

# ROTHENBERGER

pipetool technologies at work

## 2016/2017





**ONE**  
**of**  
**6.000**

**Premium tools for  
professionals!**



## **R 600**

**Almost real "Classics":**

Our R-system pipe cleaning machines R 550, R 600, R 650 and R 750 can remove even the most persistent blockages – all over the world. Our customers can always count on receiving the highest quality products which have earned the right to carry the ROTHENBERGER name.

**Obviously "Made in Germany"!**





## Transparency, Efficiency and Competence.

Communication, production and technical know-how are united in the ROTHENBERGER TEC Center. The architecture, which is a perfect symbiosis of functionality and aesthetics, is perfectly suited for performing a wide variety of tasks. Furthermore, the TEC Center is a place of inspiration for our visitors with a representative showroom, the training rooms and a highly praised gastronomy. **Welcome!**



## Welcome to ROTHENBERGER!

We contribute to the supply of water and energy for people all over the world. With more than 6,000 products we offer the largest product portfolio in the industry – and can therefore offer comfortable “one-stop shopping” for our partners in craft, trade and industry. More than 1,700 colleagues in 50 subsidiaries and 17 production sites worldwide develop and manufacture roughly 28 million tools every year, which are sold in 90 countries around the world.

However, it is not just a matter of quantity: More than 200 patents and trademarks, as well as a high in-house production quota are evidence of the high standard and quality of our products. It is our objective to support and simplify the everyday professional work of our customers in order to make it possible for them to deliver the best results in the shortest period of time. This is what our good name has represented for more than 65 years – and we are proud of it.

# 10 good reasons why trade professionals choose ROTHENBERGER again and again:

## 1. The right tool for everyone:

Our full product range includes more than 6.000 products – making it the most extensive program in the world!

## 2. All for the customer:

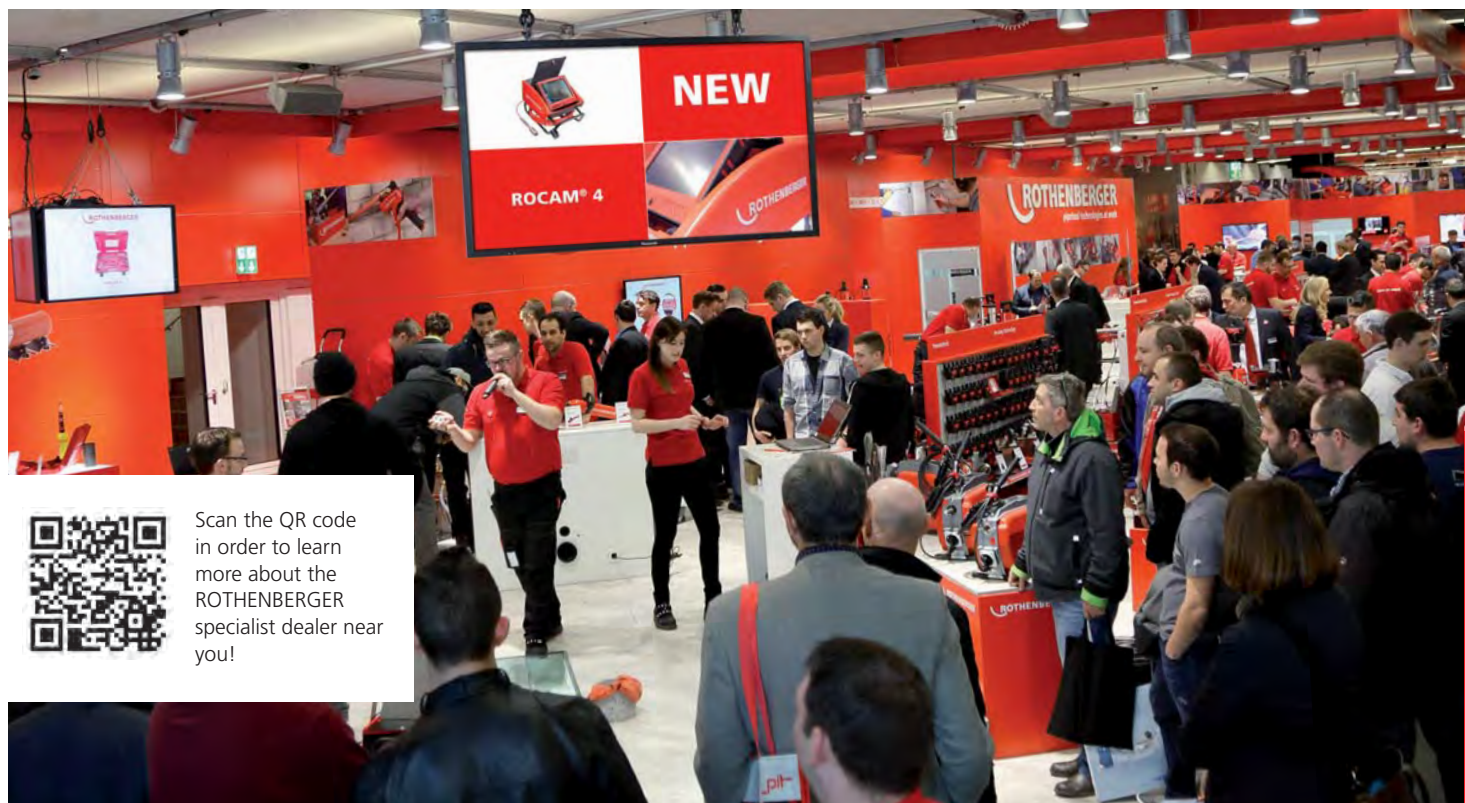
Every day in subsidiaries around the world 1.700 ROTHENBERGER employees dedicate themselves to ensuring that our customers are 100% satisfied with our products, technologies and services – on a global scale.

## 3. Nothing but the best – our standards of quality:

Every product which carries the name ROTHENBERGER meets the highest professional requirements. A promise which we deliver on afresh day by day.

## 4. Professional solutions – more than just products:

Your trade craft is the focus of our innovative strength. ROTHENBERGER represents integrated system solutions which support you in performing better, quicker, easier and – above all – more profitably!



Scan the QR code in order to learn more about the ROTHENBERGER specialist dealer near you!

## 5. Innovation and production in one hand:

The ROTHENBERGER Research and Development department is distributed over three locations in Kelkheim (Germany), Abadiano (Spain) and Épernay (France), where our main production sites are located as well. Moreover, we produce in our own plants – for example in the USA and at 13 further group locations in 7 European countries.

## 6. We set standards:

Innovative tools and technologies from ROTHENBERGER keep changing the market and the handcraft. This is evidenced by the existence of more than 200 patents and trademarks, as well as revolutionary developments such as the Constant Force Technology (CFT®), app-supported inspection cameras or completely new types of connection technologies.



## 7. „Live at work“ – simply closer:

Before the sale is after the sale! To ensure this, approximately 500 ROTHENBERGER sales consultants and 200 demonstration vehicles are deployed every day. We also present in local markets at more than 120 exhibitions every year. At our central office in Kelkheim we are continuously training specialised trade representatives – in order to guarantee expert consultations and advice!

## 8. Best products – best service:

ROTHENBERGER operates more than 150 globally active service centers. This enables us to quickly provide repair and maintenance work. And the best part: Our RO SERVICE+ program offers you the best conditions with minimal costs!

## 9. Reliable, simple and rapid:

Thanks to the international ROTHENBERGER Supply Chain network we are able to achieve the highest possible availability and the shortest delivery times. Because of this 97% of our customers receive the goods they ordered within 48 hours!

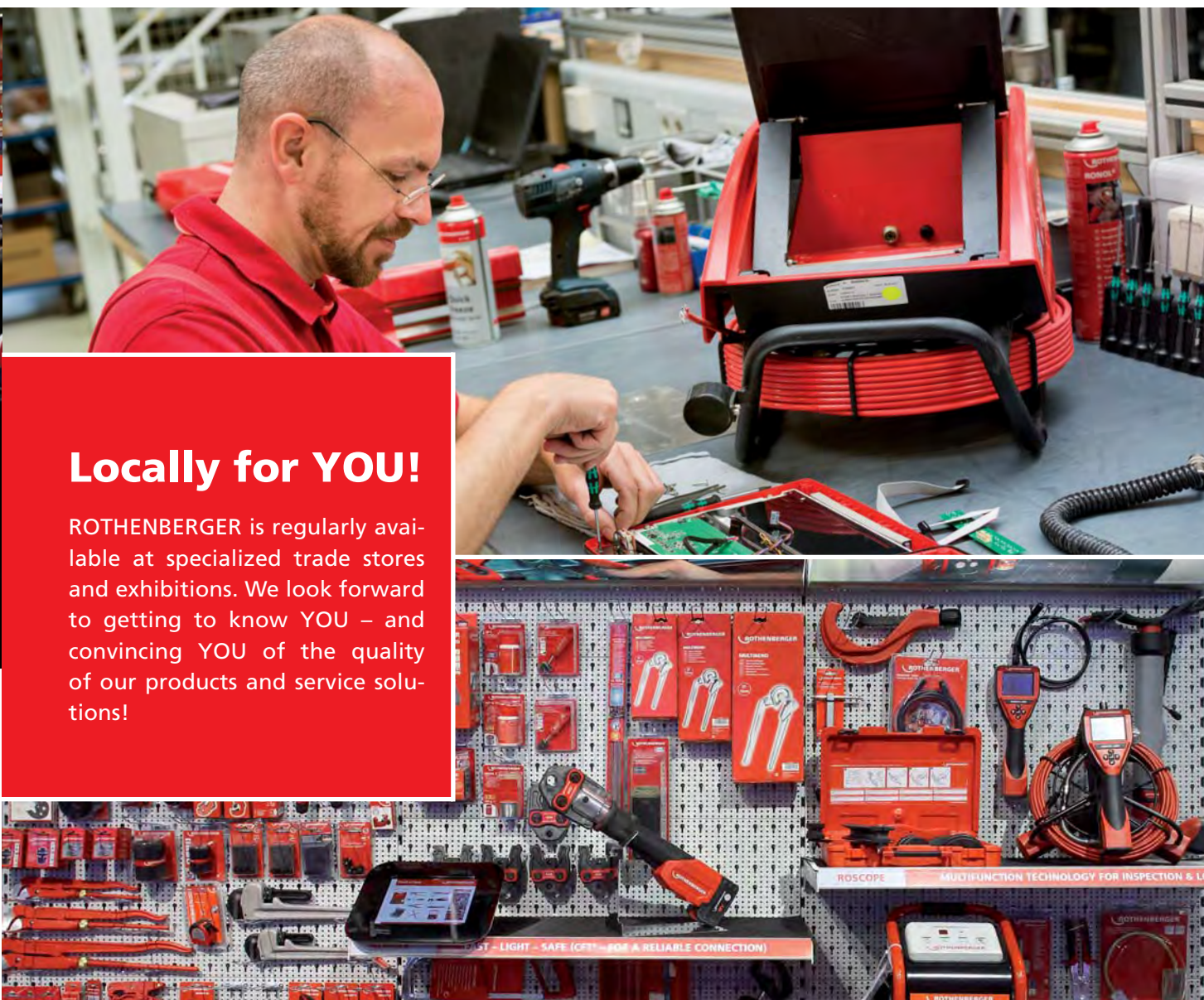
## 10. We are right where you need us:

Whether you are interested in ordering our tools, have a service request or want to follow us on Facebook – we offer various contact options for you to get in touch!



## Locally for YOU!

ROTHENBERGER is regularly available at specialized trade stores and exhibitions. We look forward to getting to know YOU – and convincing YOU of the quality of our products and service solutions!





## Innovation with an app!

ROTHENBERGER stands for innovation – so this is a matter of course: Go online with the pipe inspection systems app!



## You can find us everywhere!

Whether at an authorised dealer, at ROTHENBERGER.com, by calling our service hotline or with an on-site consultation:

**We are always nearby!**

## This is where customer satisfaction begins:

Our two Global Logistics Centers in Germany and Spain deliver products quickly and directly to our trading partners – in over 12 countries in Europe. Together with additional local logistics centers in 21 countries, they compromise the global ROTHENBERGER Supply Chain network which guarantees reliable supply. The satisfaction of our customers is our highest priority!





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# ONE of 6.000

Premium tools for  
professionals!





# Cutting

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Do you want to  
know more about  
our products?  
Please scan the  
QR-Code!

# Cutting

## System Overview Cutting Tools

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### Pipe Cutter Steel, Plastic, MSR

	TC 35 DURAMAG®	TC 35 C	TC 35 DURAMAG® MSR	INOX TC 35 PRO DURAMAG®	TC 42 PRO
					
<b>Work space:</b>	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")
<b>Dimensions:</b>	150 x 60 x 40 mm	150 x 60 x 40 mm	150 x 60 x 40 mm	150 x 60 x 40 mm	160 x 60 x 40 mm
<b>Weight:</b>	255 g	470 g	255 g	255 g	540 g
<b>Extras:</b>	Internal pipe deburrer, Spare cutter wheels	Internal pipe deburrer, Spare cutter wheels	Internal pipe deburrer, Spare cutter wheels	Internal pipe deburrer, Spare cutter wheels	Internal pipe deburrer, Spare cutter wheels
<b>Suitable for:</b>	Cu, Brass, Al, Thin-walled steel pipes	Refrigeration technology	PE-, PP-, PVDF-, PVC, Plastic coated pipes	Stainless steel	Cu, Brass, Al, Thin-walled steel pipes

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	TC 42 PRO MSR	TC 42 PRO PVC	INOX TC 42 PRO	MINICUT I PRO	MINICUT II PRO
					
<b>Work space:</b>	Ø 6-42 mm (1/4-1.5/8")	Ø 6-42 mm (1/4-1.5/8")	Ø 6-42 mm (1/4-1.5/8")	Ø 3-16 mm (1/8-5/8")	Ø 6-22 mm (1/4-7/8")
<b>Dimensions:</b>	160 x 60 x 40 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	70 x 40 x 30 mm	170 x 100 x 70 mm
<b>Weight:</b>	540 g	540 g	540 g	115 g	125 g
<b>Extras:</b>	–	–	–	–	–
<b>Suitable for:</b>	PE-, PP-, PVDF-, Plastic coated pipes	PE-, PP-, PVDF-, Plastic coated pipes	Stainless steel	Cu, Messing, Al, Thin-walled steel pipes	Cu, Messing, Al, Thin-walled steel pipes

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	MINICUT 2000	MINI MAX	TUBE CUTTER 30 PRO	TUBE CUTTER 50 PRO	INOX TUBE CUTTER 30 PRO
					
<b>Work space:</b>	Ø 6-22 mm (1/4-7/8")	Ø 63-28 mm (1/8-1.1/8")	Ø 3-30 mm (1/8-1.3/8")	Ø 12-50 mm (1/5-2")	Ø 3-30 mm (1/8-1.1/8")
<b>Dimensions:</b>	70 x 40 x 30 mm	80 x 60 x 30 mm		380 x 90 x 90 mm	150 x 60 x 40 mm
<b>Weight:</b>	140 g	270 g	305 g	520 g	305 g
<b>Extras:</b>	–	–	Internal pipe deburrer, Spare cutter wheel	Internal pipe deburrer, Spare cutter wheel	Internal pipe deburrer, Spare cutter wheel
<b>Suitable for:</b>	Cu, Brass, Al, Thin-walled steel pipes	Cu, Brass, Al, Thin-walled steel pipes	Cu, Brass, Al, Thin-walled steel pipes	Cu, Brass, Al, Thin-walled steel pipes	Stainless steel Thin-walled steel pipes

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### Pipe Cutter Steel

	Automatic Pipe Cutter Gr. 1	Automatic Pipe Cutter Gr. 2	Chain Pipe Cutter	ROSLICE 12 mm	ROSLICE 15 mm
					
<b>Work space:</b>	Ø 6-67 mm (1/4-2.5/8")	Ø 50-127 mm (2-5")	Ø 20-100 mm (1-4")	Ø 12 mm (1.1/8")	Ø 15 mm (5/8")
<b>Dimensions:</b>	240 x 110 x 50 mm	360 x 80 x 70 mm	370 x 280 x 250 mm	175 x 100 x 45 mm	175 x 100 x 45 mm
<b>Weight:</b>	755 g	755 g	575 g	230 g	240 g
<b>Extras:</b>	Internal pipe deburrer, Spare cutter wheels	Internal pipe deburrer	–	–	–
<b>Suitable for:</b>	Cu, Brass, Al, Thin-walled steel pipes Plastic coated pipes	Cu, Brass, Al, Thin-walled steel pipes Plastic coated pipes	Cu, Brass, Al, Thin-walled steel pipes Plastic coated pipes	Cu	Cu

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	ROSLICE 18 mm	ROSLICE 22 mm	INOX TUBE CUTTER	ENORM 4"	SUPER 1.1/4"
					
<b>Work space:</b>	Ø 18mm (3/4")	Ø 22 mm (7/8")	Ø 6-60 mm (1/4-2.3/8")	Ø 60-115 mm (2-4")	Ø 10-42 mm (1/8-1.1/4")
<b>Dimensions:</b>	175 x 100 x 45 mm	175 x 100 x 45 mm	610 x 190 x 70 mm	280 x 110 x 40 mm	400 x 130 x 60 mm
<b>Weight:</b>	250 g	260 g	305 g	7.105 g	1.040 g
<b>Extras:</b>	–	–	–	–	–
<b>Suitable for:</b>	Cu	Cu	Stainless steel	Steel	Steel

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	SUPER 2"	INOX SUPER 1.1/4"	INOX SUPER 2"
			
<b>Work space:</b>	Ø 10-60 mm (1/8-2")	Ø 10-42 mm (1/8-1.1/4")	Ø 10-60 mm (1/8-2")
<b>Dimensions:</b>	400 x 130 x 60 mm	280 x 110 x 40 mm	400 x 130 x 60 mm
<b>Weight:</b>	2.155 g	1.040 g	2.155 g
<b>Extras:</b>	–	–	–
<b>Suitable for:</b>	Steel	Stainless steel	Stainless steel

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### Plastic Pipe Cutter

	TC 67 PL	TC 125 PL	TC 168 PL	PLASTICUT PVC	PLASTICUT PVC	PLASTICUT PVC
						
<b>Work space:</b>	Ø 6-67 mm (1/4-2.5/8")	Ø 50-125 mm (2-5")	Ø 110-168 mm (4-6.5/8")	Ø 32 mm	Ø 40 mm	Ø 50 mm
<b>Dimension:</b>	280x110x50 mm	360x180x70 mm	400x220x70 mm			
<b>Weight:</b>	700 g	1.600 g	1.700 g	55 g	70 g	115 g
<b>Extras:</b>	Internal pipe deburrer Spare cutter wheels	Internal pipe deburrer	Internal pipe deburrer	–	–	–
<b>Suitable for:</b>	PE-, PP-, PEX-, PB-, PVDF-Pipes, Sound- isolated drain pipes	PE-, PP-, PEX-, PB-, PVDF-Pipes, Sound- isolated drain pipes	PE-, PP-, PEX-, PB-, PVDF-Pipes, Sound- isolated drain pipes	PVC	PVC	PVC
<b>Page</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>25</b>	<b>25</b>	<b>25</b>

