



# Flushing & Pipe Cleaning

## Pipe Cleaning Spirals

### ROTHENBERGER High-Performance Drain Cleaning Spirals

For the toughest demands during continuous operation

#### Product Profile

##### KEY FEATURES

- **Bevelled lead-ins on the T-groove coupling**  
Quick, trouble-free coupling even when wearing gloves
- **For the toughest demands even during continuous operation**  
Different wire gauge can be chosen depending on use, high material characteristics, perfected production process
- **Maximum spring tension with high elasticity and flexibility**  
Specially hardening process
- **Optimum high torque transmission**  
Tightly wound spiral with short pitch
- **Increased spiral tension when machine turns clockwise and depending on the resistance of the obstruction**  
Professional left-handed wound spiral

##### TECHNICAL DATA

**Manufactured from** quality spring steel, Type C DIN EN 10270-1 Material No. 1.1200  
**Specially hardened** and tempered  
**Safety T-groove coupling system** with NIROSTA- pressure pin locking mechanism  
**Spring mounted** NIROSTA pressure pin with NIROSTA spring

With Lock Ring!



#### Sufficient connecting coil

Spare couplings can be mounted easily



#### Various wire gauges

Flexible, depending on use

#### ROPOWER PROFILE CABLE (patented)

Addition cleaning effect with the squared profile

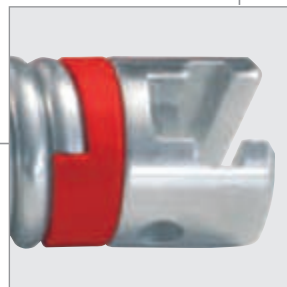


#### Plastic core

Spiral won't clog with dirt

#### Insertion taper

Simple coupling of spirals and tools



#### T-groove made of NiROSTA steel

Long lasting and high functional safety with the high-quality coupling design



| Spiral / Type          | Short cable many bends | Long cable straight run | No clogging of the Spiral with dirt | Additional cleaning power |
|------------------------|------------------------|-------------------------|-------------------------------------|---------------------------|
| <b>Standard Spiral</b> | ●                      | ○                       | ○                                   | ○                         |
| <b>SMK-Spiral</b>      | ●                      | ○                       | ●                                   | ○                         |
| <b>S-Spiral</b>        | ○                      | ●                       | ○                                   | ○                         |
| <b>S-SMK-Spiral</b>    | ○                      | ●                       | ●                                   | ○                         |
| <b>ROPOWER PROFILE</b> | ○                      | ●                       | ●                                   | ●                         |

○ not suitable ● suitable

8

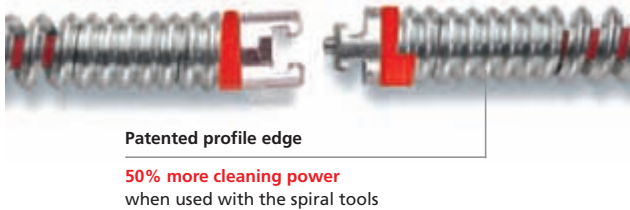


### ROPOWER® PROFILE CABLE

Patented spiral with special galvanized wire shape

#### KEY FEATURES

- Squared spiral wire profile (DIN EN 10270-1)  
Additional cleaning effect on pipe wall
- Plastic core  
No clogging of the spiral with dirt
- Especially suitable for working over long distances



| mm | Core | inch | L<br>m | kg  | No.   |
|----|------|------|--------|-----|-------|
| 16 | ●    | 5/8" | 2.3    | 1.3 | 72490 |

Safety T-groove couplings can be found on 233

### Standard Spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



| mm | inch   | L<br>m | Wire thickness<br>Ø mm | R/K<br>Type | kg   | No.   |
|----|--------|--------|------------------------|-------------|------|-------|
| 16 | 5/8"   | 2.3    | 3.0                    | C 8         | 1.05 | 72431 |
| 22 | 7/8"   | 4.5    | 4.5                    | C 10        | 3.98 | 72441 |
| 32 | 1.1/4" | 4.5    | 5.0                    | C 11        | 6.29 | 72451 |

Safety T-groove couplings can be found on 233

### S-Spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling



| mm | inch   | L<br>m | Wire thickness<br>Ø mm | R/K<br>Type | kg   | No.   |
|----|--------|--------|------------------------|-------------|------|-------|
| 16 | 5/8"   | 2.3    | 3.5                    | E 8         | 3.00 | 72428 |
| 22 | 7/8"   | 4.5    | 5.0                    | E 10        | 4.18 | 72443 |
| 32 | 1.1/4" | 4.5    | 6.0                    | C 11        | 6.80 | 72453 |

Safety T-groove couplings can be found on 233

### ROTHENBERGER Lock Ring

One-of-a-kind safety ring for the optimum transmission of the torque pressure onto the coupling with 100% surface pressure

#### KEY FEATURES

- Self locking connection of spiral and coupling:  
With increased stress on the spiral, the torque pressure on the spiral end is increased and is transferred with 100% surface coverage onto the coupling.
- Safety ring made out of flexible and self-binding material:  
With increased stress the ring will not slide, rather because of the 100% surface pressure, it adjusts itself to positively lock onto the coupling
- Optimum force transmission for professional pipe cleaning
- Increased safety
- Increased durability / service life of the spiral



### SMK-Spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends
- Additional protection of the spiral from clogging with the plastic core



| mm | inch   | L<br>m | Wire thickness<br>Ø mm | R/K<br>Type | kg   | No.   |
|----|--------|--------|------------------------|-------------|------|-------|
| 16 | 5/8"   | 2.3    | 3.0                    | C 8         | 1.24 | 72433 |
| 22 | 7/8"   | 4.5    | 4.5                    | C 10        | 4.64 | 72442 |
| 32 | 1.1/4" | 4.5    | 5.0                    | C 11        | 7.63 | 72452 |

Safety T-groove couplings can be found on 233

### S-SMK-Spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling
- Additional protection of the spiral from clogging with the plastic core



| mm | inch   | L<br>m | Wire thickness<br>Ø mm | R/K<br>Type | kg   | No.   |
|----|--------|--------|------------------------|-------------|------|-------|
| 16 | 5/8"   | 2.3    | 3.5                    | E 8         | 1.30 | 72435 |
| 22 | 7/8"   | 4.5    | 5.0                    | E 10        | 4.78 | 72444 |
| 32 | 1.1/4" | 4.5    | 6.0                    | E 11        | 7.85 | 72455 |

Safety T-groove couplings can be found on 233





### Examples of Use

#### Tool expertise from ROTHENBERGER

Application areas for ROTHENBERGER high-performance drain cleaning tools with T-groove secure couplings

Suitable for all ROTHENBERGER drain cleaning spirals with

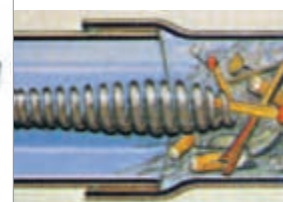
- Ø 16 mm - 5/8"
- Ø 22 mm - 7/8"
- Ø 32 mm - 1.1/4"

See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

### Bulb Auger

227

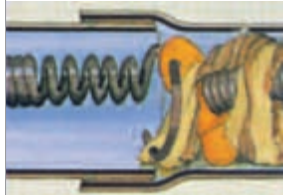
The most common tool for cleaning pipes and drains with tight or multiple bends



### Retrieving Auger

227

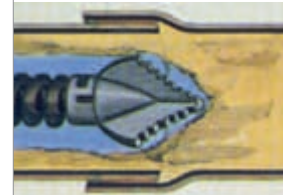
Special tool for retrieving objects from the pipe, e.g. textiles, spirals or tools



### Cross-blade Cutter, serrated

228

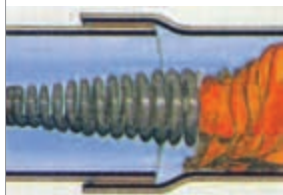
Special tool for opening up solidified pipe obstructions



### Funnel Auger

227

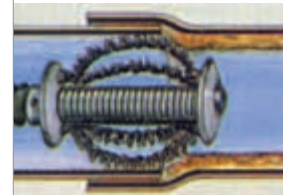
Tool for removing, opening or retrieving obstructions caused by, e.g. textiles



### Chain-spinning Head with Spikes

229

For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains



### Spade Head Cutter

228

Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool



### Carbide-tipped Cutters

230

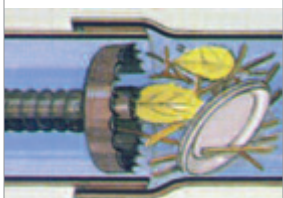
This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale, etc.



### Spiral Sawtooth Cutter

228

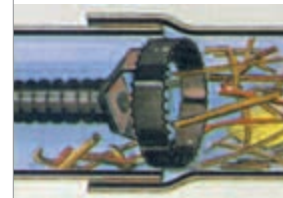
Special tool for chopping up small roots and other material that have become caught in the pipe



### Two-way Root Cutter

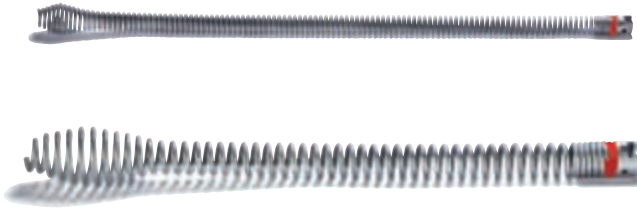
230

Special tool for cutting roots in both directions. Also suitable for solid materials



### Bulb Auger, long

- With the longer, more flexible range the bulb auger is considerably more flexible in curves. Pipe from Ø 40 mm



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 28 | 500     | 40 - 75             | 220 | <b>72158</b> |
| 22 / 7/8"             | 40 | 500     | 50 - 100            | 464 | <b>72208</b> |
| 32 / 1.1/4"           | 50 | 500     | 75 - 250            | 818 | <b>72323</b> |

### Straight Auger

- Standard tool for establishing the nature of an obstruction
- For piercing or drilling through obstructions caused by textiles, paper, cellulose materials, kitchen refuse, etc.
- For removing samples to determine a suitable clearing tool



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 16 | 110     | 40 - 75             | 60  | <b>72161</b> |
| 22 / 7/8"             | 22 | 210     | 75 - 100            | 170 | <b>72221</b> |
| 32 / 1.1/4"           | 32 | 220     | 100 - 250           | 350 | <b>72321</b> |

### Funnel Auger

- For removing or opening up obstructions caused by textiles or paper
- Large grasping ability can also be used to retrieve spirals from drains



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 32 | 110     | 50 - 100            | 80  | <b>72165</b> |
| 22 / 7/8"             | 55 | 185     | 110 - 150           | 280 | <b>72222</b> |
| 32 / 1.1/4"           | 60 | 195     | 100 - 250           | 500 | <b>72322</b> |

### Bulb Auger, short

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 28 | 115     | 40 - 75             | 70  | <b>72163</b> |
| 22 / 7/8"             | 40 | 180     | 75 - 100            | 220 | <b>72263</b> |
| 32 / 1.1/4"           | 50 | 220     | 75 - 250            | 490 | <b>72363</b> |

### Retrieving Auger

- Special tool designed with a claw for retrieving textiles, tools, spirals, etc.



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 35 | 55      | 50 - 75             | 35  | <b>72162</b> |
| 22 / 7/8"             | 45 | 100     | 75 - 150            | 110 | <b>72203</b> |
| 32 / 1.1/4"           | 65 | 125     | 75 - 250            | 240 | <b>72325</b> |

### Drop-head Auger

- Ideal for particularly tight pipe bends, branches and small-diameter drain downpipes



| Coupling<br>mm / inch |    | L<br>mm | Working range<br>mm |     | No.          |
|-----------------------|----|---------|---------------------|-----|--------------|
| 16 / 5/8"             | 24 | 83      | 50 - 75             | 60  | <b>72159</b> |
| 22 / 7/8"             | 37 | 125     | 60 - 100            | 180 | <b>72264</b> |

# Flushing & Pipe Cleaning

## Drain Cleaning Tools

**Hardened spring steel blades!**






No. 72154



No. 72164

### Four-blade Cutter

- For cutting through and removing tough obstructions
- For the removal of sludge deposits
- Ideal with S-spirals




| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|--|--|---------------------|---|--------------|
| 16 / 5/8"             | 40   | 40   | 50 - 75             | 30  | <b>72154</b> |
| 16 / 5/8"             | 30   | 40   | 50 - 75             | 20  | <b>72164</b> |



No. 72234

- Standard tool for removing grease and other soft deposits, e.g. soap accumulations

### Grease Cutter




| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|--|--|---------------------|---|--------------|
| 16 / 5/8"             | 25   | 35   | 40 - 75             | 30  | <b>72169</b> |
| 16 / 5/8"             | 35   | 45   | 50 - 75             | 40  | <b>72170</b> |
| 16 / 5/8"             | 45   | 56   | 60 - 100            | 50  | <b>72171</b> |
| 22 / 7/8"             | 45   | 60   | 60 - 125            | 80  | <b>72234</b> |



No. 72261

### Spade Head Cutter

- Curved special tool for silt and sludge deposits

| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|---|---|---------------------|---|--------------|
| 22 / 7/8"             | 65  | 65  | 100 - 150           | 150   | <b>72261</b> |
| 32 / 1.1/4"           | 65  | 70  | 100 - 150           | 250   | <b>72360</b> |




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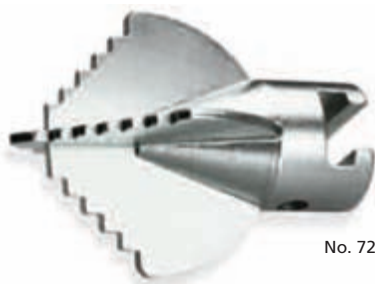
No. 72229

### Spiral Sawtooth Cutter

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|--|--|---------------------|---|--------------|
| 16 / 5/8"             | 35   | 25   | 50 - 75             | 40  | <b>72166</b> |
| 22 / 7/8"             | 45   | 40   | 75 - 100            | 100   | <b>72229</b> |
| 32 / 1.1/4"           | 65   | 55   | 75 - 100            | 210   | <b>72329</b> |




- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK spirals!



No. 72275

### Cross-blade Cutter, serrated

- Powerful combination tool for grinding up and removing solidified obstructions
- For coarse removal of incrustations
- As preparatory tool for chain spinning

| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|--|--|---------------------|---|--------------|
| 16 / 5/8"             | 25   | 35   | 50 - 75             | 30  | <b>72175</b> |
| 16 / 5/8"             | 35   | 45   | 50 - 75             | 40  | <b>72176</b> |
| 16 / 5/8"             | 45   | 56   | 75 - 100            | 65  | <b>72177</b> |
| 16 / 5/8"             | 55   | 60   | 100 - 125           | 80  | <b>72178</b> |
| 22 / 7/8"             | 45   | 60   | 100 - 125           | 90  | <b>72275</b> |
| 22 / 7/8"             | 65   | 60   | 100 - 150           | 190   | <b>72276</b> |
| 22 / 7/8"             | 75   | 80   | 100 - 150           | 220   | <b>72277</b> |
| 32 / 1.1/4"           | 45   | 60   | 100 - 125           | 140   | <b>72374</b> |
| 32 / 1.1/4"           | 65   | 70   | 100 - 150           | 260   | <b>72375</b> |
| 32 / 1.1/4"           | 90   | 100  | 125 - 200           | 490   | <b>72376</b> |
| 32 / 1.1/4"           | 115  | 120  | 150 - 250           | 640   | <b>72377</b> |

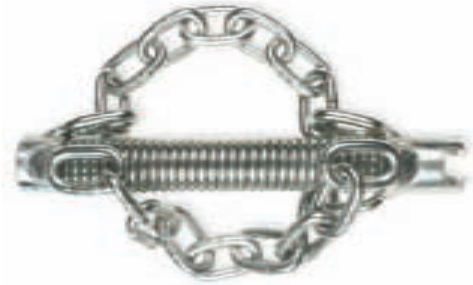


### Chain-spinning Heads

Without ring, with smooth chain




#### KEY FEATURES

- For cleaning greasy and incrustated pipes
- Surface-preserving cleaning of ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends



No. 72284

Chain-spinning Heads without ring and without spikes

| Coupling<br>mm / inch              |  mm |  mm | Working range<br>mm |  g | No.            |
|------------------------------------|--|--|---------------------|---|----------------|
| <b>Without ring, with 2 chains</b> |  |  |                     |   |                |
| 16 / 5/8"                          | 30   | 105  | 50 - 125            | 120   | <b>072185F</b> |
| 16 / 5/8"                          | 30   | 155  | 100 - 125           | 160   | <b>72185</b>   |
| 22 / 7/8"                          | 50   | 170  | 100 - 150           | 530   | <b>72284</b>   |
| <b>Without ring, with 4 chains</b> |  |  |                     |   |                |
| 16 / 5/8"                          | 40   | 155  | 60 - 125            | 270   | <b>72187</b>   |
| 22 / 7/8"                          | 60   | 170  | 80 - 130            | 710   | <b>72289</b>   |

Improved mobility!



No. 72289

### Chain-spinning Heads with Spikes

#### KEY FEATURES

- Intensive cleaning action
- Ideal for concrete and cast iron pipes
- Reduces the risk of renewed obstructions
- Perfectly suitable for down pipes
- **With ring:**  
for better centering in horizontal pipe runs
- **Without ring:**  
Improved mobility in bends






No. 72286

Ideal for final cleaning!

Better alignment in horizontal pipe position!




Chain-spinning Heads with ring and spikes

| Coupling<br>mm / inch |  mm |  mm | Working range<br>mm |  g | No.          |
|-----------------------|--|--|---------------------|---|--------------|
| 16 / 5/8"             | 30   | 160  | 70 - 125            | 320   | <b>72182</b> |
| 22 / 7/8"             | 65   | 170  | 100 - 125           | 1,060   | <b>72285</b> |
| 22 / 7/8"             | 75   | 170  | 100 - 150           | 1,110   | <b>72286</b> |
| 32 / 1.1/4"           | 75   | 220  | 100 - 125           | 1,700   | <b>72341</b> |



No. 72278

Without ring, with 2 or 4 chains and spikes

| Coupling<br>mm / inch              |  mm |  mm | Working range<br>mm |  g | No.          |
|------------------------------------|--|--|---------------------|---|--------------|
| <b>Without ring, with 2 chains</b> |  |  |                     |   |              |
| 16 / 5/8"                          | 30   | 155  | 50 - 125            | 160   | <b>72186</b> |
| 22 / 7/8"                          | 50   | 170  | 100 - 150           | 860   | <b>72278</b> |
| 32 / 1.1/4"                        | 70   | 220  | 100 - 150           | 1,350   | <b>72347</b> |
| <b>Without ring, with 4 chains</b> |  |  |                     |   |              |
| 16 / 5/8"                          | 40   | 155  | 75 - 125            | 280   | <b>72188</b> |
| 22 / 7/8"                          | 60   | 170  | 100 - 150           | 880   | <b>72299</b> |
| 32 / 1.1/4"                        | 80   | 220  | 100 - 200           | 1,460   | <b>72348</b> |



No. 72188

For better curve manoeuvrability!



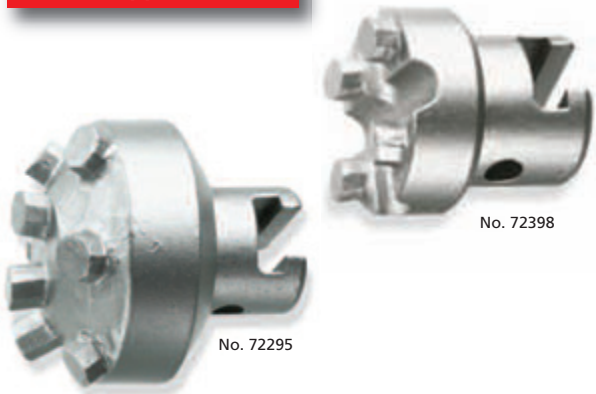
# Flushing & Pipe Cleaning

## Drain Cleaning Tools

### Carbide-tipped Cutters

- Carbide-tipped cutters for the hardest obstructions and incrustations such as cement deposits, urine and water scale and other hard deposits
- Recommended for use with S or SMK spirals

#### Carbide-tipped Cutters!



| Coupling mm / inch | mm | Form     | Working range mm | g   | No.          |
|--------------------|----|----------|------------------|-----|--------------|
| 16 / 5/8"          | 25 | straight | 35 - 50          | 70  | <b>72191</b> |
| 16 / 5/8"          | 30 | straight | 50 - 75          | 80  | <b>72193</b> |
| 22 / 7/8"          | 30 | straight | 50 - 75          | 90  | <b>72291</b> |
| 22 / 7/8"          | 45 | pointed  | 60 - 100         | 320 | <b>72295</b> |
| 32 / 1.1/4"        | 45 | straight | 60 - 100         | 240 | <b>72392</b> |
| 32 / 1.1/4"        | 55 | pointed  | 70 - 100         | 400 | <b>72396</b> |
| 32 / 1.1/4"        | 80 | straight | 100 - 200        | 530 | <b>72398</b> |

### Serrated Forked Cutter

- Particularly suitable for sludge deposits and roots
- Hardened spring steel cutter with teeth on both sides, long service life



| Coupling mm / inch | mm  | L mm | Working range mm | g   | No.          |
|--------------------|-----|------|------------------|-----|--------------|
| 22 / 7/8"          | 76  | 100  | 100 - 150        | 230 | <b>72250</b> |
| 22 / 7/8"          | 100 | 100  | 125 - 150        |     | <b>72251</b> |
| 32 / 1.1/4"        | 76  | 100  | 120 - 200        | 260 | <b>72350</b> |
| 32 / 1.1/4"        | 100 | 100  | 125 - 200        |     | <b>72351</b> |
| Spare blade        | 76  | -    | -                | 90  | <b>72258</b> |
| Spare blade        | 100 | -    | -                | 120 | <b>72259</b> |

8

### Two-way Root Cutter

- With hardened spring steel cutter for chopping up roots in both directions
- Recommended for use with S or SMK spirals
- Not suitable for use with plastic pipes

#### Replaceable blades!



| Coupling mm / inch | mm  | L mm | Working range mm | g   | No.          |
|--------------------|-----|------|------------------|-----|--------------|
| 22 / 7/8"          | 65  | 80   | 100 - 125        | 250 | <b>72265</b> |
| 22 / 7/8"          | 90  | 85   | 125 - 200        | 290 | <b>72266</b> |
| 32 / 1.1/4"        | 65  | 80   | 100 - 125        | 290 | <b>72365</b> |
| 32 / 1.1/4"        | 90  | 90   | 125 - 200        | 330 | <b>72366</b> |
| 32 / 1.1/4"        | 150 | 130  | 200 - 300        | 550 | <b>72367</b> |
| Spare cutter       | 65  | -    | -                | 120 | <b>72270</b> |
| Spare cutter       | 90  | -    | -                | 150 | <b>72271</b> |

### Ball Head Cutter

- Perfectly suited for use in pipes with hard incrustations such as lime, urine scale, etc.
- Suitable for downpipes, its round shape ensures excellent curve mobility even at 90°



| Coupling mm / Zoll | Working range mm | mm  | g    | No.          |
|--------------------|------------------|-----|------|--------------|
| <b>4 Blade</b>     |                  |     |      |              |
| 16 / 5/8"          | 50 - 75          | 25  | 42   | <b>72168</b> |
| 16 / 5/8"          | 50 - 75          | 35  | 80   | <b>72172</b> |
| 16 / 5/8"          | 75 - 100         | 55  | 144  | <b>72173</b> |
| 22 / 7/8"          | 100 - 125        | 35  | 126  | <b>72207</b> |
| 22 / 7/8"          | 100 - 125        | 55  | 198  | <b>72223</b> |
| 22 / 7/8"          | 100 - 150        | 75  | 438  | <b>72224</b> |
| 22 / 7/8"          | 100 - 150        | 95  | 634  | <b>72226</b> |
| 32 / 1.1/4"        | 100 - 125        | 55  | 228  | <b>72324</b> |
| 32 / 1.1/4"        | 100 - 150        | 75  | 468  | <b>72326</b> |
| <b>8 Blade</b>     |                  |     |      |              |
| 22 / 7/8"          | 125 - 150        | 90  | 1025 | <b>72227</b> |
| 22 / 7/8"          | 125 - 150        | 115 | 1225 | <b>72228</b> |
| 32 / 1.1/4"        | 125 - 200        | 95  | 1108 | <b>72327</b> |
| 32 / 1.1/4"        | 150 - 200        | 115 | 1256 | <b>72328</b> |



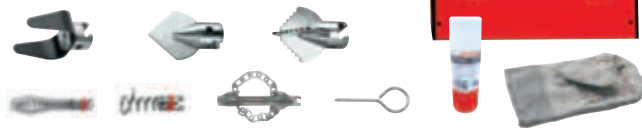
**With Lock Ring!**

# Flushing & Pipe Cleaning

## Drain Cleaning Tools

### Tool Set L

Ø 16 mm, 10 pieces



Set (No. 72936) includes: PVC-case (No. 55016), separating key 16 mm (No. 72100), retrieving auger 16 mm (No. 72162), bulb auger 16 mm (No. 72163), serrated forked cutter 16 mm (No. 72164), blade cutter 16/25 mm (No. 72169), cross-blade cutter 16/45 mm (No. 72177), chain-spinning head 16 mm with 2 smooth chains (No. 72185), guide glove, left (No. 72120), ROWONAL spiral spray (No. 72142)

| Model                                  | No.          |
|--|--------------|
| 16 mm Tool Set L (R 550, R 600, R 650) | <b>72936</b> |

### Tool Set L

Ø 22 mm, 11 pieces



Set (No. 72938) includes: PVC-case (No. 55016), separating key 22 mm (No. 72101), retrieving auger 16 mm (No. 72203), serrated forked cutter 22 mm (No. 72250), spade head cutter 22/65 mm (No. 72261), bulb auger 22 mm (No. 72263), two-way root cutter 22/65 mm (No. 72265), cross-blade cutter 22/65 mm (No. 72276), chain-spinning head 22 mm with 2 smooth chains (No. 72284), guiding glove, left (No. 72120), ROWONAL spiral spray (No. 72142)

| Model                                  | No.          |
|--|--------------|
| 22 mm Tool Set L (R 600, R 650, R 750) | <b>72938</b> |

### Tool Set L

Ø 32 mm, 11 pieces



Set (No. 72940) includes: PVC-case (No. 55016), separating key 22 mm (No. 72101), retrieving auger 32 mm (No. 72325), serrated forked cutter 32 mm (No. 72350), bulb auger 32 mm (No. 72363), two-way root cutter 32/90 mm (No. 72366), cross-blade cutter 32/45 mm (No. 72374), cross-blade cutter 32/90 mm (No. 72376), chain-spinning heads 32 mm with 2 chains with spikes (No. 72347), guide glove, left (No. 72120), ROWONAL spiral spray (No. 72142)

| Model                    | No.          |
|--------------------------|--------------|
| 32 mm Tool Set L (R 750) | <b>72940</b> |

### Tool Set S

Ø 16 mm, 5 pieces

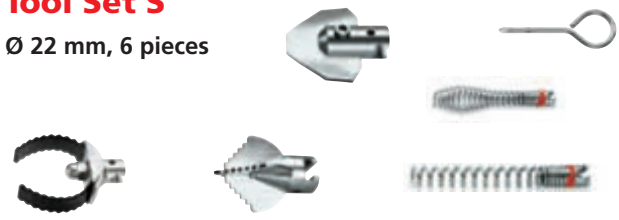


Set (No. 72937) includes: Separating pin 16 mm (No. 72100), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16 mm (No. 72169), cross-blade cutter 16 mm (No. 72175)

| Model                                  | No.          |
|--|--------------|
| 16 mm Tool Set S (R 550, R 600, R 650) | <b>72937</b> |

### Tool Set S

Ø 22 mm, 6 pieces



Set (No. 72939) includes: Separating pin 22 mm (No. 72101), straight auger 22 mm (No. 72221), serrated forked cutter 22 mm (No. 72250), spade head cutter 22 mm (No. 72261), bulb auger 22 mm (No. 72263), cross-blade cutter 22 mm (No. 72276)

| Model                                  | No.          |
|--|--------------|
| 22 mm Tool Set S (R 600, R 650, R 750) | <b>72939</b> |

### Tool Set S

Ø 32 mm, 4 pieces



Set (No. 72941) includes: Separating key 22 mm (No. 72101), straight auger 32 mm (No. 72321), bulb auger 32 mm (No. 72363), cross-blade cutter 32 mm (No. 72375)

| Model                    | No.          |
|--------------------------|--------------|
| 32 mm Tool Set S (R 750) | <b>72941</b> |

### Spiral Sets

5 x 16 mm spiral in basket, 5 x 22 mm spiral in basket  
4 x 32 mm spiral in basket



| Model          | R 550 | R 600 | R 650 | R 750 | ☑ | No.          |
|----------------|-------|-------|-------|-------|---|--------------|
| 16 mm Standard | ○     | ○     | ○     | ●     | 1 | <b>72060</b> |
| 16 mm SMK      | ○     | ○     | ○     | ●     | 1 | <b>72061</b> |
| 16 mm S        | ○     | ○     | ○     | ●     | 1 | <b>72062</b> |
| 16 mm S-SMK    | ○     | ○     | ○     | ●     | 1 | <b>72063</b> |
| 22 mm Standard | -     | ○     | ○     | ○     | 1 | <b>72040</b> |
| 22 mm SMK      | -     | ○     | ○     | ○     | 1 | <b>72041</b> |
| 22 mm S        | -     | ○     | ○     | ○     | 1 | <b>72042</b> |
| 22 mm S-SMK    | -     | ○     | ○     | ○     | 1 | <b>72043</b> |
| 32 mm Standard | -     | -     | -     | ○     | 1 | <b>72530</b> |
| 32 mm SMK      | -     | -     | -     | ○     | 1 | <b>72531</b> |
| 32 mm S        | -     | -     | -     | 1     | 1 | <b>72532</b> |
| 32 mm S-SMK    | -     | -     | -     | ○     | 1 | <b>72533</b> |

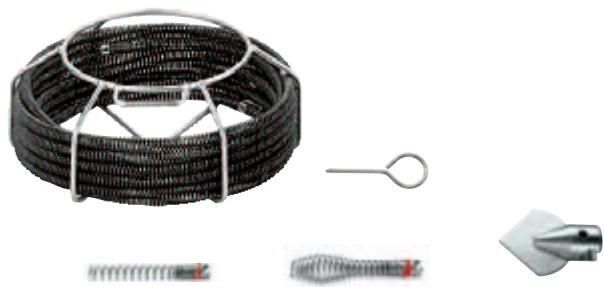
○ = direct attachment ● = with clutch jaw





### Spiral and Tool Sets

Standard Ø 16 mm



Set (No. 072945X) includes: Spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), PVC-case (No. 55016), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), guide glove, left (No. 72120), ROWONAL spiral spray (No. 72142)

| Description    | Model                 | kg   | No.            |
|----------------|-----------------------|------|----------------|
| Standard 16 mm | with standard spirals | 12.0 | <b>072945X</b> |

### Spiral and Tool Sets

Standard Ø 16 / 22 mm



Set (No. 072956X) includes: Spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), PVC-case (No. 55016), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide glove left (No. 72120), ROWONAL spiral spray (No. 72142)

| Description       | Model                 | kg   | No.            |
|-------------------|-----------------------|------|----------------|
| Standard 16-22 mm | with standard spirals | 38.0 | <b>072956X</b> |
| SMK 16-22 mm      | with SMK spirals      | 39.0 | <b>072967X</b> |

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### Spiral and Tool Sets

Standard Ø 22 mm



Set (No. 072955X) includes: Spiral basket 22 mm (No. 72112), 5 x 22 mm standard spirals (No. 72441), PVC-case (No. 55016), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide glove left (No. 72120), ROWONAL spiral spray (No. 72142)

| Description    | Model                 | kg   | No.            |
|----------------|-----------------------|------|----------------|
| Standard 22 mm | with standard spirals | 24.0 | <b>072955X</b> |

### Spiral and Tool Sets

Standard Ø 32 mm



Set (No. 072962X) includes: Spiral basket 32 mm (No. 72111), 5 x 32 mm standard spirals (No. 72451), PVC-case (No. 55016), straight auger 32 mm (No. 72321), retrieving auger 32 mm (No. 72325), funnel auger 32 mm (No. 72322), spade head cutter 32/65 mm (No. 72360), spiral sawtooth cutter 32/65 mm (No. 72329), separating pin 22/32 mm (No. 72101), guide glove, left (No. 72120), ROWONAL spiral spray (No. 72142)

| Description    | Model                 | kg   | No.            |
|----------------|-----------------------|------|----------------|
| Standard 32 mm | with standard spirals | 37.0 | <b>072962X</b> |

### Spirals 8 mm / 10 mm

For ROSPI® H+E PLUS, ROSPI® R 36 PLUS, ROSPIMATIC and adaptor magazine

#### KEY FEATURES

- Heavy duty spiral made out of special steel (DIN EN 10270-1) with integrated bulb auger (except No. 72421, 72423)
- Suitable for ROSPI H + E Plus, ROSPI 36 Plus, ROSPIMATIC as well as with adaptor R 550, R 600, R 650
- The wire diameter with an 8 mm spiral averages  $\varnothing$  2 mm, and with 10 mm spirals  $\varnothing$  2.5 mm
- Easy to use, even in tight bends, especially with 8 mm spirals also directly through sink strainers, crosses and drains without having to disassemble the drain or stench tap

| mm  | Wire $\varnothing$ | m    | Type     | Steel core | Use for for ROSPI® | kg  | No.           |
|-----|--------------------|------|----------|------------|--------------------|-----|---------------|
| 6.4 | 2 mm               | 4.5  | -        | -          | R 6                | 0.8 | <b>72522</b>  |
| 8   | 2 mm               | 7.5  | C 1      | -          | R 8 - R 36         | 1.8 | <b>72412</b>  |
| 8   | 2 mm               | 7.5  | C 1 - IC | ●          | R 8 - R 36         | 2.3 | <b>72413</b>  |
| 8   | 2 mm               | 10.0 | -        | -          | R 8 - R 36         | 2.4 | <b>72414</b>  |
| 8   | 2 mm               | 10.0 | -        | ●          | R 10 - R 36        | 3.0 | <b>72415</b>  |
| 10  | 2.5 mm             | 10.0 | C 5      | -          | R 10 - R 36        | 3.5 | <b>72422</b>  |
| 10  | 2.5 mm             | 7.5  | C 4      | -          | R 10 - R 36        | 2.9 | <b>72420</b>  |
| 10  | 2.5 mm             | 7.5  | C 4 - IC | ●          | R 10 - R 36        |     | <b>72424</b>  |
| 10  | 2.5 mm             | 7.5  | -        | -          | R 10 - R 36        |     | <b>72421*</b> |
| 10  | 2.5 mm             | 7.5  | -        | ●          | R 10 - R 36        | 2.9 | <b>72423*</b> |

\*with T-groove coupling



No. 72413



No. 72421 / No. 72423

### Reducing / Extension Pieces

For spirals with T-coupling

Within limits, tools with larger or smaller lead-ins can also be adapted

| Description     | negative | positive | g   | No.          |
|-----------------|----------|----------|-----|--------------|
| Extension piece | 16 mm    | 22 mm    | 140 | <b>72461</b> |
| Reducing piece  | 22 mm    | 16 mm    | 150 | <b>72460</b> |
| Extension piece | 22 mm    | 32 mm    | 320 | <b>72463</b> |
| Reducing piece  | 32 mm    | 22 mm    | 330 | <b>72462</b> |



No. 72461



No. 72460

### Safety T-Couplings

| Description                         | 16 mm<br>5/8"   | 22 mm<br>7/8"   | 32 mm<br>7/8"    |
|-------------------------------------|-----------------|-----------------|------------------|
| <b>for Standard and SMK spirals</b> |                 |                 |                  |
| positive                            | 20 <b>72150</b> | 40 <b>72210</b> | 100 <b>72310</b> |
| negative                            | 20 <b>72151</b> | 40 <b>72211</b> | 100 <b>72311</b> |
| <b>for S and S SMK spirals</b>      |                 |                 |                  |
| positive                            | 20 <b>72152</b> | 40 <b>72212</b> | 100 <b>72312</b> |
| negative                            | 20 <b>72153</b> | 40 <b>72213</b> | 100 <b>72313</b> |
| <b>for ROPOWER profile cable</b>    |                 |                 |                  |
| positive                            | 20 <b>72156</b> | 40              | 100              |
| negative                            | 20 <b>72157</b> | 40              | 100              |

#### For repairing broken spirals!

for Standard and SMK spirals



No. 72210

No. 72211

for S and S SMK spirals



No. 72212

No. 72213



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### High-Pressure Drain Cleaner

Soiled pipes are flushed using the high-pressure system with up to 200 bar. At the start of cleaning, a cleaning hose is introduced into the pipe. Water is then flushed through the pipe at a pressure dependant on the level of soiling - until the pipe is completely clean.

For the removal of the obstructions and possible deposits there are a number of different nozzles that can be used eg. quattro 3-sided nozzle, the rotating nozzle or the grenade nozzle. Working with these special cleaning nozzles, in addition to water pressure, enables a quiet, quick and precise procedure.

Even the hardest incrustations are loosened and flushed away – without the need for chemicals. By controlling the high-pressure unit with the remote control, the operator can continue working without any interruption.

High-pressure cleaning is an efficient and cost-effective solution for obstructions in ground pipes, for soil and rain water as well as for pipes that transport grease, and for the removal of roots. This method is therefore used for land drainage, gutters, courtyard drainage, rain-water downpipes, rainwater canals, etc.

**Efficient and cost-effective solution for obstructions in ground pipes!**



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HD 19/180B from the HD series



ROJET 30/130 from the ROJET series



ROJET 40/100 from the ROJET series





# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### High-Pressure Drain Cleaner

High-quality professional unit Ø 40 – 200 mm working range

#### Product Profile

##### KEY FEATURES

- Wide range of high-pressure cleaners for professional use. High-quality components and an optimum ratio between power density and operating pressure guarantees reliable operation and effective cleaning
- For cleaning pipes, drains, rainwater downpipes, domestic connections, cleaning work in sewers as well as surface cleaning of vehicles, machines, buildings and floor tiles
- High-performance, self-priming compact unit

#### TECHNICAL DATA

##### Continuous pressure regulation:

Pump with 3 ceramic plungers running in an oil bath, run-dry protection, stainless steel valves, brass pump housing, leakage return flow, pressure gauge with bar/psi scale, self priming up to 2 m

##### With integrated suction injector (all versions):

External supply of cleaning agents

##### High operational safety: No damage to the high-pressure seal

|                               |                          |
|-------------------------------|--------------------------|
| <b>HD 11 / 90 for pipe:</b>   | Ø 40 - 150 mm, max. 20 m |
| <b>HD 13 / 100 for pipe:</b>  | Ø 40 - 150 mm, max. 20 m |
| <b>HD 17 / 190 for pipe:</b>  | Ø 40 - 200 mm, max. 40 m |
| <b>HD 19 / 180B for pipe:</b> | Ø 40 - 150 mm, max. 40 m |

### HD 11/90

Self-priming compact unit from Ø 40 – 150 mm up to 20 m length



Ø 150 mm!