### Plastic Shears

	ROCUT® TC 26	ROCUT® TC 32	ROCUT® PS 35	ROCUT® PS 26/42 S	ROCUT® TC 42
					
<b>Work space:</b>	Ø 0-26 mm (0-1/4")	Ø 0-32 mm (1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")	Ø 0-42mm (0-1.5/8")
<b>Dimension:</b>	310 x 150 x 120 mm	260 x 170 x 120 mm	215 x 195 x 40 mm	290 x 240 x 40 mm	210 x 150 x 120 mm
<b>Weight:</b>	370 g	220 g	740 g	950 g	447 g
<b>Suitable for:</b>	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*
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	ROCUT® TC 50	ROCUT® TC 63	ROCUT® TC 75
			
<b>Work space:</b>	Ø 0-50 mm (0-2")	Ø 0-63 mm (0-2.1/2")	Ø 0-75 mm (0-3")
<b>Dimension:</b>	350 x 170 x 30 mm	350 x 170 x 180 mm	250 x 60 x 60 mm
<b>Weight:</b>	600 g	700 g	1.600 g
<b>Suitable for:</b>	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*	PP-,PE-,PEX-, PB-, PVDF-, MSR*
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### Pipe Saws

ROTIGER VARIO ELECTRONIC



UNIVERSAL ROTIGER VARIO ELECTRONIC



Work space:		up to Ø 6" –
Power:	1.500 Watt (230V, 110V)	1.600 Watt (230V), 1.300 Watt (110V)
Speeds:	0 - 2.200 r/min	1.000 - 2.800 r/min
Weight:	4,3 kg	3,7 kg
Hub:	26 mm	26 mm
Dimensions:	491 x 94 x 108 mm	440 x 120 x 80 mm
Saw blade holder:	Universal, U-shaft, special pipe saw blades	Quick tensioning for universal saw blades
Extras:	Chain tensioning device up to Ø 6"	

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### Pipe Cutting System

PIPECUT TURBO 250



PIPECUT TURBO 400



Work space:	Ø 20 - 250 mm	Ø 80 - 400 mm
Power:	1.400 Watt (230V, 110V, 50-60 Hz )	1.400 Watt (230V, 110V, 50-60 Hz )
Weight:	8,3 kg	10,2 kg
Dimensions:	223 x 235 x 410 mm	223 x 285 x 550 mm
Max. Wall thickness:	8 - 20 mm	8 - 20 mm
Cut-off wheels Ø:	Ø 140 - 165 mm	Ø 140 - 165 mm
Clutch Ø:	Ø 62 mm	Ø 62 mm

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# Cutting

## Cutting Metal Manual

### 1 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!**



For copper and aluminium



For MSR-pipes



For INOX (Stainless Steel)-pipes



For refrigeration technology



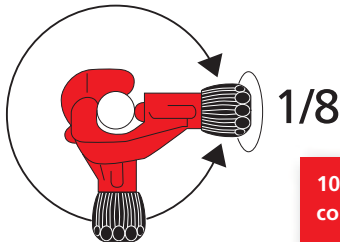
### TUBE CUTTER 35 DURAMAG® Counter Display

Counter display includes six TUBE CUTTER 35 DURAMAG®

#### Product Profile

##### KEY FEATURES

- 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	70027
TUBE CUTTER 35 DURAMAG® Display	6 - 35	1/4" - 1.3/8"	1700	1	6	070027DB
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	1	4	070027C
TUBE CUTTER 35 DURAMAG® MSR	6 - 35	1/4" - 1.3/8"	470	1	4	70108
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	540	1	4	70029
TUBE CUTTER 42 PRO MSR	6 - 42	1/4" - 1.5/8"	540	1	4	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	540	1	4	70072
INOX TUBE CUTTER 35 PRO DURAMAG® (stainless steel)	6 - 35	1/4" - 1.3/8"	470	1	4	70055
INOX TUBE CUTTER 42 PRO	6 - 42	1/4" - 1.5/8"	540	1	4	70070

### ROTRAC 28 / 42

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



#### Product Profile

##### 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	70010	Spare cutter wheel (contains 3 pcs.) Cu, Al, brass	20	070007D
ROTRAC 42	6 - 42	1/4 - 1.5/8"	255	70011	Spare axle	5	70080

#### ACCESSORIES

Model		No.
Internal / External deburrer, Ø 6 - 35 mm	33	1500000237
Internal / External deburrer, Ø 10 - 54 mm	33	1500000236
GRATFIX	34	21655
UNIGRAT	34	21660
Spare cutter wheels	21	





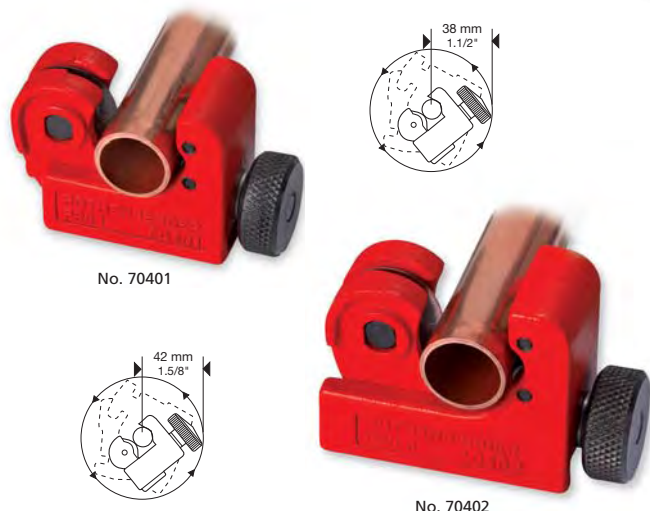
# Cutting

## Cutting Metal Manual

### 1 MINICUT I PRO / II PRO

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

Ideal for maintenance and repair work!



#### 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 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 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



No. 71019

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 - 2.5/8")

#### 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



No. 70030



Model	mm	inch	g	No.
Size 1	6 - 67	1/4 - 2.5/8"	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>

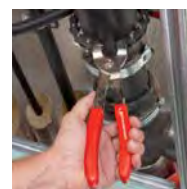
Model	mm	inch	g	No.
Size 2	50 - 127	2 - 5"	1850	<b>70142</b>
Size 1 Spare axle			20	<b>70042</b>
Size 1 Spare deburrer complete			5	<b>7500041</b>
Size 2 Spare axle			5	<b>70149</b>

### 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



No. 70285

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

Model		No.
Internal / External deburrer, Ø 6 - 35 mm	<b>33</b>	<b>1500000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>33</b>	<b>1500000236</b>
GRATFIX	<b>34</b>	<b>21655</b>
UNIGRAT	<b>34</b>	<b>21660</b>
Spare cutter wheels	<b>21</b>	





# Cutting

## Cutting Metal Manual

1

### ROSLICE®

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

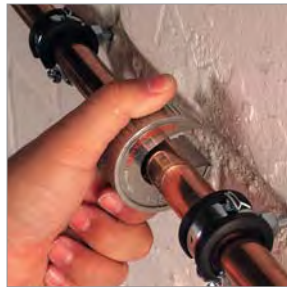


Ergonomic form

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	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 37.4	<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

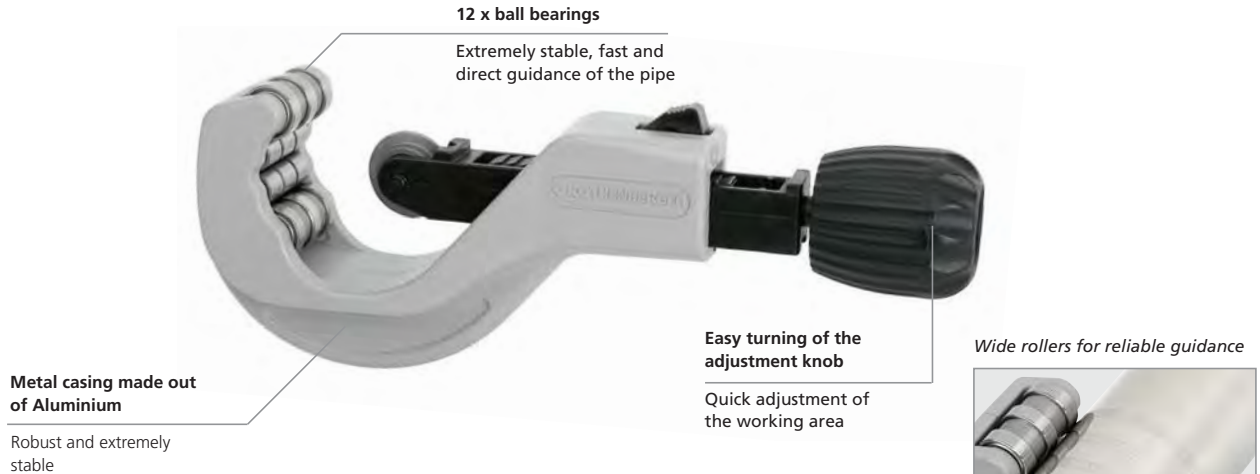
Ratchet telescopic pipe cutter Ø 6 - 60 mm (1/4 - 2.3/8") for the precise cutting of stainless steel pipes

INOX!

#### 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	6 - 60	1/4 - 2.3/8"	305	4	<b>70340</b>
Spare cutter wheel			20	1(2)	<b>70341</b>

### INOX TUBE CUTTER 35 / 42 PRO

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

INOX!

#### 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, Ø 6 - 35 mm	<b>33</b>	<b>1500000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>33</b>	<b>1500000236</b>
GRATFIX	<b>34</b>	<b>21655</b>
UNIGRAT	<b>34</b>	<b>21660</b>
Spare cutter wheels	<b>21</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

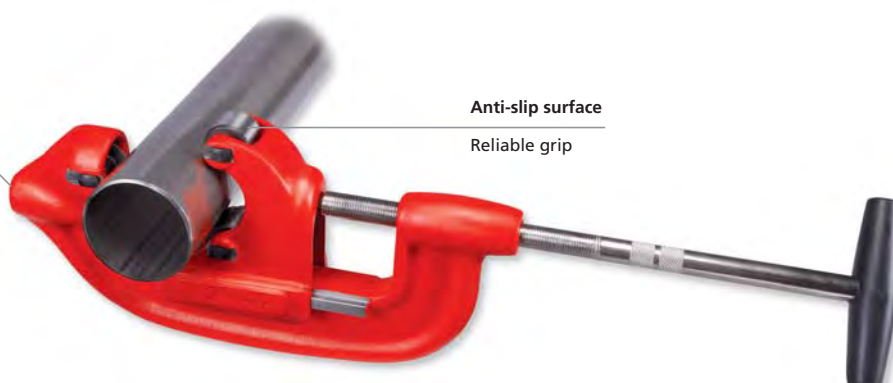
#### KEY FEATURES

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

Thread for handle



Handle (included in delivery)



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"

Stainless steel pipe cutter Ø 10 - 60 mm (1/8 - 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 (1/8 - 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	1/8 - 1.1/4"	1040	<b>70040</b>	INOX SUPER 1.1/4" 10 - 42	10 - 42	1/8 - 1.1/4"	1040	<b>70086</b>
SUPER 2"	10 - 60	1/8 - 2"	2155	<b>70045</b>	INOX SUPER 2" 10 - 60	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>

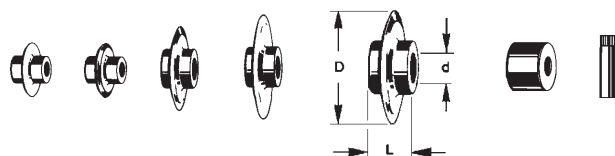
#### ACCESSORIES



Model		No.
Internal / External deburrer, Ø 6 - 35 mm	<b>33</b>	<b>1500000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>33</b>	<b>1500000236</b>
GRATFIX	<b>34</b>	<b>21655</b>
UNIGRAT	<b>34</b>	<b>21660</b>
Spare cutter wheels	<b>21</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



1



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	3 - 16 mm	70401	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-	Copper pipe (Cu),
MINICUT II PRO	6 - 22 mm	70402	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-	Brass pipe (Ms),
MINICUT 2000	3 - 22 mm	70105	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-	Aluminium pipe (Al),
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-	thin-walled Steel pipe (Fe),
											PVC hard plastic pipe
											Plastic coated pipe
TUBE CUTTER 30 PRO	3 - 30 mm	71019	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu),
TUBE CUTTER 35 + 35 C	6 - 35 mm	070027(C)	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652	Brass pipe (Ms),
TUBE CUTTER 42 PRO	6 - 42 mm	70029	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652	Aluminium pipe (Al),
											thin-walled Steel pipe (Fe),
TUBE CUTTER 35 MSR	6 - 35 mm	70108	070188D	4.8 / 5.9 / 19.3	5	3.0	70041	4.7 / 14 / M3	70067	21652	PVC hard plastic pipe
TUBE CUTTER 42 PRO MSR	6 - 42 mm	70109	070188D	4.8 / 5.9 / 19.3	5	3.0	70041	4.7 / 14 / M3	70067	21652	Plastic coated pipe
TUBE CUTTER 50	12 - 50 mm	70065	070017D	4.8 / 5.9 / 18.5	5	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe
		70030	070017D	4.8 / 5.9 / 18.5	5	3.0	70042	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled.
		70031	070028D	4.8 / 11 / 29.0	3	7.0	70042	4.7 / 16 / M4	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
		70142	070057D	8 / 11 / 29.0	2	7.0	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. Cu, Ms, Al, Fe
			055054D	8 / 11 / 40.0	3	13.0	70149	7.9 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			055053D	8 / 11 / 30.5	2	8.6	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. PP pipes
			055074D	8 / 11 / 45.0	2	16.0	70149	7.9 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			055074D	8 / 11 / 45.0	2	16.0	70149	7.9 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			055053D	8 / 11 / 30.5	2	8.6	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. PP pipes
TUBE CUTTER 28	3 - 28 mm	70010	070007D	4.8 / 3 / 16	3	2.5	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	3	2.5	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 / 9.5 / 23.6	3	7.0	70041	4.7 / 14 / M3	70067	-	PE-, PP-, VPE, PB- and PVDF pipes
Steel Pipe Cutter SUPER	1/8" - 1.1/4"	70040	070046D	7.5 / 14.0 / 25.7	3	5.5	70048	7.4 / 30 / -	70047	-	Steel pipe
	1/8" - 2"	70045	070051D	9.0 / 17.0 / 31.5	3	6.0	70053	8.9 / 35 / -	70052	-	Steel pipe
Steel Pipe Cutter ENORM	2" - 4"	70060	070061D	9.7 / 27 / 41.5	2	8.0	70064	9.4 / 52 / -	70063	-	Steel pipe
INOX TUBE CUTTER 30 PRO	3 - 30 mm	71085	070056D	7.5 / 14.0 / 25.7	5	5.5	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
INOX TUBE CUTTER	10 - 54 mm	70340	70341	5.0 / 21.0 / 30.0	2	3.5	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX TUBE CUTTER 35	6 - 35 mm	70055	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX TUBE CUTTER 42 PRO	6 - 42 mm	70070	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX SUPER	1/8" - 1.1/4"	70086	070088D	4.8 / 5.90 / 19.3	2	4.0	70048	7.4 / 30 / -	70047	-	Stainless steel pipe
	1/8" - 2"	70087	070089D	9.0 / 19 / 31.5	2	7.0	70053	8.9 / 35 / -	70052	-	Stainless steel pipe
Chain Pipe Cutter	100 mm	70285	-	4.0 / 3.8 / 17.8	-	3.0	-	-	-	Spare chain 70286	Cu, Ms, Al, Fe thin-walled.



# Cutting

## Cutting Plastic / MSR Manual

### 1 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	
<ul style="list-style-type: none"><li>● Minimum effort during cutting</li><li>● Precise right-angled cuts</li><li>● Pin-point precision without deformation</li><li>● Precise pressure transfer and guided cutter feed</li><li>● Automatic, controlled opening of the blade at the push of a button</li></ul>	

KEY FEATURES	
<ul style="list-style-type: none"><li>● Secure grip with the rubberised handles</li><li>● Shear arms lockable in transport position</li></ul>	
TECHNICAL DATA	
<b>ROCUT® Professional:</b>	<b>ROCUT® Standard:</b>
<b>TC 42:</b> Ø 0 - 42 mm	<b>TC 26:</b> Ø 0 - 26 mm
<b>TC 50:</b> Ø 0 - 50 mm	<b>TC 32:</b> Ø 0 - 32 mm
<b>TC 63:</b> Ø 0 - 63 mm	<b>PS 35:</b> Ø 6 - 35 mm
<b>TC 75:</b> Ø 0 - 75 mm	<b>PS 26/42:</b> 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



No. 55005 / No. 55015

### ROCUT® TC 63 Professional

Plastic pipe shears up to Ø 63 mm (2.1/2")

(TC 63 Professional for PVC pipes)



No. 52030



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. 52041	No. 55006	No. 55007	No. 52042	No. 52011	No. 52031	No. 52016

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

TC 67 PL:	6 - 67 mm	1/4 - 2.5/8"
TC 125 PL:	50 - 125 mm	2 - 5"
TC 168 PL:	110 - 168 mm	4 - 6.5/8"



No. 70033



No. 070031D

Removable internal pipe deburrer



Model	mm	inch	Cutting-depth	kg		No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	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>
Cutting Wheels, Spare Parts						<b>17</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 - 1.5/8")

### Product Profile

#### APPLICATION AREA

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



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 PVC

For quick, clean and right angled cuts on 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



Best contact with the pipe  
Straight cut

Model	mm	No.
PLASTICUT PVC	32 mm	<b>59035</b>
PLASTICUT PVC	40 mm	<b>59042</b>
PLASTICUT PVC	50 mm	<b>59050</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>

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





# Cutting


## Sawing Manual

### 1 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>

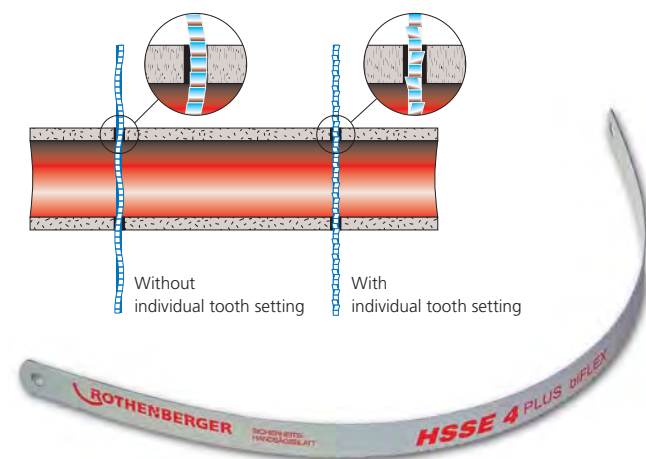
### Metal Saw Frame

- 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 saw 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			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 Machine Type	Straight Cuts		45° Cuts	
	O mm	□ mm	O 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	56710	56717
PORTACUT 185 BSP	49.0	56711	56718



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	56602
1,640 x 13 x 0.65	10	SS	starting from 8.0 mm	–	100	56603
1,640 x 13 x 0.65	14	SS	starting from 6.1 mm	–	100	56604
1,640 x 13 x 0.65	14	Bimetal	starting from 6.1 mm	from 2.0 mm	100	56605
1,640 x 13 x 0.65	24	SS	up to 3.6 mm	to 1.6 mm	100	56607
1,640 x 13 x 0.65	18	Bimetal	up to 3.6 mm	to 1.6 mm	100	56608



### 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.

#### 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	58520
Double telescoping extension rail, r. (300 mm)	1.9	58527
Double telescoping extension rail, l. (300 mm)	1.9	58528
"C" clamp	0.4	58529



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)



### 1 PIPECUT TURBO 250 / 400

Portable pipe cutting system suitable for different materials and pipe diameters from Ø 20 – 400 mm



#### Product Profile

##### APPLICATION AREA

Cuts pipes made of steel, copper, cast iron, aluminium, stainless steel and plastic.

##### KEY FEATURES

- Electronic speed adjustment for different pipe materials
- Laser indicator for an exact alignment of the blade
- LED illuminated cutting area
- Modular system – fast and easy change of the clamping system
- Overload indicator for an optimal cutting speed

Detachable saw blade cover

Easy and fast removal of sawdust

Laser indicator

Exact alignment, less offcuts

Overload protection with red/green-indicator

User gets feedback if system gets overloaded

Modular system

Economic solution by changing only the clamping system

LED light

Illuminated cutting area

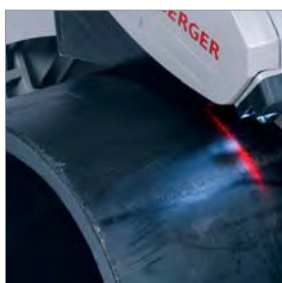
Manual fine-adjustment

Ensure accurate 90° cuts



Fig. Carrying bag  
PIPECUT 250/400 Turbo

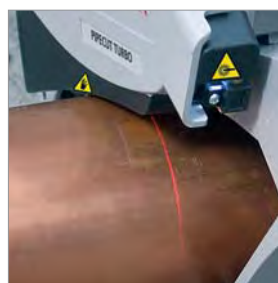
LED Light



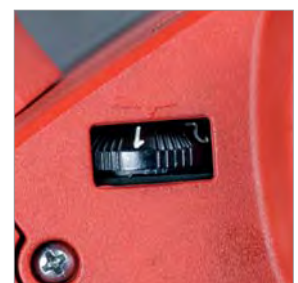
Modular system –  
easy change of clamping system



Laser indicator



Electronic speed adjustment



## PIPECUT TURBO 250

Portable pipe cutting system suitable for different materials and pipe diameters from Ø 20 – 250 mm

### TECHNICAL DATA

Dimensions:	223 x 235 x 410 mm
Weight:	8,3 kg
Pipe diameter:	Ø 20 - 250 mm
Max. wall thickness steel:	8 mm
Max. wall thickness PVC:	20 mm
Cable length:	3 m
Power:	1400 W
Disc diameter:	140 mm / 165 max
Coupling diameter:	62 mm

Cutting steel pipes up to Ø 250 mm (PIPECUT TURBO 250)



Set (No. 1000001251 / 1000001252) includes: PIPECUT TURBO 250 (230 / 110V), 1 Ceramic disc (No.56705) 140 x 62 mm Z46, 4 Rollers, 1 Carrying bag

Model	kg	No.
PIPECUT TURBO 250 (230 V)	13,6	<b>1000001251</b>
PIPECUT TURBO 250 (110 V)	13,6	<b>1000001252</b>
Pipe Clamping Device PIPECUT TURBO 400	10,2	<b>1000001364</b>

## PIPECUT TURBO 400

Portable pipe cutting system suitable for different materials and pipe diameters from Ø 80 – 400 mm

### TECHNICAL DATA

Dimensions:	223 x 285 x 550 mm
Weight:	10,2 kg
Pipe diameter:	Ø 80 - 400 mm
Max. wall thickness steel:	8 mm
Max. wall thickness PVC:	20 mm
Cable length:	3 m
Power:	1400 W
Disc diameter:	140 mm / 165 max
Coupling diameter:	62 mm

Cutting steel pipes up to 8 mm wall thickness



Set (No. 1000001253 / 1000001254) includes: PIPECUT TURBO 400 (230 / 110V), 1 Ceramic disc (No.56705) 140 x 62 mm Z46, 4 Rollers, 1 Carrying Bag

Model	kg	No.
PIPECUT TURBO 400 (230 V)	15,7	<b>1000001253</b>
PIPECUT TURBO 400 (110 V)	15,7	<b>1000001254</b>
Pipe Clamping Device PIPECUT TURBO 250	8,6	<b>1000001365</b>

### ACCESSORIES

Description	No.
Diamond disc cast / SML	<b>56706</b>
TCT disc HM universal	<b>56704</b>
Ceramic disc for stainless steel	<b>56705</b>
Disc plastic	<b>56703</b>
Carrying bag for PIPECUT TURBO 250	<b>1300002655</b>
Carrying bag for PIPECUT TURBO 400	<b>1300002688</b>



# Cutting

## Sawing Electric

1

### ROTIGER VARIO Electronic

#### Pipe saw

Powerful and quick cutting universal saw for the professional 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



#### L- and U-Shaft attachments



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

#### Precise 90° cuts



Model	kg	230 V	110 V
ROTIGER VARIO Electronic	7.0	50306	50305
Chain tensioning device up to 6"			50311
Tensioning device 2 in 1 (Chain tensioning device up to 6" + collet chucks up to 2")			50312



Fig. ROTIGER VARIO Electronic



## Universal ROTIGER VARIO Electronic

### Universal electronic saw

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



1

### 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

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



#### Universal-shaft attachment



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

#### Working in confined spaces



Fig. Universal ROTIGER VARIO Electronic

Model		kg	230 V	110 V
UNIVERSAL ROTIGER VARIO Electronic	7.0	50301	50302	









































# Cutting

## Saw Blades

1

### UNIVERSAL HSS Bimetal / TCT TIGER SAW BLADES










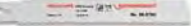
For 1/2" universal seating, also suitable for Flex, Bosch, B&D, Skil, Hitachi, Makita, Ridgid, Roller, Rems!

Cuttable materials	materials	L x B x thickness 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	material	L x B x thickness 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	material	L x B x thickness 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 Ø 4 - 54 mm (1/8" - 2")

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



No. 11006



No. 1500000237



No. 1500000236

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>1500000237</b>
Internal and external deburrer for copper and INOX (Stainless steel)	10 - 54	1/2 - 2"	390		<b>1500000236</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. 1500000237	160	<b>11044</b>
Deburrer adaptor II for No. 1500000236	280	<b>11045</b>



# Cutting

## Deburring, Chamfering & Calibration

1

### GRATFIX HSS/UNIGRAT

#### Deburrer

##### KEY FEATURES

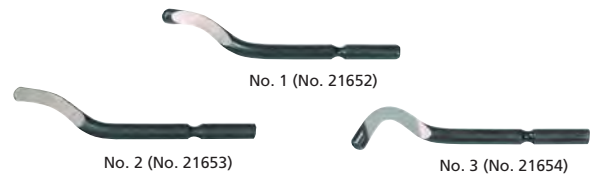
- Replaceable blades
- GRATFIX with plastic cartridge-grip
- Grip recess is raised at the end and prevents slippage out of the hand
- One-handed use with the retractable locking head
- Offset surfaces provide a good torque
- Pluggable handle ends for the storage of associated blades



UNIGRAT (No. 21660)

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>

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



GRATFIX HSS (No. 21655)

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>

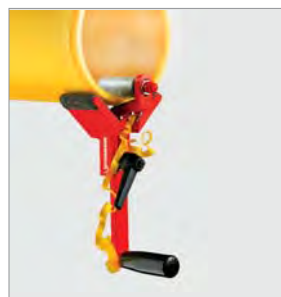
### Plastic Pipe Chamfering Unit

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 2.25	●	53	14102
G 20	GEBERIT Mepla	20.0 x 2.50	●	93	14104
G 26		26.0 x 3.00	●	108	14106
G 32		32.0 x 3.00	●	162	14107
U 14		14.0 x 2.00	●	51	14111
U 16		16.0 x 2.00	●	53	14112
U 18	UNIPIPE/TIGRIS-S	18.0 x 2.00	●	58	14113
U 20	WAVIN	20.0 x 2.25	●	93	14114
U 25		25.0 x 2.50	●	108	14115
U 32		32.0 x 3.00	●	162	14117
TH 14		14.0 x 2.00	●	51	14121
TH 16	Henco / MHS	16.0 x 2.00	●	53	14122
TH 18	Giacomini	18.0 x 2.00	●	58	14123
TH 20		20.0 x 2.00	●	93	14124
TH 26		26.0 x 3.00	●	108	14126
F 16-1		16.0 x 2.00	●	53	14132
F 18	Fränkische Rohrwerke	18.0 x 2.00	●	58	14133
F 20-1	alpex-therm	20.0 x 2.00	●	93	14134
F 26	alpex-san	26.0 x 3.00	●	108	14136
F 32		32.0 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

# ONE of 6.000

Premium tools for  
professionals!





# RODIA®

## Diamond Core Dilling

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# RODIA® Diamond Core Drilling

## System Overview

### Hand-Operated Drilling

**RODIADRILL  
Ceramic**



**RODIADRILL 160**



**RODIADRILL 200**



**RODIACUT® 150,  
RODIADRILL 160**



	Hand-Operated	Hand-Operated	Hand-Operated	Hand-Operated/Stationary
<b>Stationary Drilling in Concrete:</b>	Ø 6 - 67 mm	Ø 10 - 132 mm	Ø 10 - 200 mm	Ø 10 - 132 mm
<b>Stationary Drilling in Masonry:</b>	Ø 6 - 67 mm	Ø 32 - 162 mm	Ø 32 - 250 mm	Ø 10 - 152 mm
<b>Hand-Operated Drilling in Concrete:</b>	Ø 6 - 35 mm	Ø 10 - 82 mm	Ø 10 - 82 mm	Ø 10 - 82 mm
<b>Hand-Operated Drilling in Masonry:</b>	Ø 6 - 67 mm	Ø 32 - 162 mm	Ø 32 - 162 mm	Ø 32 - 162 mm
<b>Output:</b>	800 Watt	1400 Watt	2400 Watt	1400 Watt
<b>Gear:</b>	2 Gear	2 Gear	3 Gear	2 Gear
<b>Transmission:</b>	3600 / 6400 r.p.m.	500 / 1050 r.p.m.	600 / 1250 / 3200 r.p.m.	500 / 1050 r.p.m.
<b>Torque:</b>	4 / 7 Nm	55 / 27 Nm	71 / 34 / 17 Nm	55 / 27 Nm
<b>Weight:</b>	3,4 kg	6,7 kg	7,2 kg	16,7 kg

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### Drill Bits

**High Speed Plus-Nature stone\***



**DX- High Speed Plus\***



**SPEED STAR DX\***



<b>Connection:</b>	G 1/2"	G 1/2", 1.1/4" UNC	G 1/2", 1.1/4" UNC
<b>Drill Bit Diameter:</b>	Ø 6 - 67 mm	Ø 20 - 300 mm	Ø 10 - 500 mm
<b>Working length:</b>	up to Ø 10 mm = 50 mm from Ø 12 mm = 120 mm	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length
<b>Application:</b>	wet	wet & dry	wet & dry
<b>Tiles:</b>	☺☺☺	☺	☺☺
<b>Granite:</b>	☺☺☺	☺	☺☺
<b>Marble:</b>	☺☺☺	☺	☺☺
<b>Brick:</b>	☺☺	☺☺☺**	☺☺☺**
<b>Masonry:</b>	☺	☺☺☺**	☺☺☺**
<b>Lime-Sand Brick:</b>	☺	☺☺☺**	☺☺☺**
<b>Asphalt:</b>	☺☺	☺☺☺**	☺☺☺**
<b>Screed:</b>	☺☺	☺☺☺	☺☺
<b>Concrete:</b>	☺☺☺	☺☺☺	☺☺
<b>Reinforced Concrete:</b>	☺☺☺	☺☺	☺☺☺

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\* Special lengths and Diameters on request, \*\* Suitable for Dry Drilling, ☺☺☺ Ideally suited ☺☺ very suitable ☺ suitable

# RODIA® Diamond Core Drilling

## System Overview

### Stationary Drilling

**RODIACUT® 150,  
RODIADRILL 200**



**RODIACUT® 250,  
RODIADRILL 200**



**RODIACUT® 250,  
RODIADRILL 500**



**RODIACUT® 400 PRO,  
RODIADRILL 500**



	Hand-Operated/Stationary	Hand-Operated/Stationary	Stationary	Stationary
<b>Stationary Drilling in Concrete:</b>	Ø 10 - 152 mm	Ø 10 - 200 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
<b>Stationary Drilling in Masonry:</b>	Ø 32 - 225 mm	Ø 32 - 225 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
<b>Hand-Operated Drilling in Concrete</b>	Ø 10 - 82 mm	Ø 10 - 82 mm		
<b>Hand-Operated Drilling in Masonry</b>	Ø 32 - 250 mm	Ø 32 - 250 mm		
<b>Output:</b>	2.400 Watt	2.400 Watt	3.000 Watt	3.000 Watt
<b>Gear:</b>	3 Gear	3 Gear	3 Gear	3 Gear
<b>Transmission:</b>	600 / 1250 / 3200 r.p.m.	600 / 1250 / 3200 r.p.m.	215 / 430 / 785 r.p.m.	215 / 430 / 785 r.p.m.
<b>Torque:</b>	71 / 34 / 17 Nm	71 / 34 / 17 Nm	185 / 107 / 55 Nm	185 / 107 / 55 Nm
<b>Weight:</b>	17,2 kg	25,2 kg	30,1 kg	39,8 kg

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# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### 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.

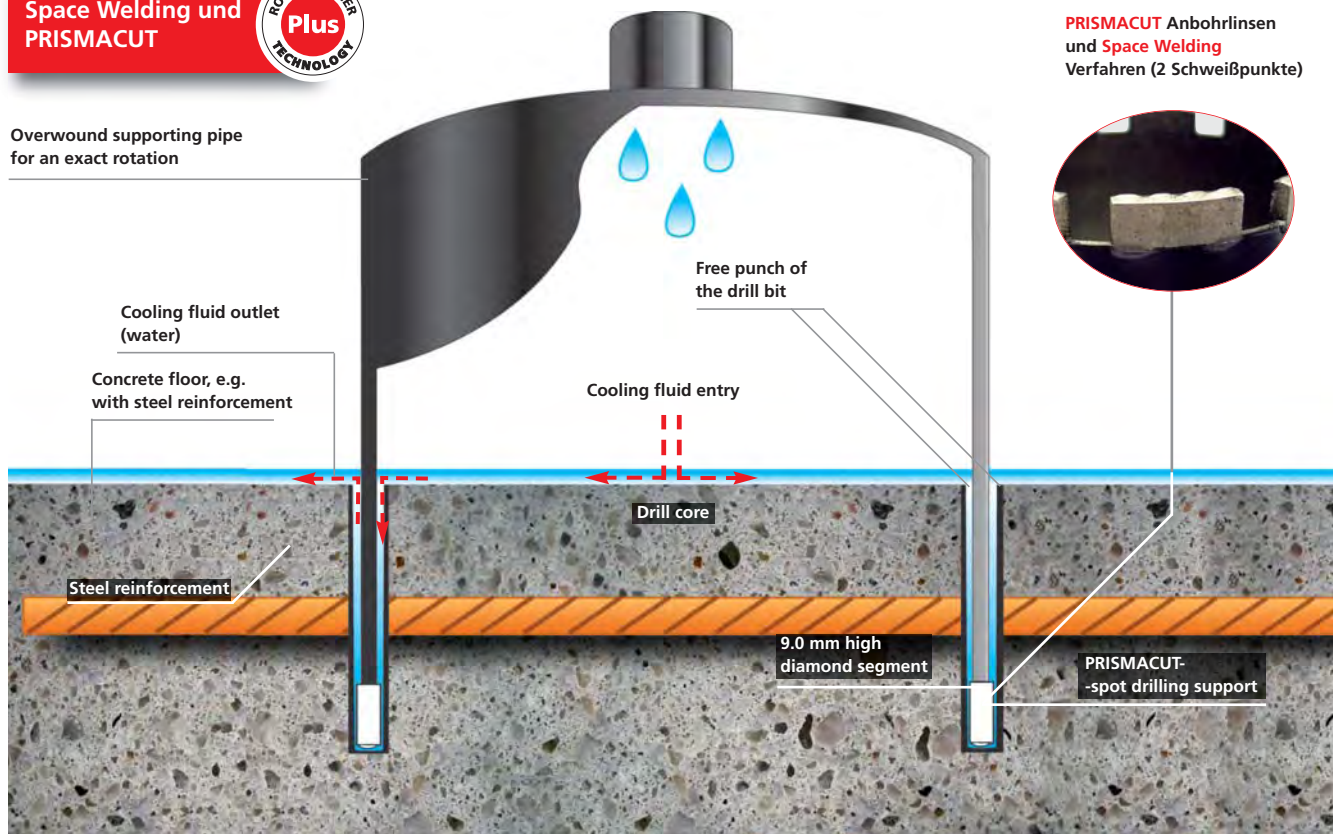
#### PRISMACUT

- 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

#### Space Welding und PRISMACUT



Overwound supporting pipe for an exact rotation



PRISMACUT Anbohrerlinsen und Space Welding Verfahren (2 Schweißpunkte)

### DX-High Speed Plus Universal Drill Bits

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



DX-High Speed Plus  
Universal Drill Bits on  
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### SPEED STAR DX

Space Welding Wet and Dry Drilling Bits  
for Ø 10 - 500 mm



SPEED STAR DX  
Drill Bits on Page 50

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL Ceramic

#### 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.



Ø 67

#### 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 G 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
- Toolless 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 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