#### Product Profile

##### KEY FEATURES

- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

##### TECHNICAL DATA

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Max. operating pressure:</b> | 90 bar                  |
| <b>Electric motor:</b>          | AC supply               |
| <b>Pump delivery:</b>           | 11 l/min                |
| <b>Rating:</b>                  | 1.5 kW                  |
| <b>Max. working length:</b>     | 20 m                    |
| <b>Speed:</b>                   | 1,400 min <sup>-1</sup> |

Scope of delivery: HD 11 / 90 (No. 76008), 10 m special high-pressure hose with couplings (No. 72810) and pipe cleaning nozzle (No. 76053)

Model 230 V / 50 Hz

High-pressure pipe cleaning unit HD 11 / 90 29.5 **76008**

### HD 13/100

100 bar high-pressure pipe cleaning unit with hose reel



Ø 150 mm!



#### Product Profile

##### KEY FEATURES

- Air-filled transport wheels, easy to navigate stairs
- AC supplied, self-priming up to 2 m

##### TECHNICAL DATA

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Max. operating pressure:</b> | 100 bar                 |
| <b>Electric motor:</b>          | AC supply               |
| <b>Pump delivery:</b>           | 13 l/min                |
| <b>Rating:</b>                  | 2.3 kW                  |
| <b>Max. working length:</b>     | 20 m                    |
| <b>Speed:</b>                   | 1,400 min <sup>-1</sup> |

Scope of delivery: HD 13 / 100 (No. 76020), hose reel with 20 m special high-pressure hose (No. 72812) with couplings and pipe cleaning nozzle (No. 76089)

Model 230 V / 50 Hz

High-pressure pipe cleaning unit HD 13 / 100 45.0 **76020**



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### HD 17 / 190

190 bar high-pressure cleaner with three-phase motor



Ø 200 mm



#### Product Profile

##### KEY FEATURES

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

##### TECHNICAL DATA

|   |                                       |
|---|---------------------------------------|
| <b>Max. operating pressure:</b> 190 bar | <b>Electric motor:</b> Three phase    |
| <b>Pump delivery:</b> 17 l/min          | <b>Rating:</b> 5.0 kW                 |
| <b>Max. working length:</b> 40 m        | <b>Speed:</b> 2,800 min <sup>-1</sup> |

Scope of delivery: HD 17 / 190 (No. 76070), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76089)

| Model  | kg   | No.          |
|--|------|--------------|
| High-pressure pipe cleaning unit HD 17 / 190 | 50.0 | <b>76070</b> |

### HD 19 / 180 B

180 bar high-pressure cleaner with petrol motor

Ø 200 mm

Petrol engine!



#### Product Profile

##### KEY FEATURES

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

##### TECHNICAL DATA

|   |                                       |
|---|---------------------------------------|
| <b>Max. operating pressure:</b> 180 bar | <b>Rating:</b> 8.1 kW                 |
| <b>Pump delivery:</b> 19 l/min          | <b>Speed:</b> 1,800 min <sup>-1</sup> |
| <b>Max. working length:</b> 40 m        | <b>Petrol engine:</b> Honda           |
| <b>Tank capacity:</b> 6,5 l             | <b>Consumption:</b> 3.2 l/h           |

Scope of delivery: HD 19 / 180B (No. 76090), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76053)

| Model  | kg   | No.          |
|--|------|--------------|
| High-pressure pipe cleaning unit HD 19 / 180 B | 78.5 | <b>76090</b> |

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### Accessories HD 11/90



| Model  | kg   | No.          |
|--|------|--------------|
| Flexible, high-pressure hose with R 1/4" coupling, DN 6                                  |      |              |
| Length 10 m  | 2.50 | <b>72810</b> |
| Length 20 m  | 4.50 | <b>72812</b> |
| Pipe cleaning nozzle, R1/4", stainless steel   | 0.04 | <b>76053</b> |
| excl. forward jet spray, 4 holes, Ø 25 x 22 mm   |      |              |
| incl. forward jet spray, 5 hole, Ø 25 x 22 mm  | 0.04 | <b>76063</b> |
| Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm   | 0.08 | <b>77503</b> |
| Cleaning lance with wide-angle nozzle  | 1.30 | <b>76073</b> |
| for surface cleaning   |      |              |
| Spare wide-angle nozzle  | 0.01 | <b>76082</b> |
| Injector suction pipe for cleaning agent, only for use with cleaning lance, length 1.2 m | 0.05 | <b>76067</b> |
| Water suction hose for intake from containers, length 3.0 m                              | 0.20 | <b>76066</b> |

### Accessories HD 13/100 – 17/190 – 19/180



| Model   | kg    | No.          |
|---|-------|--------------|
| Flexible, high-pressure hose with R 1/4" coupling                                       |       |              |
| Length 10 m, NW 6 (HD 13/100, HD 17/190)  | 2.50  | <b>72810</b> |
| Length 20 m, NW 6 (HD 13/100, HD 17/190)  | 4.50  | <b>72812</b> |
| Length 40 m, NW 8 (HD 17/190, HD 19/180 B)  | 10.70 | <b>72820</b> |
| Pipe cleaning nozzles R1/4", stainless steel  | 0.04  | <b>76089</b> |
| excl. forward jet spray, 4 hole, Ø 25 x 22 mm   |       |              |
| incl. forward jet spray, 5 holes, Ø 25 x 22 mm  | 0.04  | <b>76065</b> |
| Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm  | 0.08  | <b>77506</b> |
| Cleaning lance with wide-angle nozzle for surface cleaning                              | 1.30  | <b>76068</b> |
| Spare wide-angle nozzle   | 0.01  | <b>76088</b> |
| Injector suction pipe for cleaning agent only for use with cleaning lance, length 1.2 m | 0.05  | <b>76067</b> |
| Water suction hose, length 3.0 m for intake from containers                             | 0.20  | <b>76066</b> |

# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### ROJET® High-Pressure Cleaning Units

#### Professional cleaning units

Innovative cleaning technology that is established on the market. User-friendly construction with an optimum ratio between power density and operational pressure for the best cleaning results. Available in many variations and versions

#### KEY FEATURES

- **Suitable for mounting in or on different vehicle types**  
Free vehicle choice
- **Prevents the pump from over speeding**  
Speed limiting
- **Drain cleaning for pipe diameters from 40 mm**  
Mobile hose reel for small pipe diameters available
- **Independent operation from vehicle engine**  
Low maintenance costs and service times, separate engine, no auxiliary drive required
- **Container design**  
ROJET can be installed in different vehicles at any time

#### KEY FEATURES

- **High service level**  
12-month warranty on motor, pump and hydraulics, guaranteed spare parts service due to series production. Clear differentiation of guarantees for cleaning unit and vehicle manufacturer.
- **Low maintenance, long service life of motor, pump and hydraulics**  
High-quality design, solid construction
- **Permits the use of a lance**  
E.g. for cleaning surfaces, exterior walls, courtyards, vehicles, etc., built-in pressure selection valve

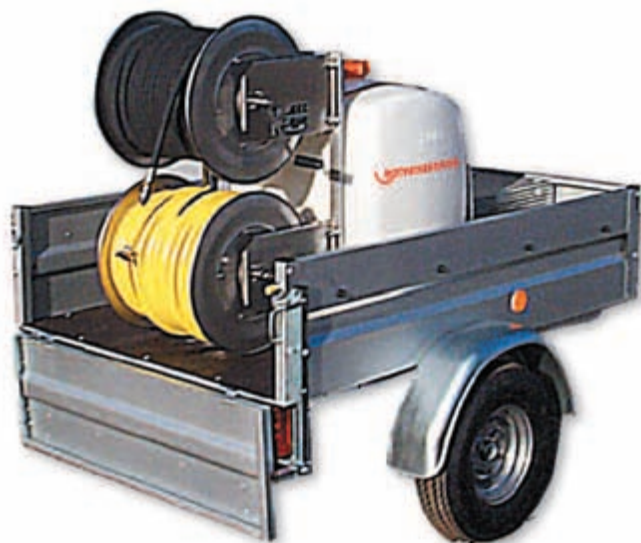
### ROJET® 30/130

High-pressure cleaning unit for pipes from Ø 40 - 200 mm

#### Product Profile

#### TECHNICAL DATA

|                              |   |
|------------------------------|---|
| <b>Motor:</b>                | Tough 4-stroke petrol engine, 1 cylinder, air-cooled, E-Start, rating 9.5 KW (13 HP), normal petrol |
| <b>Starter battery:</b>      | 12 Volt, 36 Ah  |
| <b>High-pressure pump:</b>   | 3-plunger pump, delivery 30 l/min - 130 bar   |
| <b>Water tank:</b>           | Plastic, contains 200 litre   |
| <b>High-pressure reel:</b>   | Stainless steel reel, rotatable water coupling, manual operation                                    |
| <b>Filling reel:</b>         | Stainless steel reel, rotatable water coupling, manual operation                                    |
| <b>High-pressure hose:</b>   | DN 12, length 50 m (R 1/2" coupling)  |
| <b>Filling hose:</b>         | DN 19, length 50 m (R 1/2" coupling)  |
| <b>Included in delivery:</b> | High-performance nozzle 1/2"  |
| <b>Trailer:</b>              | Break-free box trailer  |
| <b>Covering:</b>             | Tarpaulin and frame, height 800 mm  |
| <b>Overall-dimensions:</b>   | 2,520 x 1,480 x 1,700 mm (L x W x H)  |
| <b>Gross vehicle weight</b>  | 550 kg  |
| <b>Included in delivery:</b> | 1 parking stand   |



| Model                                   | kg  | No.          |
|---|-----|--------------|
| ROJET 30/130 basic unit without trailer | 200 | <b>76301</b> |
| ROJET 30/130 basic unit with trailer    | 290 | <b>76300</b> |
| Nozzle set 30 / 130                     | 6.5 | <b>76462</b> |

Includes: Nozzle holder (No. 76309), standard nozzle with forward jetting (No. 77601), grenade nozzle (No. 77631), 3-sided Quattro nozzle (No. 77611)

For other extras/optional equipment, please see the table on 240

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# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

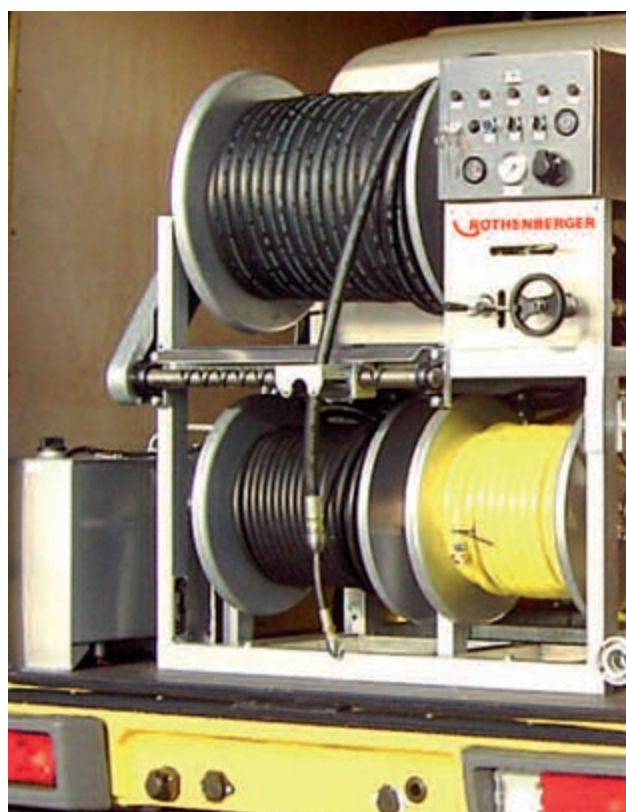
### ROJET® 40/100

High-pressure cleaning unit for pipes Ø 40 - 200 mm



### ROJET® 130/160

High-pressure drain cleaning unit for professional use



8

#### Product Profile

##### TECHNICAL DATA


|                            |  |
|----------------------------|--|
| <b>Main frame:</b>         | Profiled steel, hot-galvanised   |
| <b>Engine:</b>             | 4-stroke petrol engine, 1 cylinder air cooled, electric starter, automatic speed control, rating 9.5kw (13HP), Normal fuel |
| <b>Pump:</b>               | 3-plunger type, delivery 40l/min at 100 bar  |
| <b>Starter battery:</b>    | 12 Volt/36 Ah  |
| <b>Water tank:</b>         | Plastic, 200 Liter   |
| <b>Fuel tank:</b>          | 6 litre  |
| <b>High-pressure reel:</b> | Handwheel, hinge   |
| <b>High-pressure hose:</b> | DN 12, length 50 m, coupling R1/2"   |
| <b>Dimensions:</b>         | 1,200 x 1,000 x 700 mm (L x B x H)   |
| <b>Weight:</b>             | approx. 200 kg   |
| <b>Equipment:</b>          | Water filter, glycerine pressure gauge, pressure switch valve, safety valve, standard nozzle, anti-freeze suction          |

| Model |  kg | No. |
|-------|--|-----|
|-------|--|-----|

|              |     |              |
|--------------|-----|--------------|
| ROJET 40/100 | 200 | <b>76100</b> |
|--------------|-----|--------------|

|                   |     |              |
|-------------------|-----|--------------|
| Nozzle set 40/100 | 6.5 | <b>76462</b> |
|-------------------|-----|--------------|

includes: nozzle holder (No. 76309), standard nozzle with forward jetting (No. 77602), grenade nozzle (No. 77632), rotary nozzle (No. 77622), flat nozzle (No. 77642), 3-sided Quattro nozzle (No. 77612)

For other extras/optional equipment, please see the table on  240


#### Product Profile

##### TECHNICAL DATA

|                                  |  |
|----------------------------------|--|
| <b>Main frame:</b>               | Profiled steel, hot-galvanised, partially coated   |
| <b>Engine:</b>                   | Diesel engine, 4-cylinder, water cooled, turbocharger, automatic speed control, rating 44 KW (60 HP)   |
| <b>Pump:</b>                     | 3-plunger pump, delivery 128 l/min at 160 bar  |
| <b>Starter battery:</b>          | 12 Volt/36 Ah  |
| <b>Large High-pressure reel:</b> | Hydraulic drive, continuously adjustable with HD hose DN 19, length 80 meters  |
| <b>Small High-pressure reel:</b> | Hydraulic drive, continuously adjustable with HD hose DN 12, length 80 meters  |
| <b>Filling reel:</b>             | Manual operation, with filling hose DN19, length 50 meters   |
| <b>Water tank:</b>               | Plastic, 800 l. Other sizes available  |
| <b>Fuel tank:</b>                | Capacity 27 litre  |
| <b>Dimensions:</b>               | 2,300 x 1,400 x 1,360 mm (L x W x H). Suitable for the Mercedes Sprinter and similar vehicles  |
| <b>Weight:</b>                   | approx. 900 kg   |
| <b>Equipment:</b>                | Run-dry protection, water filter, water level indicator, glycerine pressure gauge, safety valve with unloader function, C-connector, anti-freeze exhaust, pressure switch lever, 2 standard nozzles, control box with control lights, ignition lock, operating hour counter and fuel gauge |

| Model |  kg | No. |
|-------|--|-----|
|-------|--|-----|

|               |     |              |
|---------------|-----|--------------|
| ROJET 130/160 | 900 | <b>76485</b> |
|---------------|-----|--------------|

For other extras/optional equipment, please see the table on  240

# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### ROJET® 50/120 – 60/140 – 85/160 – 100/160 – 100/200 Basic and Comfort

#### Product Profile

##### KEY FEATURES

- **Maintenance friendly, long service life of motor, pump and hydraulics**  
High-quality design, solid construction
- **Use with cleaning lance**  
E.g. for cleaning surfaces, exterior walls, courtyards, vehicles, etc. Built-in pressure selection valve
- 5 different performance versions
- Individual drive unit
- Galvanised main frame
- Easy to use
- Cost-saving building block system

##### TECHNICAL DATA

|                            |   |
|----------------------------|---|
| <b>Main frame:</b>         | Profiled steel, hot-galvanised, partially coated reel supports, fitted  |
| <b>Motor:</b>              | Petrol engine 15 KW / 17 KW, diesel engine 37 KW / 42 KW, E-Start, automatic speed control  |
| <b>Pump:</b>               | 3-plunger pump, delivery 50-100 l/min at 120-200 bar  |
| <b>Starter battery:</b>    | 12 Volt / 36 Ah   |
| <b>High-pressure reel:</b> | Hydraulic reel gear   |
| <b>High-pressure hose:</b> | 50/120 - 85/160 DN 12, length: 80 m, 100/150 and 100/200 DN 16, length: 80 m  |
| <b>Filling reel:</b>       | Manual and hydraulic (optional)   |
| <b>Filling hose:</b>       | DN 19, length: 50 m   |
| <b>Water tank:</b>         | Plastic, ROJET 50/120 and 60/140, capacity 400 litres, ROJET 85/160 - 100/200, capacity 800 litres, other sizes available   |
| <b>Equipment:</b>          | Run-dry protection, instrument panel with ignition switch, operating hours counter, fuel gauge and engine control lamps. water level indicator with acoustic signal, automatic diesel level indicator, manual hose guide, water filter with cut-off cock, safety valve with unloader function 3-way pressure selector tap, glycerine pressure gauge, cover of the drive unit is made of aluminium-corrugated sheet metal continuous speed and pressure adjustment, additional filling possibilities using C-coupling, water level indicator over plexi-glass tube, 1 standard nozzle. |



| Model                | kg  | No.          |
|----------------------|-----|--------------|
| ROJET® 50/120 Basic  | 420 | <b>76540</b> |
| ROJET® 60/140 Basic  | 440 | <b>76541</b> |
| ROJET® 85/160 Basic  | 800 | <b>76542</b> |
| ROJET® 100/160 Basic | 810 | <b>76543</b> |
| ROJET® 100/200 Basic | 810 | <b>76544</b> |



| Model                  | kg  | No.          |
|------------------------|-----|--------------|
| ROJET® 50/120 Comfort  | 450 | <b>76320</b> |
| ROJET® 60/140 Comfort  | 470 | <b>76321</b> |
| ROJET® 85/160 Comfort  | 820 | <b>76322</b> |
| ROJET® 100/160 Comfort | 830 | <b>76323</b> |
| ROJET® 100/200 Comfort | 830 | <b>76324</b> |





# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning



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### ROJET®

#### Optional equipment

Remote control and other optional equipment is available, please see table below!

| ROJET®                     |       | 30/130   | 40/100 | 50/120<br>60/140 | 85/160<br>100/160<br>100/200 | 130/160 |
|----------------------------|-------|--|--------|------------------|------------------------------|---------|
|                            | No.   |  |        |                  |                              |         |
| <b>Water tank</b>          |       |  |        |                  |                              |         |
| 800 litres                 | 76220 | n/a  | ●      | ●*               | S                            | S       |
| 1,000 litres               | 76221 | n/a  | ●      | ●*               | ●                            | ●       |
| 2 x 800 litres             | 76222 | n/a  | ●      | ●*               | ●                            | ●       |
| 2 x 1,000 litres           | 76223 | n/a  | ●      | ●*               | ●                            | ●       |
| <b>Remote control</b>      |       |  |        |                  |                              |         |
| Cable, 3-functions         | 76226 | n/a  | n/a    | ●                | ●                            |         |
| Radio, 3-functions         | 76302 | n/a  | n/a    | ●                | ●                            |         |
| Cable, Radio               | 76331 | n/a  | n/a    | ●                | ●                            | ●       |
| <b>Working spot lights</b> |       |  |        |                  |                              |         |
| Base frame                 | 76200 | n/a  | n/a    | ●                | ●                            | ●       |
| Base frame:                | 76232 | n/a  | n/a    | ●                | ●                            | ●       |
| Aluminium floor            | 76228 | Necessary when wheelhouse distance is less than 1.2 meters |        |                  |                              |         |
| <b>Autom. filling stop</b> | 76210 | n/a  | ●      | ●                | ●                            | ●       |

Explanation: n/a = not applicable, ● = additional charge, S = standard, F = possible without additional charge  
\* Only for ROJET 50/120 long version (Type L)



### Standard Nozzle

Made of VA steel

Suitable for the removal of obstructions or for flushing pipes and drains

**All-purpose standard nozzle:  
versatile – flexible – hard-working!**



| Model              | Coupling | Ø x L mm | kg   | No.          |
|--------------------|----------|----------|------|--------------|
| For ROJET® 30/130  | R 1/2"   | 30 x 50  | 0.12 | <b>76135</b> |
| For ROJET® 40/100  | R 1/2"   | 30 x 50  | 0.12 | <b>76141</b> |
| For ROJET® 50/120  | R 1/2"   | 30 x 50  | 0.12 | <b>76137</b> |
| For ROJET® 60/140  | R 1/2"   | 30 x 50  | 0.12 | <b>77606</b> |
| For ROJET® 85/160  | R 1/2"   | 30 x 50  | 0.12 | <b>76152</b> |
| For ROJET® 130/150 | R 1/2"   | 30 x 50  | 0.12 | <b>76488</b> |
| For ROJET® 130/150 | R 3/4"   | 40 x 60  | 0.16 | <b>76406</b> |

### Rotating Nozzle

Made of VA steel

High-performance rotating nozzle that is especially suited for use in greasy pipes, for all-round cleaning before TV camera inspection for the removal of light deposits and roots

It is also often used for basic cleaning before reconditioning

- 4 different jet angles  
(propulsion part 25° / pipe 90°, 75° and 60°)
- All-round use
- Guarantees maximum cleaning performance



| Model              | Coupling | Ø x L mm | kg   | No.          |
|--------------------|----------|----------|------|--------------|
| For ROJET® 30/130  | R 1/2"   | 30 x 50  | 0.55 | <b>77621</b> |
| For ROJET® 40/100  | R 1/2"   | 30 x 50  | 0.55 | <b>77622</b> |
| For ROJET® 50/120  | R 1/2"   | 30 x 50  | 0.55 | <b>77623</b> |
| For ROJET® 60/140  | R 1/2"   | 30 x 50  | 0.55 | <b>77626</b> |
| For ROJET® 85/160  | R 1/2"   | 30 x 50  | 0.55 | <b>77624</b> |
| For ROJET® 100/150 | R 1/2"   | 30 x 50  | 0.55 | <b>77566</b> |
| For ROJET® 130/150 | R 1/2"   | 30 x 50  | 0.55 | <b>76492</b> |
| For ROJET® 130/150 | R 3/4"   | 40 x 110 | 0.72 | <b>76427</b> |

### Quattro 3-sided Nozzle

Made of VA steel

Support the quick removal of tough obstructions through ripping, cutting and drilling. Additionally, it can be used in cleaning away pipe pressing residues

- Nozzle with 3-sided point
- With 4 forward-facing high-pressure jets. (M5 grub screws)



| Model              | Coupling | Ø x L mm | kg   | No.          |
|--------------------|----------|----------|------|--------------|
| For ROJET® 30/130  | R 1/2"   | 30 x 50  | 0.11 | <b>77611</b> |
| For ROJET® 40/100  | R 1/2"   | 30 x 50  | 0.11 | <b>77612</b> |
| For ROJET® 50/120  | R 1/2"   | 30 x 50  | 0.11 | <b>77613</b> |
| For ROJET® 60/140  | R 1/2"   | 30 x 50  | 0.11 | <b>77616</b> |
| For ROJET® 85/160  | R 1/2"   | 30 x 50  | 0.11 | <b>77614</b> |
| For ROJET® 100/150 | R 1/2"   | 30 x 50  | 0.11 | <b>77565</b> |
| For ROJET® 100/200 | R 1/2"   | 30 x 50  | 0.11 | <b>77530</b> |
| For ROJET® 130/150 | R 1/2"   | 30 x 50  | 0.11 | <b>76489</b> |
| For ROJET® 130/150 | R 3/4"   | 40 x 70  | 0.14 | <b>76410</b> |

### Grenade Nozzle with Traction Jet

Made of VA steel

Cleaning nozzle with a high cleaning efficiency for professional use in drains with a maximum diameter of 300 mm.

- Optimised water flow, flexible, with high power traction



| Model                             | Coupling | Ø x L mm | kg    | No.          |
|-----------------------------------|----------|----------|-------|--------------|
| For ROJET® 30/130                 | R 1/2"   | 60 x 95  | 0.136 | <b>77631</b> |
| For ROJET® 40/100                 | R 1/2"   | 60 x 95  | 0.136 | <b>77632</b> |
| For ROJET® 50/120                 | R 1/2"   | 60 x 95  | 0.136 | <b>77633</b> |
| For ROJET® 60/140                 | R 1/2"   | 60 x 95  | 0.136 | <b>77636</b> |
| For ROJET® 85/160                 | R 1/2"   | 60 x 95  | 0.136 | <b>77634</b> |
| For ROJET® 100/200                | R 1/2"   | 60 x 95  | 0.136 | <b>76172</b> |
| For ROJET® 130/150                | R 1/2"   | 60 x 95  | 0.136 | <b>76490</b> |
| For ROJET® 85/160R 3/4" - R 1/2"  | R 1/2"   | 70 x 105 | 0.136 | <b>76193</b> |
| For ROJET® 100/200R 3/4" - R 1/2" | R 1/2"   | 70 x 105 | 0.136 | <b>76179</b> |
| For ROJET® 130/150R 3/4" - R 1/2" | R 1/2"   | 70 x 105 | 0.177 | <b>76416</b> |



# Flushing & Pipe Cleaning

## Accessories High-Pressure Drain Cleaning

### Flat Nozzle

Made of VA steel

The wedged-shaped flat nozzles main purpose is for bottom cleaning and the removal of sand and debris. Furthermore, the flat nozzle is excellent for negotiating large passages and transporting heavy residue

- Utmost traction, light jetting effect (approx. 2")
- Demonstrative cleaning performance
- Optimum nozzle alignment (M 6 grub screws)



| Model              | Coupling | Ø x L mm  | kg   | No.          |
|--------------------|----------|-----------|------|--------------|
| For ROJET® 30/130  | R 1/2"   | 70 x 120  | 2.95 | <b>76170</b> |
| For ROJET® 40/100  | R 1/2"   | 70 x 120  | 2.95 | <b>76157</b> |
| For ROJET® 50/120  | R 1/2"   | 70 x 120  | 2.95 | <b>77643</b> |
| For ROJET® 60/140  | R 1/2"   | 70 x 120  | 2.95 | <b>76233</b> |
| For ROJET® 85/160  | R 1/2"   | 70 x 120  | 2.95 | <b>77644</b> |
| For ROJET® 100/150 | R 1/2"   | 70 x 120  | 2.95 | <b>76234</b> |
| For ROJET® 100/200 | R 1/2"   | 70 x 120  | 2.95 | <b>76161</b> |
| For ROJET® 130/160 | R 1/2"   | 70 x 120  | 2.95 | <b>76235</b> |
| For ROJET® 130/160 | R 3/4"   | 100 x 160 | 3.84 | <b>76236</b> |

### Rotor Trench Nozzle

Made of VA steel

Suitable for the removal of hard deposits and tough roots, high torsion with the turbine drive

- Multiple uses
- Best cleaning results



| Model                             | Coupling     | kg  | No.          |
|-----------------------------------|--------------|-----|--------------|
| Rotor trench nozzle ROJET® 50/120 | R 3/4-R 1/2" | 3.4 | <b>76453</b> |
| Rotor trench nozzle ROJET® 60/140 | R 3/4-R 1/2" | 3.6 | <b>77666</b> |

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### Nozzle Assortment

Professional nozzle sets for ROJET

The nozzle assortment that is arranged for the professional, ensures a wide range of use and guarantees effective cleaning



Example for ROJET 40/100. Satz No. 76463

| Model                               | Coupling | kg   | No.          |
|-------------------------------------|----------|------|--------------|
| For ROJET® 30/130                   | R 1/2"   | 5.10 | <b>76462</b> |
| For ROJET® 40/100                   | R 1/2"   | 5.10 | <b>76463</b> |
| For ROJET® 50/120                   | R 1/2"   | 5.10 | <b>76464</b> |
| For ROJET® 60/140                   | R 1/2"   | 5.10 | <b>77650</b> |
| For ROJET® 85/160                   | R 1/2"   | 5.10 | <b>76465</b> |
| For ROJET® 100/150                  | R 1/2"   | 5.10 | <b>76466</b> |
| For ROJET® 100/200                  | R 1/2"   | 5.10 | <b>76470</b> |
| For ROJET® 130/160                  | R 1/2"   | 5.10 | <b>76495</b> |
| For ROJET® 130/160                  | R 3/4"   | 6.63 | <b>76467</b> |
| Nozzle holder                       | 50 x 370 | 1.28 | <b>76309</b> |
| for nozzle assortment with 5 x 1/2" |          |      |              |

### High-pressure Cleaning Lance

The built-in ROJET pressure selection valve enables use with a cleaning lance

- Complete with R 1/2" threaded coupling
- Flat jet nozzle insert for channel, surface and component cleaning. Included in delivery



No. 76187



No. 76189

| Model   | kg   | No.          |
|---|------|--------------|
| For ROJET® 40/100 - 50/120 - 30/130             | 0.28 | <b>76187</b> |
| For ROJET® 85/160                               | 3.10 | <b>76189</b> |
| For ROJET® 100/200                              | 3.20 | <b>76166</b> |
| For ROJET® drain cleaning units please see  237 |      |              |

### High-Pressure Hose

- Highly flexible
- Complete with couplings



| Nominal diameter<br>mm | Coupling | $\overset{L}{\text{m}}$ | $\text{kg}$ | No.          |
|------------------------|----------|-------------------------|-------------|--------------|
| 8                      | R1/4"    | 40                      | 9.4         | <b>72820</b> |
| 13                     | R1/2"    | 50                      | 20.0        | <b>76130</b> |
| 13                     | R1/2"    | 80                      | 52.0        | <b>76131</b> |
| 16                     | R1/2"    | 80                      | 67.0        | <b>76119</b> |

### Suction Injector

Extends the ROJET's range of use and helps to minimise costs.  
Can be operated without a separate pump

- Suitable for all ROJET versions
- R 1/2" hose coupling
- High suction performance



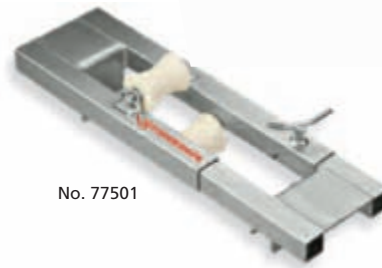
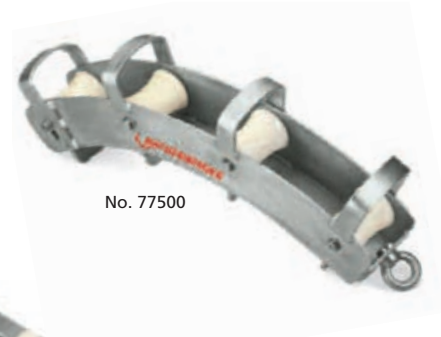
Perfectly suited for the suction cleaning of silted channels, drains, grease separators, etc.!



| Model                                   | $\text{kg}$ | No.          |
|---|-------------|--------------|
| HD-Coupling R1/2". with 6 m spiral hose | 5.50        | <b>76191</b> |

### Deflector Rollers

The use of deflector rollers reduces the wear and tear of high-pressure hoses and therefore extends the service life and helps to minimise costs



| Model                   | $\text{kg}$ | No.          |
|-------------------------|-------------|--------------|
| For bottom manhole edge | 6.2         | <b>77500</b> |
| For bottom manhole edge | 5.0         | <b>77501</b> |

### Hose Reel, mobile

The mobility and range of use of the ROJET is increased when the hose reel is used. Can easily be used without the help of a second person

- Includes professional cleaning nozzles
- Suitable for all ROJET versions
- Inlet R 1/2"



Set (No. 76118) includes: Hose reel with manual crank, shut-off valve and swivel joint, 30 m high-pressure hose DN 8 with coupling R 1/4" (No. 72820), drain cleaning nozzle R 1/4" (No. 76055)

| Model   | $\text{kg}$ | No.          |
|---|-------------|--------------|
| Hose reel, complete with hose                         | 26.5        | <b>76118</b> |
| Hose reel, inlet 1/2" with hose                       | 17.0        | <b>76160</b> |
| 30 m high-pressure hose DN 8, R 1/4" coupling         | 9.40        | <b>72820</b> |
| Drain cleaning nozzle R 1/4", without forward jetting | 0.04        | <b>76055</b> |
| Drain cleaning nozzle R 1/4", with forward jetting    | 0.04        | <b>76065</b> |
| Rotating nozzle R 1/4", 45°                           | 0.08        | <b>77506</b> |







ROTHENBERGER

500 kg



ROTHENBERGER

# ROWELD®

## Plastic Pipe Welding

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### Cutting Electric

Orbital Circular Saw 249

### Socket Welding

Socket Welding Unit 250 - 252

### Hot Gas Welding

Hot Gas Welding Unit 253

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# Plastic Pipe Welding

## Cutting Manual

### ROCUT® 110 / ROCUT® 160

Cutting and chamfering tool for right-angled cutting and chamfering (15°), Ø 32 - 160 mm



#### Product Profile

##### APPLICATION AREA

Suitable for thin and thick-walled PVC, PE, PP, PEX, PB and PVDF pipes, as well as sound-insulated drain pipes. Utmost precision in a single operation

##### KEY FEATURES

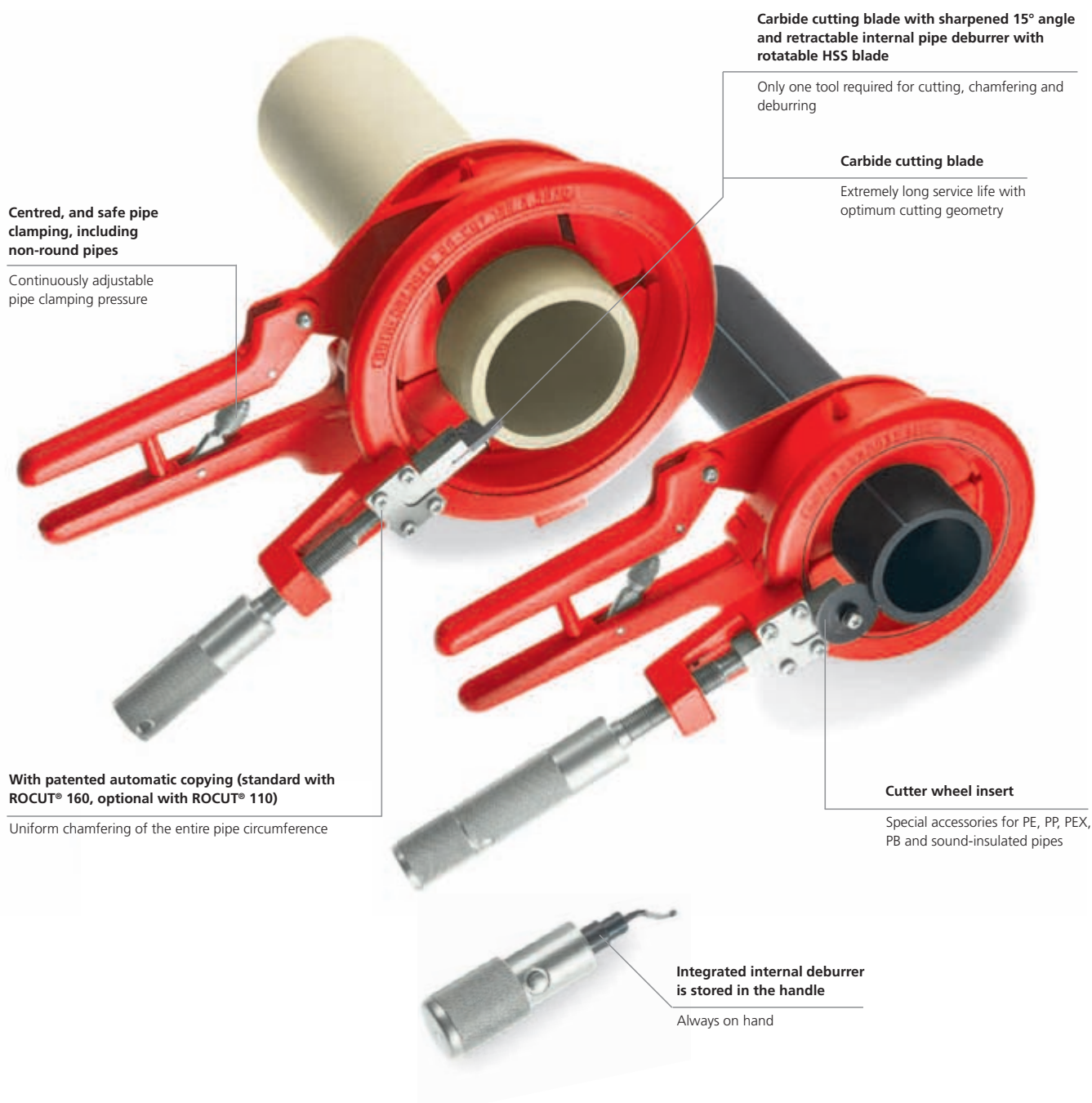
- Only one tool required for cutting, chamfering and deburring
- Extremely long service life with optimum cutting geometry
- Special accessories for PE, PP, PEX, PB and sound-insulated pipes

##### KEY FEATURES

- Uniform chamfering of the entire pipe circumference
- Continuously adjustable pipe clamping pressure
- Integrated internal deburrer is stored in the handle
- Pipe cutting also possible without chamfering, as cutter blade shaft can be mounted with 180° offset

##### TECHNICAL DATA

ROCUT® 110: Ø 32 - 110 mm  
ROCUT® 160: Ø 110 - 160 mm





### ROCUT® 110 / ROCUT® 160 Sets

**ROCUT® 110 Set** (No. 55035) / (No. 55037) includes: ROCUT® 110 (No. 55020), internal deburrer (No. 55018), clamping set 50, 75 and 110 mm, with standard cutter blade shaft and cutter blade insert (No. 55029), cutter wheel (No. 54950) (for sound-insulated pipes), plastic carrying case (No. 55016), with Set (No. 55037) is No. 55029 not included

**ROCUT® 160 Set** (No. 55063) includes: ROCUT® 160 (No. 55030), internal deburrer (No. 55018), 2 clamping sets, cutter blade shaft with copying and, HM cutter blade insert (No. 55019), plastic carrying case (No. 55017)