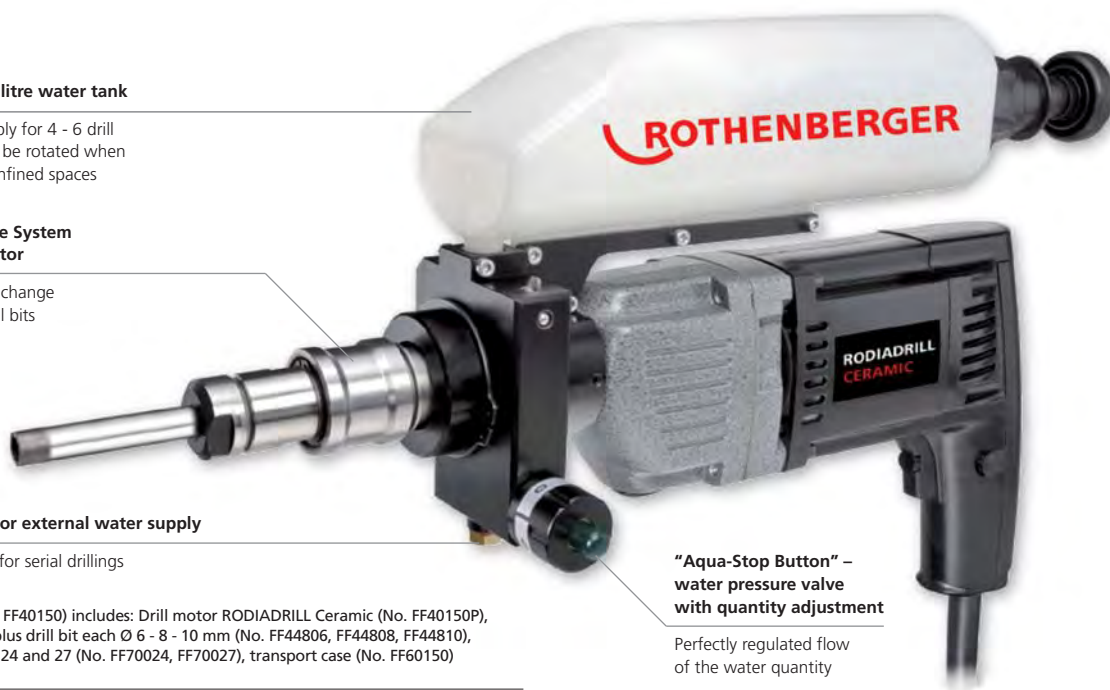
Toolless quick change for G 1/2" drill bits

#### Connection for external water supply

Ideal solution for serial drillings

**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	<b>FF40150</b>



Perfectly regulated flow of the water quantity

#### ACCESSORIES



Description	No.	Description	No.
Freehand drill support up to Ø 83 mm	<b>FF35750</b>	Water supply hose with "aqua-stop"	<b>FF35302</b>
Quick change adaptor	<b>FF35751</b>	HSP Nature stone drill bits	<b>48</b>
Pressurized water container 10 l	<b>FF35026</b>	Water collection ring, stationary	<b>FF35700</b>
Special water supply hose	<b>FF35301</b>	Transport case RODIADRILL Ceramic ECO	<b>FF60150</b>

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIACUT® 150 / RODIADRILL 160

RODIACUT® 150 drill column with combination drill mounting plate and RODIADRILL 160 drill motor for drilling Ø 10 – 132 mm (Ø 162 mm) in reinforced concrete

Product Profile	
APPLICATION AREA	
<b>RODIADRILL 160:</b>	
Stationary wet drilling in (reinforced) concrete:	Ø 10 - 132 mm
Hand-operated wet drilling in (reinforced) concrete:	Ø 10 - 82 mm
Hand-operated dry drilling in masonry:	Ø 10 - 162 mm
TECHNICAL DATA (DRILL STAND)	
<b>RODIACUT 150:</b>	
Drilling range:	w/o water collection ring max. Ø 152 mm with water collection ring max. Ø 132 mm
Drill motor adaptor:	Ø 60 mm
L x W x H:	280 x 440 x 810 mm
Hub:	480 mm
Weight:	9,7 kg

### 3 Applications with just one unit

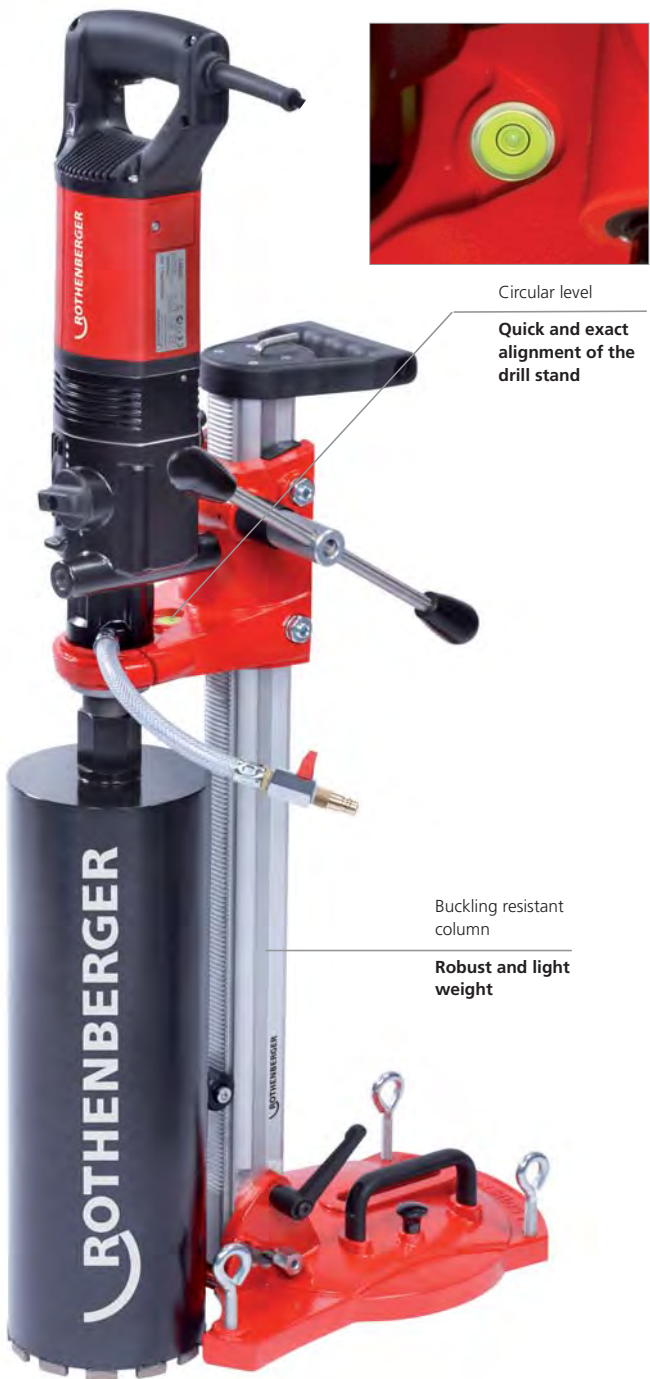


### RODIACUT® 150 / RODIADRILL 200

RODIACUT® 150 drill column with combination drill mounting plate and RODIADRILL 200 drill motor for drilling Ø 10 – 152 mm (Ø 250 mm) in reinforced concrete

Product Profile	
APPLICATION AREA	
<b>RODIADRILL 200:</b>	
Stationary wet drilling in (reinforced) concrete:	Ø 10 - 152 mm
Hand-operated wet drilling in (reinforced) concrete:	Ø 10 - 82 mm
Hand-operated dry drilling in masonry:	Ø 10 - 250 mm

### 3 Applications with just one unit





# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL 160

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 160
Threaded adaptor:	G 1/2" and 1.1/4" UNC
Power Input- / output:	2000 Watt / 1400 Watt
Gear:	1. Gear      2. Gear
Torque:	55 Nm      27 Nm
Clamping neck:	Ø 60 mm

### RODIADRILL 200

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 200
Threaded adaptor:	G 1/2" and 1.1/4" UNC
Power Input- / output:	2700 Watt / 2400 Watt
Gear:	1. Gear    2. Gear    3. Gear
Torque:	71 Nm    34 Nm    17 Nm
Clamping neck:	Ø 60 mm



Scope of delivery (No. FF34150): (No. FF30150) Drill stand RODIACUT 150, (No. FF40165) Drill motor RODIADRILL 160, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete Fixing Set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety Goggle HC/AF

Scope of delivery (No. FF34160): (No. FF30150) Drill stand RODIACUT 150, (No. FF40220) Drill motor RODIADRILL 200, (No. FF70001) Tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete Fixing Set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety Goggle HC/AF

Model	kg	No.
Drill system RODIACUT® 150/RODIADRILL 160	17,3	<b>FF34150</b>
Drill stand RODIACUT® 150	10,5	<b>FF30150</b>
Drill motor RODIADRILL 160	6,8	<b>FF40165</b>
Drill system RODIACUT® 150/RODIADRILL 200	17,7	<b>FF34160</b>
Drill motor RODIADRILL 200	7,2	<b>FF40220</b>

#### ACCESSORIES



Model	No.	Model	No.
RODIADRILL CERAMIC	<b>41 FF40150</b>	RODIA® DRY CLEANER 1200	<b>53 FF35148</b>
Pressurized water container 10 l	<b>52 FF35026</b>	Water collection ring, stationary (for FF30150)	<b>52 FF35700</b>
Vacuum pump RODIA-VAC	<b>51 FF35200</b>	Drill Bits	<b>48 - 50</b>

# RODIA® Diamond Core Drilling

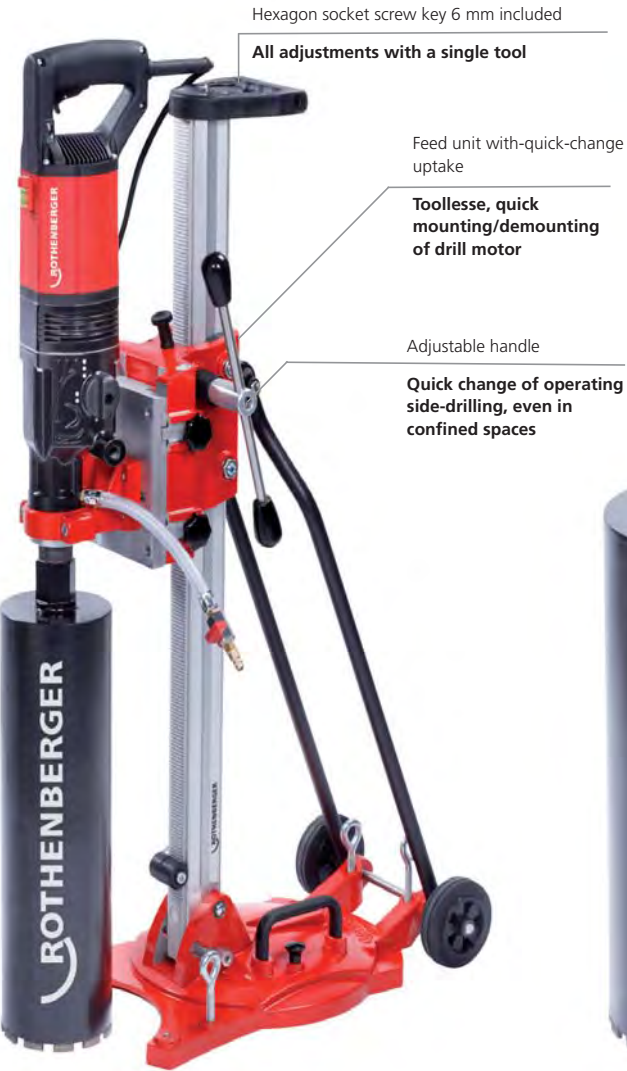
## Hand-Operated & stationary Drilling

### RODIACUT® 250 / RODIADRILL 200

RODIACUT®250 drill column with combination drill mounting plate and RODIADRILL 200 drill motor for drilling Ø 10 – 200 mm (Ø 250 mm) in reinforced concrete

Product Profile	
APPLICATION AREA	
<b>RODIADRILL 200:</b>	
Stationary dry drilling in reinforced concrete:	Ø 10 - 200 mm
Stationary dry drilling in Masonry:	Ø 10 - 225 mm
Hand-operated wet drilling in reinforced concrete:	Ø 10 - 82 mm
Hand-operated dry drilling in masonry:	Ø 10 - 250 mm
TECHNICAL DATA (DRILL STAND)	
<b>RODIACUT 250:</b>	
<b>Drilling range:</b>	w/o water collection ring max. Ø 250 mm with water collection ring max. Ø 225 mm
<b>Drill motor-adaptor:</b>	Clamping neck Ø 60 mm and Quick-change recording via dovetail plate
<b>L x W x H:</b>	260 x 510 x 980 mm
<b>Hub:</b>	650 mm
<b>Weight:</b>	19,7 kg

### 4 Applications with just one unit



### RODIACUT® 250 / RODIADRILL 500

RODIACUT®250 drill column with combination drill mounting plate and RODIADRILL 500 drill motor for drilling Ø 10 – 250 mm in reinforced concrete

Product Profile	
APPLICATION AREA	
<b>RODIADRILL 500:</b>	
Stationary dry drilling in reinforced concrete:	Ø 32 - 250 mm
Stationary dry drilling in masonry:	Ø 32 - 250 mm

### 2 Applications with just one unit





# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL 200

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 200		
Threaded adaptor:	G 1/2" and 1.1/4" UNC		
Power input / output:	2700 Watt / 2400 Watt		
Gear:	1. Gear	2. Gear	3. Gear
Torque:	71 Nm	34 Nm	17 Nm
Clamping neck:	Ø 60 mm		

### RODIADRILL 500

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 500		
Threaded adaptor:	G 1/2" and 1.1/4" UNC		
Power input / output:	4000 Watt / 3000 Watt		
Gear:	1. Gear	2. Gear	3. Gear
Torque:	185 Nm	107 Nm	55 Nm
Drill motor adaptor:	Quick-change recording via dovetail plate		
Clamping neck:	Ø 60 mm		



Scope of delivery (No. FF34200): (No. FF30250) Drill stand RODIACUT 250, (No. FF40220) Drill motor RODIADRILL 200, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety goggle HC/AF

Scope of delivery (No. FF34260): (No. FF30250) Drill stand RODIACUT 150, (No. FF40400) Drill motor RODIADRILL 500, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002469) Instruction manual RODIADRILL 500, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety goggle HC/AF

Model	kg	No.
Drill system RODIACUT® 250/RODIADRILL 200	21,7	<b>FF34200</b>
Drill stand RODIACUT® 250	14,5	<b>FF30250</b>
Drill motor RODIADRILL 200	7,2	<b>FF40220</b>
Drill system RODIACUT® 250/RODIADRILL 500	31,4	<b>FF34260</b>
Drill motor RODIADRILL 500	12,1	<b>FF40400</b>

#### ACCESSORIES



Description	No.	Description	No.
RODIADRILL CERAMIC	<b>41 FF40150</b>	RODIA® DRY CLEANER 1200	<b>53 FF35148</b>
Pressurized water container 10 l	<b>52 FF35026</b>	Water collection ring, stationary (für FF30150)	<b>52 FF35700</b>
Vacuum pump RODIA-VAC	<b>51 FF35200</b>	Drill bits	<b>48 - 50</b>



# RODIA® Diamond Core Drilling

## Stationary Drilling

### RODIACUT® 400 PRO / RODIADRILL 500

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



2

#### 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

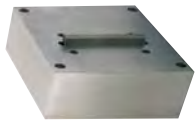
#### TECHNICAL DATA (DRILL STANDS)

**Drilling range:** w/o water collection ring: max. Ø 500 mm  
optional with distance plate

**Weight:** 28,4 kg

**L x W x H:** 460 x 260 x 1100 mm

**Hub:** 680 mm



\*Distance plate optional (No. FF35136)

To enlarge the drill hole diameter  
from Ø 400 to 500 mm with  
RODIACUT® 400 PRO



4x roll guides

Precise and low vibration  
operation, flexible use /  
module concept



Drill angle adjustments

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

Rubber transport wheels

Quick and easy transport on  
the building site

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

2



### RODIADRILL 500


Drill motor



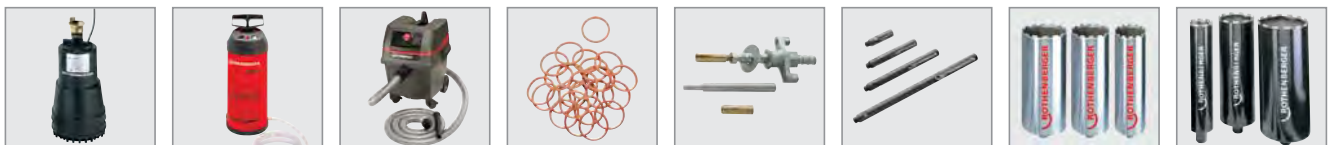
Scope of delivery (No. FF34500): (No. FF30030) Drill stand RODIACUT 400 PRO, (No. FF40400) Drill motor RODIADRILL 500, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 400 PRO, (No. 1300002468) Instruction manual RODIADRILL 500, (No. 4100000439) Earplugs Save-Rave, (No. 4100000443) Rubberized gloves, (No. 4100000441) Safety Goggles HC/AF



#### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 500
Threaded adaptor:	G ½" and 1.1/4" UNC
Power input / output:	4000 Watt / 3000 Watt
Gear:	1. Gear 2. Gear 3. Gear
Torque:	185 Nm 107 Nm 55 Nm
Drill motor adaptor:	Dovetail plate

Model		No.
Drill system RODIACUT® 400 PRO/RODIADRILL 500	40,5	<b>FF34500</b>
Drill stand RODIACUT® 400 PRO	28,4	<b>FF30030</b>
Drill motor RODIADRILL 500	12,1	<b>FF40400</b>

#### ACCESSORIES



Description		No.	Description		No.
Submersible water pump RODIAPUMP	52	<b>FF35029</b>	Distance plate 50 mm		<b>FF35131</b>
Pressurized water container 10 l	52	<b>FF35026</b>	Distance plate 60 mm		<b>FF35136</b>
RODIA® DRYCLEANER 1200	53	<b>FF35148</b>	Copper rings 1.1/4"	51	<b>FF35190</b>
Mounting articles		51	Extensions	52	
Drill bits		48 - 50			

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### High Speed Plus Natural Stone

Soldered diamond core wet cutting drill bit Ø 6 - 67 mm for extremely hard materials

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



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 G 1/2" threaded attachments

##### TECHNICAL DATA

###### G 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 G 1/2"

Suitable for all other ROTHENBERGER drilling machines



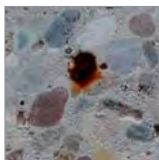
Overwound drill bits

Balanced rotation reduces wear

Drilling of the hardest materials



Reinf. concrete



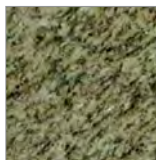
Marble



Granite



Green granite



Masonry



Hollow brickwork



Aerated concrete



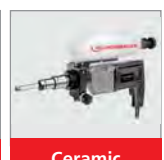
Asphalt



Suitable for



RD 160



Ceramic



RD 200

Ø mm	kg	Adaptor G 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 G 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 G 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 G 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 20 - 300 mm

Space Welding and  
PRISMACUT!



2

#### Product Profile

##### APPLICATION AREA

**Wet and dry drill bits** for drilling in reinforced concrete, asphalt, masonry, as well as lime sand brick for Ø 20 - 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

##### Suitable for



RD 160\*



RD 200\*



RD 500\*

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

**Highest service life and  
universal application!**

**Threaded adaptor  
G 1/2" and 1.1/4" UNC**

Suitable for all other  
ROTHENBERGER  
drilling machines



**Special segment mix**

Quicker drilling progress  
and extremely long service life

**Extremely easy cuts,  
safe cuts in hand  
operated use**

**Space welding**

Allows wet and dry use

**Overwound drill bits**

Balanced rotation reduces wear

Marble



Masonry



Hollow brickwork



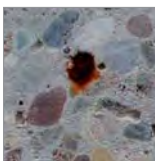
Pavement



Lime sand brick



Reinf. concrete



Ø mm	kg	Adaptor G 1/2" No.
20	0.5	FF44620
30	0.6	FF44630
40	0.7	FF44640
52	0.9	FF44650
62	1.2	FF44660
72	1.4	FF44670

Ø mm	kg	Adaptor G 1/2" No.
82	1.6	FF44680
92	1.9	FF44690
102	2.1	FF44700
112	2.4	FF44710
122	2.6	FF44720
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 G 1/2" and 1.1/4" UNC!

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### SPEED STAR DX

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

Space Welding and  
PRISMACUT!



#### Product Profile

##### APPLICATION AREA

**Wet and dry drill bits** for 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 G 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
<b>Connection G 1/2":</b>		Effective length 400 mm
<b>Connection 1.1/4" UNC:</b>		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



RD 160\*



RD 200\*



RD 500\*

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

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

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

Suitable for all other  
ROTHENBERGER  
drilling machines

Overwound drill bits

Balanced rotation reduces wear

Reinf. concrete



Marble



Asphalt



Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor G 1/2" 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	40	1.2	FF00040	142	5.0	FF00140
16	0.4	FF00616	72	1.4	FF00670	46	1.4	FF00045	152	6.4	FF00150
18	0.4	FF00618	76	1.5	FF00675	52	1.6	FF00050	162	7.0	FF00160
20	0.5	FF00620	82	1.6	FF00680	56	1.7	FF00055	172	7.5	FF00170
24	0.5	FF00624	87	1.7	FF00685	62	1.9	FF00060	182	8.0	FF00180
25	0.5	FF00625	92	1.9	FF00690	66	2.1	FF00065	200	9.0	FF00200
26	0.5	FF00626	95	2.0	FF00695	72	2.3	FF00070	220	11.4	FF00220
28	0.6	FF00628	102	2.1	FF00700	76	2.4	FF00075	250	13.6	FF00250
30	0.6	FF00630	108	2.3	FF00705	82	2.6	FF00080	280	17.6	FF00280
32	0.6	FF00632	112	2.4	FF00710	87	2.8	FF00085	300	19.3	FF00300
35	0.7	FF00635	117	2.5	FF00715	92	3.0	FF00090	350	23.6	FF00350
38	0.7	FF00638	122	2.6	FF00720	102	3.4	FF00100	400	28.4	FF00400
40	0.7	FF00640	127	2.8	FF00725	108	3.6	FF00105	450	33.6	FF00450
46	0.7	FF00645	132	2.9	FF00730	112	3.8	FF00110	500	39.1	FF00500

# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & stationary Drilling

### 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.



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

10 l extraction tank

Safety during a power failure

Drill stand can only be mounted with a combination of vacuum plate and vacuum set!

### Vacuum-Sets



No. FF35710  
No. FF35740

### Quick Clamping Column

Toolless 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.



No. FF35015

Description	kg	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, 170 C	1.1	<b>FF35710</b>
Spare foamed rubber for drill base	0.1	<b>FF50007</b>
Vacuum set RODIACUT® 202 DWS, 270 C	1.1	<b>FF35740</b>
Spare foamed rubber for drill base	0.1	<b>FF50008</b>

### Concrete / Masonry 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)

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 (reusable) (No. FF35126) and drive-in iron (No. FF35128)



No. FF35120

No. FF35121

### Thread Interfaces

Between motor connection and drill bit



No. FF35095

No. FF35080

No. FF35091

### Copper Rings 1.1/4

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



### Special Diamond Drills for Tiles and Natural Stone

For use when hammer drills can not 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



No. FF44815

No. FF44820

### SDS-plus Hammer drill



Description	kg	No.
Concrete fixing set	1.90	<b>FF35120</b>
Drive-in anchor concrete 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>
Masonry fixing set	1.10	<b>FF35121</b>
Rawl anchor M 12	0,08	<b>FF35126</b>
SDS-plus Hammer drill Ø 20 mm, NL. 300 mm	0,22	<b>111449</b>
Wet drill bit Ø 20 mm, G1/2"	0,22	<b>FF44820</b>
G 1/2" outer thread to 1.1/4" UNC outer thread	0,50	<b>FF35080</b>
1.1/4" UNC inner thread to G 1/2" inner thread	0,70	<b>FF35095</b>
Adaptor DD-BI to G 1/2" + 1.1/4"	0,50	<b>FF35091</b>
Adaptor DD-BU to G 1/2" + 1.1/4"	0,80	<b>FF35092</b>
Threaded interface WÜRTH to 1.1/4"	0,60	<b>FF35101</b>
Copper ring 1.1/4"	0,05	<b>FF35190</b>



# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & stationary Drilling

### Water Supply

The sturdy 10 litre pressurized water container made of steel 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.

#### 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



Description	kg	No.
Submersible water pump RODIAPUMP	4,40	<b>FF35029</b>
Water supply hose with Aqua-Stop	0,20	<b>FF35302</b>

#### Manometer

pressure indicator

#### 2.5 meter hose length

Ideal use for ceiling holes

No. FF35026



#### Connection Quick plug-in coupling

Drip-free connection even under water pressure

Description	kg	No.
Pressurized water container	5,50	<b>FF35026</b>
Special water supply hose	0,20	<b>FF35301</b>

### Water Extraction Systems

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



No. FF35730

Only for RODIACUT® 202 DWS, 250 and 270 C



No. FF35700

Only for RODIACUT® 131 DWS, 150 and 170 C

Description	kg	No.
Water collection ring, stationary (up to Ø 132 mm)	1.2	<b>FF35700</b>
Spare rubber membrane (for FF35700)	0.3	<b>FF55131</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>

### Extensions

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

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



Extensions  
G 1/2"



Extensions  
1.1/4" UNC

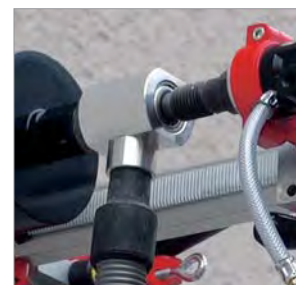
Nominal length mm	kg	G 1/2" No.	kg	1.1/4" UNC No.
100	0,40	<b>FF35040</b>	1,00	<b>FF35060</b>
200	0,90	<b>FF35045</b>	2,00	<b>FF35065</b>
300	1,40	<b>FF35050</b>	3,00	<b>FF35070</b>
500	2,40	<b>FF35055</b>	5,10	<b>FF35075</b>

### 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.

Model	kg	No.
Extraction Rotor 1.1/4" UNC (G1/2" Machine)	1,90	<b>FF40056</b>



# RODIA® Diamond Core Drilling

## 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

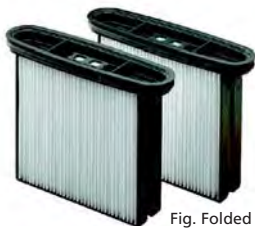


Fig. Folded filter  
No. FF55374

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

#### High cleaning efficiency

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

**Constant extraction power!  
Automatic filter-cleaning function!**



#### 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

**ONE**  
**of**  
**6.000**

**Premium tools for  
professionals!**

3







# Bending

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Do you want to know more about our products? Please scan the QR-Code!

# Bending

## System overview

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### Push bending

**TUBE BENDER**



**TUBE BENDER Maxi**



**TUBE BENDER Maxi MSR**



<b>Method:</b>	Manual 90°	Manual 90°	Manual 90°
<b>Working Area:</b> Copper	Ø 5-12 mm (1/4-1/2"), •⌀ 1 mm, soft	Ø 12-22 mm (3/8-7/8") •⌀ 1 mm, soft	–
<b>Working Area:</b> Aluminium	Ø 5-12 mm (1/4-1/2"), •⌀ 1 mm, soft	Ø 12-22 mm (3/8-7/8") •⌀ 1 mm, soft	–
<b>Working Area:</b> Precision steel	Ø 5-12 mm (1/4-1/2"), •⌀ 1 mm, soft	Ø 12-22 mm (3/8-7/8") •⌀ 1 mm, soft	–
<b>Working Area:</b> Stainless steel	–	Ø 12-18 mm (3/8-5/8") •⌀ 1 mm, soft	–
<b>Working Area:</b> MSR	–	Ø 14-26 mm (5/8-7/8") •⌀ 1 mm	Ø 14-32 mm •⌀ 2 mm

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### Pull bending

**Standard Two Handed  
Bender 90°**



**MULTIBEND**



**MINIBEND**



**Standard Bender 180°**



<b>Method:</b>	Manual 90°	Manual 180°	Manual 180°	Manual 180°
<b>Working Area:</b> Copper	Ø 12-22 mm •⌀ 1 mm, soft, semi-hard	Ø 10-18 mm (1/4 - 5/8") •⌀ 1 mm, soft	Ø 6-10 mm (1/4 - 3/8") •⌀ 1 mm, soft	Ø 6-18 mm (1/4 - 5/8") •⌀ 1 mm, soft
<b>Working Area:</b> Aluminium	–	Ø 10-18 mm (1/4-5/8") •⌀ 1 mm, soft	Ø 6-10 mm (1/4 - 3/8") •⌀ 1 mm, soft	Ø 6-18 mm (1/4 - 5/8") •⌀ 1 mm, soft
<b>Working Area:</b> Precision steel	–	Ø 10-18 mm (1/4-5/8") •⌀ 1 mm, soft	Ø 6-10 mm (1/4 - 3/8") •⌀ 1 mm, soft	Ø 6-18 mm (1/4 - 5/8") •⌀ 1 mm, soft
<b>Working Area:</b> Stainless steel	–	–	–	–
<b>Working Area:</b> MSR	–	–	–	–

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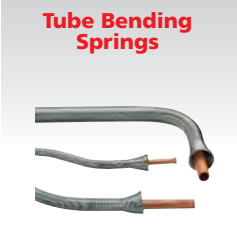



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### Push bending

	<b>ROBULL Typ E</b>	<b>ROBULL MSR Typ E</b>	<b>ROBULL Typ ME</b>	<b>ROBULL MSR Typ ME</b>
				
<b>Method:</b>	Manual hydraulic 90°	Manual hydraulic 90°	Hydraulic 90°	Hydraulic 90°
<b>Working Area:</b> Copper	—	—	—	—
<b>Working Area:</b> Aluminium	—	—	—	—
<b>Working Area:</b> Precision steel	Ø 3/8"-2"	—	Ø 3/8"-2"	—
<b>Working Area:</b> Stainless steel	—	—	—	—
<b>Working Area:</b> MSR	—	Ø 40-63 mm	—	Ø 40-63 mm
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### Pull bending

	<b>Tube Bending Springs</b>	<b>Internal Bending Springs MSR</b>	<b>ROBEND® H+W PLUS</b>	<b>ROBEND® 4000</b>
				
<b>Method:</b>	Manual 180°	Manual 180°	Manual 180°	Manual 180°
<b>Working Area:</b> Copper	Ø 8-16 mm (1/4-5/8")	—	Ø 8-22 mm (5/16 - 7/8") •⌀ 1 mm, soft, semi-hard, hard	Ø 12-35 mm (1/2 - 1.3/8") •⌀ 2,0 mm, soft, semi-hard, hard
<b>Working Area:</b> Aluminium	—	—	Ø 8-22 mm (5/16 - 7/8") •⌀ 1 mm, soft	Ø 12-35 mm (1/2 - 1.3/8") •⌀ 2,0 mm, soft, semi-hard, hard
<b>Working Area:</b> Precision steel	—	—	Ø 10-22 mm (3/8 - 5/8") •⌀ 1 mm, soft	Ø 12-35 mm (1/2 - 1.3/8") •⌀ 2,0 mm, soft
<b>Working Area:</b> Stainless steel	—	—	Ø 8-22 mm (5/16 - 7/8") •⌀ 1 mm, soft	Ø 12-35 mm (1/2 - 1.3/8") •⌀ 2,0 mm
<b>Working Area:</b> MSR	—	Ø 6-20 mm	—	Ø 12-35 mm (1/2 - 1.3/8") •⌀ 2,0 mm
<b>Page</b>	63	63	64, 65	70 - 72



# 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 pipes 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

Ratchet arm with bayonet coupling

Quick change of the bending formers

Release lever

Quick release and reset of the bending formers

Ergonomic design

One handed operation

Compact design

Accurate bending even in restricted spaces

Mechanical ratchet feed

Quick and accurate bending

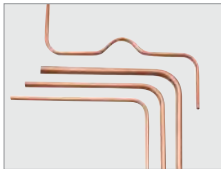
Open bending frame

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	24010
TB Set 5 - 6 - 8 - 10 mm	2.84	1	24131
TB Set 6 - 8 - 10 - 12 mm	3.03	1	24132
TB Set 8 - 10 - 12 mm	2.82	1	24133
TB Set 1/4 - 5/16 - 3/8 - 1/2"	2.92	1	24134
Plastic carrying case	0.60	1	24025
Basic tool without bending segments	0.36	1	766004016
Support segment	0.05	1	24048
Back plate without support segment	0.14	1	24049

### TUBE BENDER Bending

Model	Size	g	No.
Bending segments	5 mm	190	24001
Bending segments	6 mm	210	R2403200
Bending segments	8 mm	250	R2403300
Bending segments	9 mm	360	24004
Bending segments	10 mm	390	24005
Bending segments	12 mm	390	24007
Bending segments	1/4"	210	24002
Bending segments	5/16"	250	24003
Bending segments	3/8"	270	24006
Bending segments	1/2"	380	24008

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



## TUBE BENDER MAXI

For accurate one handed bending up to 90°,  
Ø 12 - 26 mm (3/8 - 7/8")

### 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 MSR-Sets) and stainless steel (soft)

Suitable for pipe made of:

<b>Copper (soft)</b> <b>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 - 7/8"

#### 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

#### Safe transport

Handle will not open during 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. 766100016), back plate support with segments (Cu Set No. 23001) (MSR Set No. 23001), (MSR-Set No. 24022), plastic carrying case (No. 23097)

Model	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>766100016</b>
Back plate support without support segment	0.5	1	<b>R2301500</b>
Support segments 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>995866100</b>

Previous bending segments and support segments 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>

TUBE BENDER MAXI MSR Set

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



3

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

Plastic bending formers and support segments with increased conductivity

Optimum bending results

Mechanical ratchet feed

Quick operation

Smooth running feed lever

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

Release lever

Quick release and resetting of bending formers

Body made of resistant die-cast steel

Sturdy and long-lasting

Fig. TUBE BENDER MAXI MSR

Universal field operation





Sets (No. 23065 / 23095) include: TUBE BENDER MAXI MSR (No. 23076), support brackets (No. 23080), bending formers in plastic carrying case (No. 995867300)

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

ACCESSORIES



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



## Standard Two Handed Bender 90°

For accurate bending up to 90° for pipes made of semi-hard copper according to DIN EN 1057 Ø 12 x 1.0 - 22 x 1.0 mm

### KEY FEATURES

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



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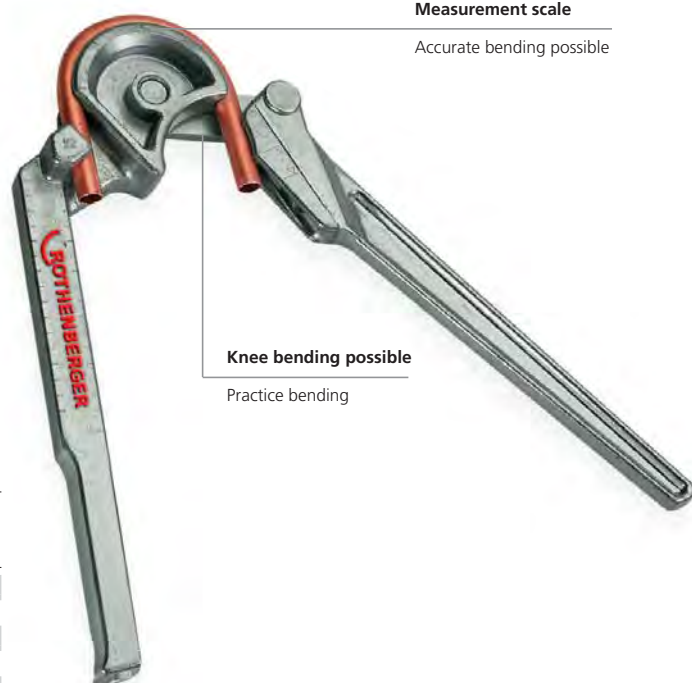
Size	mm	R Radius mm	L mm	kg	No.
12 mm	1.0	43	460	1.4	462212
15 mm	1.0	60	600	2.3	462215
18 mm	1.0	74	860	3.2	462218
22 mm	1.0	87	900	4.3	462222

## MULTIBEND Standard Bender 180°

For accurate bending up to 180° of pipes made of soft copper, aluminium and precision steel Ø 10 - 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

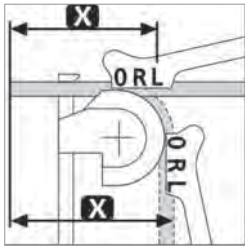


Size	max. mm	R Radius mm	kg	No.
10 mm	1.0	30	0.37	25401
12 mm	1.0	36	0.64	25402
14 mm	1.0	42	0.98	25403
15 mm	1.0	48	1.45	25404
16 mm	1.0	48	1.46	25405
18 mm	1.0	54	2.00	25406

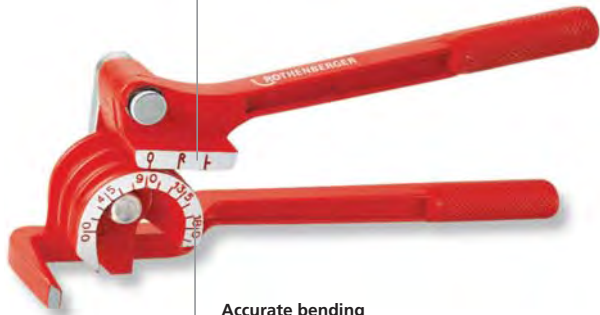
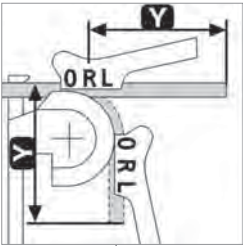
# Bending

## 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 (Measure 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 (Measure 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>



Accurate bending



Minimum size chart and bending radius display on measurement scale

### 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

 Size	R Radius mm	L 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>
18 mm	66	480	2,110	<b>25137</b>
1/4"	18	305	560	<b>25140</b>
5/16" / 12 mm	24	305	640	<b>25131</b>
1/2"	30	390	1,680	<b>25142</b>
5/8"	58	450	1,830	<b>25136</b>

#### ACCESSORIES



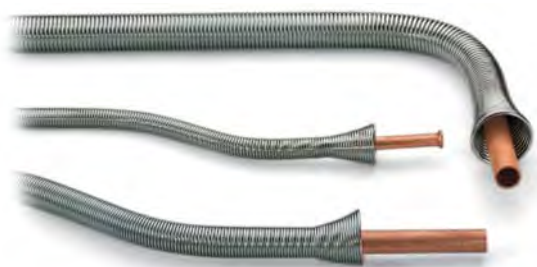
Description		No.
Internal / External deburrer	<b>27</b>	<b>1500000236</b>
Bending spray, 150 ml	<b>61</b>	<b>25120</b>

## Copper Tube Bending Springs

For free-handed bending of soft copper pipes  
Ø 8 - 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.
8 mm	70	25181
10 mm	80	25182
12 mm	160	25183
15 mm	220	25185
16 mm	220	25186

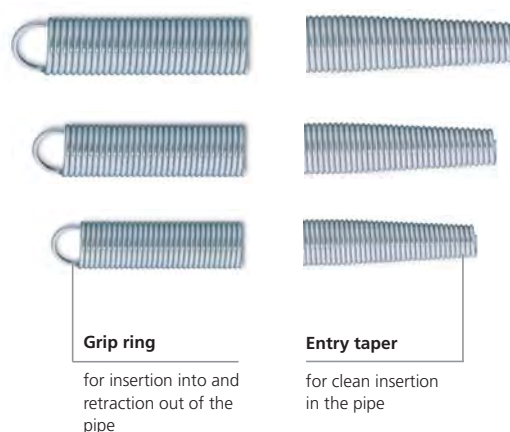
Size	g	No.
5/16"	70	25181
1/2"	130	25190
5/8"	220	25186

## 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



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

## 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. Bending spray

### ACCESSORIES



Description	No.
Internal / External deburrer	27 1500000236



# 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
- Two-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

#### ROLUB-Anti-block-System

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

#### ROLUB-Antiblock-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



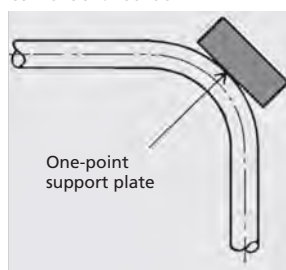
## ROBEND® H+W PLUS Bender

Size	max mm	R 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>

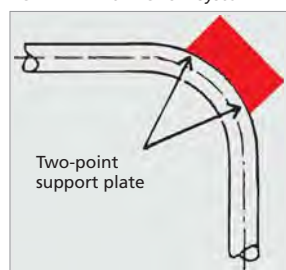
### ACCESSORIES (additional lever for two-hand bending)

Lever (short) for bending formers Ø 8 mm / 3/8"	<b>25075</b>
Lever for bending formers Ø 10 - 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 5 bending formers, 2 levers for vice bending and bending spray (No. 25120). Bender corresponds to the respective pipe dimensions.