No. 55035



No. 55063

Handheld operation



Clamping in a parallel vice



ROCUT® 160 with cutter wheel



ROCUT® 110 with cutter blade (No. 54950) (special accessories)



| Model                                    | Working range Ø mm | kg  | No.          |
|--|--------------------|-----|--------------|
| ROCUT® 110 set                           | 50, 75, 110        | 3.9 | <b>55035</b> |
| ROCUT® 110 set for sound-insulated pipes | 58, 78, 110        | 3.9 | <b>55037</b> |

| Model          | Working range Ø mm | kg  | No.          |
|----------------|--------------------|-----|--------------|
| ROCUT® 160 set | 110, 125, 160      | 5.6 | <b>55063</b> |

### ACCESSORIES

| Model                                | g     | No.          |
|--------------------------------------|-------|--------------|
| Cutter blade for internal deburrer   | 10    | <b>21652</b> |
| Plastic carrying case for ROCUT® 110 | 850   | <b>55016</b> |
| Plastic carrying case for ROCUT® 160 | 1,400 | <b>55017</b> |
| Internal deburrer with blade         | 150   | <b>55018</b> |

You'll find clamping jaw sets on 248



# Plastic Pipe Welding

## Cutting Manual



No. 55020

ROCUT® 110 with cutter wheel (No. 54950) (special accessories)



### ROCUT® 110

#### Basic unit Ø 32 - 110 mm

For use with clamping sets Ø 32 - 100 mm, without internal deburrer, with standard cutter blade shaft and cutter blade (No. 55029)

| Model                 | mm  | g     | No.          |
|-----------------------|-----|-------|--------------|
| Basic unit ROCUT® 110 | 110 | 2,450 | <b>55020</b> |
| Clamping set*         | 100 | 110   | <b>55048</b> |
| Clamping set*         | 90  | 150   | <b>55021</b> |
| Clamping set*         | 80  | 170   | <b>55047</b> |
| Clamping set*         | 78  | 180   | <b>55062</b> |
| Clamping set*         | 75  | 210   | <b>55022</b> |
| Clamping set*         | 63  | 220   | <b>55023</b> |
| Clamping set*         | 58  | 230   | <b>55013</b> |
| Clamping set*         | 56  | 270   | <b>55024</b> |
| Clamping set*         | 50  | 290   | <b>55025</b> |
| Clamping set*         | 40  | 300   | <b>55027</b> |
| Clamping set*         | 32  | 330   | <b>55026</b> |

\* Clamping set (1 set = 2 semi-circular segments)



No. 55030

ROCUT® 160 with cutter blade



### ROCUT® 160

#### Basic unit Ø 110 - 160 mm

Cutter blade shaft with automatic copying and cutter blade (No. 55019), for use with clamping sets Ø 110 - 140 mm, without internal deburrer

| Model                 | mm  | g     | No.          |
|-----------------------|-----|-------|--------------|
| Basic unit ROCUT® 160 | 160 | 3,450 | <b>55030</b> |
| Clamping set*         | 140 | 180   | <b>55031</b> |
| Clamping set*         | 125 | 250   | <b>55032</b> |
| Clamping set*         | 110 | 310   | <b>55033</b> |

\* Clamping set (1 set = 2 semi-circular segments)

9



No. 54960



No. 54961

With automatic copying



No. 55029



No. 55019

### HM Cutter Blade Inserts

#### ROCUT® 110 and ROCUT® 160

| Model   | Cutting depth mm | g   | No.          |
|---|------------------|-----|--------------|
| Cutter blade shaft with Automatic copying and HM cutter blade inserts | 7.5              | 110 | <b>54960</b> |
| Cutter blade shaft with Automatic copying and HM cutter blade inserts | 12.5             | 120 | <b>54961</b> |
| Spare HM cutter blade insert for Cutting and chamfering 15°           | 7.5              | 10  | <b>55029</b> |
| Spare HM cutter blade insert for Cutting and chamfering 15°           | 12.5             | 20  | <b>55019</b> |



No. 54950



No. 055053D



No. 055054D



No. 055074D

### Cutter Wheels

#### ROCUT® 110 and ROCUT® 160

| Model  | Cutting depth mm | g   | No.            |
|--|------------------|-----|----------------|
| Cutter blade shaft with Cutter wheel (No. 55074) | 16.0             | 130 | <b>54950</b>   |
| Spare cutter wheels (2 pcs.)                     | 8.6              | 10  | <b>055053D</b> |
| Spare cutter wheels (3 pcs.)                     | 13.0             | 20  | <b>055054D</b> |
| Spare cutter wheels (2 pcs.)                     | 16.0             | 20  | <b>055074D</b> |

# Plastic Pipe Welding

## Cutting Electric

### ROCUT® UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm



#### Product Profile

##### APPLICATION AREA

For cutting of plastic pipes made of PE, PP and PVC  
For use on the building site or in the workshop

##### KEY FEATURES

- Right-angled cuts with no misalignment
- Exact repeatable cuts with adjustable cutting depth limit and fine setting
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

#### TECHNICAL DATA

|                              |                  |
|------------------------------|------------------|
| <b>Voltage:</b>              | 230 V 50 / 60 Hz |
| <b>Power:</b>                | 1,520 W          |
| <b>Outer pipe diameters:</b> | 160 mm - 355 mm  |
| <b>Smin.:</b>                | 8 mm             |
| <b>Smax.:</b>                | 40 mm            |

**Powerful 1520 W motor with high cutting speed**

Time-saving and efficient operation

**Saw blade guard**

Safe operation

**Central clamping**

Optimum pipe centring

**Adjustable cutting depth with fine setting**

Exact repeatable cuts

No. 55505



No. 55655



**Wide, rubberised clamping and guide rollers**

Right-angled cuts with no misalignment

*Six rubberised clamping & guide rollers ensure right-angled cuts with no misalignment*



*Secure clamping and optimum pipe centering are guaranteed by the central clamping device*



| Model   | kg   | No.          |
|---|------|--------------|
| ROCUT® UKS 160 / 355, complete with HM saw blade (No. 55505), without transport box | 15.4 | <b>55620</b> |
| Spare HM saw blade 180 x 30 mm with spacer  | 0.6  | <b>55505</b> |
| Transport box 700 x 350 x 500 mm  | 17.5 | <b>55655</b> |



# Plastic Pipe Welding

## Socket Welding

### ROWELD® P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm



#### Product Profile

##### APPLICATION AREA

Socket welding unit for use with heating spigots and heating sockets Ø 20 - 63 mm with three simultaneously usable combinations for welding sockets, pipes and fittings up to Ø 63 mm

##### KEY FEATURES

- Increased flexibility and combination options for every day use
- Long service life and according to DVS regulations
- All important information at a glance
- Safe operation with the temperature control as per DVS regulations

##### KEY FEATURES

- Light and handy for fatigue-free use
- Simple to use even in confined spaces
- Floor stand is available at all times

##### TECHNICAL DATA

|                       |   |
|-----------------------|---|
| <b>Power:</b>         | 800 W   |
| <b>Model:</b>         | Thermostatic or electronically controlled         |
| <b>Pipe diameter:</b> | For sockets, pipes and fittings from Ø 20 - 63 mm |
| <b>Voltage:</b>       | 230 V 50 / 60 Hz<br>110 / 115 V 50 / 60 Hz        |

#### 3 holes for mounting heating spigots and heating bushes

Increased flexibility and combination options for every day use

#### Heating spigots and heating bushes (Ø 20 - 63 mm) with high quality PTFE-anti-stick-covering

Long service life and according to DVS regulations

#### Isolator prevents heat transport to the case

Efficient heat protection

#### Control lamps for controls and intervals

All important information at a glance

#### Temperature selector switch for electronic temperature control and monitoring

Process safety thanks to temperature control according to DVS

#### Automatic overheating protection

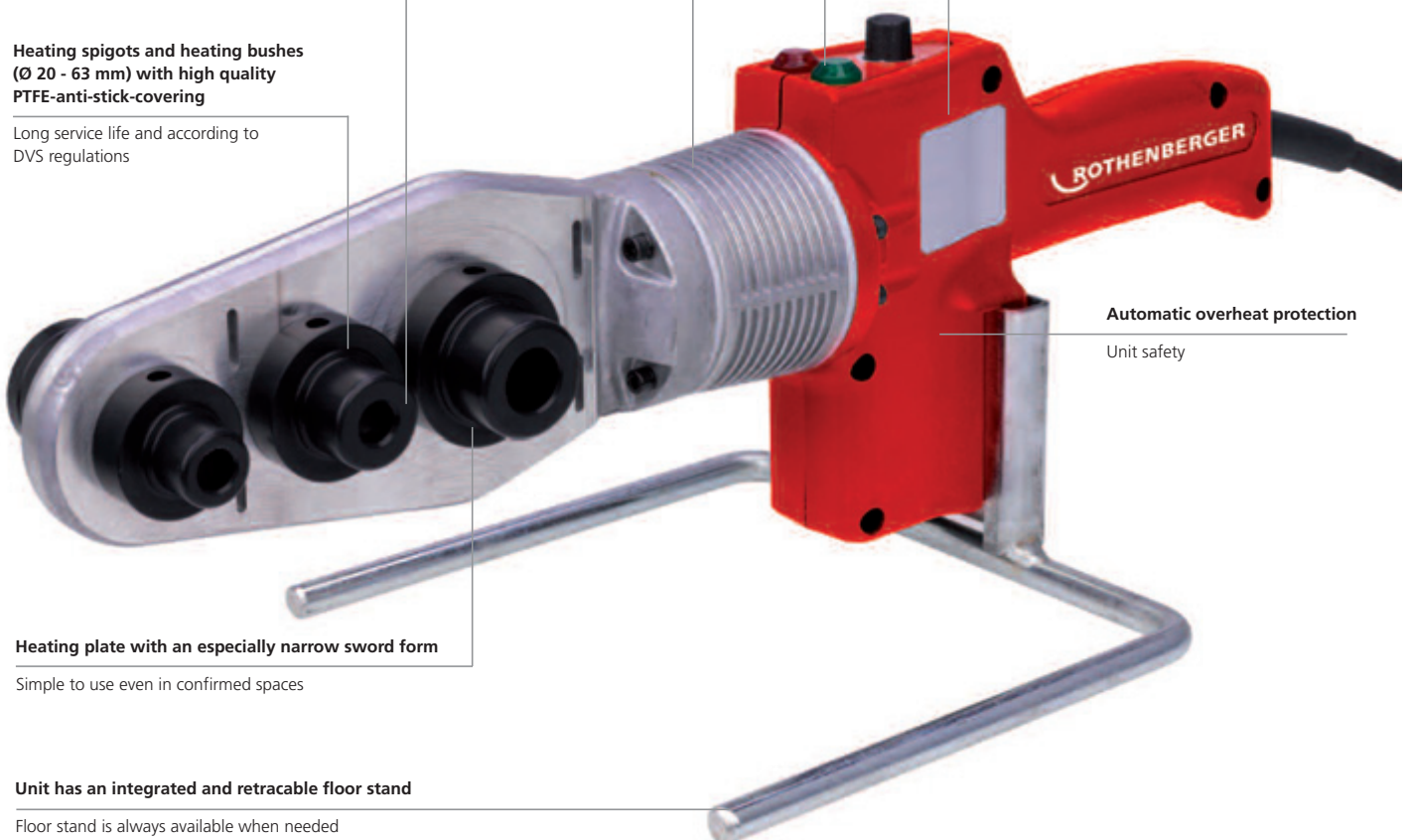
Unit safety

#### Heating plate with an especially narrow sword form

Simple to use even in confined spaces

#### Unit has an integrated and retractable floor stand

Floor stand is always available when needed



# Plastic Pipe Welding

## Socket Welding

### ROWELD® P 63 S-6 Sword Set

P-63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws and table mounting clamp in plastic carrying case

**Electronically controlled for a constant temperature!**



Fig. P 63 S-6, thermostatically controlled



Fig. P 63 S-6, electronically controlled

| Model                | Power Working range Ø mm | Control watts | Description    | kg   | 230 V          | 110/115 V      |
|----------------------|--------------------------|---------------|----------------|------|----------------|----------------|
| P 63 S-6 set         | 20, 25, 32               | 800           | thermostatic   | 4.30 | <b>053892X</b> | <b>053894X</b> |
| P 63 S-6 set         | 20, 25, 32, 40, 50, 63   | 800           | thermostatic   | 5.30 | <b>053893X</b> | <b>053889X</b> |
| P 63 S-6 set         | 20, 25, 32               | 800           | electronically | 4.30 | <b>053890X</b> | <b>053886X</b> |
| P 63 S-6 set         | 20, 25, 32, 40, 50, 63   | 800           | electronically | 5.30 | <b>053891X</b> | <b>053887X</b> |
| P 63 S-6 single unit |                          | 800           | thermostatic   | 1.78 | <b>053897X</b> |                |
| P 63 S-6 single unit |                          | 800           | electronically | 1.78 | <b>053896X</b> |                |

### Heating Spigots & Sockets (Form A) for P 63 S-6

With high-quality non-stick Teflon coating with a long service life and manufactured according to DVS regulations



| Working range Ø mm | g   | No.          |
|--------------------|-----|--------------|
| 20                 | 80  | <b>53511</b> |
| 25                 | 100 | <b>53512</b> |
| 32                 | 170 | <b>53513</b> |

| Working range Ø mm | g   | No.          |
|--------------------|-----|--------------|
| 40                 | 260 | <b>53514</b> |
| 50                 | 370 | <b>53515</b> |
| 63                 | 600 | <b>53516</b> |

P 63 S-6 set thermostatically controlled



Secure workbench operation, integrated holder for the table mounting clamp



# Plastic Pipe Welding

## Socket Welding

### ROWELD® P 125

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp



No. 55321



### ROWELD® P 125 Set (Form A)



In carrying case with socket welding unit (1,300 Watt), heating spigots and sockets, adaptor plate (1 set = 2 plates), allen key size 5, cylinder screws, socket pin, table clamp and floor stand

#### Product Profile

#### KEY FEATURES

- Process reliability with the temperature control according to DVS, CEN and ISO standards
- With high-quality non-stick Teflon coating, long service life and manufactured according to DVS regulations
- Electronic temperature control and monitoring, as well as prevention against unintentional temperature adjustment
- Saves time and money with quick-exchange system for heating plates
- Optimum temperature distribution over the entire working area
- 4 holes for mounting of heating spigots and heating sockets



Set (No. 55546) includes: basic unit, table mounting clamp, heating spigots / heating sockets 63, 75, 90, 100 and 125 mm, steel case

Heating spigots / Heating sockets

Adaptor plate



| Model     | Power watts | mm       | Control Model  | kg    | 230 V<br>50/60 Hz |
|-----------|-------------|----------|----------------|-------|-------------------|
| P 125     | 1,300       | 16 - 125 | electronically | 3.10  | <b>55321</b>      |
| P 125 Set | 1,300       | 63 - 125 | electronically | 17.05 | <b>55546</b>      |

#### Heating Spigots / Heating Sockets

| Model | kg   | No.          | Model | kg   | No.          |
|-------|------|--------------|-------|------|--------------|
| 16    | 0.06 | <b>55585</b> | 40    | 0.26 | <b>55592</b> |
| 17    | 0.06 | <b>55586</b> | 50    | 0.37 | <b>55593</b> |
| 18    | 0.08 | <b>55587</b> | 63    | 0.60 | <b>55594</b> |
| 19    | 0.08 | <b>55588</b> | 75    | 0.89 | <b>55595</b> |
| 20    | 0.08 | <b>55589</b> | 90    | 1.33 | <b>55596</b> |
| 25    | 0.10 | <b>55590</b> | 110   | 2.07 | <b>55597</b> |
| 32    | 0.17 | <b>55591</b> | 125   | 2.33 | <b>55598</b> |

#### ACCESSORIES

| Model  | kg   | No.           | Model                                   | kg   | No.          |
|--|------|---------------|---|------|--------------|
| Table mounting clamp for P 125   | 0.45 | <b>55524</b>  | Floor stand for ROWELD® P 125           | 0.44 | <b>55539</b> |
| Allen key size 6 for P 125   | 0.02 | <b>321215</b> | Socket pin for heating spigot for P 125 | 0.01 | <b>55549</b> |
| Carrying case for ROWELD® P 125 Set  | 4.70 | <b>55555</b>  |   |      |              |
| Allen key size 5, M 6 x 40 for heating spigots / heating bushes and adaptor plate for P 125    |      |               |   | 0.01 | <b>81957</b> |
| Adaptor plate for butt welding ROWELD® P 125 Ø 160 mm (1 set = 2 pcs) non-stick Teflon coating |      |               |   | 1.15 | <b>55536</b> |







### ROWELD® Quick S / WG 1600 E

#### Product Profile

##### APPLICATION AREA

Processing of roofing materials. Welding of sheets, films, tents, in boat building, refuse dump construction. Shrinking of fittings and sleeves in the electrical industry. Repair and processing of plastic parts in automobile repair shops Hot air welding, shaping and shrinking of thermoplastics in the workshop or on building sites

##### KEY FEATURES

- Suitable for continuous operation
- Light, handy and robust
- Welding temperature up to 700° C, continuously adjustable
- Clip-on speed nozzles, no screws
- Easy fitting of the nozzles in all working applications

##### KEY FEATURES

- Service-friendly: Heater assembly easily replaceable
- Ideal for stationary use in the workshop, powerful, light (700 g) and handy hot gas welding unit (WG 1600 E)
- Active device protection for a long service life. In case of an air supply failure, a safety circuit reduces the heating power and switches it off completely after 30 seconds (WG 1600 E)

##### TECHNICAL DATA

**Air requirement:** 80 - 250 l / min  
We recommend the air compressor V 26, (No. 53378) for the WG 1600 E

**Heating element:** heating element with electronic temperature control



No. 55760



No. 55780

| Model   | kg  | 230 V 50 / 60 Hz |
|---|-----|------------------|
| ROWELD® Quick S complete with 5 mm tubular nozzle (No. 55769) | 1.4 | <b>55760</b>     |

| Model   | g   | 230 V 50 / 60 Hz |
|---|-----|------------------|
| ROWELD® WG 1600 E complete with 5 mm tubular nozzle (No. 55769) | 700 | <b>55780</b>     |

### Nozzles and Accessories for Quick S and WG 1600E



| Model  | Part-No. | mm   | g  | No.          |
|--|----------|------|----|--------------|
| Universal tubular nozzle                         | 1        | 5.0  | 40 | <b>55769</b> |
| Wide slot nozzle, angled                         | 2        | 20.0 | 50 | <b>55778</b> |
| Wide slot nozzle                                 | 3        | 40.0 | 60 | <b>55779</b> |
| Speed nozzle for round welding rod               | 4        | 3.0  | 20 | <b>55773</b> |
| Speed nozzle for round welding rod               |          | 4.0  | 20 | <b>55774</b> |
| Speed nozzle for round welding rod               |          | 5.0  | 20 | <b>55775</b> |
| Triangular speed nozzle for profiled welding rod | 5        | 5.0  | 20 | <b>55776</b> |
| Triangular speed nozzle for profiled welding rod |          | 7.5  | 20 | <b>55777</b> |
| Tacking nozzle                                   | 6        | 20   | 20 | <b>55772</b> |
| Shrinkage reflector                              | 7        | 60   |    | <b>55783</b> |

| Model  | Part-No. | g     | No.          |
|--|----------|-------|--------------|
| Pressure roller, 45 mm for overlap welding of sheets   | 8        | 210   | <b>55816</b> |
| Universal scraper set for preparing welded seams (consisting of handle, triangular, heart and multi-shaped blades) | 9        | 210   | <b>53380</b> |
| Phillips screwdriver for nozzle mounting   | 10       | 40    | <b>73152</b> |
| Heating plate 1,500 Watt   | 11       | 80    | <b>55800</b> |
| Spare carbon (1set = 2 pcs.) for Quick S   |          | 10    | <b>55793</b> |
| Reinforced plastic pipe 3 m (f. WG 1600 E)   | 12       | 350   | <b>55782</b> |
| Steel case for ROWELD® HG 1600 E   |          | 4,400 | <b>55799</b> |

# Plastic Pipe Welding

## Electro-Fusion Welding

### ROWELD® ROFUSE Sani 160

Universal electro-fusion welding unit for drainage pipe with welding sockets up to Ø 160 mm



#### Product Profile

##### APPLICATION AREA

Universal electro-fusion welding unit for PE and PP drainage pipe fittings, for 230 V fittings. For the following makes: Geberit, Akatherm-EUR, Coes, Valsir, WAVIN-Duo, Aquatherm and Vulcathene-Euro

##### KEY FEATURES

- Microprocessor-controlled welding unit with automatic temperature compensation of the welding time
- Visual monitoring of the welding process
- Large operating radius
- Robust and impact resistant casing (IP 44)
- Automatic welding parameter settings

##### TECHNICAL DATA

|                             |                     |
|-----------------------------|---------------------|
| <b>Input Voltage:</b>       | 230 V               |
| <b>Tolerance:</b>           | 186 V - 275 V       |
| <b>Frequency:</b>           | 40 Hz - 70 Hz       |
| <b>Output voltage:</b>      | 230 V               |
| <b>Protection class:</b>    | IP 44               |
| <b>Temperature range:</b>   | -5 °C up to + 40 °C |
| <b>Max. Output current:</b> | 5 A                 |
| <b>Weight:</b>              | 1.2 kg              |
| <b>Dimensions:</b>          | 120 x 160 x 77 mm   |
| <b>Welding cable:</b>       | 3 m                 |

#### Microprocessor

Controlled welding unit with automatic temperature compensation

#### Clear, digital display

Visual monitoring of the welding process

#### Impact-resistant casing (IP 44)

Robust

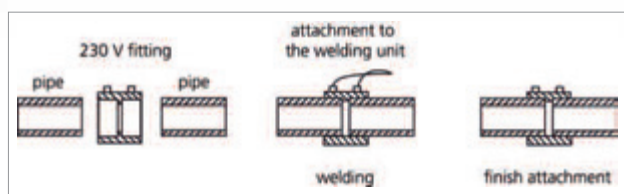
#### 3 m welding cable

Large operating radius

#### Carrying bag



#### Easy to transport



Model



No.

ROWELD® ROFUSE Sani 160 with carrying bag

1.2

54230

# Plastic Pipe Welding

## Electro-Fusion Welding

### ROWELD® ROFUSE

Universal electro-fusion welding unit Ø 630 mm



#### Product Profile

##### APPLICATION AREA

For PE- and PP fittings from < 48 V, up to Ø 710 mm

##### KEY FEATURES

- Data input with the barcode scanner is possible with all ROFUSE units. With ROFUSE+, ROFUSE Print+ and ROFUSE basic 48V, manual data input is also possible
- Simple data transfer via USB port with Rofuse Print+, serial port with the ROFUSE basic 48 V
- Welding monitoring system

##### ROWELD® ROFUSE / ROFUSE+

- Display 4 x 20, characters with 5 mm font size and LED illumination

#### TECHNICAL DATA

|                           |                                       |
|---------------------------|---------------------------------------|
| <b>Input voltage:</b>     | 230 V                                 |
| <b>Tolerance:</b>         | 186 V - 290 V                         |
| <b>Frequency:</b>         | 40 Hz - 70 Hz                         |
| <b>Output voltage:</b>    | 8 V - 48 V                            |
| <b>Protection rating:</b> | IP 54                                 |
| <b>Temperature range:</b> | -20 °C bis + 60 °C                    |
| <b>Weight:</b>            | 16.5 kg                               |
| <b>Dimensions:</b>        | 230 x 295 x 330 mm                    |
| <b>Barcode scanner:</b>   | Yes                                   |
| <b>Logging:</b>           | <b>ROFUSE/ROFUSE+:</b> No             |
|                           | <b>ROFUSE 48 V basic:</b> 500 records |
|                           | <b>ROFUSE Print+:</b> 1,800 records   |

4 x 20 characters with 9 mm font size and LED

User friendly

Via USB port

Simple data transfer

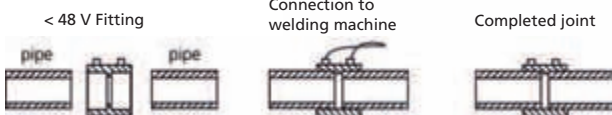
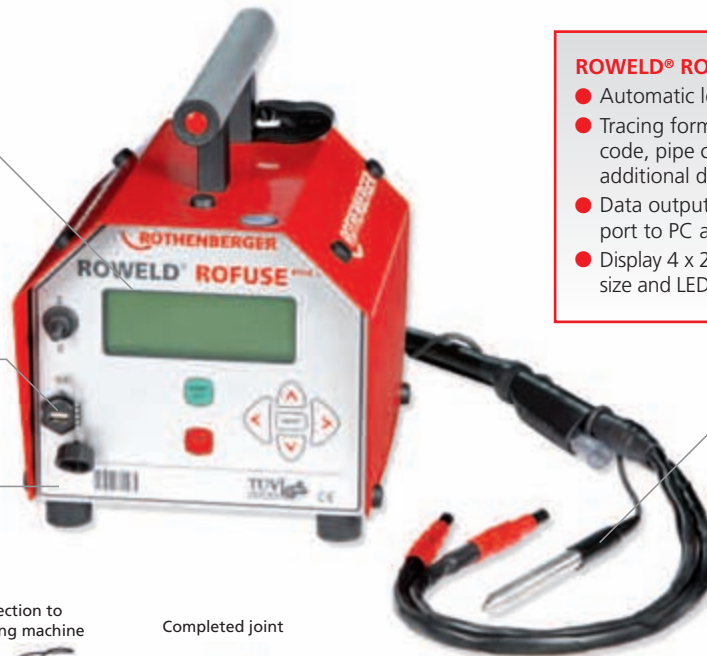
Welding monitoring system

#### ROWELD® ROFUSE Print+:

- Automatic logging for 1,800 welds
- Tracing form: Commission No., ISO welder code, pipe code, 2 fittings code and additional data
- Data output over the print menu via USB port to PC and printer
- Display 4 x 20 characters with 9 mm font size and LED illumination

Barcode scanner

Data input



| Model                             | kg   | No.     |
|-----------------------------------|------|---------|
| ROWELD® ROFUSE                    | 16.5 | 54051   |
| ROWELD® ROFUSE+                   | 16.5 | 54052   |
| ROWELD® ROFUSE 48 V basic         | 16.0 | 54130   |
| ROWELD® ROFUSE Print+             | 16.5 | 054053K |
| ROWELD® ROFUSE Print+ PC-Software | 0.4  | 54056   |

| Model  | kg  | No.   |
|--|-----|-------|
| ROWELD® ROFUSE Print+ PC-Software for WIN 9X/2000/XP/Vista/Win 7 | 0.4 | 54056 |
| Adaptor set FF rund 4.0  | 0.1 | 54058 |
| Adaptor set Pin  | 0.1 | 54059 |
| ROWELD® ROFUSE Print+ DATA Memory                                | 0.3 | 54067 |
| Adaptor set FF flat  | 0.1 | 54057 |
| Aluminium transport case   | 3.1 | 54054 |

### Muffler for Electric Socket Welding

For secure, quick preparation of the pipe, in transport case

| Model   | Description     | No.   |
|---------|-----------------|-------|
| Size I  | DA 32 - DA 110  | 53240 |
| Size II | DA 110 - DA 500 | 53250 |



No. 53240



# Plastic Pipe Welding

## Building Site and Workshop Welding Manual

### ROWELD® P 110

Plastic pipe welding machine Ø 20 - 110 mm



#### Product Profile

##### APPLICATION AREA

For butt welding of pipes and fittings made of PE, PP, PB and PVDF. Particularly suited for installation work and for work in confined spaces - also in pipe networks

##### KEY FEATURES

- Production of segmented bends possible
- Precise pressure adjustment
- Single and double-sided trimming possible

##### KEY FEATURES

- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

##### TECHNICAL DATA

|                       |   |
|-----------------------|---|
| <b>Pipe diameter:</b> | Ø 20 - 90 mm (SDR 41 - SDR 7.25)<br>Ø 20 - 110 mm (SDR 41 - SDR 11) |
| <b>Weight:</b>        | 8.5 kg  |
| <b>Size:</b>          | 450 mm total length   |

Narrow basic clamping elements can be used

Segmented bends can be produced

Wide aluminium reducer clamp inserts (Ø 20 - 90 mm) for pipes and pipe joints

Secure hold and simple axial pipe alignment

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Angles of the wide basic clamping elements adjustable on both sides (15° each)

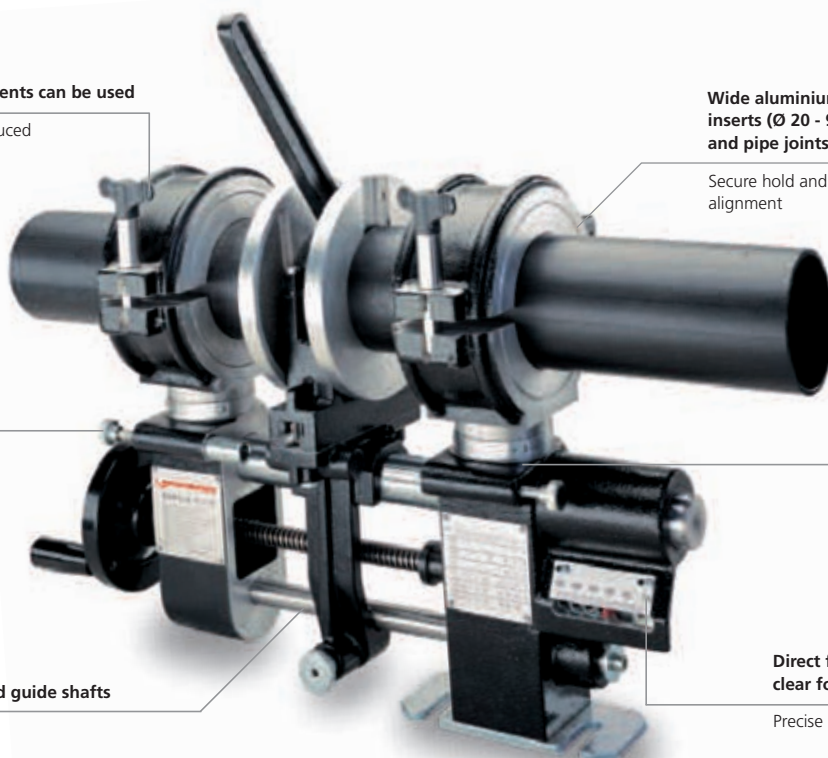
Segmented bends can be produced

Hardened, chrome-plated guide shafts

Absolutely warp-resistant

Direct force transmission and clear force scale

Precise pressure adjustment



9



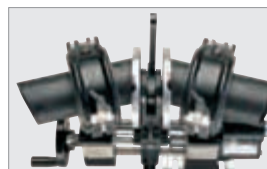
Rectangular heating element



Joints between fittings and pipes with narrow and wide clamping elements



By adjusting the basic clamping element angles on both sides (15° each side) segmented bends can be produced



Scope of delivery (No. 55844): Basic machine (No. 55787) with table mounting brackets, manual trimmer unit (No. 55826), electronically controlled heating plates, basic clamping set R/R (No. 55807) (Ø 110 mm) and basic clamping set R/F, left (No. 55808) (Ø 110 mm), reducer clamping inserts R/R and R/F for Ø 40 - 90 mm, assembly tools, table mounting clamp (No. 55524), transport box (No. 55832)



| Model                  | Working range<br>Ø mm       | Temperature control | kg | 230 V<br>50/60 Hz | 110/115 V<br>50/60 Hz |
|------------------------|-----------------------------|---------------------|----|-------------------|-----------------------|
| ROWELD® P 110 complete | 40, 50, 56, 63, 75, 90, 110 | electronically      | 43 | <b>55844</b>      | <b>55924</b>          |

Accessories can be found on page 259

### ROWELD® P 160 SANILINE

Plastic sanitary pipe welding machine from Ø 40 - 160 mm



**Product Profile**

**APPLICATION AREA**

For butt welding of PP, PB and PVDF pipes and fittings, especially suitable for 45° branches and tight elbows. For use on building sites or in the workshop

**KEY FEATURES**

- Versatile for difficult situations with the removable heating plates
- Secure clamping of pipes, fittings, tight 45° branches and 90° elbows
- Protects against unintentional starting and derailing of the trimmer unit
- Precise pressure adjustment

**KEY FEATURES**

- Minimum drag force
- 40% higher stability with simultaneously optimised force distribution
- All common sanitary installation fittings can be clamped

**TECHNICAL DATA**

**Pipe diameter:** Ø 40 - 110 mm (SDR 41 - 7.25)  
Ø 40 - 140 mm (SDR 41 - 11)  
Ø 40 - 160 mm (SDR 41 - 17.6)

**Weight:** 34.4 kg

**Heating plate:** 800 W

**Trimmer unit:** 1,050 W

Removable heating plate with long service life and manufactured according to DVS, CEN and ISO regulations. High-quality non-stick Teflon coating

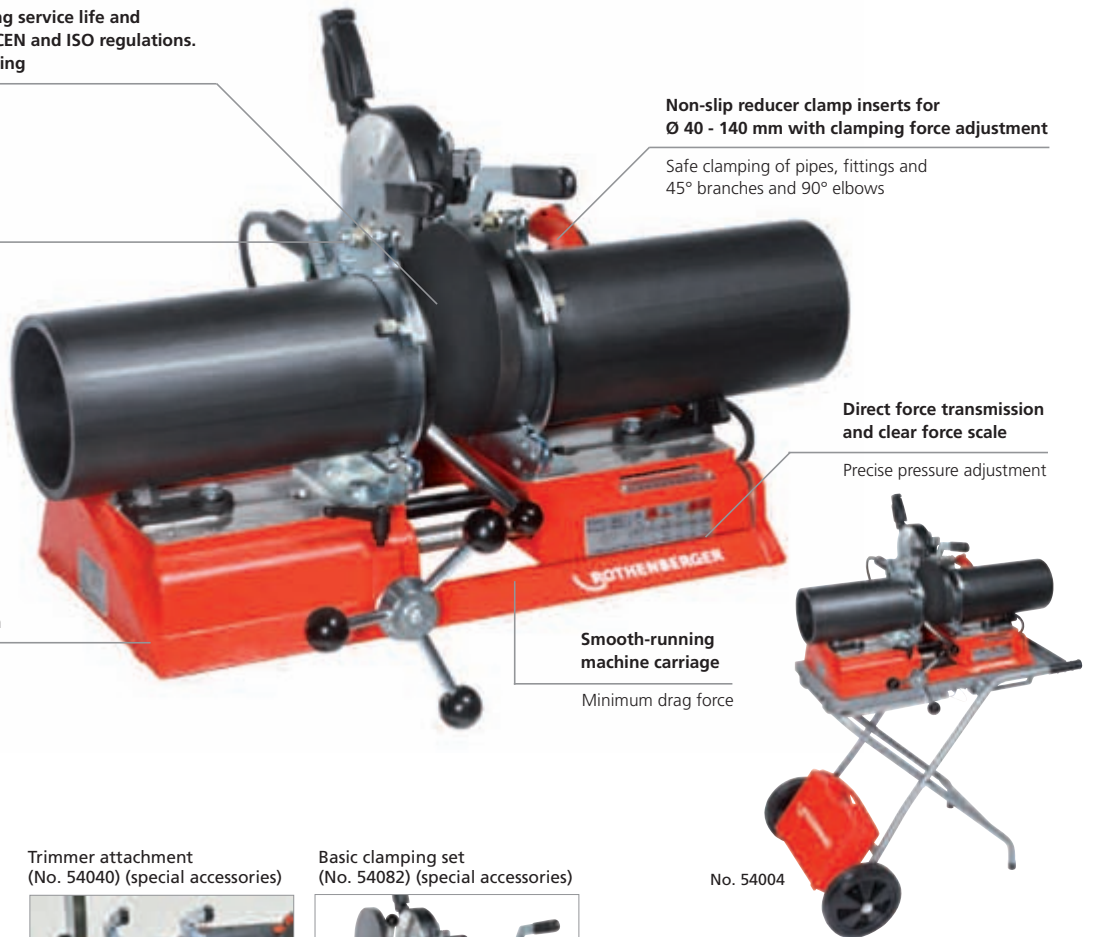
Versatile for difficult situations

Multiple clamping possibilities

All common sanitary installation fittings can be clamped

Revolutionary angled-bed design

Higher stability with simultaneously optimised force distribution



Trimmer attachment (No. 54040) (special accessories)



Basic clamping set (No. 54082) (special accessories)



Scope of delivery (No. 54000/54001): Basic unit with electric trimmer, electrically adjustable heating element, removable. Basic clamping set right and left Ø 160 mm (No. 54082), pipe support Ø 160 mm, reducer clamp and support set for Ø 40, 50, 63, 75, 90, 110 and 125 mm in case (No. 54020), installation tools, mobile work and transport frame (No. 54015)

No. 54004  
Fig. ROWELD® P 160 SANILINE special edition (No. 54004) scope of delivery like No. 54000, except with collapsible transport frame (No. 56051) instead of No. 54015

| Model                                  | Working range<br>Ø mm             | Temperature control | kg   | 230 V<br>50/60 Hz | 110/115 V<br>50/60 Hz |
|--|-----------------------------------|---------------------|------|-------------------|-----------------------|
| ROWELD® P 160 SANILINE complete        | 40, 50, 63, 75, 90, 110, 125, 160 | electronically      | 57.4 | <b>54000</b>      | <b>54001</b>          |
| ROWELD® P 160 SANILINE special edition | 40, 50, 63, 75, 90, 110, 125, 160 | electronically      | 61.2 | <b>54004</b>      |                       |

Accessories can be found on page 260

# Plastic Pipe Welding

## Building Site and Workshop Welding Manual

### ROWELD® P 250 A

Plastic pipe welding machine Ø 40 - 250 mm



#### Product Profile

##### APPLICATION AREA

For use on building sites and in the workshop. Particularly suited for sanitary installations, drain pipe laying as well as chimney reconditioning with PVDF liners

##### KEY FEATURES

- Versatile for difficult situations with the removable heating plates
- Protects against unintentional starting and derailing of the trimmer unit
- Single and double-sided trimming possible
- Warp-resistant for minimum drag and low pressure transfer loss

##### KEY FEATURES

- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

##### TECHNICAL DATA

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Pipe diameter:</b> | Ø 40 - 110 mm (SDR 41 - SDR 7.25) |
|                       | Ø 40 - 125 mm (SDR 41 - SDR 11)   |
|                       | Ø 40 - 200 mm (SDR 41 - SDR 17.6) |
|                       | Ø 40 - 225 mm (SDR 41 - SDR 26)   |
|                       | Ø 40 - 250 mm (SDR 41 - SDR 33)   |
| <b>Weight:</b>        | 36.4 kg                           |
| <b>Trimmer unit:</b>  | 450 W                             |
| <b>Heating plate:</b> | 1,200 W                           |