## 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

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

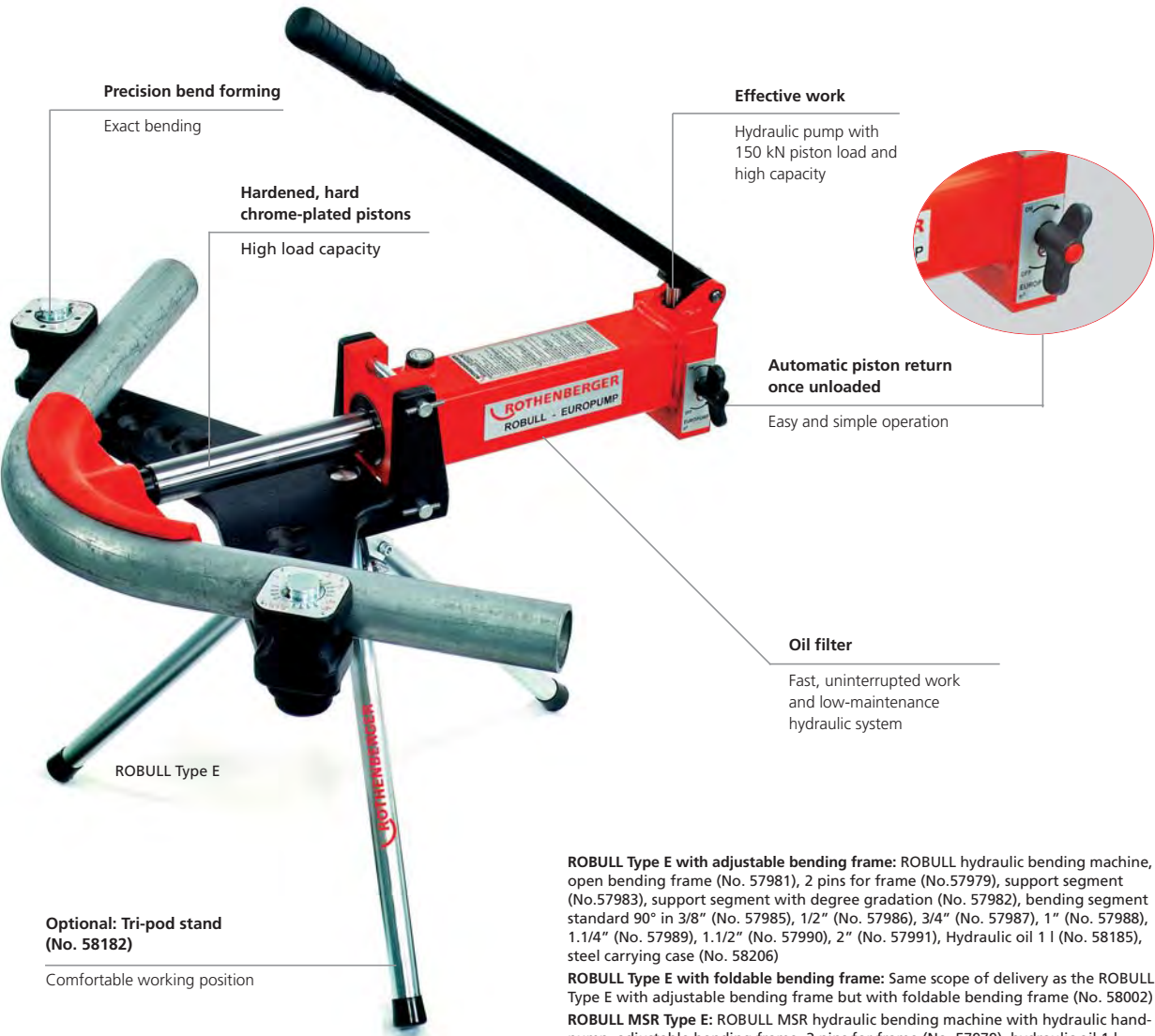
##### ROBULL MSR Type E:

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



**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 (red)

		Wall thickness max. mm	r mm		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 (black)



		Wall thickness max. mm	r mm		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



Set 40 - 50 - 63 (No. 58020) includes:  
Bending segment 40 mm (No. 58021),  
Bending segment 50 mm (No. 58022),  
Bending segment 63 mm (No. 58023),  
Support segments 40 mm (No. 57921),  
Support segments 50 mm (No. 57922),  
Support segments 63 mm (No. 57923)


### ROBULL MSR Type E Bending Segments


	Wall thickness max. mm	r mm		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		No.
<b>ROBULL Type E</b>		
Bending frame, adjustable	15.2	<b>57981</b>
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	<b>57982</b>
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	<b>57983</b>
Bending frame, foldable	12.5	<b>58002</b>
Support segment for foldable bending frame (1 piece)	2.2	<b>58004</b>
Locking pin	0.3	<b>57979</b>

Model		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>57923</b>
<b>ROBULL Type E / ROBULL MSR Type E</b>		
Hydraulic oil, 1 litre	1.0	<b>58185</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"

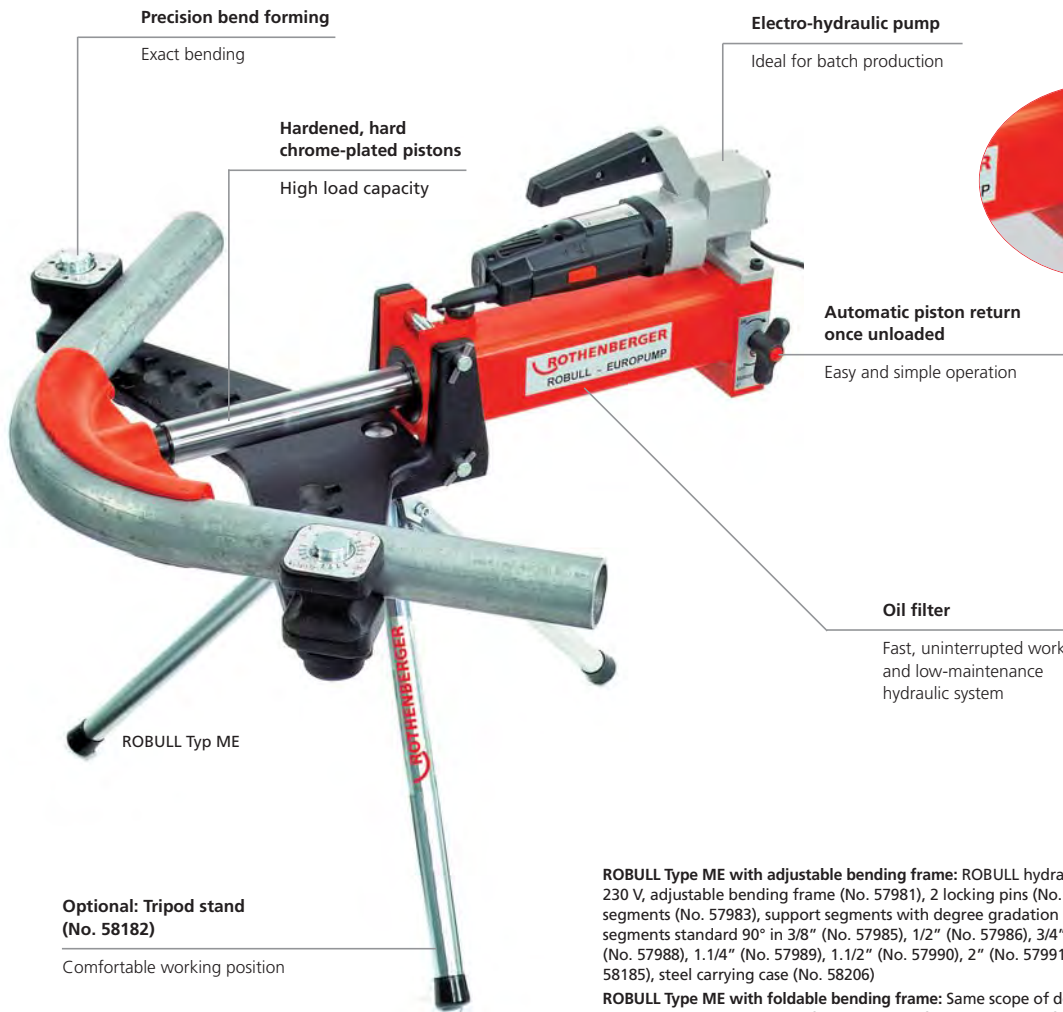
##### ROBULL MSR Type ME:

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 Type E with foldable bending frame

### ROBULL MSR Type ME



Set 40 - 50 - 63 (No. 58020) includes:  
Bending segment 40 mm (No. 58021),  
Bending segment 50 mm (No. 58022),  
Bending segment 63 mm (No. 58023),  
Support segments 40 mm (No. 57921),  
Support segments 50 mm (No. 57922),  
Support segments 63 mm (No. 57923)

### ROBULL Type ME Bending Segments

#### Small bending radius (red)

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

### ROBULL Type ME Bending Segments

#### Large bending radius (black)

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

### ROBULL MSR Type ME Bending Segments

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



### ACCESSORIES



Model	kg	No.
<b>ROBULL Type ME</b>		
Bending frame, adjustable	15.2	57981
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	775004000
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	57983
Bending frame, foldable	12.5	77504100
Support segment for foldable bending frame (1)	2.2	58004
Locking pin	0.3	57979

Model	kg	No.
<b>ROBULL MSR Type ME</b>		
Support segments, 40 mm (2 piece)	1.9	57921
Support segments, 50 mm (2 piece)	3.2	57922
Support segments, 63 mm (2 piece)	3.9	57923
<b>ROBULL Type ME / ROBULL MSR Type ME</b>		
Hydraulic oil, 1 litre	1.0	58185
Steel carrying case	10.0	58206
Tripod stand	3.0	58182



# Bending

## Electric

### ROBEND® 4000

Portable, sturdy and powerful. The successor of the proven ROBEND 3000, now with a higher bending radius: Cold bending up to 180°, Ø 12 - 35 mm (1/2 - 1.3/8").

#### Product Profile

##### APPLICATION AREA

Universal application in sanitary and heating installations, in pipe-line 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:

**Copper (hard, semi-hard and soft DIN EN 1057):** Ø 12 - 35 mm, (1/2-1.3/8")

**Copper and precision steel (coated):** Ø 12 - 35 mm, (1/2-1.3/8")

**Precision steel (soft DIN 2391 / 2393 / 2394):** Ø 12 - 35 mm, (1/2-1.3/8")

**Threaded steel (DIN 2440 / 2441):** Ø 3/8 - 3/4"

**Seamless stainless steel (GW 541):** Ø 12 - 35 mm, (1/2-1.3/8")

**Multi-layered composite pipe (MSR):** wall thickness 1,0 - 2,0 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



Forged aluminium former with bending radius scale

Easy to use

Pre-adjustment of the bending angle without tools

Fast and precise bending

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® 4000 with stand



## ROBEND® 4000 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), carrying case



3

### ROLUB-Antiblock-System!

ROLUB Special Guide Shoe made of high-quality polyamide

Perfect bending results without friction marks

Optional:  
Tripod stand

Two-point lubricating chamber system

Ensures optimum distribution of lubrication



Fig. ROBEND® 4000 Set

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® 4000 Set	15 - 18 - 22 mm	Cu, Fe, u.a.	24,12	1000001554
ROBEND® 4000 Set	15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24,12	1000001550
ROBEND® 4000 Set	12 - 14 - 16 - 18 - 22 mm	Cu, Fe, u.a.	21,90	1000001551
ROBEND® 4000 Set	15 - 22 - 28 mm	Cu, Fe, u.a.	21,10	1000001545
ROBEND® 4000 Set	12 - 14 - 16 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24,10	1000001552
ROBEND® 4000 Set	12 - 15 - 18 - 22 mm	Cu, Fe, u.a.	20,60	1000001548
ROBEND® 4000 Set	12 - 15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	23,50	1000001549
ROBEND® 4000 Set	15 - 18 - 22 - 28 - 35 mm	Cu, Fe, u.a.	32,00	1000001567
ROBEND® 4000 Set	1/2 - 5/8 - 3/4" - 7/8"	Cu, Fe, u.a.	19,60	1000001553
ROBEND® 4000 Set	1/2 - 5/8 - 3/4" - 7/8 - 1.1/8 - 1.3/8"	Cu, Fe, u.a.	22,00	1000001565
ROBEND® 4000 Set	7/8 - 1.1/8 - 1.3/8"	Cu, Fe, u.a.	29,00	1000001566
ROBEND® 4000 Basic unit	in carrying case without bending segments	Cu, Fe, u.a.	14,50	1000001559

### ACCESSORIES



Description	No.	Description	
Bending spray 150 ml	25120	Pipe cutter	14 - 25
Guide shoe axle	25743	Internal / External deburrer	33
ROBEND® carrying case, for 5 segments up to Ø 30 mm	25745	Hard soldering torch (SUPER FIRE 3 with MAPP®-GAS)	152
Tripod stand, foldable	25748	Brazing solder	185 - 18
ROBEND® carrying case, for 32 mm (1.1/4") and 35 mm (1.3/8")	1000001564		

ROBEND® 4000 bending sets can be found on 72

# Bending

## Accessories & Bending Tables

### ROBEND® 3000/4000 Bending Formers

For bending pipes Ø 12 - 28 mm (1/2 - 1.1/8")



Fig. ROBEND® 3000 bending set with ROLUB guide shoe

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

Size	Wall thickness mm	Bending radius mm	No.
1/2"	3,25	88	1,42 <b>25684</b>
3/4"	3,25	112	2,90 <b>25685</b>

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

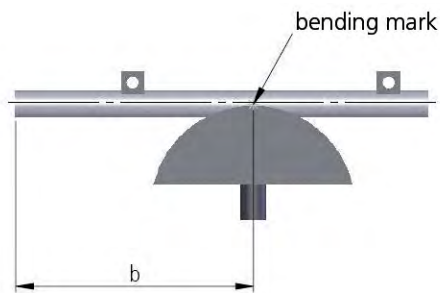
Size	Wall thickness mm	Bending radius mm	kg	No.
12 mm	1,0	42	0,48	<b>25612</b>
14 mm	1,0	49	0,48	<b>25614</b>
15 mm	1,0	52	0,53	<b>25615</b>
16 mm	1,0	56	0,60	<b>25616</b>
18 mm	1,0	72	1,17	<b>25618</b>
20 mm	1,0	80	1,42	<b>25620</b>
22 mm	1,2	88	1,42	<b>25622</b>
28 mm	2,0	112	2,90	<b>25628</b>
32 mm*	2,0	134	3,40	<b>1000001561</b>
35 mm*	2,0	140	3,60	<b>1000001563</b>

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.
1/2"	1,2	45	0,53	<b>25652</b>
5/8"	1,2	56	0,60	<b>762955300</b>
3/4"	1,2	80	1,42	<b>25619</b>
7/8"	1,2	88	1,42	<b>762955700</b>
1"	1,5	112	2,90	<b>25625</b>
1.1/8"	1,6	112	2,90	<b>25626</b>
1.1/4"*	2,0	134	3,40	<b>1000001561</b>
1.3/8"*	2,0	140	3,60	<b>1000001563</b>

\*Bending Former Sets (No. 1000001561), (No. 1000001563) are only compatible with ROBEND 4000. Only matching with optional plastic carrying case (No. 1000001564).