Electric, high-torque safety trimmer unit (450 watt) locks into place in the working position

Protects against unintentional starting and derailing of the trimmer unit

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Removable heating plate

Versatile for difficult situations



Rugged basic clamping set Ø 250 mm with reducer inserts for Ø 180 - 225 mm plus pipe supports and Ø 160 mm set with reducer inserts for Ø 40 - 140 mm plus pipe supports

Reliable, warp-resistant transfer of the welding pressure

Mounted machine carriage is smooth running, hardened, chrome-plated ball lining driven in guide shaft

Warp-resistant, for minimum drag force and low loss of pressure transfer



Basic machine with electric trimmer unit, holder for heating plate, electronically adjustable heating plate, basic clamping set Ø 160 mm and 250 mm support fork inserts Ø 160 mm and 250 mm, reducer inserts and support fork inserts from Ø 40 - 140 mm and Ø 180 - 225 mm, installation tools, steel transport box 800 x 520 x 765 mm (LxWxH) and steel carrying case for reducer and support fork inserts

|                                |   |                     |                   |                           |
|--------------------------------|---|---------------------|-------------------|---------------------------|
| Model                          | Working range<br>Ø mm                                     | Temperature control | 230 V<br>50/60 Hz | 110/115 V<br>50/60 Hz     |
| ROWELD® P 250 A Set            | 40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250 | electronic          | 131.0             | <b>55795</b> <b>55796</b> |
| ROWELD® P 250 pA basic machine |   |                     | 36.1              | <b>55768</b> <b>55738</b> |

Accessories can be found on page 261



# Plastic Pipe Welding

## Accessories ROWELD® P 110

### ROWELD® P 110 Basic Machine

| Model  | kg  | No.          |
|--|-----|--------------|
| ROWELD® P 110 basic machine<br>with table mounting bracket | 6.8 | <b>55787</b> |



### Basic Clamping Set 110 mm

| Model                                      | kg  | No.          |
|--|-----|--------------|
| For wide/pipe joints (1 set = 2 clamps)    | 2.5 | <b>55807</b> |
| For narrow/fitting joints, left (1 clamp)  | 1.0 | <b>55808</b> |
| For narrow/fitting joints, right (1 clamp) | 1.0 | <b>55809</b> |



No. 55807



No. 55808 / No. 55809

### Reducer Clamping Inserts Wide

Each set includes 4 aluminium half-shells

| mm | kg  | No.          | mm | kg  | No.          |
|----|-----|--------------|----|-----|--------------|
| 20 | 1.9 | <b>55318</b> | 56 | 1.6 | <b>55122</b> |
| 25 | 1.9 | <b>55126</b> | 63 | 1.4 | <b>55121</b> |
| 32 | 1.8 | <b>55125</b> | 75 | 1.6 | <b>55120</b> |
| 40 | 1.7 | <b>55124</b> | 90 | 1.1 | <b>55119</b> |
| 50 | 1.7 | <b>55123</b> |    |     |              |



### Reducer Clamping Inserts Narrow

Each set includes 4 metal half-shells

| mm | kg  | No.          | mm | kg  | No.          |
|----|-----|--------------|----|-----|--------------|
| 20 | 0.6 | <b>55319</b> | 56 | 0.5 | <b>55130</b> |
| 25 | 0.6 | <b>55134</b> | 63 | 0.5 | <b>55129</b> |
| 32 | 0.5 | <b>55133</b> | 75 | 0.4 | <b>55128</b> |
| 40 | 0.5 | <b>55132</b> | 90 | 0.3 | <b>55127</b> |
| 50 | 0.5 | <b>55131</b> |    |     |              |



### Manual Trimmer Unit

| Model                          | kg   | No.          |
|--------------------------------|------|--------------|
| With machine holder            | 1.90 | <b>55826</b> |
| Spare blade (1 set = 2 blades) | 0.05 | <b>55152</b> |



### Heating Plate

With non-stick Teflon coating, 180 x 130 mm, 800 Watt

| Model                     | kg  | 230 V<br>50/60 Hz | 110/115 V<br>50/60 Hz |
|---------------------------|-----|-------------------|-----------------------|
| Electronically controlled | 2,6 | <b>55324</b>      | <b>55918</b>          |
| Table clamp               | 0,7 | <b>55524</b>      | <b>55524</b>          |



### Flange Adaptor Clamping Unit

For centred welding of flanges

| Model                                    | kg    | No.           |
|--|-------|---------------|
| Flange adaptor clamping unit             | 1.50  | <b>55199</b>  |
| Steel carrying case (540 x 345 x 355 mm) | 14.20 | <b>55832</b>  |
| Allen key SW 6                           | 0.03  | <b>321216</b> |
| Allen key SW 8                           | 0.05  | <b>321218</b> |



# Plastic Pipe Welding

## Accessories ROWELD® P 160 SANILINE

### ROWELD® P 160 SANILINE Basic Machine

Basic machine includes: Trimmer unit (1,050 W), heating plate (800 W), basic clamp set Ø160mm pipe supports Ø 160 mm

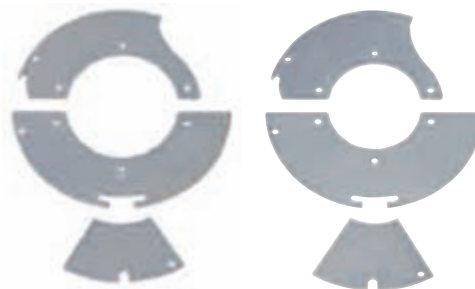


| Model                                   | kg   | 230 V<br>50/60 Hz | 110/115 V<br>50/60 Hz |
|---|------|-------------------|-----------------------|
| ROWELD® P 160 SANILINE<br>Basic machine | 34.4 | <b>54005</b>      | <b>54006</b>          |

### Reducer Clamping Inserts

Set includes: Reducer inserts (4 half-shells), pipe supports

| Nominal size | kg  | No.          | Nominal size | kg  | No.          |
|--------------|-----|--------------|--------------|-----|--------------|
| 40           | 1.6 | <b>54083</b> | 90           | 1.6 | <b>54088</b> |
| 50           | 1.6 | <b>54084</b> | 110          | 1.7 | <b>54089</b> |
| 56           | 1.6 | <b>54085</b> | 125          | 1.5 | <b>54090</b> |
| 63           | 1.6 | <b>54086</b> | 140          | 1.5 | <b>54091</b> |
| 75           | 1.6 | <b>54087</b> |              |     |              |



### Trimmer Adaptor (special accessories)

Ø 40 - 75 mm for trimming 45° branches, replaceable blades

| Model  | kg   | No.          |
|--|------|--------------|
| Trimmer attachment for 45° branches Ø 40 - 75 mm | 0.63 | <b>54040</b> |



### Basic Clamping Set (special accessories)

For outer clamping position, especially for welding pressure pipes, includes 2 basic clamps, left and right, up to Ø 160 mm

| Model                       | kg  | No.          |
|-----------------------------|-----|--------------|
| Basic clamping set Ø 160 mm | 5,3 | <b>54082</b> |



### ROWELD® P 160 SANILINE Conversion Kit

Converting existing ROWELD® P 160 SANILINE with new universal clamp system

Set (No. 54080) includes: Basic clamping set Ø 160 mm left and right, (No. 54082) as well as two reducer clamping sets (left and right) for the diameters 40, 50, 63, 75, 90, 110 and 125 mm

| Model                                       | Working range Ø mm                  | kg    | No.                |
|---|-------------------------------------|-------|--------------------|
| Conversion Kit                              | 40, 50, 63, 75, 90<br>110, 125, 160 | 11.20 | <b>54080</b>       |
| Trolley and transport sub-frame             |                                     | 11.30 | <b>54015</b>       |
| Folding trolley                             |                                     | 20.00 | <b>56051</b>       |
| Steel case for reducer inserts              |                                     | 2.32  | <b>54020</b>       |
| Open-ended spanner SW 17 DIN 894            |                                     | 0.05  | <b>310411</b>      |
| Trimmer unit blades 75 mm (Set = 2 blades)  |                                     | 0.10  | <b>55685</b>       |
| Blades 35 mm for trimmer adaptor            |                                     | 0.01  | <b>55686</b>       |
| Heating plate 230 V / 115 V / 110 V         |                                     | 1.92  | <b>55316/55851</b> |
| Trimmer blade, carbide 75 mm Set = 2 blades |                                     | 0.05  | <b>55684</b>       |



No. 54080



No. 54015



### Basic Clamping Set

Set includes: 2 basic clamps and 2 support forks

| mm  | kg   | No.          | mm  | kg    | No.          |
|-----|------|--------------|-----|-------|--------------|
| 160 | 7.25 | <b>55742</b> | 250 | 10.10 | <b>55717</b> |



### Reducer Clamping Insert Set

Each set consists of: Pipe clamping inserts (4 metal half-shells) and support fork inserts (2 metal half-shells) for basic clamping set (No. 55742)

| mm | kg   | No.          | mm  | kg   | No.          |
|----|------|--------------|-----|------|--------------|
| 32 | 1.89 | <b>55753</b> | 110 | 1.26 | <b>55746</b> |
| 40 | 1.89 | <b>55752</b> | 114 | 1.20 | <b>55745</b> |
| 50 | 1.81 | <b>55751</b> | 125 | 1.06 | <b>55744</b> |
| 56 | 1.83 | <b>55750</b> | 140 | 0.80 | <b>55743</b> |
| 63 | 1.75 | <b>55749</b> | 180 | 2.46 | <b>55721</b> |
| 75 | 1.68 | <b>55748</b> | 200 | 2.03 | <b>55718</b> |
| 90 | 1.50 | <b>55747</b> | 225 | 1.41 | <b>55719</b> |



### Heating Plate

Non-stick Teflon coating. Ø 300 mm, 1,500 Watt

| Model                               | kg    | 230 V         |               | 110 V / 115 V |  |
|-------------------------------------|-------|---------------|---------------|---------------|--|
|                                     |       | 50 / 60 Hz    |               | 50 / 60 Hz    |  |
| Electronically controlled           | 5.35  | <b>55317</b>  | <b>55854</b>  |               |  |
| Spare knife (1 set = 2 piece)       | 0.10  |               | <b>55163</b>  |               |  |
| Allen key size 8                    | 0.20  | <b>321218</b> | <b>321218</b> |               |  |
| Transport box, protective cover red | 25.00 | <b>55759</b>  | <b>55759</b>  |               |  |
| Steel carrying case                 | 2.82  | <b>54020</b>  | <b>54020</b>  |               |  |



### ROWELD® HE Heating Plates

Heating plates for butt welding of PE, PP, PVDF and PB pipes and fittings with Ø 20 - 250 mm

Plastic pipe heating plates for free-handed working or workbench assembly using table mounting clamp

#### KEY FEATURES

- Long service life and manufactured according to DVS regulations
- Process reliability with the temperature control according to DVS, CEN and ISO standards
- Electronic temperature control and monitoring as well as prevention against unintentional temperature adjustment
- Save time and money with quick-exchange system for heating plates

| Power watts | Heizplatte Ø mm                          | Control Model  | kg   | 230 V        |              | 110/115 V |  |
|-------------|--|----------------|------|--------------|--------------|-----------|--|
|             |  |                |      | 50/60 Hz     |              | 50/60 Hz  |  |
| 500         | 120/45°                                  | electronically | 1.80 | <b>55518</b> | <b>55517</b> |           |  |
| 800         | 200                                      | electronically | 3.25 | <b>55316</b> | <b>55851</b> |           |  |
| 1,500       | 300                                      | electronically | 5.35 | <b>55317</b> | <b>55854</b> |           |  |
|             | Table mounting clamp                     |                | 0.45 | <b>55524</b> | <b>55524</b> |           |  |
|             | Carrying case for Ø 200 mm heating plate |                | 2.80 | <b>55525</b> | <b>55525</b> |           |  |
|             | Carrying case for Ø 300 mm heating plate |                | 5.90 | <b>55528</b> | <b>55528</b> |           |  |









# Plastic Pipe Welding

## Overview Hydraulic System

### The New ROWELD® Hydraulic Control System for Heating Plate-Butt Welding Machines

The ROWELD® hydraulic unit is available in the basic version **ECO** and **Premium**. The Premium units are divided into the performance categories **Premium**, **Premium Plus** and **Premium CNC**.

| Everything at a glance...       |  |  |  |  |
|---------------------------------|---|---|--|---|
|                                 | ECO   | Premium   | Premium Plus   | Premium CNC   |
| Temperature control             | —   | •   | •  | •   |
| Pressure reading analogue       | •   | —   | —  | —   |
| Pressure reading digital        | —   | •   | •  | •   |
| Pressure hold function          | —   | •   | •  | •   |
| Logging system                  | —   | —   | •  | •   |
| Position sensor                 | —   | —   | —  | •   |
| Automatic parameter calculation | —   | —   | —  | •   |
| CNC-control                     | —   | —   | —  | •   |
| Touch screen                    | —   | —   | •  | •   |
| Colour display 3.5"             | —   | —   | •  | •   |
| Menu language Multi-lingual     | —   | —   | •  | •   |
| USB port                        | —   | —   | •  | •   |

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#### ROWELD® ECO

Especially for use outside of the high-pressure pipe line, with continuously adjustable working pressure and a constant welding pressure during the welding cycle.



#### ROWELD® Premium

All the operating sequences are controlled, and monitored using the ROWELD® Premium multi-function display, for example over the integrated temperature control for the heating plate.



# Plastic Pipe Welding

## Overview Hydraulic System

### ROWELD® Premium Plus

With this unit, quick and precise welding parameters are recorded and saved, in accordance with DVS, as well as other international standards, guidelines or requirements.



### ROWELD® Premium CNC

The electric-hydraulic control of ROWELD® Premium, plus the logging systems of ROWELD® DATALINE 2.0, plus a position sensor system results in the ROWELD® Premium CNC control system for exact control and compliance of welding parameters in accordance with set specifications

Depending on the customer's wishes and the desired ROWELD® butt-welding system, the ROWELD® Premium CNC unit can be used in both fully-automatic machines with automatic ejecting heating plates and semi-automatic machines with manual release heating plates according to an acoustic signal



# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 250 B Premium Plus/Premium CNC SA/VA

Compact heating plate butt welding machine  
Ø 90 - 250 mm



#### Product Profile

##### APPLICATION AREA

###### SDR 41 - 7.4

For use at the building-site, in pipe trenches, on pipeline bridges and in the workshop. For welding of pipes and fittings in all pressure ranges (SDR 41 - 7.4) made of PE, PP and PVDF. The Roweld plastic pipe welding machines are especially recommended for use in welding thick-walled pipes

###### P 250 B Premium Plus:

In addition with logging module, integrated in the Premium hydraulic control, for the quick and precise recording and saving of the welding parameters in accordance with DVS and other internationally valid guidelines and standards. Simple data transfer with USB

###### P 250 B Premium Plus CNC SA/VA:

Additionally with CNC control, integrated in the Premium hydraulic control, with touch-screen panel for the quick and precise recording and saving of the welding parameters in accordance with DVS and other internationally valid guidelines and standards for automatic monitoring of the welding process.

##### KEY FEATURES

- 30% reduced friction force (high-tech slide unit)
- Extra rigid, separate carrying frame
- Simple welding of fittings without refitting or loss of stability
- Quickly exchangeable reducing clamp inserts

##### TECHNICAL DATA

**Pipe diameter:** Ø 90 - 250 mm (SDR 41 - 7.4)  
**Grundmaschine Weight:** 59.0 kg

Quickly exchangeable  
reducing clamp inserts

Proven clamping elements

30% reduced  
friction force

Hydraulic cylinder  
with high-tech  
slide unit

Simple welding of fittings  
without retrofitting or loss of stability

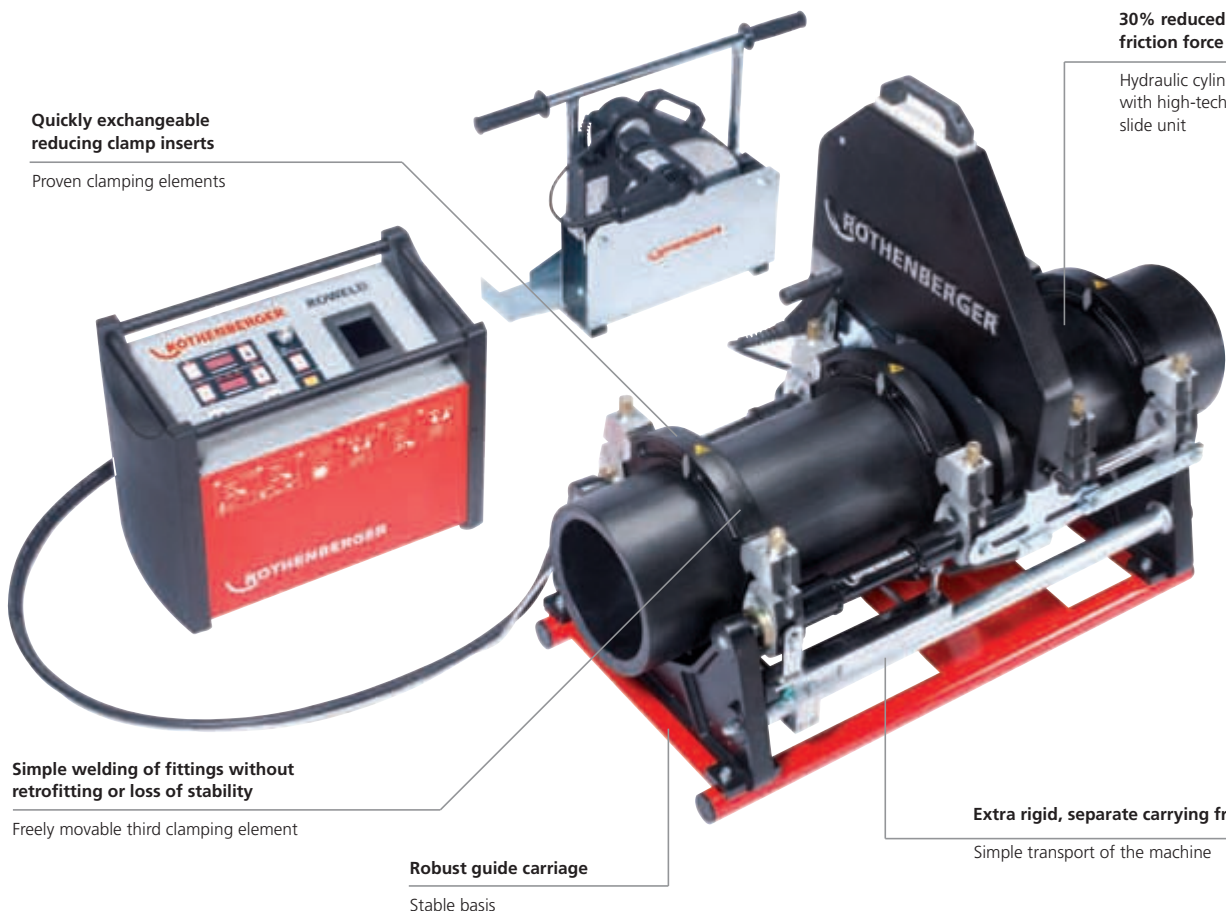
Freely movable third clamping element

Extra rigid, separate carrying frame

Simple transport of the machine

Robust guide carriage

Stable basis





# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 500 B Premium / Premium Plus / Premium CNC



Heating plate butt welding machine Ø 200 - 500 mm

#### Product Profile

##### APPLICATION AREA

Butt welding of PE and PP pipes and fittings in all pressure ranges and for all SDR series. For use on building sites, in pipe trenches or in the workshop

##### TECHNICAL DATA

|                          |  |
|--------------------------|--|
| <b>Trimmer unit:</b>     | 1,200 W, 400 V 50/60 Hz                |
| <b>Hoist (optional):</b> | 450 W, 400 V 50/60 Hz                  |
| <b>Hydraulic unit:</b>   | 1.1 kW (0 - 135 bar)<br>230 V 50/60 Hz |
| <b>Heating plate:</b>    | 4,000 W, 400 V 50/60 Hz                |

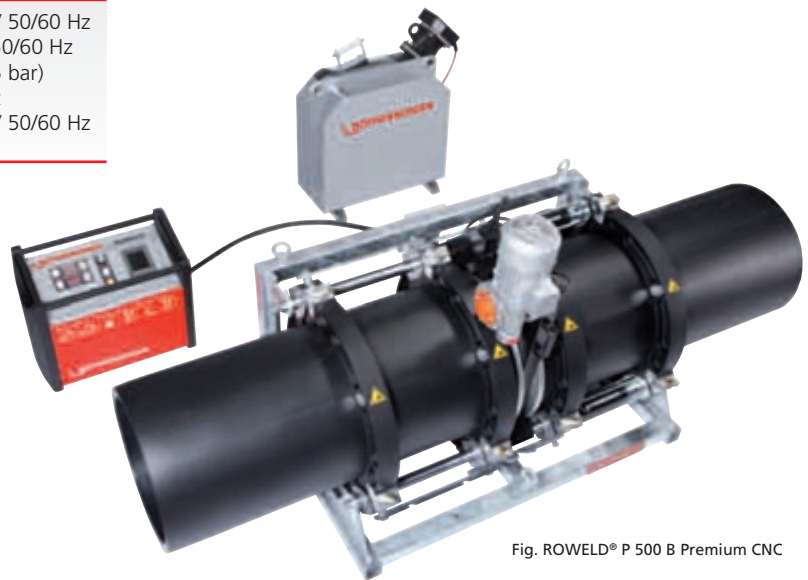


Fig. ROWELD® P 500 B Premium CNC

### ROWELD® P 630 B Premium / Premium Plus / Premium CNC



Heating plate butt welding machine Ø 315 - 630 mm

#### Product Profile

##### APPLICATION AREA

Butt welding of PE and PP pipes and fittings in all pressure ranges and for all SDR series. For use on building sites, in pipe trenches or in the workshop

##### TECHNICAL DATA

|                          |  |
|--------------------------|--|
| <b>Trimmer unit:</b>     | 1,100 W, 400 V 50/60 Hz                |
| <b>Hoist (optional):</b> | 450 W, 230 V 50/60 Hz                  |
| <b>Hydraulic unit:</b>   | 1.1 kW (4 - 135 bar)<br>400 V 50/60 Hz |
| <b>Heating plate:</b>    | 8,000 W, 400 V 5 /60 Hz                |



Fig. ROWELD® P 630 B Premium CNC

# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 800 B / P 1200 B

Heating plate butt welding machines Ø 500 - 1,200 mm



#### Product Profile

##### APPLICATION AREA

For welding of plastic pipes. For use on building sites and in the workshop  
 From Ø 500 - 800 mm (P 800 B)  
 From Ø 710 - 1,200 mm (P 1200 B)

##### TECHNICAL DATA

###### P 800 B

**Trimmer unit:** 3,000 W, 400 V 50 / 60 Hz  
**Hydraulic unit:** 1,500 W, (4 - 135 bar)  
 400 V, 50 / 60 Hz  
**Heating plate:** 12,000 W, 400 V 50 / 60 Hz  
**Weight:** 1,550 kg

###### P1200 B

**Trimmer unit:** 3,000 W, 400 V 50 / 60 Hz  
**Hydraulic unit:** 1,500 W, (4 - 135 bar)  
 400 V, 50 / 60 Hz  
**Heating plate:** 22,000 W, 400 V 50 / 60 Hz  
**Weight:** 1,906 kg

##### Adjustable 3. main clamps

Joining of elbows, T-pieces and V-type fittings possible

##### Light and sturdy basic machine

Welding of pipes in shafts possible

Fig. ROWELD® P 800 B

##### Compact design

For use directly in trench

##### Adjustable 3. main clamps

Joining of elbows, T-pieces and V-type fittings possible

##### Light and sturdy basic machine

Welding of pipes in shafts possible

##### Compact design

For use directly in trench

Fig. ROWELD® P 1200 B



# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 315 W / P 315 W CNC

Heating plate butt welding machine Ø 90 - 315 mm



#### Product Profile

#### APPLICATION AREA

- High-performance butt welding machine for single and serial production in the workshop
- For butt welding of PE, PP and PVDF pipes and fittings from
- Universal machine for pipe/pipe, pipe/fitting, pre-sealing strip welding
- Perfect for the prefabrication of pipe elbow segments and T-pieces

#### TECHNICAL DATA

|                            |  |
|----------------------------|--|
| Electrical Hydraulic unit: | 400 W<br>230 V / 400 V 50/60 Hz  |
| Electrical Trimmer unit:   | 700 W  |
| Heating plate:             | 3,000 W, 400 V 50/60 Hz  |
| Weight:                    | <b>P 315 W complete:</b> 523 kg<br><b>P 315 W Basic:</b> 385 kg<br><b>P 315 W CNC complete:</b> 523 kg<br><b>P 315 W CNC Basic:</b> 385 kg |



Fig. ROWELD® P 315 W CNC

### ROWELD® P 630 W

Plastic pipe welding machine Ø 315 - 630 mm



#### Product Profile

#### APPLICATION AREA

For plastic pipe welding of PE and PP pipes. All pressure ranges and SDR series

#### KEY FEATURES

- Reliable, warp-resistant transfer of the welding force and exact control of the welding pressure
- Long-lasting heating plate according to DVS, CEN and ISO guidelines
- Workshop welding machine, et.al with rotatable tools for the manufacture of pipe elbows on each side up to 22.5°, as well as the possibility of series production of segments

#### TECHNICAL DATA

|                          |                            |
|--------------------------|----------------------------|
| Electric-hydraulic unit: | 2,250 W<br>400 V, 50/60 Hz |
| Electric trimmer unit:   | 3 kW<br>400 V, 50/60 Hz    |
| Heating plate:           | 14 kW<br>400 V, 50/60 Hz   |

Long-lasting heating plate in accordance with DVS, CEN and ISO guidelines

Electronically controlled heating plate with high-quality, non-stick coating, can be positioned hydraulically

Exact control of the welding force

Hydraulic unit for continuous use with higher pressure consistency, no pressure loss during welding





# Plastic Pipe Welding

## Band Saws

### ROWELD® Plastic Pipe Band Saw

Especially stable band saw for the workshop, for exact, angle-correct cutting of PE, PP, PB, PVDF and PVC pipes, fittings and profiles from 50 - 1,600 mm. Ideal for single or series production of elbows and t-pieces in continuous operation



#### ROWELD® BS 450

Working range **BS 450:** 50 - 450 mm



##### Product Profile

###### KEY FEATURES

- Machine stand and saw frame made of sturdy, warp-free steel
- Saw band deflection with ball bearings
- Clamping device with spring support and band breakage shut-off
- 0° - 45° continuously pivotal saw arm
- ON - OFF main switch and motor protection switch

###### TECHNICAL DATA

**Drive Motor:** 400 V, 1.25 kW, 50/60 Hz  
**Weight:** 160 kg  
**Dimensions:** 1,200 x 1,400 x 1,800 mm (L x W x H)



#### ROWELD® BS 630 Plus / BS 800 Plus

Working range **BS 630:** 200 - 630 mm/**BS 800:** 400 - 800 mm



##### Product Profile

###### KEY FEATURES

- Double-sided saw bow guide
- All cuts with 0° - 45° mitre on both sides for simple manufacturing of T-pieces
- Precise guidance guarantees an exact cut
- Continuously adjustable feed with electric drive
- Limit of the cutting depth
- On the front side of the angle scale, the degree and angle settings can be read
- Laser cut detection

###### TECHNICAL DATA

**Drive Motor:** 400 V, 2.5 kW, 50/60 Hz  
**Weight:** **BS 630 Plus:** 650 kg / **BS 800 Plus:** 650 kg  
**Dimensions :** **BS 630 Plus:** 2,300 x 2,800 x 2,050 mm (L x W x H)  
**BS 800 Plus:** 2,500 x 4,000 x 2,350 mm (L x W x H)



#### ROWELD® BS 1200 Plus

Working range **BS 1200:** 400 - 1,200 mm



##### Product Profile

###### KEY FEATURES

- Double-sided saw bow guide
- All cuts with 0° - 45° mitre on both sides for simple manufacturing of T-pieces
- Precise guidance guarantees an exact cut
- Continuously adjustable feed with electric drive
- Limit of the cutting depth
- On the front side of the angle scale, the degree and angle settings can be read
- Laser cut detection

###### TECHNICAL DATA

**Drive Motor:** 400 V, 4,0 kW, 50/60 Hz  
**Weight:** 2,200 kg  
**Dimensions:** 4,030 x 4,430 x 2,710 mm (L x W x H)



## Service, Maintenance and Repair

ROTHENBERGER offers with the ROWELD® Program, a plastic welding technology program of the highest quality.

With our "After Sales Service" we offer you an optimum program to help you maintain the quality, availability and safety of our products. With the expansion of our service network, we are able to guarantee you fast, reliable and efficient machine maintenance and/or repair.

### Training

- We offer welding courses at our training centre as well as on-site at your convenience
- Service seminars are presented at our service centre in Hessisch-Lichtenau

### Rental Machines

To help expand your welding-machine range and to meet your needs during demand peaks, we offer a rental service.

An overview of the rental program and rental conditions are available on request!

## Spare Part Service

Our spare part service is available for all ROTHENBERGER ROWELD® machines.

We make every effort to send you your spare part within 24 hours with our express service.

Please send your spare part request with the following information:

- Machine model
- Serial No.
- Year of production
- Description of spare part
- Spare part No.

**to our spare part fax No. +49 (0) 5602 9394 - 636**

ROWELD® P 800 B with electronic lift-out device



Order our ROWELD® special catalogue 2010 / 2011

German: No. 90453

English: No. 90454







# Refrigeration & Air-Conditioning Technology

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# Refrigeration & Air-Conditioning Technology

## Complete Solutions

### ROKLIMA® MULTI 4F

#### Fully automatic commissioning and maintenance of air-conditioning units and heat pumps

The innovative unit enables safe and comfortable operation on refrigeration systems. With simple menu navigation, **4 functions (4F)** are automatically controlled



R410A R22 R134A R407C R404A

#### Product Profile

##### KEY FEATURES

- Pressure resistance up to 80 bar guarantees full use with heat pumps
- Everything you need within reach
- Simple menu guidance guarantees appropriate use
- Fully-automatic makes time for parallel work
- Safe transport

##### TECHNICAL DATA

- Weight:** 17 kg
- Final Vacuum:**  $1 \times 10^{-2}$  mbar
- Scale range:** up to 100 kg
- Resolution:** 10 g
- Pressure hose length:** 2.500 mm
- Delivery rate:** 42 l / min

**4F**

- Evacuation
- Charging
- Leakage test
- Control of the evacuation process



#### Interactive 16-digit display with 4 function buttons

All required parameters can be easily entered

#### Sturdy, compact metal casing

Protects all components such as vacuum pump and scale

#### Integrated high vacuum pump with 42 l/min suction performance

For evacuation of the system in accordance with **DIN 8975**

#### Pull-out precision digital scale up to 100 kg

Secure stand for large and small containers

#### Encased low-pressure gauges for various refrigerants



#### Secure storage of all accessories



#### Pressure hoses: 2.5 m long with shut-off valve



#### Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces



#### 3 different pressure gauges "Pulse-free", class 1.6, 80 mm

Universal use on air-conditioning units with all common refrigerants

#### 2 pressure hoses (2.500 mm) from the series "Plus" with ball valve

Safe and comfortable operation with refrigerants without the risk of refrigerant loss

#### Plastic capillary hose

Safe, leak-free filling due to cut-off plug

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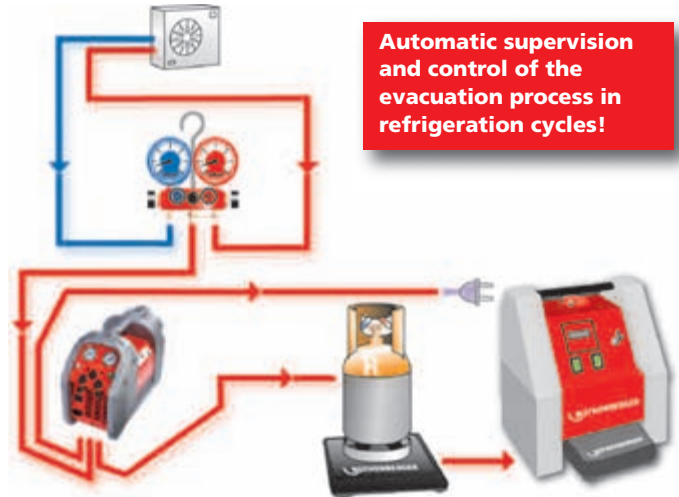
# Refrigeration & Air-Conditioning Technology

## Complete Solutions

**Automatic evacuation and filling with the ROKLIMA® MULTI 4F!**



**Automatic supervision and control of the evacuation process in refrigeration cycles!**



ROKLIMA® MULTI 4F in use (evacuation and charging)



Scope of delivery (No. 100000138) includes: 2-stage high vacuum pump, 2 low pressure gauges, 2 pressure hoses with ball valve à 2.500 mm, 2 bottle connection adaptors (1/4" SAE No. 173205, 5/16" SAE No. 173204), 2 reducing pieces 1/4" SAE - 5/16" SAE (No. 170016), precision digital scale up to 100 kg, automatic control, vacuum and pressure switch, mineral oil (No. 169200)

| Model                                   | kg   |   | No.              |
|---|------|---|------------------|
| ROKLIMA® MULTI 4F                       | 17.0 | 1 | <b>100000138</b> |
| Reducer pieces 1/4" SAE F - 5/16" SAE M | 0.1  | 1 | <b>170016</b>    |

**Secure storage of Accessories:**  
pressure hoses bottle adaptor,  
plastic capillary hose



**Precision scale up to 100 kg**  
Resolution: 10 g  
Accuracy ± 1%



**Ergonomic, Compact**



**Light**





# Refrigeration & Air-Conditioning Technology

## Complete Solutions



### ROCADDY 120 / ROCADDY 120 Digital

Universal sets for evacuation and charging



#### Product Profile

##### KEY FEATURES

- Everything you need within reach
- Flexible use with the individual use of the tools
- Easy to transport

#### TECHNICAL DATA

Electric digital scale ROSCALE 120 with a weight capacity of 120 kg and a measuring accuracy per measurement of 5 g

2 speed high vacuum pump ROAIRVAC 1.5 with integrated vacuum meter and solenoid valve, as well as a pump capacity of 42 l/min

Digital manifold (with ROCADDY 120 Digital) for the automatic calculation of overheating and under-cooling. 65 refrigerants are on file in the unit

2 analogue 4-way manifolds (with ROCADDY 120) for the common refrigerants R22, R134A, R404A, R407C and the high-pressure refrigerant R410A

Pressure hose sets, each with 3 hoses from the PLUS series with shut-off valve for safe use with refrigerants

Pipe cutter TUBE CUTTER 35 and MINICUT II PRO for cutting Ø 6 - 35 mm pipes to length

#### Sturdy plastic rolling case (Fig. similar)

Simple and comfortable transport with ample room for accessories and small parts



#### 2-stage high vacuum pump

For evacuation and removal of all moisture residue in refrigeration systems during installation per DIN 8975

#### Bottle adaptor for 1 kg and 2 kg refrigerant bottles for connection to the scale

Secure mounting of the bottle during charging

#### 2 x analogue manifolds (with ROCADDY 120)



#### Digital manifold

Automatic calculation of overheating or under-cooling, can be used for 65 various refrigerants (ROCADDY 120 Digital)

#### Mini tube cutter and pipe cutter

For cutting Ø 6- 35 mm pipes to length

#### Electronic digital scale up to 120 kg with high measurement precision

Precise weighing of refrigerants

ROCADDY 120 includes: 2-stage high vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 4-way manifold for R22, R134a, R407C (No. 170502), 4-way manifold for R410A (No. 170508), pressure hose set 5/16" SAE each 1.500 mm with ball valve for R410A (1500000030), pressure hose set 1/4" SAE each 1.500 mm with ball valve for R22, R134A, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x adaptor 3/8" SAE F - 1/4" SAE M (No. 089401), 2 x adaptor 5/16" SAE F - 1/4" SAE M with valve trigger (No. 259007), adaptor 5/16" SAE M - 1/4" SAE F (No. 170016), bottle connection 1/4" (No. 173204), mineral oil (0.4 l), Tube Cutter 35 (No. 70027), Minicut II Pro (No. 70402), transport case (No. 169051)

ROCADDY 120 Digital includes: 2-stage high vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 1x digital manifold (No. 170523P), 1x clamping thermometer (No. 170522), pressure hose set 1/4" SAE 1.500 mm with ball valve for R22, R134A, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 2x 5/16" SAE F - 1/4" with valve trigger (No. 259007), 1x 5/16" SAE M - 1/4" SAE F (No. 170016), 1x bottle connection 1/4" (No. 173204), mineral oil (0.4 l), Tube Cutter 35 (No. 70027)

| Model                     | Performance |              | No.               |              |  |
|---------------------------|-------------|--------------|-------------------|--------------|--|
| <b>R410A</b>              | <b>R22</b>  | <b>R134A</b> | <b>R407C</b>      | <b>R404A</b> |  |
| ROCADDY 120               | 42 l / min  | 19           | <b>1000000057</b> |              |  |
| with 2 analogue manifolds |             |              |                   |              |  |

| Model                 | Performance |              | No.               |              |             |
|-----------------------|-------------|--------------|-------------------|--------------|-------------|
| <b>R410A</b>          | <b>R22</b>  | <b>R134A</b> | <b>R407C</b>      | <b>R404A</b> | <b>R507</b> |
| ROCADDY 120 Digital   | 42 l / min  | 18           | <b>1000000058</b> |              |             |
| with digital manifold |             |              |                   |              |             |

### Digital Manifold

Suitable for commissioning and maintenance of all types of refrigeration circuits



#### Product Profile

##### KEY FEATURES

- All important information at a glance
- Suitable for 65 different refrigerants
- Simple control of the procedures needed to be performed
- Simple and safe evacuation and filling
- Automatic calculation of overheating / under-cooling
- Simple use with the easy to understand menu

##### TECHNICAL DATA

- Pressure display:** PSI, Bar, MPa, Kg / cm<sup>2</sup>
- Temperature display:** °C or °F
- Deep vacuum display:** Micron, mBar, Kpa, mmHg
- Resolution:** 1 psi
- Accuracy:** +/- 1 psi or 1% of the display
- Working pressure:** 0 - 750 psi (52 Bar, 6 MPa, 52 Kg / cm<sup>2</sup>)
- Testing pressure:** 1,000 psi (70 Bar, 7 MPa, 70 Kg / cm<sup>2</sup>) (Tolerated pressure without causing damage)
- Temperature measurement range:** - 40 up to 93 °C (-40 bis 200 °F)
- Working temperature:** -10 up to 45 °C (14 bis 113 °F)
- Temperature accuracy:** ± 0.5 °C (± 1 °F) 0 up to 71 °C (32 up to 160 °F)
- Power source:** 9 Volt battery
- Adaptor connection:** 1/4" SAE (7/16 UNF)

**Unit with shockproof rubber protector**

Protects against damage

**Connection for clamping thermometer**

Automatic overheating calculation

**Simple use**

Easy to understand controls and clear menu

**Connection for external vacuum sensor**

Evacuation control during start-up

**Connection for clamping thermometer**

Automatic under-cooling calculation

**All important information available at a glance**

Large display with various indicators

**Viewing glass**

Simple control of the refrigerant

**Simple and safe evacuation**

T-junction with Schrader valve makes changing hose unnecessary

*Complete set in protective plastic case*



*Optional external vacuum sensor for TORR-precise measuring of the vacuum*



*Clamping thermometer for calculating the overheating / under-cooling up to ø 32 mm*



*Digital manifold in use with the clamping thermometer*



Set (No. 170525) includes: Digital manifold, clamping thermometer, 3x standard 1/4" SAE hoses, 2x adaptor 5/16" SAE F- 1/4" SAE M with valve trigger, plastic carrying case

| Model  |   | No.           |
|--|---|---------------|
| Digital manifold set                         | 1 | <b>170525</b> |
| Digital manifold (without accessories, case) | 1 | <b>170523</b> |

| Model                |   | No.           |
|----------------------|---|---------------|
| Vacuum sensor        | 1 | <b>170521</b> |
| Clamping thermometer | 1 | <b>170522</b> |



# Refrigeration & Air-Conditioning Technology

## Refrigeration Circuit Control

### Analogue Manifolds

2- and 4-way manifolds



Pressure gauge Ø 80 mm, with pulse-dampening class 1.6

Easy-to-read, high precision display

Large hand valve with colour coding

Light, secure and precise opening and closing of the diaphragm valve, maintenance free

Valve sets



Pressure gauge with shock-proof rubber protector

Protects against damage

Valve body made of aluminium with gauge glass

Sturdy despite low weight

2-way manifold



Manifold Blister



| Model            | ND*/bar     | HD*/bar    | kg  | No.             |
|------------------|-------------|------------|-----|-----------------|
| <b>R22</b>       |             |            |     |                 |
| <b>R134A</b>     |             |            |     |                 |
| <b>R407C</b>     |             |            |     |                 |
| <b>R404A</b>     |             |            |     |                 |
| 2-way, 1/4" SAE  | -1 up to 17 | 0 up to 34 | 0.7 | 1 <b>170501</b> |
| 4-way, 1/4" SAE  | -1 up to 17 | 0 up to 34 | 0.9 | 1 <b>170502</b> |
| <b>R410A</b>     |             |            |     |                 |
| 2-way, 5/16" SAE | -1 up to 30 | 0 up to 60 | 0.7 | 1 <b>170518</b> |
| 4-way, 5/16" SAE | -1 up to 30 | 0 up to 60 | 0.9 | 1 <b>170508</b> |

\*LP = Low pressure manifold, \*HP = High pressure manifold

| Model                              | No.           |
|------------------------------------|---------------|
| Blue rubber protector for manifold | <b>170545</b> |
| Red rubber protector for manifold  | <b>170546</b> |
| Valve inserts for manifold         | <b>170547</b> |

### Manifold Sets

Manifold sets and pressure hoses

2-way manifold (for 170600 and 170607)  
4-way manifold (for 170601, 170606, 170602 and 170608)

Durable and highly precise tool



Sets include: Manifold, pressure gauge with Ø 80 mm, "Pulse-free", class 1.6, 3 x 1.500 mm pressure hoses, plastic carrying case

| Model                           | kg  | No.           |
|---------------------------------|-----|---------------|
| <b>2-way "Standard"</b>         |     |               |
| <b>R22</b>                      |     |               |
| <b>R134A</b>                    |     |               |
| <b>R407C</b>                    |     |               |
| <b>R404A</b>                    |     |               |
| Manifold set 2-way "Standard"   | 2.7 | <b>170600</b> |
| <b>R410A</b>                    |     |               |
| Manifold set 2-way "Standard"   | 2.7 | <b>170607</b> |
| <b>4-way "Standard"</b>         |     |               |
| <b>R22</b>                      |     |               |
| <b>R134A</b>                    |     |               |
| <b>R407C</b>                    |     |               |
| <b>R404A</b>                    |     |               |
| Manifold set 4-way I "Standard" | 2.8 | <b>170601</b> |
| <b>R410A</b>                    |     |               |
| Manifold set 4-way I "Standard" | 2.8 | <b>170606</b> |
| <b>4-way "Plus"</b>             |     |               |
| <b>R22</b>                      |     |               |
| <b>R134A</b>                    |     |               |
| <b>R407C</b>                    |     |               |
| <b>R404A</b>                    |     |               |
| Manifold set 4-way II "Plus"    | 2.8 | <b>170602</b> |
| <b>R410A</b>                    |     |               |
| Manifold set 4-way II "Plus"    | 2.8 | <b>170608</b> |
| Plastic carrying case           | 1.4 | <b>171505</b> |



No. 170601

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant

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### 3-piece Pressure Hose Sets

Available in "Standard" and "Plus"



#### Product Profile

##### KEY FEATURES

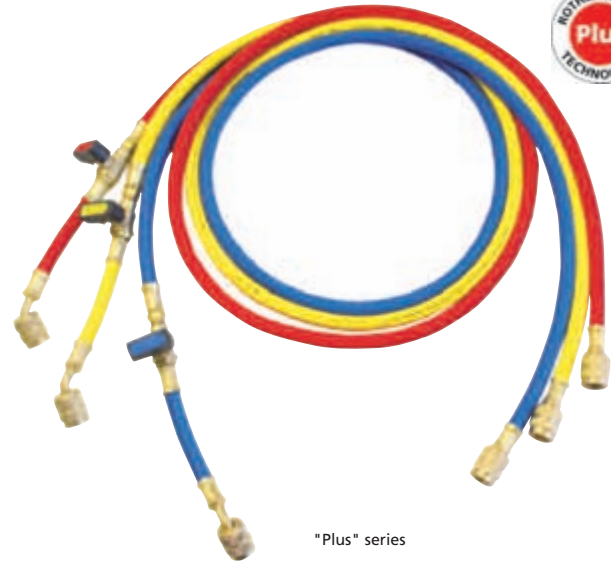
No confusion and safe use with the colour coding (blue, red, yellow)  
 Teflon seal with up to 10 x longer service life compared to neoprene seal  
 Working pressure 60 bar / best pressure 300 bar.  
 This is an 8 % better pressure resistance as previously



"Standard" series

#### Pressure hose from the series "Standard"

| Model                   | Connection   | L mm         | kg           | No.              |
|-------------------------|--------------|--------------|--------------|------------------|
| <b>R22</b>              | <b>R134A</b> | <b>R407C</b> | <b>R404A</b> |                  |
| Vacuum Hose             | 3/8" SAE     | 1,500        | 1            | <b>150000032</b> |
| Set of 3 pressure hoses | 1/4" SAE     | 1,500        | 1            | <b>150000024</b> |
| Pressure hose yellow    | 1/4" SAE     | 1,500        | 1            | <b>150000025</b> |
| <b>R410A</b>            |              |              |              |                  |
| Set of 3 pressure hoses | 5/16" SAE    | 1,500        | 1            | <b>150000026</b> |
| Pressure hose yellow    | 5/16" SAE    | 1,500        | 1            | <b>150000027</b> |



"Plus" series

#### Pressure hose from the series "Plus" with ball valve

| Model                   | Connection   | L mm         | kg           | No.              |
|-------------------------|--------------|--------------|--------------|------------------|
| <b>R22</b>              | <b>R134A</b> | <b>R407C</b> | <b>R404A</b> |                  |
| Set of 3 pressure hoses | 1/4" SAE     | 1,500        | 1            | <b>150000028</b> |
| Pressure hose yellow    | 1/4" SAE     | 1,500        | 1            | <b>150000029</b> |
| <b>R410A</b>            |              |              |              |                  |
| Set of 3 pressure hoses | 5/16" SAE    | 1,500        | 1            | <b>150000030</b> |
| Pressure hose yellow    | 5/16" SAE    | 1,500        | 1            | <b>150000031</b> |

### Tool Set Climate I

#### Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

#### Product Profile

##### APPLICATION AREA

Monitor temperature and pressure  
 Quality hoses with high bursting pressure  
 Pipe cutter for all pipe cross-sections from 3 - 35 mm (1/8" - 1.1/8")  
 Measurement of ambient and ventilator air temperature  
 Clean, kink-free bending of all common pipe cross-sections  
 Optimum flaring connections for all types of air-conditioners

9-part tool set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses 1/4" SAE, telescopic pipe cutter (No. 070027C), minicut pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", universal flaring tool (No. 222601), plastic case

| Model              | kg  | kg | No.           |
|--------------------|-----|----|---------------|
| Tool Set Climate I | 2.3 | 1  | <b>170604</b> |

**R22** **R134a** **R407C** **R404A**



The ideal introduction into a whole new area of business!



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# Refrigeration & Air-Conditioning Technology

## Leak Testing & Locating

### Nitrogen Set

Multiple uses for refrigeration systems



#### Product Profile

#### APPLICATION AREA

- Pressure and leak test with nitrogen
- Flushing of the installation
- Nitrogen admission during soldering to prevent scale formation

**Ideal for split air-conditioning units and heat pumps!**



#### Connection for large bottles

Any size of bottle can be connected without a problem

#### Spring loaded pressure reducing valve

Simple and safe handling

950 cm<sup>3</sup> nitrogen bottle included

Complete set

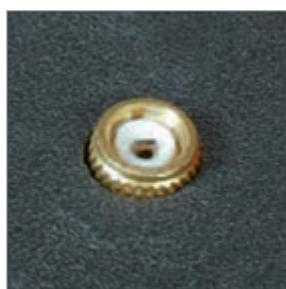


#### Fine scaled 1.0 pressure gauge

Precise reading of the testing pressure

No. 259060

5/16" SAE adaptor for connecting to R410 units



Bottle adaptor for connecting 950 cm<sup>3</sup> bottles



Set (No. 259060) includes: pressure reducing valve, connection hose, bottle adaptor, pressure gauge, nitrogen bottle and plastic case

| Model  | No.           |
|--|---------------|
| Nitrogen set with bottle (950 cm <sup>3</sup> )  | <b>259060</b> |
| Nitrogen bottle, each 950 cm <sup>3</sup>        | <b>259008</b> |
| Filling hose with pressure gauge                 | <b>259010</b> |
| Connection 5/16" SAE internal, 1/4" SAE external | <b>259007</b> |

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### Vacuum Gauge

Vacuum gauge (Ø 80 mm, scale 1,000 - 0 mbar, adjustable) with drag indicator for testing the vacuum that has been reached



Fig. Similar



| Model  | No.           |
|--|---------------|
| 1-way vacuum gauge and 1/4" SAE Clamp and hooks 1/4" SAE | <b>169310</b> |

### RO-LEAK

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)



R410A R22 R134A R407C R404A R507A

#### Product Profile

##### KEY FEATURES

- Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds
- Simple determination of the refrigerant concentration
- Adjustment of the sensor tips zero measurement point for simple detection of the leak
- Exact and quick locating of the leak
- Easy accessibility of even hard to reach leaks

##### TECHNICAL DATA

- Leak status:** LED display
- Sensor length:** 30 cm
- Leak detection rate:** 3g/a within 3 seconds
- Weight:** 280 g
- Working temperature:** - 10 up to + 49°C
- Voltage:** 2.4 V

#### Heated pentode

Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds

#### Audio signal

Comfortable use

#### 30 cm long, flexible sensor

Easy access in hard-to-reach places

#### 7 LEDs

Simple determination of the refrigerant concentration with the coloured shading

#### 7 different sensitivity levels

Exact and fast location of the leak

#### RESET - button

Adjusts to the sensor tip zero point setting for simple leak location



No. 87305

Scope of delivery (No. 87305) Leak detection unit RO-LEAK, spare sensor, battery charger, battery

| Model   | No.          |
|---|--------------|
| RO-LEAK set with spare sensor and battery charger in plastic case | <b>87305</b> |
| Spare sensor  | <b>87309</b> |



Suitable for all common CFC, HFC and HCFC!

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RO-LEAK in use





# Refrigeration & Air-Conditioning Technology

## Evacuation

### ROAIRVAC

#### Two-stage vacuum pump

For evacuation in accordance with **DIN 8975** with vacuum gauge and solenoid valve



#### Product Profile

##### KEY FEATURES

- Solenoid check valve to protect the refrigeration system from oil contamination during power outage
- Vacuum gauge with integrated drag indicator enables simple and quick control of the evacuation process
- Protects the integrated components with the light and high quality casing
- Gas ballast valve for reduction of water vapour in the oil container
- Special filter reduces oil mist an exhaust vent

##### KEY FEATURES

- Gauge-glass enables easy oil-stand monitoring
- Fast filling of oil without spilling, no special funnel is necessary
- Easy access to the oil drain plug makes emptying quick
- Thermal switch protects the unit from the motor overheating
- Standard 1/4" SAE connection, as well as 5/16" SAE and 3/8" SAE adaptor included in delivery
- Removable cable prevents cable damage



1/4" SAE standard connection with adaptors for 5/16" SAE and 3/8" SAE



Optimal positioned viewing glass and oil drains for simple draining of the oil



Practical: operating instructions always within view



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### ROAIRVAC Serie

Two-stage rotary vane pump for evacuation  
in accordance with DIN 8975

| Type             | ROAIRVAC 1.5                               | ROAIRVAC 3.0                               | ROAIRVAC 6.0                                 | ROAIRVAC 9.0                                 |
|------------------|--|--|--|--|
| No.              | <b>170061</b>                              | <b>170062</b>                              | <b>170063</b>                                | <b>170064</b>                                |
| Pump rating      | 1.5 CFM / 42 l/min / 2.5 m <sup>3</sup> /h | 3.0 CFM / 85 l/min / 5.1 m <sup>3</sup> /h | 6.0 CFM / 170 l/min / 10.2 m <sup>3</sup> /h | 9.0 CFM / 255 l/min / 15.3 m <sup>3</sup> /h |
| Vacuum stages    | 2  | 2  | 2  | 2  |
| Final-vacuum     | 25 micron / 0.034 mbar                     | 25 micron / 0.034 mbar                     | 25 micron / 0.034 mbar                       | 25 micron / 0.034 mbar                       |
| Motor rating     | 190 W / 1720 r/m                           | 250 W / 1720 r/m                           | 375 W / 3440 r/m                             | 750 W / 3440 r/m                             |
| Voltage          | 230 V                                      | 230 V                                      | 230 V  | 230 V  |
| Frequency        | 50 Hz / 60 Hz                              | 50 Hz / 60 Hz                              | 50 Hz / 60 Hz                                | 50 Hz / 60 Hz                                |
| Connections      | 1/4"                                       | 1/4"                                       | 1/4"   | 1/4"   |
| with adaptor     | 5/16" SAE M / 3/8" SAE M                   | 5/16" SAE M / 3/8" SAE M                   | 5/16" SAE M / 3/8" SAE M                     | 5/16" SAE M / 3/8" SAE M                     |
| Oil capacity     | 250 ml                                     | 330 ml                                     | 330 ml                                       | 590 ml                                       |
| Weight           | 9.0 kg                                     | 10.7 kg                                    | 11.5 kg                                      | 17.0 kg                                      |
| Pressure gauge Ø | 50 mm                                      | 50 mm                                      | 50 mm  | 80 mm  |
| Measuring unit   | mbar / Mpa                                 | mbar / Mpa                                 | mbar / Mpa                                   | mbar   |



ROAIRVAC 1.5 (42 l/min)



ROAIRVAC 3.0 (85 l/min)



ROAIRVAC 6.0 (170 l/min)

Mineral oil is included by all pump deliveries



ROAIRVAC 9.0 (255 l/min)



ROAIRVAC - vacuum pump in use with the digital manifold



Scope of delivery ROAIRVAC: Vacuum pump with 1/4", 5/16"SA+B547E and 3/8" SAE connections, plastic bottle with mineral oil

| Model                | Performance | kg   | No.           |
|----------------------|-------------|------|---------------|
| ROAIRVAC 1.5         | 42 l/min    | 9.0  | <b>170061</b> |
| ROAIRVAC 3.0         | 85 l/min    | 10.7 | <b>170062</b> |
| ROAIRVAC 6.0         | 170 l/min   | 11.5 | <b>170063</b> |
| ROAIRVAC 9.0         | 255 l/min   | 17.0 | <b>170064</b> |
| Mineral oil, 1 litre |             |      | <b>169200</b> |



# Refrigeration & Air-Conditioning Technology

## Evacuation & Filling

### ROREC

#### Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants of all kinds



#### Product Profile

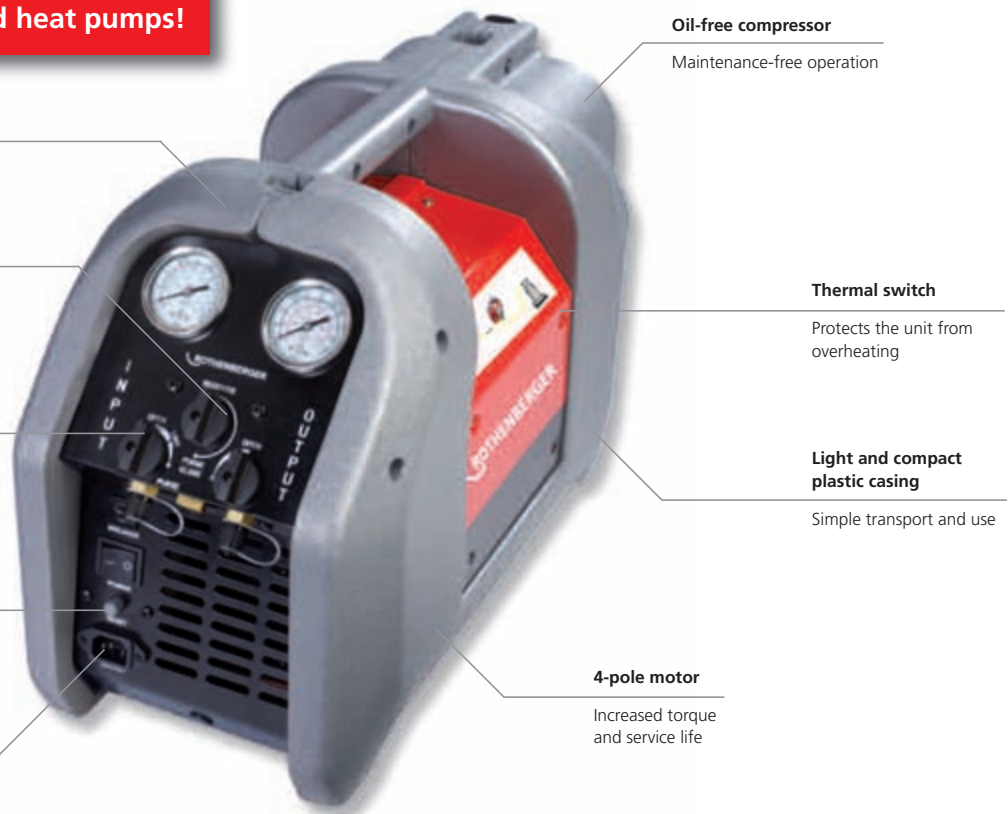
##### KEY FEATURES

- 4-pole motor guarantees the durability of the machine
- Low noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Maintenance-free operation through the oil-free compressor
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing

##### TECHNICAL DATA

|                              |   |
|------------------------------|---|
| <b>Suitable for:</b>         | all refrigerants of the type CFC-HCFC-HFC |
| <b>Capacity:</b>             | gaseous: 0.26 kg / min                    |
|                              | fluid: 1.85 kg / min                      |
|                              | Push/Pull: 6.22 kg / min                  |
| <b>Electrical Data:</b>      | 230 V / 50 - 60Hz                         |
| <b>Power:</b>                | 370 W                                     |
| <b>High pressure switch:</b> | 38.5 bar                                  |
| <b>Dimensions:</b>           | 500 x 220 x 340 mm                        |
| <b>Weight:</b>               | 17 kg                                     |

**Ideal for mono & multi-split air-conditioning units and heat pumps!**



#### Integrated high pressure switch

Protects the integrated components

#### PURGE function

Emptying of refrigerant residue in the unit (self-cleaning mode)

#### Simple use

Controlled dosage of the refrigerant supply

#### RESET Button

Reset of the pressure shut-off

#### Removable cable

Prevents cable damage

#### Oil-free compressor

Maintenance-free operation

#### Thermal switch

Protects the unit from overheating

#### Light and compact plastic casing

Simple transport and use

#### 4-pole motor

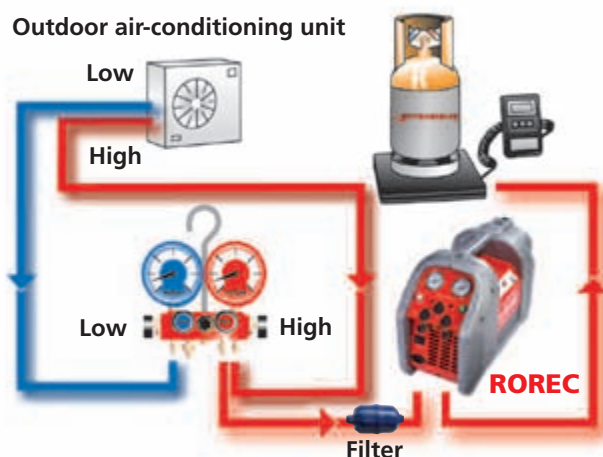
Increased torque and service life

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### Recovery of Refrigerant

#### Outdoor air-conditioning unit



Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories



| Model  | Connected Load | kg   | No. |        |
|--------|----------------|------|-----|--------|
| ROREC  | 370 W          | 17.0 | 1   | 168605 |
| Filter |                |      |     | 168713 |



### ROREC PRO

#### Refrigerant recovery device

Compact, portable device for recovery of halogenated refrigerants of every kind



#### Product Profile

##### KEY FEATURES

- Maintenance free operation with the oil-free 2-piston compressor
- 4-pole motor guarantees the durability of the machine
- Automatic shut-off after the evacuation process is finished
- Low-noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing

##### TECHNICAL DATA

|                              |  |
|------------------------------|--|
| <b>Suitable for:</b>         | all refrigerants type CFC-HCFC-HFC   |
| <b>Capacity:</b>             | gaseous: 0.52 kg / min<br>fluid: 2.89 kg / min<br>Push/Pull: 7.27 kg / min |
| <b>Electrical Data:</b>      | 230 V / 50 - 60Hz  |
| <b>Power:</b>                | 730 W  |
| <b>High pressure switch:</b> | 38.5 bar   |
| <b>Dimensions:</b>           | 500 x 220 x 340 mm   |
| <b>Weight:</b>               | 19 kg  |

**Also ideal for large facilities!**

#### Control lamp

When green: Process is over - unit will turn off automatically  
When red: The system pressure is too high - the unit will turn off automatically

#### Simple use

Controlled dosage of the refrigerant supply

#### PURGE function

Emptying of refrigerant residue in the unit (self-cleaning mode)

#### Removable cable

Prevents cable damage

#### Oil-free 2-piston compressor

Very high suction performance with maintenance free operation

#### Thermal switch

Protects the unit from overheating

#### Light and compact plastic casing

Simple transport and use

#### 4-pole motor

Increased torque and service life

Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories



ROREC PRO in use



| Model     | Connected Load | kg   | No. |        |
|-----------|----------------|------|-----|--------|
| ROREC PRO | 730 W          | 19.0 | 1   | 168606 |
| Filter    |                |      |     | 168713 |



# Refrigeration & Air-Conditioning Technology

## Evacuation & Filling

### Refrigerant Recycling Bottles

Empty, welded press gas bottles for collection of used refrigerant, volume: 14.5 litre, maximum filled weight: 10 kg, double connection valve for gaseous and fluid removal with dip pipe for standing bottle. With 2-way fill / disposal valve, bottle label and complete ADR papers. Colour is without obligation. Collection and disposal only possible in Germany

2-way fill/disposal valve

Liquid and gaseous removal possible



Bottle includes complete refrigerant recycling

No rent, no separate disposal costs

Clear labelling on the bottle ("max 10 kg")

Prevents overfilling, no danger of explosion due to increase of temperature

| Model                     | Ø mm | Height mm | No.           |
|---------------------------|------|-----------|---------------|
| Recycling bottle 1/4" SAE | 230  | 510       | <b>170952</b> |

including complete refrigerant recycling

### Refrigerant for Air-conditioning Units

Non-chlorinated refrigerant of the HFC group in practical 40 bar steel bottles (bursting pressure: 165 bar) TÜV seal No. 0036-043/03D and TPED accepted as per 99/36/CE



Standardised SAE thread on all bottle valves

Universal application

Refillable bottles

Full flexibility for the user



#### Product Profile

##### KEY FEATURES

- Light and practical for use on building-sites
- 1 and 2 litre steel bottles, rent-free and easy disposal
- Flat base for increased standing stability
- Ease of clean up after removing of the valve

| Model   |                  |      | No.           |
|---|------------------|------|---------------|
| <b>R407C</b> Refrigerant R407C in cardboard packaging | 1 l-steel bottle | 1 12 | <b>170913</b> |
|   | 2 l-steel bottle | 1 6  | <b>170931</b> |
| <b>R410A</b> Refrigerant R410A in cardboard packaging | 1 l-steel bottle | 1 12 | <b>170912</b> |
|   | 2 l-steel bottle | 1 6  | <b>170932</b> |
| <b>R422D</b> Refrigerant R422D in cardboard packaging | 1 l-steel bottle | 1 12 | <b>170914</b> |
|   | 2 l-steel bottle | 1 6  | <b>170933</b> |

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### ROSCALE 120

#### Electronic refrigerant scale

Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg



#### Product Profile

##### KEY FEATURES

- Resolution of 5 g enables very precise filling
- Weight capacity sufficient for all common refrigerant bottles
- Cable connection enables comfortable use in every situation
- Bottle adaptor for connecting small refrigerant bottles (1 l and 2 l bottles)
- Refrigerant bottles of all sizes have enough space
- Large LCD display for comfortable reading of the result
- Simple use

##### TECHNICAL DATA

- Weight capacity:** 120 kg or 264 lbs
- Accuracy:** +/- 0,5%
- Resolution:** 5 g / 0,2 oz.
- Working temperature:** -10° C - 49° C / 14 - 120° F
- Connection:** 1/4" SAE for 1-2 lit. Bottles
- Battery:** 9 V
- Platform size:** 230 x 230 x 53 mm
- Weight:** 3.28 kg



#### Large weighing platform

All sizes of refrigerant bottles have enough space

#### 1/4" SAE bottle adaptor

For connecting small 1 and 2 l refrigerant bottles

#### Large LCD display

For comfortable reading of the results

#### Three operating keys

Simple use

#### Cable connection

Enables comfortable use in every situation

#### Weight capacity of 120 kg

Weight capacity is sufficient for all common refrigerant bottles

Scope of delivery: ROSCALE 120, 9 V battery, carrying case

| Model       | kg   | No.    |
|-------------|------|--------|
| ROSCALE 120 | 3.28 | 173004 |

ROSCALE 120 at carrying case





# Refrigeration & Air-Conditioning Technology

## Accessories

### SANIFRESH



Disinfecting and deodorising cleaning spray



#### Product Profile

##### KEY FEATURES

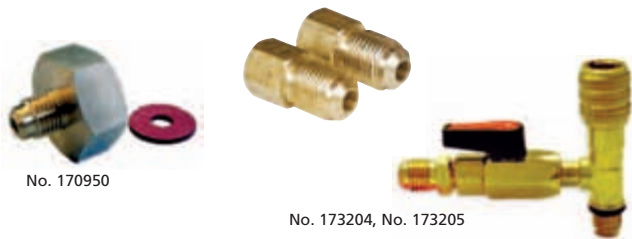
- Removes the threat of disease and allergies
- Practical and ecologically friendly solution for removing mites, dust, bacteria and spores
- Spray is applied directly to affected surface
- Economical spray-can with spray nozzle and spray tube
- Removes unpleasant odours. Pleasant mint smell

| Model                           |   | Volume | No.           |
|---------------------------------|---|--------|---------------|
| Sanifresh (contains 12 bottles) | 1 1(12)   | 400 ml | <b>085800</b> |

### Bottle Connection and Adaptors

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



No. 170950

No. 173204, No. 173205

| Model  | No.           |
|--|---------------|
| Adaptor, 1/4" connection   | <b>173205</b> |
| Adaptor, 5/16" connection  | <b>173204</b> |
| Adaptor, W21.8 x 1/4" SAE M connection with seal for 2 l sized bottles | <b>170950</b> |
| Adaptor, 1/4" SAE M - 3/8" SAE F connection                            | <b>089501</b> |
| Adaptor, 3/8" SAE M - 1/4" SAE F connection                            | <b>089503</b> |
| Adaptor, 3/8" SAE M - 1/2" SAE F connection                            | <b>089504</b> |
| Adaptor, 1/4" SAE F - 5/16" SAE M connection                           | <b>170016</b> |
| Adaptor, 1/4" SAE M - 5/16" SAE F connection with valve trigger        | <b>259007</b> |

### Torque Wrench Set

For proper tightening of flange connections

Set with adjustable torque wrench (10-70 Nm) and 6 spanner inserts sizes 17, 22, 24, 26, 27 and 29 mm for flange connections on 1/4", 3/8", 1/2" and 5/16" pipe lines **according to DIN EN 378-2 : 2008-06**



**Fix with torque urgently necessary!**

**8 piece set (No. 1750.01) includes:** spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

| Pipe-Ø          | Spanner width | Locking torque |
|-----------------|---------------|----------------|
| 1/4" / 6 mm     | 17 mm         | 14-18 Nm       |
| 3/8" / 10 mm    | 22 mm         | 33-42 Nm       |
| 1/2" / 12 mm    | 24 mm         | 50-62 Nm       |
| 1/2" / 12 mm    | 26 mm         | 50-62 Nm       |
| 5/8" / 15/16 mm | 27 mm         | 63-77 Nm       |
| 5/8" / 15/16 mm | 29 mm         | 63-77 Nm       |

| Model                      |  | No.           |
|----------------------------|---|---------------|
| Torque wrench set, 7 piece | 1.7   | <b>175001</b> |



### Adjustable Wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

#### Product Profile

##### KEY FEATURES

Precise operation: Smooth-running and robust roller with minimum play in the sliding guides

| Size<br>inch | <br>mm | Clamping width<br>up to mm | <br>g | No.          |
|--------------|---|----------------------------|--|--------------|
| 6"           | 160   | 20                         | 100  | <b>70441</b> |
| 8"           | 210   | 25                         | 220  | <b>70442</b> |
| 10"          | 250   | 29                         | 390  | <b>70443</b> |
| 12"          | 300   | 34                         | 660  | <b>70444</b> |
| 15"          | 380   | 44                         | 1,170  | <b>70445</b> |



### Schrader Valve Tool

#### Product Profile

##### KEY FEATURES

For exchanging the Schrader valve on air-conditioners under pressure, without having to evacuate the unit  
For faster filling / evacuation of the refrigeration cycle  
With safety thread for risk-free use with R410A



| Model  | No.          |
|--|--------------|
| Schrader Valve Tool in plastic carrying case | <b>87800</b> |



### Plate Fin Comb

#### Product Profile

##### KEY FEATURES

For straightening the plate fins of heat-exchangers  
6 different sizes in one tool

| Model          | Dimension                    | No.           |
|----------------|------------------------------|---------------|
| Plate fin comb | 8 - 9 - 10 - 12 - 14 - 15 mm | <b>224500</b> |



# Refrigeration & Air-Conditioning Technology

## Instructions for the use of Refrigerants

### Refrigerant data from CFC-alternative refrigerants

| Refrigerant                           | Composition                   | ODP  | GWP   | Temperature glide |
|---------------------------------------|-------------------------------|------|-------|-------------------|
| R22 (HFC-CFC refrigerant)             | CHCLF2                        | 0.05 | 1,700 | –                 |
| R134a (HFC chlorine-free refrigerant) | CF3CH2F                       | 0    | 1,300 | –                 |
| R32 (HFC chlorine-free refrigerant)   | CH2F2                         | 0    | 580   | –                 |
| R404A (HFC chlorine-free blends)      | 52% R143a, 44% R125, 4% R134a | 0    | 3,750 | –                 |
| R507 (HFC chlorine-free blends)       | 50% R143a, 50% R125           | 0    | 3,800 | –                 |
| R407C (HFC chlorine-free blends)      | 23% R32, 25% R125, 52% R134a  | 0    | 1,610 | 7.5K              |
| R410A (HFC chlorine-free blends)      | 50% R32, 50% R125             | 0    | 1,890 | 0.2K              |

ODP = Ozone Depletion Potential (degree in which the ozone layer is destroyed)

GWP = Global Warming Potential (degree in which it contributes to the greenhouse effect)

### Instructions for safe and proper use of the refrigerants:

#### Refrigerant:

Wear protective gloves and safety goggles  
Do not let refrigerant come in contact with skin  
Do not inhale high concentrations of vapours  
(Lack of oxygen causes a narcotic effect and is a danger to life)

Do not smoke around refrigerant  
Working place / room must be thoroughly aired,  
if necessary extracted

#### Refrigerant bottles:

Secure against accidents, do not throw  
Do not expose to direct sunlight and do not place near radiators  
or other heat sources  
Do not use open flame

Do not disassemble or remove valves  
Damaged bottles need to be properly returned  
Close empty containers

#### Air-conditioners:

Air-conditioner leaks need to be repaired immediately  
Do not allow refrigerant to leak while filling or doing  
maintenance work

In high concentrations (for example pipe burst), leave the room  
and do not enter again until it has been properly ventilated  
Only do brazing work together with protective nitrogen gas and  
only in well ventilated areas

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### Flare connections

Normal flare size in accordance with JIS B8607:2008

Flare outer diameter in relationship to the pipe diameter

| Pipe outer diameter<br>mm / inch | Metric   | Wall thickness<br>mm / inch | Flare outer diameter with<br>R22-, R134a-, R404-, R407C<br>air-conditioners | Flare outer diameter with<br>R410A air-conditioners |
|----------------------------------|----------|-----------------------------|---|---|
| 6 mm                             | –        | 1 mm                        | 8.5 mm  | 9.1 mm  |
| 8 mm                             | –        | 1 mm                        | 11.1 mm   | 11.1 mm   |
| 10 mm                            | –        | 1 mm                        | 13.6 mm   | 13.2 mm   |
| 12 mm                            | –        | 1 mm                        | 15.3 mm   | 16.5 mm   |
| 16 mm                            | –        | 1 mm                        | 19.5 mm   | 19.2 mm   |
| 18 mm                            | –        | 1 mm                        | 22.0 mm   | 22.7 mm   |
| 1/4"                             | 6.35 mm  | 0.35"                       | 9.0 mm  | 9.1 mm  |
| 5/16"                            | 7.94 mm  | 0.35"                       | 11.0 mm   | 11.1 mm   |
| 3/8"                             | 9.52 mm  | 0.35"                       | 13.0 mm   | 13.2 mm   |
| 1/2"                             | 12.70 mm | 0.35"                       | 16.2 mm   | 16.6 mm   |
| 5/8"                             | 15.88 mm | 0.35"                       | 19.4 mm   | 19.7 mm   |
| 3/4"                             | 19.05 mm | 0.35"                       | 23.3 mm   | 24.0 mm   |



### Conversion table pressure

| mbar | Micron | TORR | mm HG Vacuum |
|------|--------|------|--------------|
| 10   | 7,516  | 7.5  | 752          |
| 5    | 3,759  | 3.6  | 756          |
| 2    | 1,503  | 1.5  | 758          |
| 1    | 752    | 0.75 | 759          |
| 0.5  | 376    | 0.36 |              |
| 0.4  | 300    | 0.30 |              |
| 0.3  | 225    | 0.23 |              |
| 0.2  | 150    | 0.15 |              |
| 0.1  | 75     | 0.08 |              |
| 0.09 | 68     |      |              |
| 0.07 | 53     |      |              |
| 0.06 | 45     |      |              |
| 0.05 | 38     |      |              |
| 0.04 | 30     |      |              |
| 0.03 | 22     |      |              |
| 0.02 | 15     |      |              |
| 0.01 | 8      |      |              |

### Conversion table temperature

Conversion from °C in °F:  $^{\circ}\text{C} \times 1.8 + 32 = ^{\circ}\text{F}$

Conversion from °F in °C:  $(^{\circ}\text{F} - 32) : 1.8 = ^{\circ}\text{C}$

| °C  | °F  | °C  | °F   | °F  | °C  | °F   | °C   |
|-----|-----|-----|------|-----|-----|------|------|
| 100 | 212 | 30  | 86   | 212 | 100 | 70   | 21   |
| 95  | 203 | 25  | 77   | 200 | 93  | 60   | 16   |
| 90  | 194 | 20  | 68   | 190 | 88  | 50   | 10   |
| 85  | 185 | 15  | 59   | 180 | 82  | 40   | 4    |
| 80  | 176 | 10  | 50   | 170 | 77  | 30   | -1   |
| 75  | 167 | 4   | 39   | 160 | 71  | 20   | -7   |
| 70  | 158 | 0   | 32   | 150 | 66  | 10   | -12  |
| 65  | 149 | -10 | 14   | 140 | 60  | 0    | -18  |
| 60  | 140 | -20 | -4   | 130 | 54  | -10  | -23  |
| 55  | 131 | -30 | -22  | 120 | 49  | -20  | -29  |
| 50  | 122 | -40 | -40  | 110 | 43  | -30  | -34  |
| 45  | 113 | -50 | -58  | 100 | 38  | -40  | -40  |
| 40  | 104 | -60 | -76  | 90  | 32  | -50  | -46  |
| 35  | 95  | -73 | -101 | 80  | 27  | -60  | -51  |
|     |     |     |      |     |     | -112 | -80  |
|     |     |     |      |     |     | -460 | -273 |



### Common threads

| UNF-Thread  | SAE-Thread | Outer diameter (max. mm) | Internal diameter (min mm) | Lodes per inch | Increment (mm) |
|-------------|------------|--------------------------|----------------------------|----------------|----------------|
| 7/16" - 20  | 1/4"       | 11.079                   | 9.738                      | 20             | 1.270          |
| 1/2" - 20   | 5/16"      | 12.667                   | 11.328                     | 20             | 1.270          |
| 5/8" - 18   | 3/8"       | 15.839                   | 14.348                     | 18             | 1.411          |
| 3/4" - 16   | 1/2"       | 19.012                   | 17.330                     | 16             | 1.588          |
| 7/8" - 14   | -          | 22.184                   | 20.262                     | 14             | 1.814          |
| 7/8" - 14   | 5/8"       | 22.184                   | 20.262                     | 14             | 1.814          |
| 1" - 14     | 3/4"       | 25.357                   | 23.437                     | 14             | 1.814          |
| 11/16" - 14 | -          | 26.947                   | 25.024                     | 14             | 1.814          |
| 11/8" - 12  | -          | 28.529                   | 26.284                     | 12             | 2.117          |
| 11/4" - 12  | 7/8"       | 31.704                   | 29.459                     | 12             | 2.117          |
| 13/8" - 12  | -          | 34.877                   | 32.634                     | 12             | 2.117          |
| 11/2" - 12  | 1          | 38.052                   | 35.809                     | 12             | 2.117          |