### Push 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:

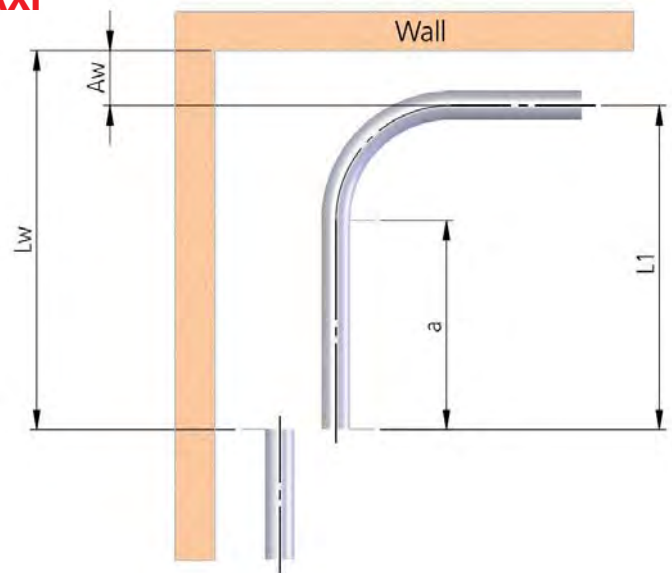
Installation in corner areas  
 $L_W = 1200$  mm  
 $A_W = 30$  mm  
 Pipe-Ø 12 mm, 90°-Arch

#### 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 Ø mm / inch	Bending radius R (mm)	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ 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 Ø mm / inch	Bending radius R (mm)	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ 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	-	-

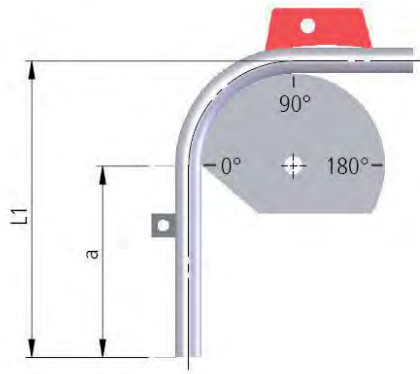
TUBE BENDER MAXI CT		at 45°		at 90°		at 180°	
Ø / Ws mm	Bending radius R (mm)	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ mm
10 x 0,6	42,5	0,8	12,5	9,0	42,5	-	-
12 x 0,6	49,0	1,1	14,5	10,5	49,0	-	-
15 x 0,7	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

$L_1, L_2$  = Leg length  
 $a$  = Lay out length  
 $L$  = Total length of the pipe piece  
 $L_W$  = Distance / pipe end - wall  
 $A_W$  = Distance wall - pipe middle  
 $L_M$  = Minimum Length\*  
 $L_R$  = 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 / ROBEND® 4000

#### Specifications:

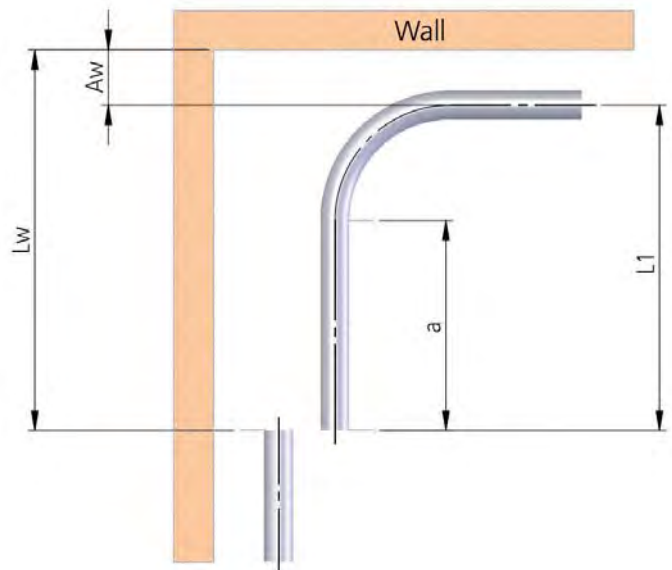
Installation in corner areas  
 $L_W = 1200$  mm  
 $A_W = 30$  mm  
 Pipe-Ø 12 mm, 90°-Arc

#### Sought after:

Leg length  $L_1$   
 Applied size  $a$

#### Solution:

Summary from the ROBEND® 3000/4000 bending table



Leg length  $L_1 = L_W - A_W = 1200 - 30 = 1.170$  mm  
 Applied size  $a = L_1 - L_R = 1170 - 42 = 1.128$  mm;  $L_R$  .. Tabular value

# Bending

## Bending Tables

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<b>H&amp;W Plus</b>		<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
Ø / Ws mm / inch	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length 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 mm / inch	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length 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 180°</b>		<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
for Ø mm / inch	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
6	18.0	7.0	0.8	18.5	8.0	18.5	20.0
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
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 mm	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length 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® 3000/4000</b>			<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
for Ø mm / inch	Pipe	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length 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

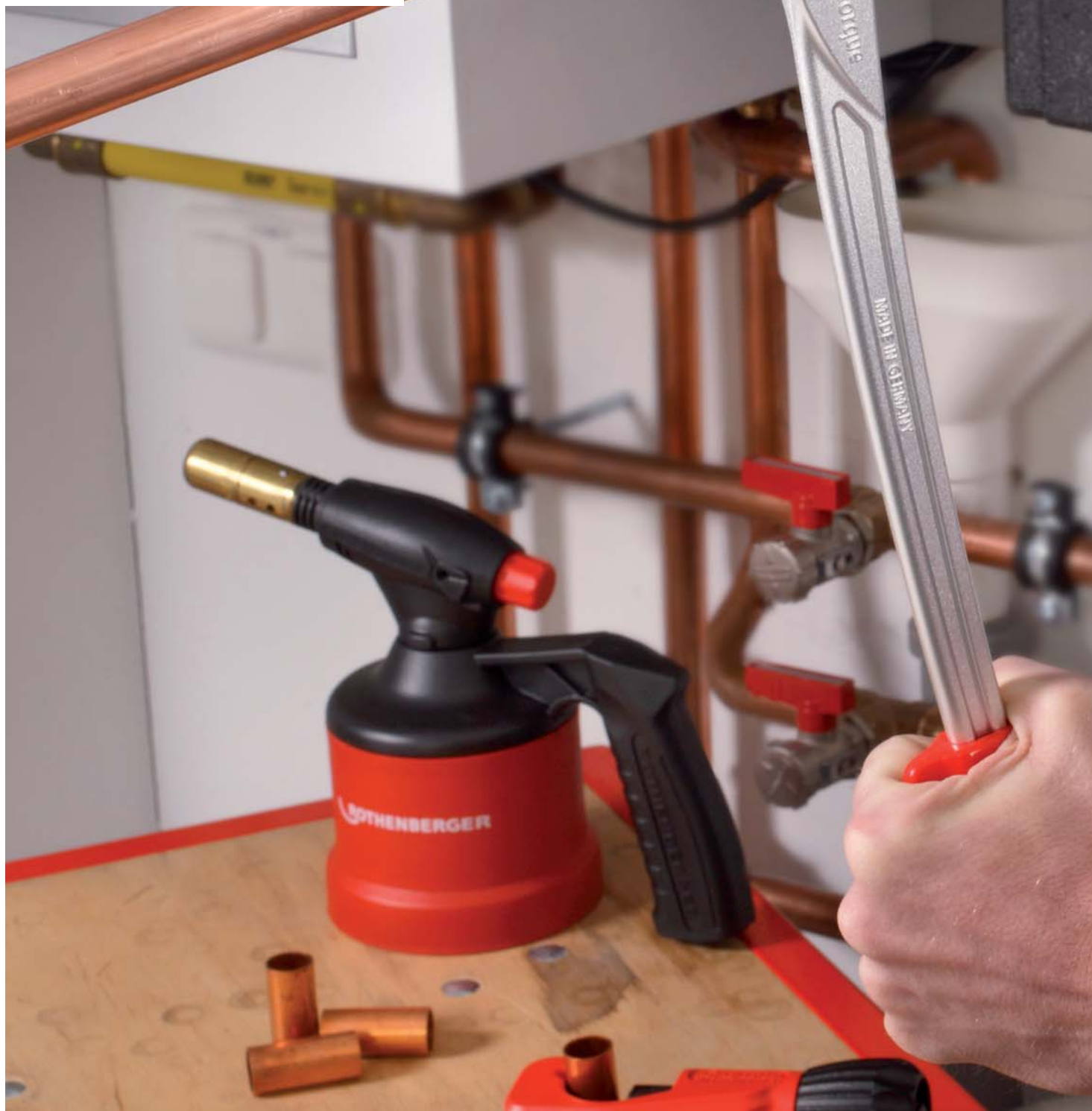
\*All sizes listed are standards and are dependant on the material and the wall thickness. Bending specific sizes based on the bending radius - tabular value



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4





# Expanding, Extracting, Flaring

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# Expanding, Extracting, Flaring

## System Overview

### Expander

**ROCAM® Expander  
Power Torque**



**ROLOCK Expander  
Power Torque**



**Expander A0**



**Step Expander A1**



<b>Operation mode:</b>	Manual	Manual	Manual	Manual
<b>Working range:</b> Copper	Ø 8-42 mm (5/16-1.3/4") •⊖ 1,6 mm, soft, semi-hard	Ø 8-42 mm (5/16-1.3/4") •⊖ 1,6 mm, soft, semi-hard	Ø 22-67 mm (1-2.1/2") •⊖ 2,5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •⊖ 2,5 mm, soft
<b>Working range:</b> Aluminium	Ø 8-28 mm (5/16-1.1/8") •⊖ 1,6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •⊖ 1,6 mm, soft	Ø 22-67 mm (1-2.1/2") •⊖ 2,5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •⊖ 2,5 mm, soft
<b>Working range:</b> Precision steel	Ø 8-28 mm (5/16-1.1/8") •⊖ 1,6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •⊖ 1,6 mm, soft	Ø 22-54 mm (1-2.1/8") •⊖ 1,5 mm, soft	—
<b>Working range:</b> Stainless steel	Ø 8-22 mm (5/16-7/8") •⊖ 1 mm, soft	Ø 8-22 mm (5/16-7/8") •⊖ 1 mm, soft	Ø 22-54 mm (1-2.1/8") •⊖ 1,5 mm, soft	—

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**ROMAX® Expander  
AC ECO MAXI**



**ROMAX® Expander  
Compact**



**H 600**



<b>Operation mode:</b>	Hydraulic	Hydraulic	Hydraulic
<b>Working range:</b> Copper	Ø 35-108 mm (1.3/8-4.1/8") •⊖ 2,5 mm, soft, semi-hard	Ø 8-67 mm (5/16-2.1/2") •⊖ 2,0 mm, soft	Ø 8-110 mm (5/16-4.1/4") •⊖ 3 mm, soft, semi-hard
<b>Working range:</b> Aluminium	Ø 35-108 mm (1.3/8-4.1/8") •⊖ 2,5 mm, soft	Ø 8-67 mm (5/16-2.1/2") •⊖ 2,0 mm, soft	Ø 8-110 mm (5/16-4.1/4") •⊖ 3 mm, soft, semi-hard
<b>Working range:</b> Precision steel	—	Ø 8-67 mm (5/16-2.1/2") •⊖ 1,0 mm, soft	Ø 8-110 mm (5/16-4.1/4") •⊖ 3 mm, soft, semi-hard
<b>Working range:</b> Stainless steel	—	Ø 8-15 mm •⊖ 1,0 mm, soft	Ø 8-110 mm (5/16-4.1/4") •⊖ 3 mm, soft, semi-hard

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### Expander Heads

**Expander Head  
Standard**



**Expander Head  
ROLOCK**



**Expander Head  
Type 5**



**Riveted Expander  
Head**



<b>Working range:</b> Copper	Ø 8-42 mm (5/16-1.3/4") •Ø 1,6 mm, soft, smi-hard	Ø 8-42 mm (5/16-1.3/4") •Ø 1,6 mm, soft, semi-hard	Ø 22-67 mm (1-2.1/2") •Ø 2,5 mm, soft, semi-hard	Ø 15-38 mm •Ø 1,5 mm, soft, semi-hard
<b>Working range:</b> Aluminium	Ø 8-28 mm (5/16-1.1/8") •Ø 1,6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •Ø 1,6 mm, soft	Ø 22-67 mm (1-2.1/2") •Ø 2,5 mm, soft	Ø 15-28 mm •Ø 1,5 mm, soft
<b>Working range:</b> Precision steel	Ø 8-28 mm (5/16-1.1/8") •Ø 1,6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •Ø 1,6 mm, soft	Ø 22-54 mm (1-2.1/8") •Ø 1,5 mm, soft	Ø 15-28 mm •Ø 1,5 mm, soft
<b>Working range:</b> Stainless steel	Ø 8-22 mm (5/16-7/8") •Ø 1 mm, soft	Ø 8-22 mm (5/16-7/8") •Ø 1 mm, soft	Ø 22-54 mm (1-2.1/8") •Ø 1,5 mm, soft	Ø 15-22 mm •Ø 1,0 mm, soft

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**Expander Head H2,  
Type 2**



**Expander Head H2,  
Type 3**



**Step Expander Head**



<b>Working range:</b> Copper	Ø 28-70 mm (1.1/8-2.3/4") •Ø 2,5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") •Ø 3,0 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •Ø 2,5 mm, soft, semi-hard
<b>Working range:</b> Aluminium	Ø 28-70 mm (1.1/8-2.3/4") •Ø 2,5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") •Ø 3,0 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •Ø 2,5 mm, soft
<b>Working range:</b> Precision steel	Ø 28-70 mm (1.1/8-2.3/4") •Ø 2,5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") •Ø 3,0 mm, soft, semi-hard	—
<b>Working range:</b> Stainless steel	Ø 28-70 mm (1.1/8-2.3/4") •Ø 2,5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") •Ø 3,0 mm, soft, semi-hard	—

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# Expanding, Extracting, Flaring

## Expanding manual

### ROCAM® EXPANDER Power Torque

For expanding, reducing and calibrating soft and semi-hard pipes Ø 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>	Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
<b>Aluminium (soft):</b>	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Precision steel (soft):</b>	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Stainless steel (soft):</b>	Ø 8 - 22 mm, 5/16 - 7/8" 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
- **EPT® – concealed bent lever**

#### Made in Germany!

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



#### ROCAM® EXPANDER Power Torque

		kg	No.
Expander tool (without expander heads)	1	1.0	12400
for expander heads up to 42 mm / 1.3/4"			

### ROCAM® EXPANDER Power Torque Sets

ROCAM® EXPANDER Power Torque Sets include: Expander heads, ROCAM® EXPANDER Power Torque (No. 12400), internal and external deburrer (No. 11006), in a steel carrying case (No. 24022), plastic inlay (No. 11002)

ROCAM® EXPANDER Power Torque Sets			
Model		kg	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>
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>

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



ROCAM® EXPANDER Power Torque Sets			
		kg	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>

For efficient, fitting-free installation of pipes



### ROCAM® PE-X EXPANDER Power Torque

For expanding and calibrating PE-X and aluminium multi-layered composite pipe (MSR) up to Ø 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

Bezeichnung		kg	No.
ROCAM® EXPANDER PE-X ohne Expanderköpfe	1		<b>12005</b>



Article upon request\*

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



# Expanding, Extracting, Flaring

## Expanding manual

### ROLOCK EXPANDER Power Torque

For expanding, reducing and calibrating soft and semi-hard pipes Ø 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:**

**Copper (soft and semi-hard):** Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm

**Aluminium (soft):** Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm

**Precision steel (soft):** Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm

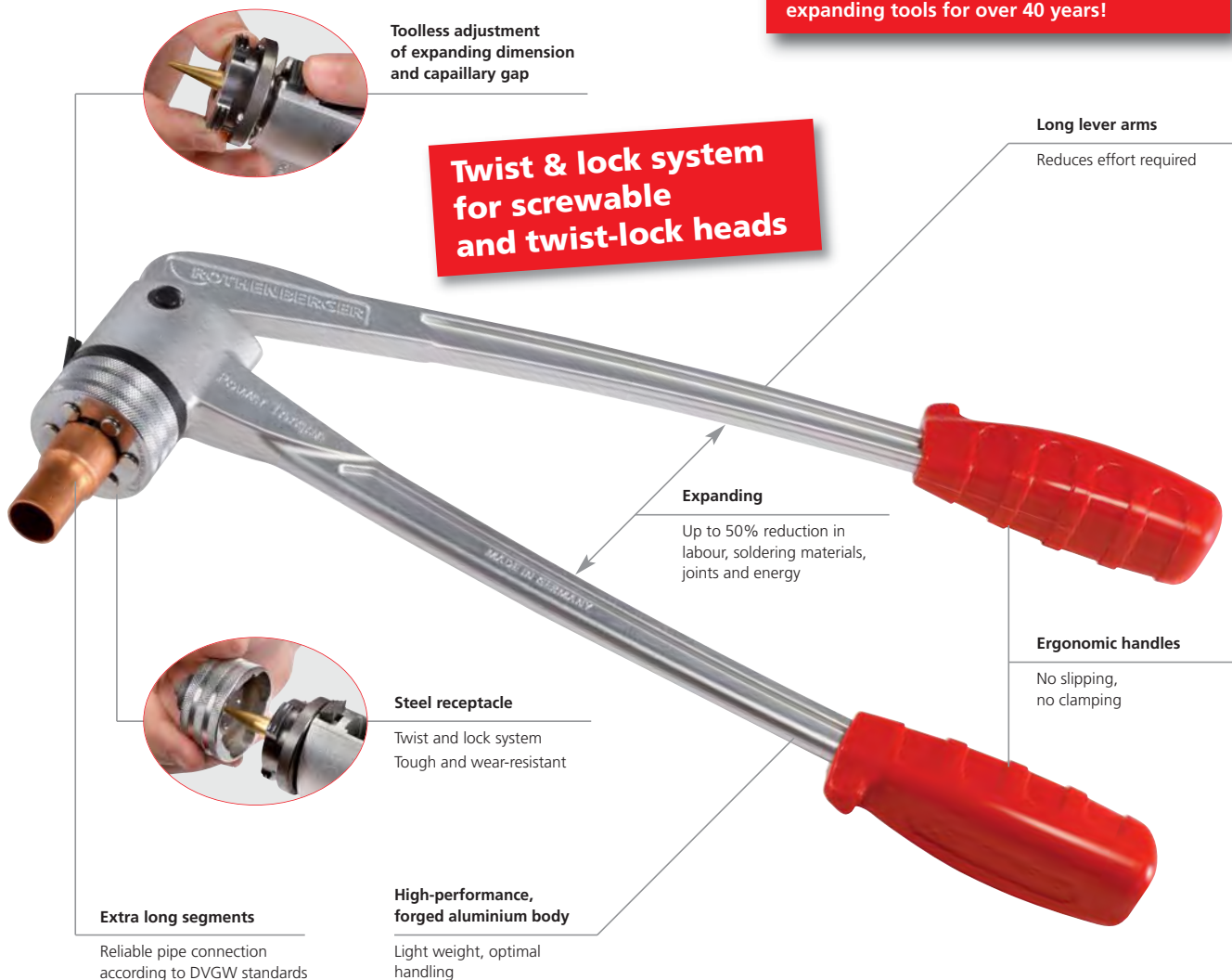
**Stainless steel (soft):** Ø 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

##### 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
- **EPT® – concealed bent lever**

#### Made in Germany!

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



#### ROLOCK EXPANDER Power Torque



No.