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# General-Purpose Tools

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# General-Purpose Tools

## Pliers

### ROFASTLOCK

Fast adjusting water pump pliers



**Product Profile**

**KEY FEATURES**

- Up to 50% faster calibration of the gripping width
- 14 adjustable positions
- Easily adjustable by pressing the button
- Reliable, zero-play and positioning is gentle on material
- Extremely durable
- Gripping and holding of rounded, squared and flat work pieces

**TECHNICAL DATA**

**Chrome vanadium steel**, tempered, drop forged with heavy-duty box joint

**Polished head and joint**

**Double hardened jaws**, extremely durable (61 HRC)

**Safety lock** prevents unintentional opening

**Double hardened jaws**  
Extremely durable (61 HRC)

**Closed positioning system**  
Reliable, zero-play and positioning is gentle on material with the MIM: Metal Injection Molding (Precision locking mechanism) (MIM: Metal Injection Molding)

**Safety lock**  
Prevents unintentional opening

**Easily adjustable by pressing the button**

**Ergonomic design**  
Comfortable use

**Anti-slip, plastic covered handles**  
High grip reliability

**Universal clamping jaw**  
Gripping and holding of rounded, squared and flat objects

**14 adjustable positions**

**up to 50% quicker adjustment!**



Optimal positioning on the workpiece



| Model                      | L<br>inch / mm | inch / mm   |   |       | No.            |
|----------------------------|----------------|-------------|---|-------|----------------|
| ROFASTLOCK                 | 7" / 175       | 1" / 28     | 1 | 6     | <b>70531</b>   |
| ROFASTLOCK                 | 10" / 250      | 1.1/4" / 32 | 1 | 6     | <b>70532</b>   |
| ROFASTLOCK                 | 12" / 300      | 1.1/2" / 42 | 1 | 6     | <b>70533</b>   |
| ROFASTLOCK display         |                |             |   | 1(10) | <b>070532D</b> |
| ROFASTLOCK 10" with hanger |                |             |   | 1     | <b>070532E</b> |

Grips pipes



Grips hexagonal



Grips sheets

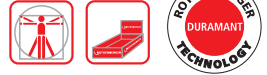


Grip in confined spaces



### ROGRIP

Self-positioning multi-purpose pliers



#### Product Profile

##### KEY FEATURES

- Automatic fit on a wide range of materials up to  $\varnothing$  42 mm, with one handed operation, even for larger pipe diameters
- Optimum force transmission
- Firm grip on any surface, even under the toughest conditions

##### TECHNICAL DATA

**Chrome vanadium steel**, tempered, drop forged with heavy-duty box joint  
**Drop forged steel**  
**Double hardened teeth** extremely durable



**Double hardened teeth**  
 Firm grip on any surface even under the toughest conditions

**Automatic fit**  
**One handed operation**, even on larger pipe diameters and on a wide range of materials up to  $\varnothing$  42 mm

**Safe use**  
 Prevents fingers from getting pinched

**Improved leverage compared to conventional pliers**  
 Optimum force transmission



**Optional: plastic jaws**  
 For refined fixtures

**Ergonomic design**  
 Comfortable use

No. 070558D

| Model      | inch / mm | inch / mm   | g   |   |   | No.          |
|------------|-----------|-------------|-----|---|---|--------------|
| ROGRIP 10" | 10" / 250 | 1.5/8" / 42 | 475 | 1 | 6 | <b>70558</b> |

| Model                      |      | No.            |
|----------------------------|------|----------------|
| ROGRIP 10" counter display | 1(6) | <b>070558D</b> |
| ROGRIP plastic jaws        | 1(2) | <b>70559</b>   |

Grips pipes



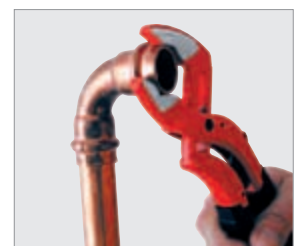
Grips hexagonal



Grips sheets



Grips installation connections



# General-Purpose Tools

## Pliers

### Water Pump Pliers SP

Complies with DIN 5231 D, with heavy-duty box joint, chrome vanadium steel, drop forged, tempered, polished head and joint



#### Product Profile

##### KEY FEATURES

- Ideal for hard-to-reach places with the longer, thinner pliers head with measurements favourable for corners
- Optimum grip for reliable hold of pipes, flat objects, squared and hexagonal screws
- Long service life through induction hardened teeth
- Variable use: 7 size settings
- Non-slip even on smooth surfaces
- Safe use with the crush and pinch protection

##### TECHNICAL DATA

Complies with DIN 5231 D  
 Heavy-duty box-joint  
 Abrasion-resistant surface protection with the epoxy-powder coating  
 Chrome vanadium steel  
 Drop forged, tempered  
 Polished head and joint

#### Asymmetrical gripping surface

Optimum grip with the rhombus-shaped gripping surface

#### Measurements favourable for corners

Ideal for hard-to-reach places

#### Self-clamping jaws

non-slip even on smooth pipes

#### Induction hardened teeth

Long service life and high wear resistance

#### Ergonomically shaped anti-slip legs

Reliable hold

7 size settings (10" and 12"), solid and durable

Variable use

#### Crush and clamp guard

Safe use

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#### Optimum grip



No. 070528D

| L                   | L   | ⊙         | ⊙       | ⚖   | 📦     | 📦 | No.            |
|---------------------|-----|-----------|---------|-----|-------|---|----------------|
| inch                | mm  | max. inch | max. mm | g   |       |   |                |
| 7"                  | 175 | 1"        | 28      | 150 | 1     | 6 | <b>70527</b>   |
| 10"                 | 250 | 1.1/4"    | 32      | 290 | 1     | 6 | <b>70528</b>   |
| 12"                 | 300 | 1.1/2"    | 42      | 460 | 1     | 6 | <b>70529</b>   |
| 10" Counter display |     |           |         |     | 1(12) |   | <b>070528D</b> |



No. 70527

No. 70528

No. 70529



### Water Pump Pliers Type SPK



#### KEY FEATURES

- Features similar to type SP, additionally with plastic covered handles

Increased safety:  
Plastic covered handles!



|                     |      |    |           |         |     |       |   | No.            |
|---------------------|------|----|-----------|---------|-----|-------|---|----------------|
|                     | inch | mm | max. inch | max. mm | g   |       |   |                |
| 7"                  | 175  |    | 1"        | 28      | 165 | 1     | 6 | <b>70521</b>   |
| 10"                 | 250  |    | 1.1/4"    | 32      | 315 | 1     | 6 | <b>70522</b>   |
| 12"                 | 300  |    | 1.1/2"    | 42      | 475 | 1     | 6 | <b>70523</b>   |
| 10" Counter display |      |    |           |         |     | 1(12) |   | <b>070522D</b> |

### Grooved Water Pump Pliers CL

Chrome vanadium steel, chrome-plated, drop forged, tempered, polished head and sliding joint, even jaws, **in compliance with DIN 5231 E**



#### KEY FEATURES

- Completely relieves the joint screw with relief-milled grooves
- No slipping of the joint possible
- Absolutely firm fit in every open position
- Easy, smooth adjustment
- Induction hardened teeth for a long service life
- Crush and clamp guard prevent injuries
- Plastic covered handles



|        |      |    |           |         |       |   | No.          |
|--------|------|----|-----------|---------|-------|---|--------------|
|        | inch | mm | max. inch | max. mm | g     |   |              |
| 9.1/2" | 245  |    | 1.1/2"    | 38      | 330   | 6 | <b>70591</b> |
| 12"    | 300  |    | 2"        | 60      | 560   | 6 | <b>70592</b> |
| 16"    | 420  |    | 4"        | 100     | 1,150 | 6 | <b>70593</b> |



# General-Purpose Tools

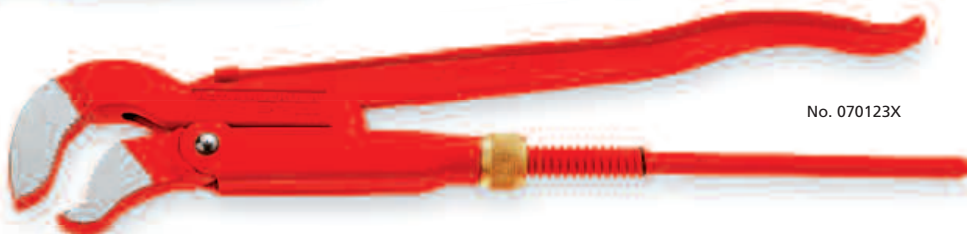
## Pliers

### Sets for Professionals

Practice-oriented set of pipe wrenches and pipe cutter



No. 070124X



No. 070123X



No. 070122X

Safe grip by staggered gear tooth system



No. 402311 (optional)

Constant, tight working radius of 123 mm!



For further information see 12



No. 70027

Optimum grip by rhombusform



No. 70528

11

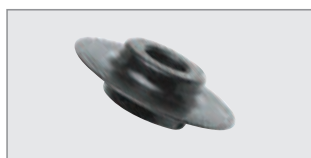
**3-part set (No. 070130X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), 2" (No. 070124X)

**4-part set (No. 070135X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

**3-part set (No. 070140X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

| Model                               | kg  |   | No.            |
|-------------------------------------|-----|---|----------------|
| Set 1 - 1.1/2" - 2"                 | 5.0 | 1 | <b>070130X</b> |
| Set 1 - 1.1/2" + Wapu SP 10 + TC 35 | 3.1 | 1 | <b>070135X</b> |
| Set 1 - 1.1/2" + Wapu SP 10"        | 2.7 | 1 | <b>070140X</b> |
| Tool bag "Trendy"                   | 1.8 | 1 | <b>402311</b>  |

### ACCESSORIES



| Description                     | g   |      | No.            |
|---------------------------------|-----|------|----------------|
| Spare cutter wheel for TC 35 CU | 100 | 1(5) | <b>070017D</b> |

### Corner Pipe Wrench 45° "SUPER S"

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Self-clamping: 3-point clamping ensures reliable and firm grip even on smooth pipes
- Reliable grip and non-slip with teeth set against turning direction, induction hardened
- Double-T profile jaws, ideal for clamping different material forms, enables universal application



| inch   | mm | max. inch | max. mm | g     |      | No.     |
|--------|----|-----------|---------|-------|------|---------|
| 1/2"   | 22 | 10"       | 250     | 400   | 1 18 | 070121X |
| 1"     | 35 | 12"       | 300     | 810   | 1 18 | 070122X |
| 1.1/2" | 46 | 16"       | 420     | 1.440 | 1 16 | 070123X |

| inch | mm | max. inch | max. mm | g     |      | No.     |
|------|----|-----------|---------|-------|------|---------|
| 2"   | 65 | 20"       | 540     | 2.440 | 1 10 | 070124X |
| 3"   | 80 | 24"       | 640     | 3.400 | 1 6  | 70125   |

### Corner Pipe Wrench 45°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 45° angled



| inch | mm | max. inch | max. mm | g   |     | No.     |
|------|----|-----------|---------|-----|-----|---------|
| 1/2" | 22 | 10"       | 250     | 370 | 1 8 | 070131X |
| 1"   | 35 | 12"       | 300     | 740 | 1 6 | 070132X |

| inch   | mm | max. inch | max. mm | g     |   | No.     |
|--------|----|-----------|---------|-------|---|---------|
| 1.1/2" | 46 | 16"       | 420     | 1.340 | 1 | 070133X |
| 2"     | 65 | 20"       | 540     | 2.400 | 1 | 070134X |

### Pipe Wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



| inch   | mm | max. inch | max. mm | g     |     | No.     |
|--------|----|-----------|---------|-------|-----|---------|
| 1"     | 35 | 12"       | 300     | 740   | 1 8 | 070110X |
| 1.1/2" | 46 | 16"       | 420     | 1.340 | 1 6 | 070111X |
| 2"     | 65 | 20"       | 540     | 2.400 | 1 6 | 070112X |

| inch | mm  | max. inch | max. mm | g     |   | No.   |
|------|-----|-----------|---------|-------|---|-------|
| 3"   | 100 | 24"       | 640     | 3.400 | 1 | 70113 |
| 4"   | 140 | 36"       | 750     | 5.600 | 1 | 70114 |





# General-Purpose Tools

## Pliers

### One Handed Pipe Wrench "HEAVY DUTY"

#### KEY FEATURES

- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of Ø using scale on hook
- Wearing parts replaceable:  
Hook and heel jaw can be purchased separately
- Monoblock cast body with high strength, double T profile, forged jaw and hook, fine polished, teeth set against turning direction, induction hardened, tempered and non-slip adjustment screw



US-Norm GGG-W-651  
Type II Class A!

| L    | L    | Ø      | Ø   | kg    |   | No.    | No.   | No.   |
|------|------|--------|-----|-------|---|--------|-------|-------|
| inch | mm   | inch   | mm  |       |   | pliers | hook  | jaws  |
| 8"   | 200  | 1/2"   | 22  | 0,40  | 4 | 70150  | 70200 | 70190 |
| 10"  | 250  | 1.1/2" | 49  | 0,78  | 4 | 70151  | 70201 | 70191 |
| 12"  | 300  | 2"     | 60  | 1,25  | 4 | 70152  | 70202 | 70192 |
| 14"  | 350  | 2"     | 60  | 1,68  | 4 | 70153  | 70203 | 70193 |
| 18"  | 450  | 2.1/2" | 76  | 2,67  | 2 | 70154  | 70204 | 70194 |
| 24"  | 600  | 3"     | 90  | 4,32  | 1 | 70155  | 70205 | 70195 |
| 36"  | 900  | 5"     | 140 | 7,92  | 1 | 70156  | 70206 | 70196 |
| 48"  | 1200 | 6"     | 166 | 15,80 | 1 | 70157  | 70207 | 70197 |

### One Handed Pipe Wrench "ALUDUR"

#### KEY FEATURES

- Features similar to **HEAVY DUTY**
- **Weight savings of approx. 40%:** extremely light, high strength aluminium alloy
- Wearing parts replaceable: hook and heel jaw can be purchased separately



US-Norm GGG-W-651  
Type I Class B!

| L    | L    | Ø      | Ø   | kg   |   | No.    | No.   | No.   |
|------|------|--------|-----|------|---|--------|-------|-------|
| inch | mm   | inch   | mm  |      |   | pliers | hook  | jaws  |
| 10"  | 250  | 1.1/2" | 49  | 0,48 | 4 | 70159  | 70201 | 70191 |
| 14"  | 350  | 2"     | 60  | 0,99 | 4 | 70160  | 70203 | 70192 |
| 18"  | 450  | 2.1/2" | 76  | 1,63 | 2 | 70161  | 70204 | 70194 |
| 24"  | 600  | 3"     | 90  | 2,51 | 1 | 70162  | 70205 | 70195 |
| 36"  | 900  | 5"     | 140 | 5,00 | 1 | 70163  | 70206 | 70196 |
| 48"  | 1200 | 6"     | 166 | 8,42 | 1 | 70164  | 70207 | 70197 |

### One Handed Pipe Wrench "STILLSON"

#### KEY FEATURES

- Features similar to **HEAVY DUTY**
- Hardened adjustment nut presses onto the handle during use and prevents undesired readjustment
- Optimised double-spring construction guarantees quick and firm self-clamping, ensuring secure hold even on smooth pipes



US-Norm GGG-W-651  
Type I Class B!

| L    | L   | Ø      | Ø   | kg   |     | No.    | No.   |
|------|-----|--------|-----|------|-----|--------|-------|
| inch | mm  | inch   | mm  |      |     | pliers | hook  |
| 8"   | 200 | 3/4"   | 27  | 0,28 | 1 4 | 70350  | 70374 |
| 10"  | 250 | 1"     | 34  | 0,59 | 1 4 | 70351  | 70375 |
| 12"  | 300 | 1.1/4" | 43  | 0,79 | 1 4 | 70352  | 70376 |
| 14"  | 350 | 1.1/2" | 49  | 1,04 | 1 4 | 70353  | 70377 |
| 18"  | 450 | 2"     | 60  | 1,82 | 1 2 | 70354  | 70378 |
| 24"  | 600 | 2.1/2" | 76  | 3,08 | 1 1 | 70355  | 70379 |
| 36"  | 900 | 3.1/2" | 102 | 5,69 | 1 1 | 70356  | 70380 |



### One Handed Pipe Wrench "OFFSET PATTERN HEAVY DUTY"

#### KEY FEATURES

- Offset wrench head is ideal for working in confined spaces (e.g. near to the wall)
- One handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of pipe Ø using scale on hook
- Wearing parts replaceable: hook and heel jaw can be purchased separately



|     |      |        |      |       | No. pliers | No. hook     | No. jaws     |              |
|-----|------|--------|------|-------|------------|--------------|--------------|--------------|
|     | inch | mm     | inch | mm    | g          |              |              |              |
| 10" | 250  | 1.1/2" | 49   | 750   | 4          | <b>70166</b> | <b>70201</b> | <b>70191</b> |
| 14" | 350  | 2"     | 60   | 1,460 | 4          | <b>70167</b> | <b>70203</b> | <b>70192</b> |

### One Handed Corner Pipe Wrench 90°

#### KEY FEATURES

- Features similar to "HEAVY DUTY"
- **Weight savings of approx. 40%:** extremely light, high strength aluminium alloy



|     |      |        |      |       | No. pliers | No. hook     | No. jaws     |              |
|-----|------|--------|------|-------|------------|--------------|--------------|--------------|
|     | inch | mm     | inch | mm    | g          |              |              |              |
| 14" | 350  | 2"     | 60   | 890   | 1          | <b>70115</b> | <b>70203</b> | <b>70192</b> |
| 18" | 450  | 2.1/2" | 76   | 1,490 | 1          | <b>70116</b> | <b>70204</b> | <b>70194</b> |

### Chain Pipe Wrench 4" R/L

#### KEY FEATURES

- Profile handle made of drop forged chrome vanadium steel, polished head with hardened special tooth system, powerful chain made of tempered special steel
- Double-sided teeth surface set against the turning direction for use in both directions without re-inserting



|    |           |         |      |     | No. |              |
|----|-----------|---------|------|-----|-----|--------------|
|    | max. inch | max. mm | inch | mm  | g   |              |
| 4" | 115       | 12"     | 300  | 780 | 1   | <b>70235</b> |

### Chain Pipe Wrench "HEAVY DUTY"

Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable

#### KEY FEATURES

- Strong chain made of tempered special steel – fits every cross-section
- Double-sided tooth system for ratchet-like use, for right and left-handed operation



|        |           |         | jaws width |      | No. pliers   | No. jaws     |
|--------|-----------|---------|------------|------|--------------|--------------|
|        | max. inch | max. mm | mm         | kg   |              |              |
| 1.1/2" | 49        | 38      | 350        | 1.4  | <b>70242</b> | <b>70571</b> |
| 2.1/2" | 76        | 52      | 690        | 3.5  | <b>70243</b> | <b>70572</b> |
| 4"     | 115       | 63      | 940        | 6.7  | <b>70244</b> | <b>70573</b> |
| 6"     | 166       | 78      | 1,120      | 126  | <b>70245</b> | <b>70574</b> |
| 8"     | 220       | 80      | 1,280      | 172  | <b>70246</b> | <b>70575</b> |
| 12"    | 324       | 84      | 1,630      | 24.2 | <b>70247</b> | <b>70576</b> |

| Model                         |      | No.          |
|-------------------------------|------|--------------|
|                               | kg   |              |
| Spare chain HEAVY DUTY 2 1/2" | 0.95 | <b>70263</b> |
| Spare chain HEAVY DUTY 4"     | 1.40 | <b>70264</b> |
| Spare chain HEAVY DUTY 6"     | 280  | <b>70265</b> |
| Spare chain HEAVY DUTY 8"     | 3.40 | <b>70266</b> |
| Spare chain HEAVY DUTY 12"    | 510  | <b>70267</b> |



# General-Purpose Tools

## Pliers

### Fittings Wrench 90°

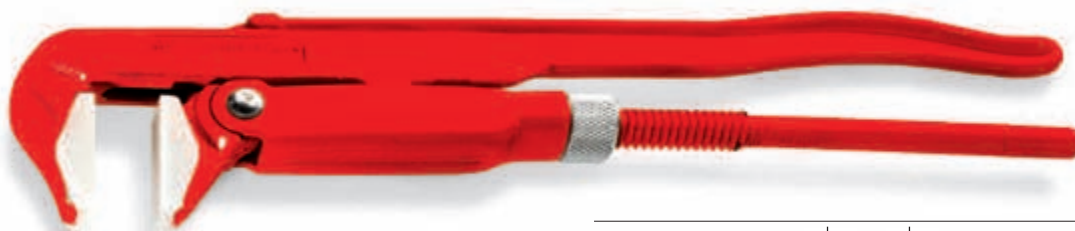
Special chrome vanadium steel, steel forged

#### KEY FEATURES

- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
- High-quality DURAMANT surface coating



Plastic jaws, gentle grip!



| max. inch    | max. mm | inch | mm  | g   |   |   | No.          |
|--------------|---------|------|-----|-----|---|---|--------------|
| 1"           | 35      | 14"  | 350 | 740 | 1 | 6 | <b>70545</b> |
| Plastic jaws |         |      |     | 10  |   |   | <b>70548</b> |

### Fitting Key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces



No. 350850



No. 350900

| Model           | L<br>mm | Clamping width and depth<br>mm |    | g   | No.           |
|-----------------|---------|--------------------------------|----|-----|---------------|
| Grid adjustment | 260     | 75                             | 45 | 690 | <b>350850</b> |
| Roll adjustment | 275     | 65                             | 45 | 780 | <b>350900</b> |

### SANIGRIP/SANIGRIP PL

#### Valve plier PL

Special chrome vanadium steel, drop forged, chrome-plated, 4 adjustable sizes at joint, with toothed grip jaws. SANIGRIP PL designed with plastic jaws to protect fittings

#### KEY FEATURES

- Secure and gentle grip on valuable fittings without damaging polished surfaces
- Optimum grip is ideal for plastic screw joints up to  $\varnothing$  62 mm (siphon)



| Model                               | inch | mm  | max. mm | min. mm | g   | No.          |
|-------------------------------------|------|-----|---------|---------|-----|--------------|
| SANIGRIP                            | 10"  | 250 | 80      | 14      | 270 | <b>70415</b> |
| SANIGRIP PL                         | 10"  | 250 | 62      | 14      | 280 | <b>70416</b> |
| Plastic jaws (pair) for SANIGRIP PL |      |     |         |         | 10  | <b>70417</b> |

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### Sealing Grip Pliers

Chrome vanadium steel, nickel-plated, tempered, hardened jaws

- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes  $\varnothing$  4 - 16 mm and hoses
- With leverage and quick-release lever, adjustable and lockable



|  inch |  mm | Jaw width<br>mm |  g | No.          |
|--|--|-----------------|---|--------------|
| 10"  | 250  | 4 - 16          | 490   | <b>70250</b> |






### Pipe Welding Grip Pliers

Chrome vanadium steel, nickel-plated, hardened jaws made of chrome vanadium steel

- For safe, central clamping of pipes and round material aligned during welding work
- Reliable 3-point support, for steel pipes up to  $\varnothing$  3"
- U-shaped clamping jaws allow enough room for welding
- With leverage and quick-release lever, adjustable and lockable



|  inch |  mm | Jaw width<br>mm |  g | No.          |
|--|--|-----------------|---|--------------|
| 11"  | 280  | 95              | 840   | <b>70257</b> |



### EASYGRIP

#### Automatic strap wrench for plastic pipes $\varnothing$ 20 - 160 mm (3/4" - 6")

The indispensable tool for socket welding large diameter plastic pipes




#### KEY FEATURES

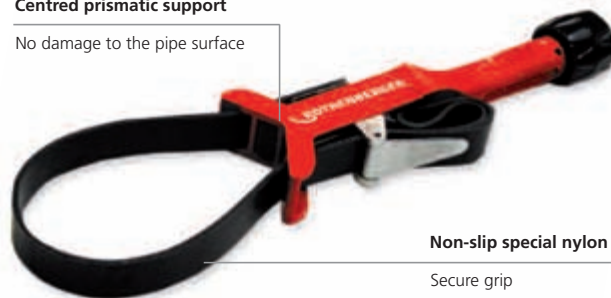
- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap



Centred prismatic support

No damage to the pipe surface

| Model                |  mm |  inch |  kg | No.          |
|----------------------|--|--|--|--------------|
| EASYGRIP             | 20-160   | 3/4"   | 1.0  | <b>55075</b> |
| Spare strap EASYGRIP |  |  | 0.1  | <b>55076</b> |



Non-slip special nylon strap

Secure grip






### Strap and Fittings Wrench

Made of aluminium special alloy, with replaceable nylon strap

#### KEY FEATURES

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)



|  inch |  mm |  inch |  mm |  kg | No.          |
|--|--|--|--|--|--------------|
| 3"   | 90   | 12"  | 300  | 280  | <b>70240</b> |
| Spare strap 3"   |  |  |  | 20   | <b>70268</b> |
| 8"   | 220  | 12"  | 300  | 290  | <b>70241</b> |
| Spare strap 8"   |  |  |  | 30   | <b>70269</b> |



# General-Purpose Tools

## Installation Wrenches

### UNI Stepped Key Set

For installation and removal of heating valve nipples, tank connectors and short tap extensions. Chrome vanadium steel, hardened, nickelplated, square drive 1/2"

#### Product Profile

#### KEY FEATURES

- Universally applicable: cam, internal hexagonal and 12-edged driver, size 3/8 - 1/2 - 3/4 - 1" and other sizes in between
- No canting of nipples and screw connections with the special stepped key design
- Combination key allows installation and removal of heating nipples, tank connections and short tap extensions
- 1/2" Ratchet makes installations quick and easy



No. 73298



No. 73280

1/2" ratchet

Fast and easy installation



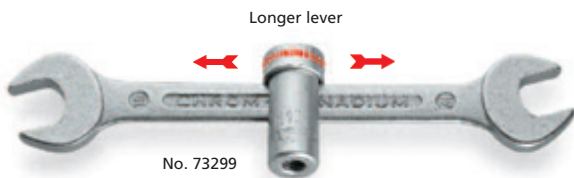
No. 27180

| Model                            | g   | mm | cm | No.          |
|----------------------------------|-----|----|----|--------------|
| Set: UNI Stepped Key and Ratchet | 670 | 1  | 12 | <b>73297</b> |
| UNI Stepped Key                  | 120 | 1  |    | <b>73298</b> |
| Gas Stepped Key                  | 80  | 1  |    | <b>73280</b> |
| 1/2" ratchet                     | 440 | 1  |    | <b>27180</b> |



### Express Spanner

Chrome vanadium steel, drop forged, chrome-plated



No. 73299

#### KEY FEATURES

#### Express Spanner

- Ideal for hard-to-reach screws
- Quick installation of sink fittings and corner valves
- Hanger bolt M10, middle piece with internal screw thread
- Easy loosening of the hanger bolt with integrated ball seat
- When the internal hexagonal screw is loosened, the hanger bolt can be moved on the spanner axle (longer lever)

#### Ring Ratchet Express Spanner

- With the smallest of ratchet angles, fine-toothed, R/L switchable, 12-edged, flat offset



### Ring Ratchet Express Spanner



No. 73293

| Spanner width                   | for hanger bolts<br>Size | L<br>mm | g   | No.          |
|---------------------------------|--------------------------|---------|-----|--------------|
|                                 |                          |         |     |              |
| Wrench size 10 x muzzle size 13 | M 8                      | 220     | 250 | <b>73290</b> |
| Wrench size 17 x muzzle size 19 | M10                      | 220     | 250 | <b>73299</b> |
| Wrench size 17 x muzzle size 19 | M12                      | 220     | 250 | <b>73291</b> |
| Wrench size 17 x ring size 19   | M10                      | 260     | 390 | <b>73293</b> |

# General-Purpose Tools

## Installation Wrenches

### Bolt Driver

Bolt driver M6, M8, M10, M12 with 1/2" ratchet connector

#### KEY FEATURES

- Without damage to the screw thread, for express and hanger bolts
- Easy loosening of the screw with the integrated ball seat

Simple installation



4-part set (No. 26164) includes: Bolt Driver M6 (No. 26160), M8 (No. 26161), M10 (No. 26162), M12 (No. 26163), steel carrying case

| Model                   | mm | g   | No.          |
|-------------------------|----|-----|--------------|
| Set M6 - M8 - M10 - M12 |    | 650 | <b>26164</b> |
| Bolt driver M 6         | 35 | 70  | <b>26160</b> |
| Bolt driver M 8         | 40 | 90  | <b>26161</b> |
| Bolt driver M 10        | 45 | 100 | <b>26162</b> |
| Bolt driver M 12        | 50 | 120 | <b>26163</b> |



### Tap Extension Key

#### KEY FEATURES

- For tap extensions
- Chrome vanadium special steel

| Model   | Size        | g   | No.           |
|---|-------------|-----|---------------|
| Tap Extension Key, right angled, bent, size 12 / 17 | 1/2" / 3/4" | 200 | <b>351040</b> |



### Sanitary Four Way Key

Chrome Vanadium Special steel

#### KEY FEATURES

10 functions:

- Four external hexagonal with double nut box spanner for tap extensions 3/8", 1/2", 3/4", 1" up to 100 mm and installation/removal of heating valves and tank connectors
- 2 inner threads M10 and M12 for hanger bolts



2 Inside-squares for plug-connections 3/8" and 1/2"!

| Model                                   | Dimensions mm | g   | No.           |
|---|---------------|-----|---------------|
| Sanitary Four Way Key with 10 functions | 220 x 220     | 610 | <b>351043</b> |

### Sanitary Four Way Key

Chrome Vanadium Special steel

#### KEY FEATURES

Multi-functional combined key:

- Four external hexagonal 3/8", 1/2", 3/4", 1" for short tap, extensions, installation and removal of heating valves and tank connectors
- 2 Inner threads M10 and M6 for hanger bolts (wash basin fittings)



| Model                                 | Dimensions mm | g   | No.           |
|---------------------------------------|---------------|-----|---------------|
| Sanitary Four Way Key multifunctional | 200 x 200     | 530 | <b>351044</b> |

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# General-Purpose Tools

## Installation Wrenches

### ROFIX SANISET Profi

Installation tool



No. 73201



No. 73200



No. 73202

**1 tool for 5 uses!**

User-friendly combination set for installation of basins, toilets and drains

#### KEY FEATURES

- Bolt Driver Tool for M8 and M10 enables easy use in all positions
- Seat for the 9 mm and 13 mm extensions, as well as the ROQUICK 2 adaptor with the Bolt Driver Tool
- Ease of use with the RO-QUICK 2 adaptor for the most common drains in bath tubs and basins



Set (No. 73200) includes: Bolt driver tool (No. 73201), RO-QUICK 2 adaptor (No. 73206), extension 9 mm (No. 73210), 13 mm (No. 73213), steel carrying case (No. 26410)

Set (No. 73202) like Set (No.73200), in addition extensions size 10, size 11, size 12 and size 14

| Model                     | with extension mm | g     | No.          |
|---------------------------|-------------------|-------|--------------|
| ROFIX SANISET Profi       | 9-10-11-12-13-14  | 1,500 | <b>73202</b> |
| ROFIX SANISET             | 9-13              | 900   | <b>73200</b> |
| <b>Bolt Driver tool</b>   |                   |       |              |
| M8/M10                    | 215               | 120   | <b>73201</b> |
| RO-QUICK 2-Adaptor        | 90                | 40    | <b>73206</b> |
| Special extension size 9  | 185               | 50    | <b>73210</b> |
| Special extension size 10 | 185               | 50    | <b>73209</b> |
| Special extension size 11 | 185               | 50    | <b>73208</b> |
| Special extension size 12 | 185               | 50    | <b>73212</b> |
| Special extension size 13 | 185               | 50    | <b>73213</b> |
| Special extension size 14 | 185               | 50    | <b>73214</b> |

### RO-QUICK

Valve key

Release valve holder and key for eccentric and standard valves



No. 70413

No. 70414



#### KEY FEATURES

- Quick and problem-free use by the installation of bathtubs, basins and sinks
- Can be used from the bottom up
- With 2 facing, spring mounted locking cams, as well as holder with T-handle
- Adaptor with star handle for showers, bathtubs (optional accessory)
- Torque-proof immediately on insertion

**No damage to chrome-plated parts!**

| Model        | L mm | g   | No.          |
|--------------|------|-----|--------------|
| RO-QUICK Set |      |     | <b>70439</b> |
| RO-QUICK     | 120  | 300 | <b>70414</b> |
| Adaptor      | 75   | 70  | <b>70413</b> |

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### ROCLICK

#### Combined open-ended / hinged ratchet wrench

Chrome vanadium steel, polished and high shine chrome-plated

#### KEY FEATURES

- Moveable ring ratchet allows for use even in tight spaces
- Precise work with the fine-running ratchet (72 teeth)

**Small operating radius of only 5°!**

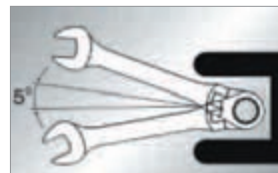


Fig. ROCLICK wrench set

7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

| Model                          | g     | kg   | No.          |
|--------------------------------|-------|------|--------------|
| ROCLICK spanner set, 7 pieces  | 1,150 | 1 12 | <b>70490</b> |
| ROCLICK combined spanner 8 mm  | 50    | 1 12 | <b>70465</b> |
| ROCLICK combined spanner 9 mm  | 50    | 1 12 | <b>70454</b> |
| ROCLICK combined spanner 12 mm | 50    | 1 12 | <b>70455</b> |
| ROCLICK combined spanner 15 mm | 50    | 1 12 | <b>70456</b> |
| ROCLICK combined spanner 16 mm | 50    | 1 12 | <b>70457</b> |
| ROCLICK combined spanner 18 mm | 50    | 1 12 | <b>70458</b> |
| ROCLICK combined spanner 10 mm | 90    | 1 12 | <b>70466</b> |
| ROCLICK combined spanner 11 mm | 100   | 1 12 | <b>70467</b> |
| ROCLICK combined spanner 13 mm | 145   | 1 12 | <b>70468</b> |
| ROCLICK combined spanner 14 mm | 150   | 1 12 | <b>70469</b> |
| ROCLICK combined spanner 17 mm | 220   | 1 12 | <b>70470</b> |
| ROCLICK combined spanner 19 mm | 270   | 1 12 | <b>70471</b> |

Small 5° operating radius



Adjustable inclination angle



### Torque Spanner Set

Set consists of adjustable torque spanners (10-70 Nm) and 6 inserts sizes 17, 22, 24, 26, 27 and 29 mm for flare joints on 1/4", 3/8", 1/2" and 5/16" pipelines in compliance with DIN 3866



8-part set (No. 175001) includes: 1 spanner each 17 - 22 - 24 - 26 - 27 - 29 mm, torque spanner set, carrying case

| Model                        | kg  | No.           |
|------------------------------|-----|---------------|
| Torque spanner set, 8 pieces | 3.5 | <b>175001</b> |

| Ø     | Wrench size | Tightening torque |
|-------|-------------|-------------------|
| 1/4"  | 17 mm       | 18 Nm             |
| 3/8"  | 22 mm       | 42 Nm             |
| 1/2"  | 24 mm       | 55 Nm             |
| 1/2"  | 26 mm       | 55 Nm             |
| 5/16" | 27 mm       | 65 Nm             |
| 5/16" | 29 mm       | 65 Nm             |

### ROTURN

#### Combined ring / open-ended spanner

Chrome vanadium steel, polished and high shine chrome-plated



#### KEY FEATURES

- Loosening of up to 70% of damaged hexagonal screws with hexagonal open end and ridged profile
- Ergonomically optimised: Pressure on the flat side of spanner makes work easier



Protects the hand



8 part set (No. 70475) includes: ROTURN 10 - 11 - 13 - 14 - 16 - 17 - 19 - 22 mm, in plastic case

| Model                        | kg  | No.               |
|------------------------------|-----|-------------------|
| ROTURN spanner set, 8 pieces | 1.7 | 1 12 <b>70475</b> |

# General-Purpose Tools

## Installation Wrenches

### ROCLICK Key

Chrome vanadium, head black atramentized



#### KEY FEATURES

- With the spring mechanism – the harder the pressure, all the more firmer the grip
- Self-ratcheting effect when turning back
- Fast extraction and loosening of screws
- Suitable especially for screws on pipes, cables and rods



| Model          | Key width<br>mm | L<br>mm | g  | No.          |
|----------------|-----------------|---------|----|--------------|
| ROCLICK Key 10 | 10              | 134     | 80 | <b>70420</b> |
| ROCLICK Key 11 | 11              | 137     | 80 | <b>70419</b> |
| ROCLICK Key 12 | 12              | 137     | 80 | <b>70421</b> |
| ROCLICK Key 13 | 13              | 137     | 90 | <b>70422</b> |
| ROCLICK Key 14 | 14              | 140     | 90 | <b>70423</b> |

| Model          | Key width<br>mm | L<br>mm | g   | No.          |
|----------------|-----------------|---------|-----|--------------|
| ROCLICK Key 16 | 16              | 184     | 130 | <b>70424</b> |
| ROCLICK Key 17 | 17              | 184     | 140 | <b>70425</b> |
| ROCLICK Key 19 | 19              | 188     | 188 | <b>70426</b> |
| ROCLICK Key 21 | 21              | 230     | 230 | <b>70427</b> |
| ROCLICK Key 24 | 24              | 240     | 240 | <b>70418</b> |

### Ring Spanner

Chrome vanadium steel, drop forged, chrome-plated



#### KEY FEATURES

- Ideal for hard-to-reach screws with the finely toothed R/L switchable ratchet
- 12-edged, flat offset, robust and indestructible

7-part set (No. 70281) includes: ROCLICK 10 x 11, 12 x 14, 13 x 17, 15 x 16, 19 x 22, 24 x 27, 30 x 32 mm

| Model                | L<br>mm | g     | Box  | No.          |
|----------------------|---------|-------|------|--------------|
| Spanner Set 7 pieces |         | 3,500 | 1    | <b>70281</b> |
| 10 x 11              | 200     | 120   | 1 36 | <b>70270</b> |
| 12 x 14              | 230     | 200   | 1 36 | <b>70271</b> |
| 13 x 17              | 250     | 280   | 1 36 | <b>70272</b> |

| Model   | L<br>mm | g   | Box  | No.          |
|---------|---------|-----|------|--------------|
| 15 x 16 | 260     | 320 | 1 36 | <b>70273</b> |
| 19 x 22 | 310     | 440 | 1 36 | <b>70274</b> |
| 24 x 27 | 360     | 700 | 1 36 | <b>70276</b> |
| 30 x 32 | 410     | 990 | 1 36 | <b>70277</b> |

### Adjustable Wrench

Chrome vanadium steel, drop forged, chrome-plated and polished



#### KEY FEATURES

- Precise operation: Smooth-running and robust roller with minimum play in the sliding guides



| Size<br>inch | L<br>mm | Clamping width<br>up to mm | g   | No.          |
|--------------|---------|----------------------------|-----|--------------|
| 4"           | 120     | 16                         | 80  | <b>70440</b> |
| 6"           | 160     | 20                         | 100 | <b>70441</b> |
| 8"           | 210     | 25                         | 220 | <b>70442</b> |

| Size<br>inch | L<br>mm | Clamping width<br>up to mm | g     | No.          |
|--------------|---------|----------------------------|-------|--------------|
| 10"          | 250     | 29                         | 390   | <b>70443</b> |
| 12"          | 300     | 34                         | 660   | <b>70444</b> |
| 15"          | 380     | 44                         | 1,170 | <b>70445</b> |

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# General-Purpose Tools

## Installation Wrenches

### One Handed Type R

The ideal multi-function spanner with ratchet function – for almost all bolt and nut applications up to a size of 42 mm (1.1/4")

#### KEY FEATURES

- Self-clamping even on smooth pipes, bolts, shafts and broken off head of hexagonal screws

Enormous leverage!



| L   | L    | Clamping width | Clamping width |     | No.          |
|-----|------|----------------|----------------|-----|--------------|
| mm  | inch | mm             | inch           | g   |              |
| 160 | 6"   | SW 9 - 17      | 1/8" - 3/8"    | 80  | <b>70220</b> |
| 200 | 8"   | SW 14 - 28     | 1/4" - 3/4"    | 200 | <b>70221</b> |

| L   | L    | Clamping width | Clamping width |     | No.          |
|-----|------|----------------|----------------|-----|--------------|
| mm  | inch | mm             | inch           | g   |              |
| 255 | 10"  | SW 16 - 33     | 3/8" - 1"      | 340 | <b>70222</b> |
| 310 | 12"  | SW 22 - 42     | 1/2" - 1.1/4"  | 520 | <b>70223</b> |

### Double-End Box Wrench Set

Chrome vanadium steel, chrome-plated DIN 838

10-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32 mm

12-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



### Open-Ended Wrench Set

Chrome vanadium steel, chrome-plated DIN 3113

8-piece

8x8, 10x10, 12x12, 13x13, 14x14, 17x17, 19x19, 22x22 mm



| Model                              | No.           |
|------------------------------------|---------------|
| Double-end box wrench set 10-piece | <b>849064</b> |
| Double-end box wrench set 12-piece | <b>849065</b> |

| Model                         | No.           |
|-------------------------------|---------------|
| Open-ended wrench set 8-piece | <b>849554</b> |

### Double-end Box Wrench Set

Chrome vanadium steel, chrome-plated DIN 3110

10-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32

12-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



| Model                              | No.           |
|------------------------------------|---------------|
| Double-end box wrench set 10-piece | <b>849334</b> |
| Double-end box wrench set 12-piece | <b>849335</b> |
| 6x7 mm                             | <b>849285</b> |
| 8x9 mm                             | <b>849289</b> |
| 10x11 mm                           | <b>849293</b> |
| 12x13 mm                           | <b>849299</b> |
| 14x15 mm                           | <b>849303</b> |

| Model    | No.           |
|----------|---------------|
| 16x17 mm | <b>849306</b> |
| 18x19 mm | <b>849308</b> |
| 20x22 mm | <b>849311</b> |
| 21x23 mm | <b>849313</b> |
| 24x27 mm | <b>849317</b> |
| 25x28 mm | <b>849319</b> |
| 30x32 mm | <b>849323</b> |

# General-Purpose Tools

## Screwdrivers

**EUROLINE®**



Screwdrivers

### Product Profile

#### KEY FEATURES

- High force transmission with 2 component handle
- High torque
- Guarantees perfect seat on screw head
- Colour coding for different tips enables quick differentiation
- Oil, fat and hydrocarbon resistant

#### CHARACTERISTICS

- Blade made of chrome vanadium steel with high-torque and hardness, matt chrome-plated
- Hardened, burnished tip with high durability for reliable force transmission even for tightly secured screws
- Guaranteed perfect seat on screw head, long service life even with long term use
- Handle made of high-quality plastic, grip-friendly AS knob form

Surface treated precision tip

Guarantees perfect seat on screw head

Colour coding for different tips

Quick differentiation

2 component handle made of high-quality plastic, grip-friendly AS knob form

High force transmission



Blade made of high-quality, tempered chrome vanadium steel

High torque proof



### Screwdriver Sets

| Model                    | kg   | No.          |
|--------------------------|------|--------------|
| Screwdriver Set Pozidriv | 0.70 | <b>73571</b> |
| Screwdriver Set Phillips | 0.70 | <b>73570</b> |

Sets include:

|  | Pozidriv<br>No. 73571          | Phillips<br>No. 73570          |
|--|--------------------------------|--------------------------------|
|  | 3,5 x 75 mm<br>4 x 100 mm      | 3,5 x 75 mm<br>4 x 100 mm      |
|  | 5,5 x 125 mm<br>6,5 x 150 mm   | 5,5 x 125 mm<br>4 x 100 mm     |
|  | PZ 1 x 100 mm<br>PZ 2 x 125 mm |                                |
|  |                                | PH 1 x 100 mm<br>PH 2 x 125 mm |

### Slot Screwdriver



### Phillips Screwdriver



### Pozidriv Screwdriver



| Tip design | Width x Length mm | Model    | g   | No.          |
|------------|-------------------|----------|-----|--------------|
| Slot       | 4.0 x 100         | Slot     | 45  | <b>73103</b> |
| Slot       | 5.5 x 125         | Slot     | 84  | <b>73131</b> |
| Slot       | 6.5 x 150         | Slot     | 128 | <b>73133</b> |
| Phillips   | PH 1 x 100        | Phillips | 80  | <b>73152</b> |
| Phillips   | PH 2 x 125        | Phillips | 98  | <b>73153</b> |
| Pozidriv   | PZ 1 x 100        | Pozidriv | 80  | <b>73161</b> |
| Pozidriv   | PZ 2 x 125        | Pozidriv | 98  | <b>73162</b> |

### ROBIT

#### 10-piece bit set

With magnet holder and front tip



| Model                    | No.          |
|--------------------------|--------------|
| ROBIT bit set (10-piece) | <b>73670</b> |

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### EUROLINE® IMPAKT

Screwdriver with continuous, strengthened blade

#### Product Profile

#### KEY FEATURES

- One-piece, strengthened blade with metal cap allows enables directed hammer blows, for example loosening stuck screws

Set (No. 73575) includes:

- 5,5 x 100 mm
- 6,5 x 125 mm
- 8 X 150 mm
- PH 1 x 80 mm
- PH 2 x 100 mm



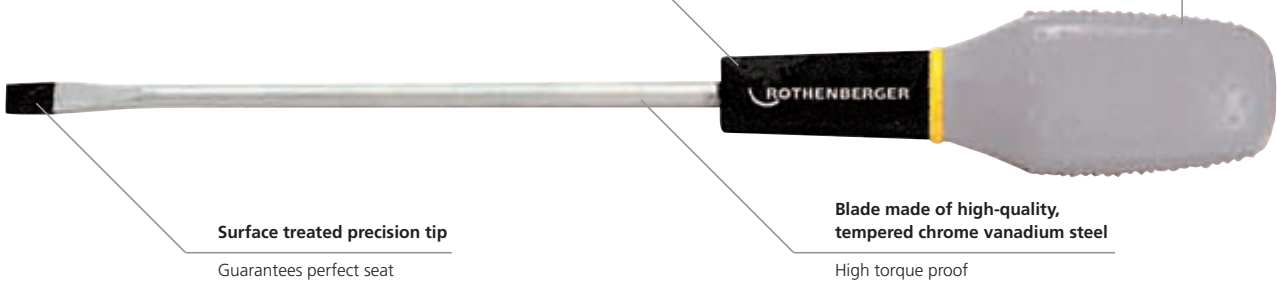
2 tools in 1!

Colour coding for different tips

Quick differentiation

Handle made of high-quality plastic, grip-friendly AS knob form

High force transmission



Surface treated precision tip

Guarantees perfect seat on screw head

Blade made of high-quality, tempered chrome vanadium steel

High torque proof

Constant strengthened blade with metal cap



5-piece set (No. 73575) includes: Slot screwdriver 55 x 100 (No. 73565), 6,5 x 125 (No. 73566), 8 x 150 (No. 73567), Phillips PH 1 x 80 mm 1 (No. 73536), PH 2 x 100 mm (No. 73537)

| Model                         | g   | No.   |
|-------------------------------|-----|-------|
| EUROLINE® IMPAKT Set 5 pieces | 950 | 73575 |

### Workshop Screwdriver Set

Blades made of chrome vanadium molybdenum steel, chrome-plated with hexagonal key aid, hard wood handles made of natural beech, varnished with leather cap



| Model   | g   | No.    |
|---|-----|--------|
| Workshop Screwdriver Set, includes:<br>Slot 4,5 x 90; 5,5 x 100; 6,5 x 125; 8 x 150<br>Phillips PH 1 x 80; PH 2 x 100 | 680 | 323015 |

### VDE Screwdriver Set

Blades made of chrome vanadium molybdenum steel, thoroughly hardened, extrusion-coated blade insulation tightly joined with handle, 1,000 Volt



| Model   | g   | No.    |
|---|-----|--------|
| VDE Screwdriver Set, includes:<br>Slot 2,5 x 75; 4,0 x 100; 5,5 x 125; 6,5 x 150<br>Phillips PH 1 x 80; PH 2 x 100 and live-wire-tester | 680 | 323126 |



# General-Purpose Tools

## Installation Aids

### ROCHECK

#### Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

##### KEY FEATURES

- With horizontal and head levels
- One side with 1/2" external screw thread

Precise Installation!



### ROCHECK

#### Spirit level for standard distances

Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

##### KEY FEATURES

- For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm

Exact Adjustment!

Exact installation by assembling jig for braces



4-part set (No. 70667) includes: Spirit level for angled valves 200 mm (No. 70661), Spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

| Model  | g     | No.          |
|--|-------|--------------|
| ROCHECK Set in steel case                          | 2,260 | <b>70667</b> |
| ROCHECK spirit level for angled valves 200 mm      | 220   | <b>70661</b> |
| ROCHECK spirit level for standard distances 300 mm | 260   | <b>70665</b> |

### Cartridge Extractor Set

Simple extraction of cartridges in taps



##### KEY FEATURES

- Simple extraction of cartridges in taps
- 4 adaptors with hook, threaded rod, screw or rivet adaptor for cartridges made before 1979, starting in 1979 and MOEM cartridges, as well as extraction tools

#### Simple use:

Screw the appropriate cartridge extractor on the threaded rod, attach to the cartridge, guide the cartridge body and counter piece over the thread rod, rotate the t-handle and pull the cartridge out of its seat.

Set (No. 854390) includes: T-handle (No. 854380), screw 12 x 92 (No. 854381), turning handle (No. 854382), threaded rod M10 x 130 (No. 854383), cartridge body 32 x 131 (No. 854384), cartridge extractor with thread (No. 854385), cartridge extractor with hook (No. 854386), cartridge extractor 20 x 45 (No. 854387), counter piece (No. 854388), steel carrying case

| Model      | kg   | No.           |
|------------|------|---------------|
| 9-part set | 1.25 | <b>854390</b> |

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### RODOKIT Set

#### Tap reseating tool

For accurate reshaping of worn tap seats from leaky spigots

#### KEY FEATURES

- Smooth, precise and centred chip removal with the special cutter with three milling cams
- Cone adaptor with multi-trapezoidal thread for various valve threads

Set (No. 70980) includes: Basic tool, thread adaptor size 1, 2, 3, 4, cone adaptor, cutter Ø 12-15-16-18 mm

| Model              | g     | No.          |
|--------------------|-------|--------------|
| RODOKIT Set        | 1,170 | <b>70980</b> |
| RODOKIT Basic Tool | 230   | <b>70981</b> |
| Cone adaptor       | 100   | <b>70992</b> |

| Dimensions | g  | Cutter       | Adaptor      |
|------------|----|--------------|--------------|
| 12 mm      | 10 | <b>70982</b> | <b>70986</b> |
| 15 mm      | 10 | <b>70983</b> | <b>70987</b> |
| 16 mm      | 10 | <b>70984</b> | <b>70988</b> |
| 18 mm      | 10 | <b>70985</b> | <b>70989</b> |



With rust-free steel cutter for high-quality armature!



### Tap Reseating Tool

For exact re-cutting of worn tap seats from leaky spigots

#### Product Profile

#### KEY FEATURES

- Fast and simple use with exact re-cutting of worn tap seats
- Cylindrical stepped threaded adaptor that is suitable for all conventional fittings
- Adjustable cutting pressure using spring and regulating screw enable precise work
- Exchangeable cutter is always ready for use

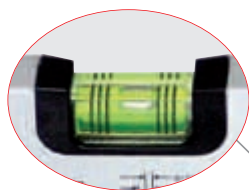
| Model  | inch      | g     | No.          |
|--|-----------|-------|--------------|
| Basic Tool with cutter<br>3/8" - 1/2" - 3/4" - 1" in Box | 3/8" - 1" | 350   | <b>70970</b> |
| Basic Tool with cutter<br>3/8" - 1/2" - 3/4" - 1"        | 3/8" - 1" | 980   | <b>70974</b> |
| and each with 3 seals in steel compartment               |           |       |              |
| Basic Tool with cutter<br>1/4" - 3/8" - 1/2" - 3/4" - 1" | 1/4" - 1" | 1,060 | <b>70972</b> |
| and each with 3 seals in steel box                       |           |       |              |
| Basic Tool without cutter                                |           | 250   | <b>70950</b> |
| Water-tap valve seat cutter                              |           |       | <b>70951</b> |
| Spare cutter   | 1/4"      | 10    | <b>70976</b> |
| Spare cutter   | 3/8"      | 10    | <b>70954</b> |
| Spare cutter   | 1/2"      | 10    | <b>70955</b> |
| Spare cutter   | 3/4"      | 20    | <b>70956</b> |
| Spare cutter   | 1"        | 30    | <b>70957</b> |



# General-Purpose Tools

## Installation Aids

### Standard Spirit Level



Six-ring spirit level for applying 1% and 2% gradients!

10 year warranty!



#### KEY FEATURES

- Deformation-free aluminium rectangular profile, anodised
- Imprinted, centred centimetre scale
- Shock and weather proof
- Horizontal and vertical levels, non-breakable, permanently aligned in carrier
- Measuring accuracy in normal position  $0.029^\circ = 0.5 \text{ mm} / \text{m}$

| L mm  | g   | No.           |
|-------|-----|---------------|
| 300   | 190 | <b>255030</b> |
| 400   | 260 | <b>255040</b> |
| 500   | 320 | <b>255050</b> |
| 600   | 340 | <b>255060</b> |
| 800   | 520 | <b>255080</b> |
| 1,000 | 640 | <b>255100</b> |
| 1,200 | 820 | <b>255120</b> |

### ROMATIC and Ruler

Measuring tape



#### KEY FEATURES

- Easy handling
- Automatic tape rewind
- With set/stop button that can be used as marker for repeated measurements



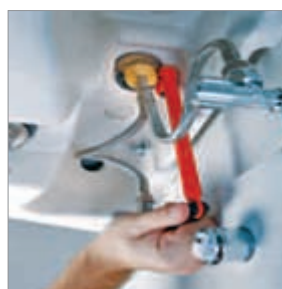
| Model          | Measuring length m | Tape width mm | g   | No.           |
|----------------|--------------------|---------------|-----|---------------|
| ROMATIC        | 3                  | 16            | 120 | <b>77396</b>  |
| ROMATIC        | 5                  | 19            | 230 | <b>77397</b>  |
| Flexible ruler | 2                  |               | 100 | <b>252100</b> |

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, very tough

#### KEY FEATURES

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation



| Clamping range |               | L mm | g   |   |    | No.          |
|----------------|---------------|------|-----|---|----|--------------|
| mm             | inch          | mm   | g   |   |    |              |
| 10 - 32        | 3/8" - 1.1/4" | 235  | 475 | 1 | 40 | <b>70228</b> |

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### Telescopic Basin Nut Wrench

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation



Telescopic attachment,  
4x adjustable in length!

| Clamping range |                 | L<br>mm   | g   | No.          |
|----------------|-----------------|-----------|-----|--------------|
| mm             | inch            |           |     |              |
| 10 - 32        | 3/8" - 1.1/4"   | 275 - 455 | 710 | <b>70225</b> |
| 20 - 48        | 3/4" - 1.7/8"   | 290 - 470 | 740 | <b>70226</b> |
| 32 - 63        | 1.1/4" - 2.1/2" | 290 - 470 | 780 | <b>70227</b> |

### Sheet Metal Crimping Pliers

Self-opening, PVC coated handles

- For joining of sheets up to 1 mm thick using ripple on pipe end
- Exact and quick adjustment



| L<br>inch | L<br>mm | Sheet thickness<br>mm | g   | No.          |
|-----------|---------|-----------------------|-----|--------------|
| 10"       | 250     | 1.0                   | 450 | <b>71095</b> |

### Tower Pincers / Concreter's Nippers

Special forged steel, slim head, polished, long plastic covered handles



| L<br>inch | L<br>mm | Clamping width<br>mm | g   | No.          |
|-----------|---------|----------------------|-----|--------------|
| 9"        | 225     | 22                   | 330 | <b>70118</b> |
| 10"       | 250     | 26                   | 440 | <b>70119</b> |

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, coated with adjustment screw



| Model            | L<br>mm | g   | No.           |
|------------------|---------|-----|---------------|
| Basin Nut Wrench | 270     | 580 | <b>351050</b> |

### ROBOLT Bolt Cutter

Effortless cutting of construction steel up to 1300 N/mm<sup>2</sup> (HRC 40), gate steel, concrete steel types I, II, III, IV, pre-stressed concrete steel and steel wire



| L<br>mm | L<br>inch | Cutting performance Ø mm |                        | kg   | No. Robot    | No. head     |
|---------|-----------|--------------------------|------------------------|------|--------------|--------------|
|         |           | 490 N/mm <sup>2</sup>    | 1300 N/mm <sup>2</sup> |      |              |              |
| 300     | 12"       | 5 mm - 3/16"             | 4 mm - 5/32"           | 0.75 | <b>75010</b> | <b>75020</b> |
| 350     | 14"       | 7 mm - 1/4"              | 5 mm - 3/16"           | 0.98 | <b>75011</b> | <b>75021</b> |
| 450     | 18"       | 8 mm - 5/16"             | 6 mm - 1/4"            | 1.60 | <b>75012</b> | <b>75022</b> |
| 600     | 24"       | 10 mm - 3/8"             | 8 mm - 5/10"           | 2.63 | <b>75013</b> | <b>75023</b> |
| 750     | 30"       | 13 mm - 1/2"             | 9 mm - 11/32"          | 4.00 | <b>75014</b> | <b>75024</b> |
| 900     | 36"       | 16 mm - 5/8"             | 10 mm - 3/8"           | 6.24 | <b>75015</b> | <b>75025</b> |
| 1,050   | 42"       | 19 mm - 3/4"             | 11 mm - 7/16"          | 9.39 | <b>75016</b> | <b>75026</b> |

### Universal Grip Wrench

Nickel-plated, forged chrome vanadium steel. Firm grip of profiles and flat materials. With lever gear and quick-release lever, adjustable and lockable



| L<br>inch | L<br>mm | Clamping width<br>mm | g   | No.          |
|-----------|---------|----------------------|-----|--------------|
| 10        | 250     | 32                   | 570 | <b>70252</b> |



# General-Purpose Tools

## Installation Aids

### Combination Pliers

For hard and soft wire, special tool steel, oil hardened, special slim form, chrome-plated head, zero-play joint and heavily insulated handles



| L mm | Model    | g   | No.    |
|------|----------|-----|--------|
| 180  | DIN 5244 | 250 | 324559 |

### Edge Cutter

For hard and soft wire, special tool steel, oil hardened, Swedish style, chrome-plated head, zero-play joint with heavily insulated handles



| L mm | Model     | g   | No.    |
|------|-----------|-----|--------|
| 160  | DIN 5238B | 210 | 324577 |

### Insulation Stripper

Special tool steel, oil hardened, chrome-plated, zero-play joint, heavily insulated handles, with adjustment screw and opening spring



| L mm | max mm | g   | No.    |
|------|--------|-----|--------|
| 165  | 5      | 160 | 324800 |

### Power Edge Cutter

For piano wire, hard and soft wire, powerful, special tool steel, oil hardened, chrome-plated head, zero-play joint, with heavily insulated handles



| L mm | Model     | g   | No.    |
|------|-----------|-----|--------|
| 160  | DIN 5238A | 250 | 324588 |

### Long Nose Pliers, straight

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles



| L mm | Model     | g   | No.    |
|------|-----------|-----|--------|
| 200  | DIN 5236A | 200 | 324737 |

### Long Nose Pliers, angled

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles



| L mm | Model     | g   | No.    |
|------|-----------|-----|--------|
| 200  | DIN 5236D | 200 | 324739 |


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### Allen Key with Cross Handle

Blade made of chrome vanadium special steel, shiny nickel-plated, shock-resistant handle



| Key width<br>SW mm | Blade length<br>mm |  g | No.           |
|--------------------|--------------------|---|---------------|
| 3                  | 200                | 30  | <b>321523</b> |
| 4                  | 200                | 40  | <b>321524</b> |
| 5                  | 200                | 80  | <b>321525</b> |
| 6                  | 200                | 100   | <b>321526</b> |
| 8                  | 200                | 130   | <b>321528</b> |
| 10                 | 200                | 220   | <b>321529</b> |
| 12                 | 200                | 290   | <b>321530</b> |

### Allen Key Set


CV steel 50Cr-V4, achromatised, hardness and torque in compliance with **DIN 911**



No. 321300



No. 70301/70302

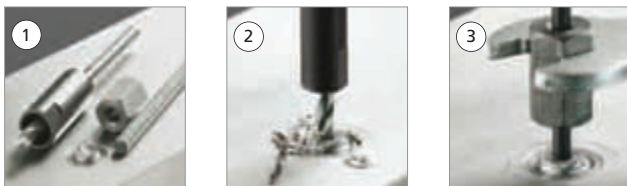
| Model       | Size<br>mm / inch                |  g | No.           |
|-------------|----------------------------------|---|---------------|
| Clip holder | 2,5-3-4-5-6-8-10 mm              | 340   | <b>70301</b>  |
| Clip holder | 3/32-1/8-5/32-3/16-1/4-5/16-3/8" | 340   | <b>70302</b>  |
| Ring        | 2-2,5-3-4-5-6-8-10 mm            | 250   | <b>321300</b> |

### Screw Extraction Sets

For boring out broken screws or bolts for threads M 5 - M 16

#### INSTRUCTIONS FOR USE

1. Apply bore with guide bush and the appropriate, ground HSS drill bit. Pre-bore for screws 7 mm dia. and above
2. Insert boring stud (no deformation of the drilled workpiece)
3. Attach boring nut and turn with spanner, do not tilt
4. Use special guide bushes for sunken or protruding rupture points



#### Instructions for screw extraction

For rough-running threads, spray on solution or apply heat. Boring studs are made of high-quality material, therefore they do not twist or heat up

### Screw Extraction Sets

Packaged in handy plastic box with spiral drills, guide bushes, boring studs and boring nuts


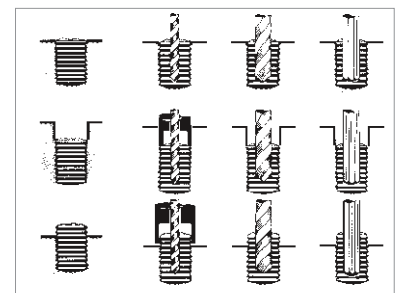
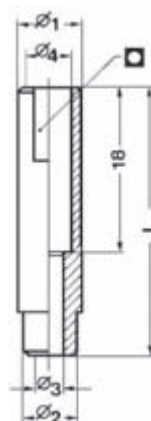


| Set    | Set contains complete for | Contains piece |  g | No.          |
|--------|---------------------------|----------------|---|--------------|
| Size 1 | M 5 - M 12                | 21 pieces      | 450   | <b>71310</b> |
| Size 2 | M 5 - M 16                | 25 pieces      | 580   | <b>71311</b> |



Fig. Screw Extraction Set, 25 pieces



| For thread | Guide-bush size | Guide-bush No. |  mm | Pre-boring No. |  mm | Boring No.   | Boring stud size | Boring stud No. | Boring nut hex for size | Boring nut No. |
|------------|-----------------|----------------|--|----------------|--|--------------|------------------|-----------------|-------------------------|----------------|
| M 5        | Size 1          | <b>71291</b>   |  |                | 3.2  | <b>71301</b> | Size 1           | <b>71281</b>    | Size 1/SW10             | <b>71286</b>   |
| M 6        | Size 2          | <b>71292</b>   |  |                | 3.2  | <b>71301</b> | Size 1           | <b>71281</b>    | Size 1/SW10             | <b>71286</b>   |
| M 7        | Size 3          | <b>71293</b>   | 3.2  | <b>71301</b>   | 4.8  | <b>71302</b> | Size 2           | <b>71282</b>    | Size 2/SW11             | <b>71287</b>   |
| M 8        | Size 4          | <b>71294</b>   | 3.2  | <b>71301</b>   | 4.8  | <b>71302</b> | Size 2           | <b>71282</b>    | Size 2/SW11             | <b>71287</b>   |
| M 9        | Size 5          | <b>71295</b>   | 4.8  | <b>71302</b>   | 6.4  | <b>71303</b> | Size 3           | <b>71283</b>    | Size 3/SW13             | <b>71288</b>   |
| M 10       | Size 6          | <b>71296</b>   | 4.8  | <b>71302</b>   | 6.4  | <b>71303</b> | Size 3           | <b>71283</b>    | Size 3/SW13             | <b>71288</b>   |
| M 12       | Size 7          | <b>71297</b>   | 4.8  | <b>71302</b>   | 8.0  | <b>71304</b> | Size 4           | <b>71284</b>    | Size 4/SW14             | <b>71289</b>   |
| M 14       | Size 8          | <b>71298</b>   | 6.4  | <b>71303</b>   | 8.7  | <b>71305</b> | Size 5           | <b>71285</b>    | Size 5/SW17             | <b>71290</b>   |
| M 15       | Size 9          | <b>71299</b>   | 6.4  | <b>71303</b>   | 8.7  | <b>71305</b> | Size 5           | <b>71285</b>    | Size 5/SW17             | <b>71290</b>   |
| M 16       | Size 10         | <b>71300</b>   | 6.4  | <b>71303</b>   | 8.7  | <b>71305</b> | Size 5           | <b>71285</b>    | Size 5/SW17             | <b>71290</b>   |



# General-Purpose Tools

## Cutting Discs

### Cutting Disc Assortment

For burr-free and quick cutting of stainless steel, steel, cast iron and stone

| Image | Description  | No.  | Alloyed and unalloyed steel | High strength steel | Tool steel | Rust- and acid-resistant steel | Edged steel profiles | Steel panel | Welded joints | Edged stainless steel profiles | Cast | Aluminium alloying | Copper | Brass / Bronze |      |                            |           |               |
|-------|--|--|-----------------------------|---------------------|------------|--------------------------------|----------------------|-------------|---------------|--------------------------------|------|--------------------|--------|----------------|------|----------------------------|-----------|---------------|
|       |  |  |                             |                     |            |                                |                      |             |               |                                |      |                    |        |                |      |                            |           |               |
|       | Cutting disc INOX Profi Plus (115 x 1 x 22)          | 71533  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ○    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc INOX Profi Plus (125 x 1 x 22)          | 71534  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ○    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc INOX Profi Plus (115 x 1,6 x 22)        | 71557  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       | Cutting disc INOX Profi Plus (125 x 1,6 x 22)        | 71558  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       | Cutting disc INOX Profi Plus (230 x 1,9 x 22)        | 71559  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       | Cutting disc Metal Profi flat (115 x 3 x 22)         | 71535  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi offset (115 x 3 x 22)       | 71536  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi offset (125 x 3 x 22)       | 71537  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi flat (125 x 3 x 22)         | 71538  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi offset (180 x 3 x 22)       | 71539  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi flat (180 x 3 x 22)         | 71540  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi flat (230 x 3 x 22)         | 71541  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Cutting disc Metal Profi offset (230 x 3 x 22)       | 71542  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Grinding disc Metal Profi offset (115 x 6)           | 71580  | ●                           | ○                   | ○          |                                |                      | ●           | ○             |                                | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       | Grinding disc Metal Profi offset (180 x 6)           | 71581  | ●                           | ○                   | ○          |                                |                      | ●           | ○             |                                | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       | Grinding disc Metal Profi offset (180 x 8)           | 71582  | ●                           | ○                   | ○          |                                |                      | ●           | ○             |                                | ○    | ○                  | ○      | ○              |      |                            |           |               |
|       |  | Grinding/Cutting disc INOX Safe Cut (115 x 2 / 1 x 22) | 71551                       | ●                   | ●          | ●                              | ●                    | ●           |               |                                | ●    | ●                  | ●      | ●              | ●    |                            |           |               |
|       |  | Grinding/Cutting disc INOX Safe Cut (125 x 2 / 1 x 22) | 71552                       | ●                   | ●          | ●                              | ●                    | ●           |               |                                | ●    | ●                  | ●      | ●              | ●    |                            |           |               |
|       | Grinding/Cutting disc INOX 2 in 1 (115 x 2,5 x 22)   | 71553  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ●    | ○                  | ○      | ○              |      |                            |           |               |
|       | Grinding/Cutting disc INOX 2 in 1 (125 x 2,5 x 22)   | 71554  | ●                           | ●                   | ●          | ●                              | ●                    |             |               | ●                              | ●    | ○                  | ○      | ○              |      |                            |           |               |
|       | Grinding/Cutting disc Iron Profi flat (230 x 3 x 22) | 71548  | ●                           | ●                   | ●          | ○                              | ●                    |             |               | ○                              | ●    | ●                  | ●      | ●              |      |                            |           |               |
|       | Grinding / Cutting Disc                              | No.  | Asphalt                     | Concrete            | Brick      | Aerated concrete               | Granite              | Limestone   | Clinker       | Marble                         | Tile | Firebrick          | Slate  | Terazzo        | Clay | Exposed aggregate concrete | Roof tile | Ductile pipes |
|       | Stone Profi offset (115 x 3 x 22)                    | 71543  | ○                           | ●                   | ●          | ●                              | ○                    | ●           | ○             | ●                              | ●    | ○                  | ●      | ●              | ●    | ●                          | ●         | ○             |
|       | Stone Profi offset (180 x 3 x 22)                    | 71544  | ○                           | ●                   | ●          | ●                              | ○                    | ●           | ○             | ●                              | ●    | ○                  | ●      | ●              | ●    | ●                          | ●         | ○             |
|       | Stone Profi flat (125 x 3 x 22)                      | 71545  | ○                           | ●                   | ●          | ●                              | ○                    | ●           | ○             | ●                              | ●    | ○                  | ●      | ●              | ●    | ●                          | ●         | ○             |
|       | Stone Profi flat (180 x 6 x 22)                      | 71547  | ○                           | ●                   | ●          | ●                              | ○                    | ●           | ○             | ●                              | ●    | ○                  | ●      | ●              | ●    | ●                          | ●         | ○             |

●● = very well suited   ● = well suited   ○ = partially suited



Follow all manufacturers instructions



Don't rough down



Follow work safety measures



Do not use defective grinding/cutting discs

### Mixed Display

#### Display includes:

- 2 x 5 x Profi Plus box (No. 071534D and 071533D)
- 2 x 5 x Safe Cut box (No. 071552D und 071551D)
- 2 x 5 x 2-in-1 box (No. 071553D and 071554D)

| Model                                 | Dimensions mm | kg   | No.          |
|---------------------------------------|---------------|------|--------------|
| Grinding / Cutting disc Mixed Display | 45 x 30 x 27  | 13.5 | <b>71555</b> |



### METAL PROFI

#### Grinding / cutting disc for metal

For universal use with long service life in metal machining. For machining of all types of metal, especially construction steel, sheet steel and welded joints

| Model  | Dimensions mm | g   |    | No.          |
|--------|---------------|-----|----|--------------|
| offset | 115 x 6       | 140 | 10 | <b>71580</b> |
| offset | 180 x 6       | 145 | 10 | <b>71581</b> |
| offset | 180 x 8       | 150 | 10 | <b>71582</b> |



### METAL PROFI

#### Grinding / cutting discs for metal

For universal use in metal machining

- Machining of high strength construction steel, cast iron, very good machining, cool cutting and high edge strength

| Model  | Dimensions mm | g   |    | No.          |
|--------|---------------|-----|----|--------------|
| flat   | 115 x 3 x 22  | 80  | 25 | <b>71535</b> |
| offset | 115 x 3 x 22  | 80  | 25 | <b>71536</b> |
| flat   | 125 x 3 x 22  | 90  | 25 | <b>71538</b> |
| offset | 125 x 3 x 22  | 90  | 25 | <b>71537</b> |
| flat   | 180 x 3 x 22  | 130 | 25 | <b>71540</b> |
| offset | 180 x 3 x 22  | 130 | 25 | <b>71539</b> |
| flat   | 230 x 3 x 22  | 160 | 25 | <b>71541</b> |
| offset | 230 x 3 x 22  | 160 | 25 | <b>71542</b> |



### INOX PROFI PLUS

#### Grinding / cutting discs for stainless steel (1 mm)

For thin sheet metal (e.g. in body work, tank equipment and container construction), steel cable, thin-walled profiles and pipes made of stainless steel and NE metals, composite materials (GFK), high-temperature materials

- This very thin wheel enables a one-of-a-kind clean cut with a minimum of effort in a short amount of time
- Millimetre accurate use, vibration-free operation without thermal blue discolouration or burr formation (burr-free)

| Model                                  | Dimensions mm  | g   |          | No.            |
|--|----------------|-----|----------|----------------|
| flat                                   | 115 x 1.0 x 22 | 30  | 1 25     | <b>71533</b>   |
| flat                                   | 125 x 1.0 x 22 | 40  | 1 25     | <b>71534</b>   |
| offset                                 | 230 x 1.9 x 22 | 180 | 1 25     | <b>71559</b>   |
| Profi Plus box 115 (Contains: 10 Stk.) |                | 350 | 1(10) 25 | <b>071533D</b> |
| Profi Plus box 125 (Contains: 10 Stk.) |                | 450 | 1(10) 25 | <b>071534D</b> |
| Inox Profi Plus flat                   | 115 x 1.6 x 22 | 48  | 1 25     | <b>71557</b>   |
| Inox Profi Plus flat                   | 125 x 1.6 x 22 | 64  | 1 25     | <b>71558</b>   |



# General-Purpose Tools

## Cutting Discs



### SAFE CUT

#### Cut-off disc for steel and stainless steel

- One-of-a-kind conical form that prevents the cut-off wheel from getting jammed in the workpiece and avoids the dangerous „Kick-Back“-Effect
- The profiles tapers from a 2 mm outside thickness to 1 mm on the inside, thus the cutting behaviour is optimised
- Comfortable, simple cutting with absolute peace-of-mind

| Model            | Dimensions mm  |     |       |    | No.            |
|------------------|----------------|-----|-------|----|----------------|
| flat             | 115 x 2/1 x 22 | 30  | 1     | 25 | <b>71551</b>   |
| flat             | 125 x 2/1 x 22 | 40  | 1     | 25 | <b>71552</b>   |
| Safe Cut box 115 |                | 350 | 1(10) |    | <b>071551D</b> |
| Safe Cut box 125 |                | 450 | 1(10) |    | <b>071552D</b> |



### 2 IN 1

#### Cut-off and grinding disc for steel and stainless steel

**2 in 1!**

- Fast cutting and side grinding in one step
- For cutting at a comfortable speed
- Instant (without changing wheel) deburring, chamfering and grinding
- The lateral load is certified (CN 12413)

| Model        | Dimensions mm  |     |       |    | No.            |
|--------------|----------------|-----|-------|----|----------------|
| flat         | 115 x 2.5 x 22 | 50  | 1     | 25 | <b>71553</b>   |
| flat         | 125 x 2.5 x 22 | 60  | 1     | 25 | <b>71554</b>   |
| 2in1 box 115 |                | 550 | 1(10) |    | <b>071553D</b> |
| 2in1 box 125 |                | 650 | 1(10) |    | <b>071554D</b> |



### STONE PROFI

#### Grinding / cutting disc for stone

For all kinds of construction material, such as concrete, stone, roof tile and lime sand brick.

- Long operating life and quick cuts

| Model  | Dimensions mm |     |    |  | No.          |
|--------|---------------|-----|----|--|--------------|
| offset | 115 x 3 x 22  | 80  | 25 |  | <b>71543</b> |
| offset | 125 x 3 x 22  | 90  | 25 |  | <b>71544</b> |
| flat   | 180 x 3 x 22  | 130 | 25 |  | <b>71545</b> |
| flat   | 230 x 3 x 22  | 160 | 25 |  | <b>71546</b> |



### CAST IRON PROFI

#### Grinding / cutting discs for SML / cast iron

- Easy cutting, long operating life, high cut consistency and strengthened cutting edge
- For professional use with cast iron, metal or construction steel

| Model | Dimensions mm |     |    |  | No.          |
|-------|---------------|-----|----|--|--------------|
| flat  | 230 x 3 x 22  | 160 | 25 |  | <b>71548</b> |





### PROFI PLUS

#### Twist drill set DIN 338 Type N

HSS rolled, all drill diameters in 0.5 mm diameter steps



No. 816990



No. 817000

| Model        | Drill range<br>mm | Number<br>drills | g    | No.           |
|--------------|-------------------|------------------|------|---------------|
| In steel box | 1.0 - 10.0        | 19 pc.           | 710  | <b>817000</b> |
| In steel box | 1.0 - 13.0        | 25 pc.           | 1400 | <b>817003</b> |
| In round box | 1.0 - 10.0        | 19 pc.           | 465  | <b>816990</b> |

| mm  | No.           | mm   | No.           |
|-----|---------------|------|---------------|
| 1.0 | <b>817012</b> | 6.5  | <b>817067</b> |
| 1.5 | <b>817017</b> | 7.0  | <b>817072</b> |
| 2.0 | <b>817022</b> | 7.5  | <b>817077</b> |
| 2.5 | <b>817127</b> | 8.0  | <b>817082</b> |
| 3.0 | <b>817032</b> | 9.0  | <b>817092</b> |
| 3.5 | <b>817037</b> | 9.5  | <b>817097</b> |
| 4.0 | <b>817042</b> | 10.0 | <b>817102</b> |
| 4.5 | <b>817047</b> | 10.5 | <b>817104</b> |
| 5.0 | <b>817052</b> | 11.0 | <b>817106</b> |
| 5.5 | <b>817057</b> | 11.5 | <b>817108</b> |
| 6.0 | <b>817062</b> | 12.0 | <b>817110</b> |

### HM-Stone Drill

High-performance drill made with carbide



| mm | No.           | mm | No.           |
|----|---------------|----|---------------|
| 4  | <b>112040</b> | 9  | <b>112049</b> |
| 5  | <b>112042</b> | 10 | <b>112050</b> |
| 6  | <b>112044</b> | 12 | <b>112052</b> |
| 7  | <b>112046</b> | 13 | <b>112053</b> |
| 8  | <b>112047</b> | 14 | <b>112054</b> |

### SDS-Plus Hammer Drill

With carbide bits and super conveyor groove, fits in all drilling machines with SDS-plus, in SB plastic box



| mm | L<br>mm | No.           | mm | L<br>mm | No.           |
|----|---------|---------------|----|---------|---------------|
| 5  | 110     | <b>111401</b> | 14 | 160     | <b>111431</b> |
| 6  | 110     | <b>111405</b> | 14 | 260     | <b>111432</b> |
| 6  | 160     | <b>111406</b> | 15 | 160     | <b>111429</b> |
| 8  | 110     | <b>111411</b> | 15 | 260     | <b>111437</b> |
| 8  | 160     | <b>111412</b> | 16 | 210     | <b>111439</b> |
| 8  | 210     | <b>111413</b> | 16 | 300     | <b>111440</b> |
| 10 | 110     | <b>111418</b> | 18 | 350     | <b>111445</b> |
| 10 | 160     | <b>111419</b> | 18 | 450     | <b>111447</b> |
| 10 | 210     | <b>111420</b> | 20 | 300     | <b>111449</b> |
| 10 | 260     | <b>111421</b> | 22 | 450     | <b>111450</b> |
| 10 | 450     | <b>111422</b> | 24 | 460     | <b>111454</b> |
| 12 | 160     | <b>111424</b> | 25 | 450     | <b>111455</b> |
| 12 | 260     | <b>111426</b> | 28 | 450     | <b>111456</b> |
| 12 | 460     | <b>111427</b> |    |         |               |

### Flat Center Bit

For precise drilling depth



| mm | No.           | mm         | No.           |
|----|---------------|------------|---------------|
| 10 | <b>464010</b> | 28         | <b>464028</b> |
| 12 | <b>464012</b> | 32         | <b>464032</b> |
| 14 | <b>464014</b> | 35         | <b>464035</b> |
| 16 | <b>464016</b> | 38         | <b>464038</b> |
| 18 | <b>464018</b> | 40         | <b>464040</b> |
| 20 | <b>464020</b> | Extension  | <b>463610</b> |
| 25 | <b>464025</b> | 6 x 300 mm |               |



# General-Purpose Tools

## Drill Bits

### Chassis Punch

Chassis Punch for uniform deformation-free punching of sheets, steel sheets, V2A sheets, copper and aluminium



Metric tension screw with highest quality grade 129 (from Ø 152 mm)

Extremely durable

Optimum support due to 3-point cut

Clean cutting process



Fig. Chassis Punch

#### KEY FEATURES

- Ideal for tight spaces such as fuse boxes, junction boxes, instrument panels, sinks, car bodies
- Special tool steel, burnished
- Guaranteed long service life
- Material thickness up to max. 4 mm

5-piece set (No. 21801) includes: 1 Chassis Punches Ø 28.3 mm (No. 21828), 32 mm (No. 21832), 35 mm (No. 21835), spare screw in plastic case

| Model                                | g   | No.          |
|--------------------------------------|-----|--------------|
| Chassis Punch, 5 pieces              | 750 | <b>21801</b> |
| Spare screw M10 x 1.0 for Ø 16-38 mm |     | <b>21902</b> |
| Spare screw M12 x 1.5 for Ø 39-50 mm |     | <b>21903</b> |
| Spare screw M16 x 1.5 for Ø 51-65 mm |     | <b>21904</b> |

| Through-size mm | Through-size | g   | No.          | Through-size mm | Through-size | g   | No.           |
|-----------------|--------------|-----|--------------|-----------------|--------------|-----|---------------|
| 127             | M12/PG7      | 50  | <b>21813</b> | 225             | PG16         | 160 | <b>21869</b>  |
| 14              |              | 60  | <b>21814</b> | 23              |              | 160 | <b>21823</b>  |
| 152             | PG9          | 60  | <b>21866</b> | 24              |              | 180 | <b>21824</b>  |
| 16              |              | 60  | <b>21816</b> | 25              |              | 180 | <b>21825</b>  |
| 17              |              | 60  | <b>21817</b> | 26              |              | 180 | <b>21826</b>  |
| 18              |              | 60  | <b>21818</b> | 27              |              | 220 | <b>21827</b>  |
| 18.6            | PG11         | 120 | <b>21867</b> | 28.3            | PG21         | 220 | <b>21828</b>  |
| 19              |              | 140 | <b>21819</b> | 29              |              | 220 | <b>21829</b>  |
| 20              |              | 140 | <b>21820</b> | 30              |              | 240 | <b>21830</b>  |
| 20.4            | M20/PG13.5   | 150 | <b>21868</b> | 31              |              | 250 | <b>21831</b>  |
| 21              |              | 140 | <b>21821</b> | 32              |              | 260 | <b>21832X</b> |
| 22              |              | 160 | <b>21822</b> | 33              |              | 260 | <b>21833</b>  |

| Through-size mm | Through-size | g   | No.          | Through-size mm | Through-size | g   | No.          |
|-----------------|--------------|-----|--------------|-----------------|--------------|-----|--------------|
| 34              |              | 260 | <b>21834</b> | 46              |              | 770 | <b>21846</b> |
| 35              |              | 270 | <b>21835</b> | 47              | PG36         | 770 | <b>21847</b> |
| 36              |              | 270 | <b>21836</b> | 48              |              | 790 | <b>21848</b> |
| 37              | PG29         | 370 | <b>21837</b> | 49              |              | 820 | <b>21849</b> |
| 38              |              | 370 | <b>21838</b> | 50              |              | 820 | <b>21850</b> |
| 39              |              | 480 | <b>21839</b> | 51              |              | 820 | <b>21851</b> |
| 40              |              | 480 | <b>21840</b> | 52              |              | 850 | <b>21852</b> |
| 41              |              | 630 | <b>21841</b> | 53              |              | 850 | <b>21853</b> |
| 42              |              | 660 | <b>21842</b> | 54              | PG42         | 850 | <b>21854</b> |
| 43              |              | 660 | <b>21843</b> | 55              |              | 850 | <b>21855</b> |
| 44              |              | 720 | <b>21844</b> | 60              | PG48         | 850 | <b>21860</b> |
| 45              |              | 750 | <b>21845</b> |                 |              |     |              |

### UNIDRILL®

#### HSS stepped drill bit

In one step, sheets can be centred, spot drilled, drilled and deburred



No. 21313



3-piece set (No. 21313) includes: Stepped drill bit size 1 (No. 21305), size 2 (No. 21306) and size 3 (No. 21307), in steel case

| Model   | mm  | g | No.          |
|---|-----|---|--------------|
| UNIDRILL stepped drill bit set, 3 pieces 4.0 - 30.0 | 660 |   | <b>21313</b> |

| Size | mm     | L mm | Shaft mm | g   | No.          |
|------|--------|------|----------|-----|--------------|
| 1    | 4 - 12 | 65   | 6        | 22  | <b>21305</b> |
| 2    | 4 - 20 | 75   | 8        | 60  | <b>21306</b> |
| 3    | 4 - 30 | 100  | 10       | 185 | <b>21307</b> |






### UNIDRILL®

#### HSS sheet metal cone bit

Step-less and burr-free drilling of holes without deformation, suitable for even the thinnest of sheets, no pre-drilling, can be re-polished, with spot drilling tip for size 3 and above

3-piece set (No. 21750) includes: Sheet metal cone bit size 1 (No. 21541), size 2 (No. 21542) and size 3 (No. 21543), in plastic cartridge

| Size                          |  mm | Shaft mm |  mm |  g | No.          |
|-------------------------------|--|----------|--|---|--------------|
| UNIDRILL set with drill paste |  |          | 3.0 - 30.5   | 380   | <b>21545</b> |
| 1                             | 58   | 6        | 3.0 - 14.0   | 20  | <b>21541</b> |
| 2                             | 71   | 8        | 5.0 - 20.0   | 56  | <b>21542</b> |
| 3                             | 76   | 9        | 16.0 - 30.5  | 120   | <b>21543</b> |
| EVERCOOL drill paste, 50 g    |  |          |  | 80  | <b>21549</b> |




Burr-free drilling



### HSS Bimetal Hole Saws


Suitable for carbon steel (up to 700 N/mm<sup>2</sup> strength), non-ferrous and light metals, plastics, plaster, light construction, fibre, plywood and wood processing

Sets include: Hole Saw Set in plastic case, adaptor holder A1 (No. 114161) and A2 (No. 114162) with center drill, plastic case

| Hole Saw Sets                                 |  kg | No.           |
|---|---|---------------|
| 19 - 22 - 29 - 38 - 44 - 57 mm                | 1.27  | <b>114201</b> |
| 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm | 1.70  | <b>114202</b> |

### Adaptor Holder

For HSS Bimetal hole saws with center drill

| Type                    | for Hole saw    | Adaptor     |  g | No.           |
|-------------------------|-----------------|-------------|---|---------------|
| A1                      | up to 30 mm     | 12 mm - hex | 75  | <b>114161</b> |
| A2                      | 32 up to 152 mm | 12 mm - hex | 230   | <b>114162</b> |
| Spare center drill, HSS |                 | 6.35 mm     | 20  | <b>114171</b> |
| Extension 300 mm        |                 |             |   | <b>114175</b> |



No. 114201



No. 114161




No. 114162




No. 114171



### HSS Bimetal Hole Saws

|  mm | for use with holder | No.           |
|--|---------------------|---------------|
| 14   | A1                  | <b>114014</b> |
| 16   | A1                  | <b>114016</b> |
| 17   | A1                  | <b>114017</b> |
| 19   | A1                  | <b>114019</b> |
| 22   | A1                  | <b>114022</b> |
| 25   | A1                  | <b>114025</b> |
| 28   | A1                  | <b>114028</b> |
| 29   | A1                  | <b>114029</b> |
| 30   | A1                  | <b>114030</b> |
| 32   | A2                  | <b>114032</b> |
| 33   | A2                  | <b>114033</b> |
| 35   | A2                  | <b>114035</b> |
| 36   | A2                  | <b>114036</b> |
| 37   | A2                  | <b>114037</b> |
| 38   | A2                  | <b>114038</b> |
| 40   | A2                  | <b>114040</b> |
| 41   | A2                  | <b>114041</b> |
| 43   | A2                  | <b>114043</b> |
| 44   | A2                  | <b>114044</b> |
| 46   | A2                  | <b>114046</b> |
| 48   | A2                  | <b>114048</b> |

|  mm | for use with holder | No.           |
|--|---------------------|---------------|
| 51   | A2                  | <b>114051</b> |
| 52   | A2                  | <b>114052</b> |
| 54   | A2                  | <b>114054</b> |
| 33   | A2                  | <b>114033</b> |
| 57   | A2                  | <b>114057</b> |
| 60   | A2                  | <b>114060</b> |
| 65   | A2                  | <b>114065</b> |
| 64   | A2                  | <b>114064</b> |
| 67   | A2                  | <b>114067</b> |
| 70   | A2                  | <b>114070</b> |
| 79   | A2                  | <b>114079</b> |
| 83   | A2                  | <b>114083</b> |
| 89   | A2                  | <b>114089</b> |
| 92   | A2                  | <b>114092</b> |
| 98   | A2                  | <b>114098</b> |
| 102  | A2                  | <b>114102</b> |
| 105  | A2                  | <b>114105</b> |
| 111  | A2                  | <b>114111</b> |
| 114  | A2                  | <b>114114</b> |
| 127  | A2                  | <b>114127</b> |





# General-Purpose Tools

## Drill Bits

### UNICUT HM

Carbide-tipped hole saws for cutting circular holes  
 Ø 16 - 150 mm (5/8 - 57/8") without impact



#### Product Profile

#### APPLICATION AREA

For stationary and free-hand cutting of circular holes. For iron, steel, V2A - V4A, cast, copper, bronze, aluminium, zinc, plastic, fibre-glass, chipboard and wood, light construction plaster boards without impact

#### KEY FEATURES

- For use even in high-speed hand drills and stand-mounted drilling machines due to anti-slip shaft
- Positive cutting angle for good chip removal
- Includes adaptor holder and replaceable HSS-Co5 centring drill up to 4 mm sheet thickness, cutting depth 10 mm



### UNICUT HM

Hole saw set



Fig. UNICUT HM hole saw set

Set (No. 21300) includes: Hard metal hole saws, cutting spray 50 ml and spare centering pin Ø 6 mm (No. 21394), in plastic case

| Model                                   | g   | No.          |
|---|-----|--------------|
| UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm | 950 | <b>21300</b> |
| Spare centering pin HSS 6 mm            |     | <b>21394</b> |
| Spare centering pin HSS 8 mm            |     | <b>21395</b> |

11



| mm | inch    | g   | No.          | mm | inch   | g   | No.          |
|----|---------|-----|--------------|----|--------|-----|--------------|
| 16 | 5/8"    | 100 | <b>21316</b> | 30 |        | 140 | <b>21330</b> |
| 17 |         | 110 | <b>21317</b> | 31 |        | 180 | <b>21331</b> |
| 18 |         | 110 | <b>21318</b> | 32 | 1.1/4" | 180 | <b>21332</b> |
| 19 | 3/4"    | 120 | <b>21319</b> | 33 |        | 180 | <b>21333</b> |
| 20 |         | 120 | <b>21320</b> | 34 |        | 180 | <b>21334</b> |
| 21 |         | 120 | <b>21321</b> | 35 | 1.3/8" | 190 | <b>21335</b> |
| 22 | 7/8"    | 120 | <b>21322</b> | 36 |        | 190 | <b>21336</b> |
| 23 |         | 140 | <b>21323</b> | 37 |        | 190 | <b>21337</b> |
| 24 |         | 140 | <b>21324</b> | 38 | 1.1/2" | 190 | <b>21338</b> |
| 25 | 1"      | 120 | <b>21325</b> | 39 |        | 190 | <b>21339</b> |
| 26 |         | 130 | <b>21326</b> | 40 |        | 200 | <b>21340</b> |
| 27 |         | 130 | <b>21327</b> | 41 | 1.5/8" | 200 | <b>21341</b> |
| 28 | ~1.1/8" | 130 | <b>21328</b> | 42 |        | 200 | <b>21342</b> |
| 29 |         | 140 | <b>21329</b> | 43 |        | 210 | <b>21343</b> |

| mm | inch    | g   | No.          | mm  | inch     | g   | No.          |
|----|---------|-----|--------------|-----|----------|-----|--------------|
| 44 |         | 210 | <b>21344</b> | 70  | 23/4"    | 390 | <b>21370</b> |
| 45 | ~1.3/4" | 210 | <b>21345</b> | 75  | 3"       | 400 | <b>21375</b> |
| 46 |         | 210 | <b>21346</b> | 80  | ~3.1/8"  | 420 | <b>21380</b> |
| 47 |         | 210 | <b>21347</b> | 85  | ~3.3/8"  | 450 | <b>21385</b> |
| 48 | ~1.7/8" | 220 | <b>21348</b> | 90  | ~3.9/16" | 550 | <b>21386</b> |
| 49 |         | 230 | <b>21349</b> | 95  | 3.3/4"   | 580 | <b>21387</b> |
| 50 |         | 250 | <b>21350</b> | 100 | 4"       | 590 | <b>21388</b> |
| 51 | 2"      | 260 | <b>21351</b> | 110 | 4.3/8"   | 700 | <b>21389</b> |
| 52 |         | 270 | <b>21352</b> | 120 | 4.3/4"   | 830 | <b>21390</b> |
| 53 |         | 270 | <b>21353</b> | 130 | 5.1/8"   | 880 | <b>21391</b> |
| 54 | 2.1/8"  | 280 | <b>21354</b> | 140 | 5.1/2"   | 880 | <b>21392</b> |
| 55 |         | 280 | <b>21355</b> |     |          |     |              |
| 60 | 23/8"   | 360 | <b>21360</b> |     |          |     |              |
| 65 | 25/8"   | 390 | <b>21365</b> |     |          |     |              |



## Hammers, Chisels, Pin Punches

### Fitter's Hammer

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft

**DIN**  
-Norm





| Head weight  | Total weight  | No.           |
|---|--|---------------|
| 300   | 470  | <b>322823</b> |
| 400   | 590  | <b>322824</b> |
| 500   | 670  | <b>322825</b> |
| 800   | 1,180  | <b>322827</b> |
| 1000  | 1,210  | <b>322828</b> |

### Lump Hammer

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft

**DIN**  
-Norm



| Head weight  | Total weight  | No.           |
|--|--|---------------|
| 1000   | 1,170  | <b>322921</b> |
| 1250   | 1,380  | <b>322922</b> |
| 1500   | 1,670  | <b>322923</b> |
| 2000   | 2,250  | <b>322924</b> |

### Centre Punch

Tip and cone polished, shaft: octagonal, complies with **DIN 7250**. Chrome vanadium steel, air-hardened and forged

**DIN**  
-Norm



| Cone tip  | mm  | Shaft  | g  | No.          |
|--|-----|---|----|--------------|
| 4  | 120 | 10  | 50 | <b>77279</b> |

### Pin Punch Set, 6 pieces



**6-piece set** (No. 77297) includes: pin punches, 1 per size 150 x 10 x Ø 3, Ø 4, Ø 5, Ø 6 mm, 2 pin punches 150 x 12 x Ø 7, Ø 8 mm

| Model  | g   | No.          |
|---|-----|--------------|
| Pin Punch Set   | 550 | <b>77297</b> |

### Chisel

Safety tempered impact head prevents splintering off the chisel head

- Silver lacquered tip
- Chrome manganese silicon steel



No. 77050





No. 77072



No. 77164



No. 25810

| Model                 | Length mm | Shaft mm | Cutting Width mm | without hand protection   |              | with hand protection  |              |
|-----------------------|-----------|----------|------------------|---|--------------|---|--------------|
|                       |           |          |                  |  | No.          |  | No.          |
| Mason Chisel, flat    | 300       | 16       | 22               | 470   | <b>77033</b> | 560   | <b>77050</b> |
| Mason Chisel, pointed | 300       | 16       | -                | 455   | <b>77072</b> | 545   | <b>77090</b> |
| Electrician Chisel    | 250       | 8        | 13               | 95  | <b>77164</b> |   |              |
| Slotted Chisel        | 235       | 26 x 7   | 26               | 245   | <b>25811</b> | 345   | <b>25810</b> |



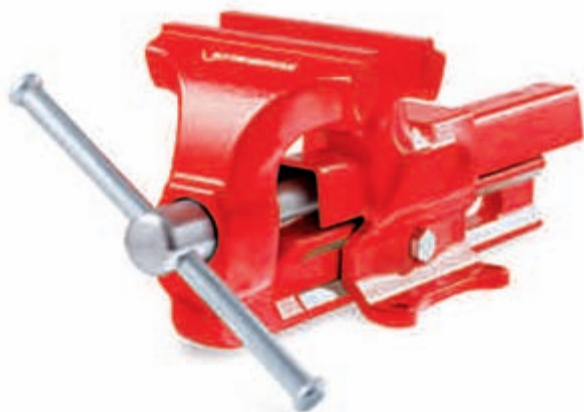
# General-Purpose Tools

## Vices

### Parallel Vice

With forged and hardened pipe jaws, steel forged underneath the parallel vice jaws

- Non-breakable
- Protected, powerful spindle with trapezoidal thread
- Re-adjustable double-sided guide
- Anvil base for levelling and compressing work

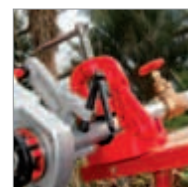


| Jaw width mm | Clamping width mm | Clamping depth mm | for pipes inch | for pipes mm | kg   | No.            |
|--------------|-------------------|-------------------|----------------|--------------|------|----------------|
| 120          | 125               | 65                | 3/8 - 1.1/2"   | 16 - 55      | 8.7  | <b>070705X</b> |
| 140          | 150               | 80                | 3/4 - 2"       | 27 - 70      | 15.6 | <b>070735X</b> |

### Pipe Vice

Foldable, with automatic closing hook, upper jaw and lower support jaw milled and hardened. Powerful smooth-running spindle. Durable epoxy-powder coated

- Reliable hold: Pipe support and movable upper jaw



| For pipes / inch             | for pipes / mm | kg   | No.          |
|------------------------------|----------------|------|--------------|
| 1/8 - 2"                     | 10 - 60        | 3.7  | <b>70710</b> |
| Spare jaws (contains 3 pcs.) |                | 0.2  | <b>70670</b> |
| 1/8 - 3"                     | 10 - 89        | 7.9  | <b>70712</b> |
| Spare jaws (contains 3 pcs.) |                | 0.2  | <b>70672</b> |
| 1/8 - 4"                     | 10 - 114       | 11.7 | <b>70711</b> |
| Spare jaws (contains 3 pcs.) |                | 0.2  | <b>70671</b> |

### Chain Pipe Vice

Tough, powerful design with V-shaped support, bending device, pipe support, wear-resistant jaws are forged and hardened, powerful chain, quick fastening due to offset lever and pre-tensioning screw, simple conversion to other pipe diameters, extremely robust powder epoxy coating

- V-shaped pipe supports with teeth and bridge prevent undesired bending during clamping
- Exchangeable jaws



| For pipes / inch | for pipes / mm | kg  | No.          |
|------------------|----------------|-----|--------------|
| 1/8 - 2 1/2"     | 10 - 76        | 3.8 | <b>70713</b> |
| Spare jaw        |                | 0.7 | <b>70734</b> |
| Spare chain      |                | 0.5 | <b>70731</b> |
| 1/8 - 4"         | 10 - 114       | 6.2 | <b>70714</b> |
| Spare jaw        |                | 0.8 | <b>70721</b> |
| Spare chain      |                | 0.6 | <b>70732</b> |
| 1/8 - 6"         | 10 - 165       | 9.3 | <b>70715</b> |
| Spare jaw        |                | 0.9 | <b>70722</b> |
| Spare chain      |                | 1.3 | <b>70733</b> |

### ROBOY® Clamping Workbench

For on-site repair and service work

- Portable, handy and practical workbench with the smallest dimensions
- Mountable on door frames or walls: Prevents floor damage and saves space
- Pressure plate is coated with rubber to protect against damage
- Spindle with trapezoidal thread for quick adjustment
- With height-adjustable support pipe for additional stability



Parallel Vice (No. 70705X) and rotatable table not included

| Model  | Dimensions / mm | kg   | No.          |
|--------|-----------------|------|--------------|
| ROBOY® | 650 x 400       | 14.9 | <b>70700</b> |





### Tripod Uni Workbench

with / without integrated chain vice

- Collapsible, extremely stable frame
- Attachment of various tools is possible
- Screw fixture for 1" pipe to enable overhead support of the unit  
**without integrated chain vice**
- Bending of pipes  $\varnothing$  3/8" - 1/2" - 3/4"  
**ohne integrierten Kettenschraubstock**
- Biegen für Rohre  $\varnothing$  3/8" - 1/2" - 3/4"
- Universal vice attachments applicable for pipe vice (No. 70710) and chain pipe vices (No. 70713, 70714, 70715)



No. 70752



No. 70740



No. 70751

### Working Unit

with pipe vice 1/8" - 2"

- Collapsible, stable, non-slip frame,
- with folding pipe vice, bending holes and large tool tray

| Description                                    | kg   | No.          |
|--|------|--------------|
| Tri-pod universal workbench with chain vice    | 16.0 | <b>70752</b> |
| Tri-pod universal workbench without chain vice | 15.3 | <b>70751</b> |
| Tool 1/8" - 2"                                 | 21.0 | <b>70740</b> |

### Telescopic Workbench

- Stable, collapsible steel tube frame with the smallest dimensions
- Portable, handy and practical
- With tough beech wood plate for an optimal work surface  
Steel edges all around: ideal for vice machining
- Individually removable supporting legs for working steps with ease



| Model                | Size mm        | kg   | No.            |
|----------------------|----------------|------|----------------|
| Telescopic workbench | 700 x 450 x 30 | 17.4 | <b>070699X</b> |

### Universal Workbench

- Stable and tough, easy to transport: collapsible tubular frame
- Optimum work surface: work plate made of processed beech wood
- Model "Pipe-fitter" Steel edges all around: ideal for vice machining



| Model       | Size mm          | kg | No.            |
|-------------|------------------|----|----------------|
| Installer   | 1200 x 550 x 835 | 30 | <b>070690X</b> |
| Pipe-fitter | 1000 x 700 x 835 | 32 | <b>70696</b>   |
| Pipe-fitter | 1200 x 750 x 835 | 38 | <b>70698</b>   |



# General-Purpose Tools

## General Aids & Tool Bags



### Hemp Dispenser with Roll / Teflon Sealing Tape



No. 70623



No. 855360

| Model                  |  |  | No.           |
|------------------------|---|---|---------------|
| Roll 40 g / 40 m       | 1   |   | <b>70623</b>  |
| 12 m on plastic bobbin | 1   |   | <b>855360</b> |


### All-purpose Marker

Writes on tile and glass



### Carpenter Pencil



| Model              |  | No.           |
|--------------------|---|---------------|
| All-purpose Marker | 1   | <b>856911</b> |
| Carpenter pencil   | 1   | <b>856907</b> |


### Cable Knife

Blade made of hardened steel



### Cutter Knife



| Model                                   |  | No.              |
|---|---|------------------|
| Cable knife with wooden handle, riveted | 1   | <b>355600</b>    |
| Cutter knife incl. 4 blades, 18mm       | 1   | <b>150000087</b> |
| Blades for cutter knife (10 piece)      | 1   | <b>150000088</b> |

### Dust Mask

without filter




No. 71230

### Plastering Bath



No. 355880

| Model                    |  | No.           |
|--------------------------|---|---------------|
| Dust mask without filter | 1   | <b>71230</b>  |
| Plastering bath          | 1   | <b>355880</b> |


### Plasterer / Painter Scrapers



No. 355902



No. 355896


| Model             |  | No.           |
|-------------------|---|---------------|
| Plasterer scraper | 1   | <b>355896</b> |
| Painter scraper   | 1   | <b>355902</b> |

### Tool Bag "Installer"

- With practical outside pockets for quick access
- With carrying handle and adjustable shoulder strap for comfortable transport



Volumen: approx. 20 l

| Model                               |  | No.           |
|-------------------------------------|---|---------------|
| Plumbers Tool Bag (460 x 260 x 260) | 1   | <b>402310</b> |


### Tool Bag "Heavy Duty"

- Especially stable with the stable plastic bottom
- With carrying handle and adjustable shoulder strap for comfortable transport



Volume big: approx. 30 l

Volume small: approx. 20 l

| Model  |  | No.           |
|--|---|---------------|
| Tool bag "Heavy Duty" big (620 x 250 x 350 mm)   | 1   | <b>402317</b> |
| Tool bag "Heavy Duty" small (410 x 230 x 300 mm) | 1   | <b>402316</b> |



### Tool Bags Tool Bag "Trendy"

- Lots of storage room for all your tools
- Keeps things organized, thanks to the many compartments

Volume: approx 42 l



Volume: approx. 42 l

### Tool Bags Toolbox "Trendy"

- Quick access to tools with the open bag
- Reinforced side walls provide stability
- Carrying comfort with the sturdy carrying handle and adjustable shoulder strap

Volume: approx. 11 l



Volume: approx. 11 l


### Tool Bags Shoulder Toolbox "Trendy"


- Very light, handy bag for the most important tools
- Small pockets on the side keep things in view

Volume: approx. 8 l



Volume: approx. 8 l

| Model                                  |  | No.           |
|--|---|---------------|
| Tool bag "Trendy" (380 x 300 x 370 mm) | 1   | <b>402311</b> |
| Tool bag "Trendy" (230x 230 x 210 mm)  | 1   | <b>402309</b> |

| Model  |  | No.           |
|--|---|---------------|
| Shoulder toolbox "Trendy" (250 x 220 x 140 mm) | 1   | <b>402308</b> |


### Apprentice Set

Tough installation toolbox completely equipped with all the tools the craftsman needs

- Extensive and practical tool assortment
- Case made of galvanized steel



Set (No. 19166) includes: Water pump wrench type "SP" 10", corner pipe wrench Super "S" (1"), ALU-spirit level, anodized. (500 mm), hacksaw frame (300 mm), 10 x HSSE 4 PLUS saw blades, fitter's hammer (300 g), lump hammer (1250 g), PUK-hacksaw (290 mm) + 12 x saw blades, basin nut wrench, stone chisel (300 x 16 mm) flat, express spanner, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), Allen key set, 7 -piece, wooden ruler (2m), carpenter pencil, TUBE CUTTER 35 (6-35 mm), MINICUT I PRO (3-16 mm), extension key, corner pipe wrench "Super "S" (1.1/2)", cutter knife, ROFASTLOCK (10"), installer toolbox

| Model                    |  | No.           |
|--------------------------|---|---------------|
| Apprentice set, 26 piece | 1   | <b>19166</b>  |
| Installer toolbox        | 1   | <b>402312</b> |





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## Abbreviations

| Abkürzung | Bedeutung   |
|-----------|---|
| A/S       | Acetylene / Oxygen  |
| ABS       | Acrylonitrile-Butadiene-Styrene   |
| ADR       | Accord européen relatif au transport international des marchandises dangereuses par route, (french) |
| AG        | Silver  |
| AL        | Aluminium   |
| AMS       | Acetylen-Maxigas-Oxygen   |
| AS        | Non-slip  |
| B         | Petrol, Gas   |
| BGV       | Trade Associations Occupational Health and Safety Regulations                                       |
| BSP       | British Standard Pipe, Standard Withworth Thread as per DIN ISO 228                                 |
| BSPP      | British Standard Pipe Parallel Thread, Cylindrical Pipe Thread                                      |
| BSPT      | British Standard Taper Pipe Thread  |
| BSR       | Band Saw Pipe   |
| BSW       | British Standard Whithworth   |
| BTU       | British Thermal Unit  |
| CE        | European Community  |
| CEN       | European Committee for Standardization  |
| CFC       | Chlorofluorocarbons   |
| CFM       | Cubic Feet per Minute   |
| CFT       | Constant Force Technology   |
| CL        | Channel Lock  |
| CNC       | Computerized Numerical Control  |
| CU        | Copper  |
| DK        | Pressure Class  |
| DN        | Diameter Nominal  |
| DVGW      | German Association for Gas & Water Applications   |
| DVS       | German Association for Welding  |
| EAN       | European Article Number   |
| EPT       | Enclosed Power Transmission   |
| FE        | Iron  |
| FS        | Guide Hose  |
| GW        | Gas / Water   |
| HCFC      | Hydrochlorofluorocarbons  |
| HD        | High Pressure   |
| HFC       | Hydrofluorocarbons  |
| HFCKW     | Virgin Hydro Chlorofluorocarbons  |
| HFKW      | Virgin Hydrofluorocarbons   |
| HM        | Carbide   |
| HRC       | High Speed Steel  |
| HSS       | High Speed Steel, Schnellarbeitsstahl   |
| HZ        | Hertz   |
| IP        | International Protection  |
| ISO       | International Organization for Standardization  |
| Kcal      | Kilocalorie   |
| KSO       | Capillary Gap Optimizer   |
| L         | Large   |

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## Abbreviations

| Abkürzung  | Bedeutung   |
|------------|---|
| LCD        | Liquid Crystal Display  |
| LED        | Light Emitting Diode  |
| MIM        | Metal Injection Molding   |
| MPa        | Megapascals   |
| MS         | Brass   |
| MSR        | Multi-layered Composite Pipe  |
| NM         | Newton Metre  |
| NPT        | National Pipe Thread (Standard US)  |
| PB         | Polybutylene  |
| PD         | Power Driver  |
| PD-E       | Power Drive-Electronic  |
| PE         | Polyethylene  |
| PEX        | Cross-linked Polyethylene   |
| PL         | Plastic   |
| PP         | Polypropylene   |
| PS         | Professional  |
| PSI        | Pound-Force per Square Inch   |
| PVC        | Polyvinyl Chloride  |
| PVDF       | Polyvinylidene Fluoride   |
| RC         | RODIACUT  |
| SAE        | Society of Automotive Engineers   |
| SD-Card    | Secure Digital-memory Card  |
| SDR        | Standard Dimension Ratio  |
| SMK        | Spiral with Plastic Core  |
| SML        | Super Metal Delivery Program  |
| SP         | Standard Plier  |
| SP         | Special Performance   |
| SPK        | Standard Plastic Plier  |
| SS         | Quick Cut   |
| SW         | Spanner Size  |
| TC         | Tube Cutter   |
| TFT        | Thin-film Transistor  |
| TiN        | Titanium Nitride Coating  |
| TRGI       | Technical Guidelines for Gas Installations                                      |
| TRWI       | Technical Guidelines for Water Installations                                    |
| TÜV        | Technical Inspection Association  |
| UKS        | Obital Circular Saw   |
| UNC        | Unified Coarse Threads  |
| UNF        | Unified Fine Thread   |
| VA (Stahl) | Stainless Steel, Corrosion Resistant Steel                                      |
| VCR        | Video Cassette Recording  |
| VDE        | Registered Association of the Electrical, Electronic and Information Technology |
| VPE        | Packaging Unit  |
| WG         | Hot Gas   |
| ZN         | Zinc  |
| ZPZ        | Bits per Inch   |
| ZVSHK      | German Central Association Plumbing, Heating and Air Conditioning               |



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## Pictograms

### Stromversorgung

|                                 |                   |                 |                           |                 |                  |
|---------------------------------|-------------------|-----------------|---------------------------|-----------------|------------------|
| AC 230 V                        | AC 115 V          | AC 110 V        | Three-phase current 400 V | Battery-powered | Cable length 5 m |
| Battery + AC operation possible | Battery operation | Battery charger |                           |                 |                  |

### Arbeitsvorgang

|                      |                                |                           |                                   |                             |                             |
|----------------------|--------------------------------|---------------------------|-----------------------------------|-----------------------------|-----------------------------|
| Can be used overhead | Can be used in confined spaces | Suitable for tight spaces | Basic soft soldering up to 450 °C | Hot brazing 450 ° - 1100 °C | Max autogen welding 1100 °C |
| Fast cut             | No deformation from use        | Dry drilling              | Wet drilling                      | Up to 50% time-saving       | Portable operation          |
| 360° rotatable       | Fine adjustment of the flame   |                           |                                   |                             |                             |

### Produkteigenschaften

|                       |                          |                                   |                            |                              |                               |
|-----------------------|--------------------------|-----------------------------------|----------------------------|------------------------------|-------------------------------|
| Ergonomic design      | Meets DIN standards      | VDE approved                      | Handy                      | Environmentally friendly     | Impact protection             |
| Shock absorption      | Sturdy casing            | Constant pressure control         | Propane control            | Oxygen control               | Acetylene control             |
| Economy valve         | Pressure hose ball valve | Pressure hose length 1.5 m        | Pressure hose length 2.5 m | Blowback prevention          | Piezo ignition                |
| Bayonet coupling      | Push lock                | Thread lock                       | On / off switch            | Emergency stop switch        | Lock button                   |
| LED display           | Inspection window        | Pressure gauge display adjustable | Pressure gauge class 1 - 6 | Pressure gauge 63 mm         | Pressure gauge 80 mm          |
| Scale range max. 5 kg | Scale range max. 50 kg   | Scale range max. 110 kg           | Scale range max. 120 kg    | Measuring accuracy up to 1 g | Measuring accuracy up to 10 g |
| Filling supports      | Counter display          | Balance point in handle           | Transport case             | Heed safety warning          | Heed industrial safety        |
| Don't sharpen         | With USB connection      | With video function               | With photo function        | Memory card                  |                               |

### ROTHENBERGER Enclosed Power Transmission

The **EPT®-Technology (Enclosed Power Transmission)** of the expander head offers the following technical benefits:

**Concealed bent lever:**

Protection against dirt and external mechanical damage

**Energy efficient through optimised force transmission:**

Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort



### ROTHENBERGER Titannitrid coating

The golden **TiN Coating (Titannitrid-coating)** of the expander head offers the following technical benefits:

**High durability 2,300 HV:**

Protection against abrasive wear

**Lower friction value compared to steel:**

Less effort

**Good chemical resistance:**

Good protection against corrosion

**Universal wear resistance:**

Long-lasting



### ROTHENBERGER Constant Force Technology

The **CFT® Technology (Constant Force Technology)** guarantees a constant

axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections CFT® guarantees:

**ROMAX® Compact**

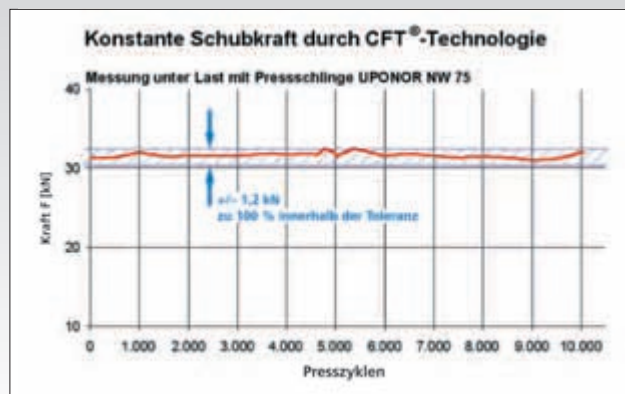
19-21 kN für 10,000 press cycles

**ROMAX® AC ECO**

32-34 kN für 10,000 press cycles

**ROMAX® 3000**

32-34 kN für 20,000 press cycles



### ROTHENBERGER DURAMAG® Technology

The **DURAMAG® Technology (High Tec Magnesium Body)** offers the following benefits:

**Improved performance**

**Higher stability with considerably lower weight**

DURA = Durable MAG = Magnesium



Packaging units:

1 (12) = 1 Display, Content 12 pieces

1/12 = packaging units 1 pieces oder 12 pieces



#### Disclaimer

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