Expander tool (without expander heads) for expander heads up to 42 mm / 1.3/4"	1	1.0	12400
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### ROLOCK EXPANDER Power Torque Sets

ROLOCK EXPANDER Power Torque Sets include: Expander heads, ROLOCK EXPANDER Power Torque (No. 12400), internal and external deburrer (No. 11006), in a steel carrying case (No. 24022), plastic inlay (No. 11002)



New expander head for guide change between nominal diameters



Expander heads with screw top applicable

ROLOCK EXPANDER Power Torque Sets			
Description		kg	No.
12 - 15 - 18 - 22 mm	1	2.9	12500
12 - 15 - 18 - 22 - 28 mm	1	3.3	12503
10 - 12 - 16 - 22 - 28 mm	1	3.3	12505
12 - 14 - 16 - 18 - 22 mm	1	3.3	12509
10 - 12 - 14 - 16 - 18 - 22 mm	1	3.6	12511
10 - 12 - 15 - 16 - 18 - 22 - 28 mm	1	3.6	12537
12 - 14 - 16 - 18 - 22 - 28 - 32 mm	1	3.7	12538
3/8 - 1/2 - 5/8 - 3/4 - 1"	1	3.3	12517
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8"	1	3.6	12518
1/2 - 5/8 - 3/4 - 7/8"	1	2.9	12521
12 - 16 - 18 - 22 - 28 mm	1	3.2	12522
1/2 - 5/8 - 7/8 - 1.1/8"	1	3.0	12524
12 - 15 - 18 - 22 - 28 - 35 - 42 mm	1	4.2	12526
1/2 - 3/4 - 1"	1	2.9	12535
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"	1	3.7	12536
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"	1	4.5	12541

#### 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:

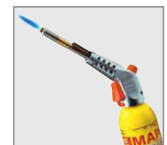
Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort



For efficient, fitting-free installation of pipes



### ACCESSORIES



Description		Description	
Expander heads for ROLOCK EXPANDER Power Torque	84	Expander adaptor type S	87
Expander heads type S / riveted expander heads	87	Brazing solder	185 - 187
Pipe cutter	14 - 25	High-Performance torch (SUPER FIRE 3 with MAPP®-GAS)	152 - 153
Internal / External deburrer	33		

# Expanding, Extracting, Flaring

## Expanding manual

### Standard Expander Head

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

#### Product Profile

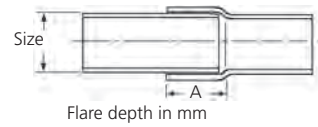
##### KEY FEATURES

- 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

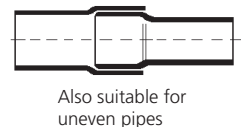
### Made in Germany!

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

Expansion of pipe ends



Reduction



4

Fits similar expanders from other brands as well!

#### Specially hardened segments

Tough and long lasting

#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

#### Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

#### Extra long segments

Depth of the flare is consistent with DVGW standards



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

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

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

### Suitable for ROTHENBERGER Expander



Model		Model	
ROCAM® EXPANDER Power Torque	<b>80</b>	Electro-Hydraulic Expander Pistol H 2	<b>92</b>
ROMAX® EXPANDER Compact	<b>89 - 90</b>	COMBI KIT Expander / Tee-Extractor	<b>94</b>
Electro-Hydraulic Expander Pistol H 1	<b>92</b>		



### ROLOCK Expander Head

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

#### Product Profile

##### KEY FEATURES

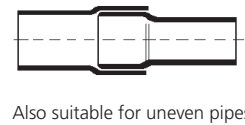
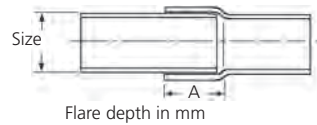
- 50% reduction in labour, soldering materials and soldered joints
- Depth of the flare is consistent with DVGW standards
- Guide guarantees a perfect centred position and uniform capillary gap
- Tough and long lasting with the hardened segments

#### Made in Germany!

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

Expansion of pipe ends

Reduction



**Twist & lock heads for ROLOCK EXPANDER Power Torque**

**Specially hardened segments**

Tough and long lasting

**6 Rivets and guide channels**

Guide guarantees a perfect centred position and uniform capillary gap

**Step at the end of the segments**

Enables re-calibration of irregular pipes and fittings



**Extra long segments**

Depth of the flare is consistent with DVGW standards

mm	Wall thickness mm (soft)				mm	A	No.
	Cu	Al	Fe	Inox		g	
8	1.0	1.0	1.0	1.0	6.0	120	<b>12408</b>
10	1.0	1.0	1.0	1.0	10.0	120	<b>12410</b>
12	1.2	1.2	1.2	1.0	12.6	120	<b>12412</b>
14	1.2	1.2	1.2	1.0	12.6	120	<b>12414</b>
15	1.2	1.2	1.2	1.0	15.5	120	<b>12415</b>
16	1.2	1.2	1.2	1.0	15.5	120	<b>12416</b>
18	1.2	1.2	1.2	1.0	17.5	120	<b>12418</b>
20	1.2	1.2	1.2	1.0	17.5	140	<b>12420</b>
22	1.2	1.5	1.5	1.0	20.5	140	<b>12422</b>
28	1.5	1.5	1.5	—	18.5	390	<b>12428</b>
32	1.5	—	—	—	19.5	410	<b>12432</b>
35	1.6	—	—	—	19.5	430	<b>12435</b>
38	1.6	—	—	—	19.5	450	<b>12438</b>
40	1.5	—	—	—	19.5	470	<b>12440</b>
42	1.5	—	—	—	19.5	470	<b>12442</b>

inch	Wall thickness mm (soft)				mm	A	No.
	Cu	Al	Fe	Inox		g	
5/16"	1.0	1.0	1.0	1.0	6.0	120	<b>12408</b>
3/8"	1.0	1.0	1.0	1.0	7.4	120	<b>12452</b>
1/2"	1.2	1.2	1.2	1.0	11.0	120	<b>12453</b>
5/8"	1.2	1.2	1.2	1.0	14.0	120	<b>12454</b>
3/4"	1.2	1.2	1.2	1.0	18.1	120	<b>12455</b>
7/8"	1.2	1.2	1.2	1.0	18.0	140	<b>12456</b>
1"	1.5	1.5	1.5	—	15.8	150	<b>12457</b>
1.1/8"	1.6	1.6	1.6	—	17.0	390	<b>12458</b>
1.1/4"	1.6	—	—	—	17.0	410	<b>12459</b>
1.3/8"	1.6	—	—	—	17.0	430	<b>12435</b>
1.1/2"	1.6	—	—	—	17.0	450	<b>12438</b>
1.5/8"	1.6	—	—	—	17.5	470	<b>12462</b>
1.3/4"	1.6	—	—	—	17.5	500	<b>12463</b>

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

**Suitable for ROTHENBERGER ROLOCK EXPANDER Power Torque**

Model		Model	
ROLOCK EXPANDER Power Torque	<b>82</b>	COMBI KIT Expander / Tee-Extractor	<b>94</b>

# Expanding, Extracting, Flaring

## Expanding manual

### EXPANDER A0

For expanding, reducing and calibrating thick walled pipes Ø 22 - 67 mm (1 - 2.1/2") 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:** Ø 22 - 67 mm, 1 - 2.1/2"  
max. wall thickness 2.5 mm  
**Precision steel (soft):** Ø 22 - 54 mm, 1 - 2.1/8"  
max. wall thickness 1.5 mm  
**and Stainless steel per**  
**DVGW-GW541**

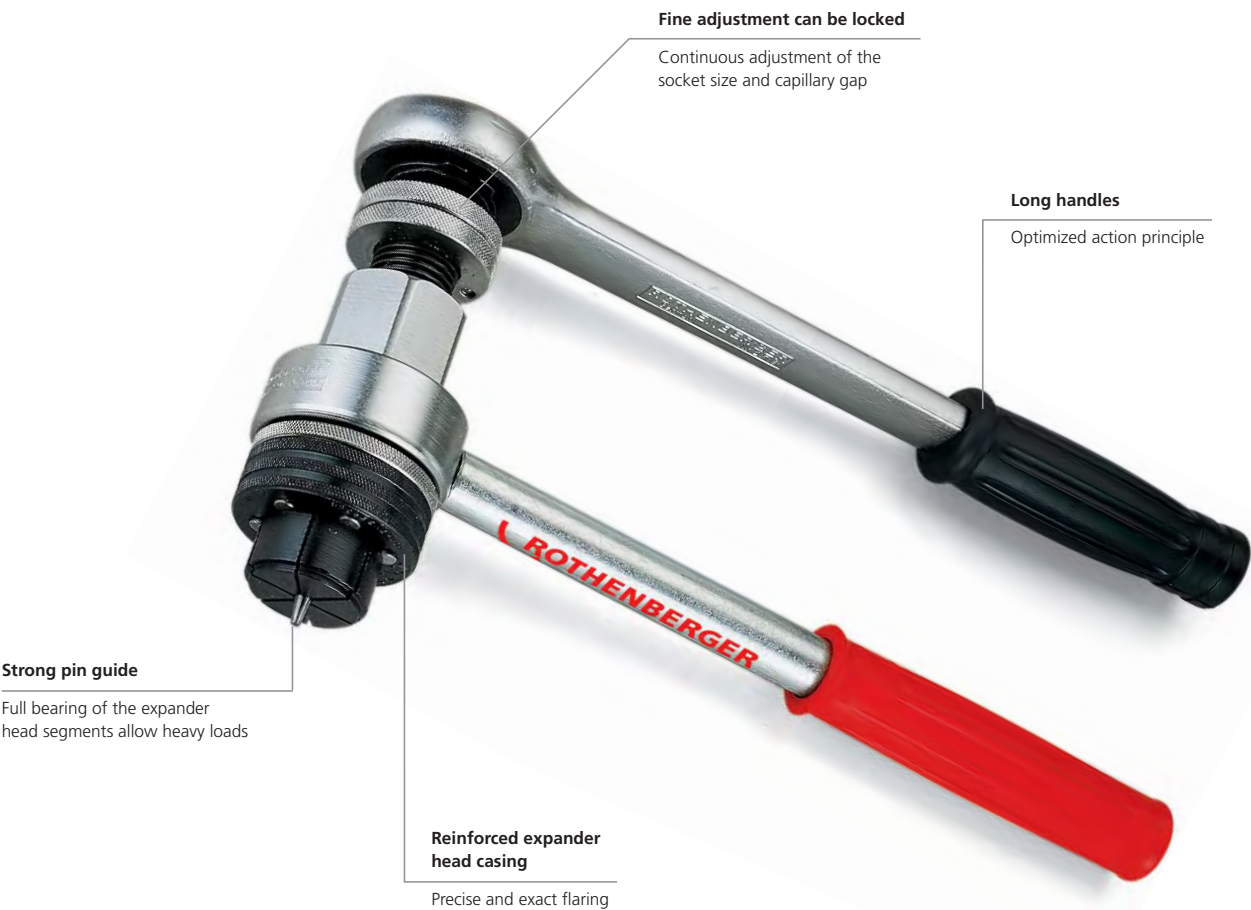
#### Functional Elements:

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

# Expanding, Extracting, Flaring

## Expanding manual

### Expander Head Type S

For the precise expansion of normal and thick walled pipes Ø 22 - 67 mm (1 - 2.1/2") and 2.5 mm wall thickness



Accurate guidance of the segments through the reinforced expander head casing

mm	max. Wall thickness mm				A - size 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>
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>
42	2,0	2,0	1,5	1,5	19,5	450	<b>11342</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 mm				A - size mm	g	No.
	Cu	Al	Fe	Inox			
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>
1.5/8"	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

### Expander-Adapter Type S

To increase the application area of the ROCAM® / ROLOCK EXPANDER Power Torque, ROMAX® EXPANDER Compact Standard 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® / ROLOCK EXPANDER Power Torque, ROMAX® EXPANDER Compact Standard and Expander Pistol H1



#### Product Profile

##### KEY FEATURES

For producing exact hose connections, for example vibrating power units in

- Air-conditioning technology
- Auto manufacturing
- Industrial applications

mm	mm	outer dia. - Flange mm	Distance Flange 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



# Expanding, Extracting, Flaring

## Expanding electric

### 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

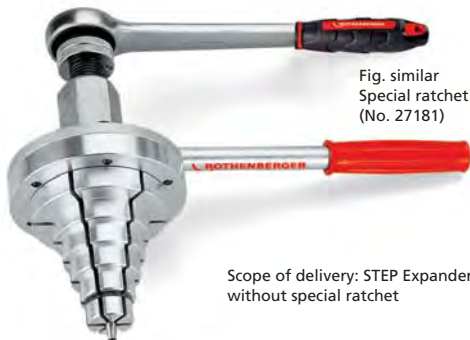


Fig. similar  
Special ratchet  
(No. 27181)

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 expanding and calibrating 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 (1.3/8" - 4.1/8")  
**Aluminium:** max. wall thickness 2.5 mm

##### KEY FEATURES

- Optimally suited for batch production and large building sites
- Constant thrust with CFT®
- 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

#### 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)

Article available upon request\*!



**CFT®**  
(Constant Force Technology)

For a constant axial thrust

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

# Expanding, Extracting, Flaring

## 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 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®

##### 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 Mains adaptor 230 V / 50-60 Hz 110 V on request
<b>Working temperature:</b>	-10° up to +60° C

**Aluminium and precision steel (soft)  
up to max. 1 mm wall thickness!**



**CFT® (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\*

##### Toolless 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

# Expanding, Extracting, Flaring

## Expanding electric

### ROMAX® EXPANDER Compact Basic Sets

5-part Basic Set I includes: ROMAX® EXPANDER Compact (No. 015714P), 1 Li-Ion- battery 14,4 V / 2,6 Ah (No. 15418), quick charger (No. 15017), Graphit grease (No. 26498), plastic carrying case (No. 015016L) without expander heads



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

DUAL-POWER 14.4 or 230 Volt!

4

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  89				

### ACCESSORIES



Description	No.	Description		No.
ROMAX® EXPANDER Compact replacement battery	<b>15418</b>	Internal / External deburrer	<b>27</b>	
ROMAX® EXPANDER Compact charger 230 V	<b>15017</b>	Brazing (SUPER FIRE 3 mit MAPP®-GAS)	<b>138 - 139</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>



# Expanding, Extracting, Flaring

## 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

#### On-off switch with control light

Allows set-up and auto-mode

Continuous, accurate and adjustable operating power with set-up and auto-mode

Allows proper, efficient handling of material

#### Individual modular design

Connections for safety foot pedal, control wires for the expander pistol H 1 and/or H 2, quick coupling for hydraulic hose

Powerful 400 V / 1200 W drive

Quick expansion of large, thick-walled pipes

#### Fine adjustment of the tube socket size

Industrial quality expansions

Suitable for all types of expander heads

Multi-functional

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	13100
Hydraulic Tool H 600	33.1	13002
Foot pedal H 600 with 3 m cable	0.5	12013

# Expanding, Extracting, Flaring

## Expanding hydraulic

### 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, 1 - 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	12001
S-Head adaptor for H 1	0.6	11007
Adjusting tool for H 1	0.9	12017



### 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, 1 - 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	12002
Expander heads H2/Type 2, 28 - 70 mm	2.5	12078
Expander heads H2/Type 3, 70 - 110 mm	3.0	12080
S-head adaptor for H 2	1.1	12097
Adjusting tool for H2	0.9	12018

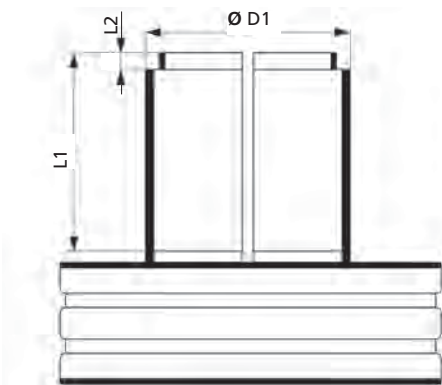


### Custom-Made Products\* Riveted Expander Heads H2

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!



# Expanding, Extracting, Flaring

## 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



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



No. 12097 Expander adaptor for Expander Pistol H2

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	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 ROLOCK	Expander Head Standard	Expander Head Type S	Riveted Expander Head	Expander Head PE-X	Expander Head H2, Type 2 & 3	Stepped Expander Head
ROLOCK EXPANDER Power Torque							
ROCAM® EXPANDER Power Torque					 No. 12005		
EXPANDER A0							
EXPANDER A1							
ROMAX® EXPANDER Compact		 No. 15714	 No. 15714 No. 15715	 No. 15714	 No. 15716		
ROMAX® EXPANDER AC ECO MAXI							
Expander Pistol H1							
Expander Pistol H2							

Expander head without adaptor can be used

Expander head can not be used

Fig.: Can be used with the appropriate adaptor (pictured)



# Expanding, Extracting, Flaring

## Expanding & Extracting Manual

### COMBI KIT Expander / Tee-Extractor

Practical, compact and cost-saving set combinations with with ROCAM and ROLOCK 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



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)

COMBI KIT Set includes: ROLOCK EXPANDER Power Torque (No. 12400), ROLOCK 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

Model	Description	kg		No.
ROLOCK COMBI KIT	12 - 15 - 18 - 22 mm	4.4	1	12601
ROLOCK COMBI KIT	12 - 14 - 16 - 18 mm	2.6	1	12602
ROLOCK COMBI KIT	1/2 - 5/8 - 7/8 - 1.1/8"	2.8	1	12604
ROLOCK COMBI KIT	1/2 - 3/4 - 1	2.5	1	12605

# Expanding, Extracting, Flaring

## 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 Pincher

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

No. 22081

Optimum capillary gap

Professional extractions

Limits the  
insertion depth

Optimal positioning

No pipe removal

Extractions even on  
installed pipes possible

UNIDRILL® Automatic 28 / 42

Accurate drilling

No. 21583 /  
No. 21575

Tee-Extractor sets include: Tee-Extractor according to chart, special ratchet (No. 22081), cam pincher (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 12 - 15 - 18 - 22 - 28 mm		3.9	1	<b>22103</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>

# Expanding, Extracting, Flaring

## Extracting Manual

### 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

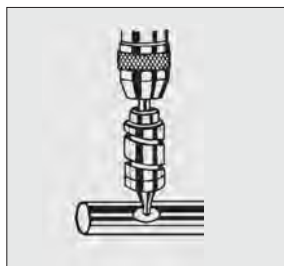
- Uniform and proper material extraction without scratches or burrs
- Burr-free operation with the specially polished extractor hooks
- Easy insertion into the drilled hole with the special trapezoidal screw thread
- Accurate and firm positioning for exact 90° branches

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>

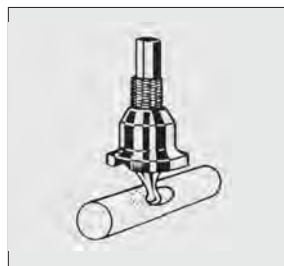
Hexagon Square

mm	g	No.	inch	g	No.
10	60	<b>22210</b>	3/8"	60	<b>22260</b>
12	70	<b>22212</b>	1/2"	70	<b>22261</b>
14	90	<b>22214</b>	5/8"	140	<b>22216</b>
15	90	<b>22215</b>	3/4"	140	<b>22263</b>
16	140	<b>22216</b>	7/8"	200	<b>22264</b>
18	140	<b>22218</b>	1"	210	<b>22265</b>
22	210	<b>22222</b>	1.1/8"	220	<b>22266</b>
28	220	<b>22228</b>	1.1/4"	270	<b>22267</b>
35	290	<b>22235</b>	1.3/8"	290	<b>22235</b>
38	290	<b>22268</b>	1.1/2"	290	<b>22268</b>
42	320	<b>22242</b>	1.5/8"	320	<b>22270</b>
54	560	<b>22254</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 (No. F80053 and F80054) with No. 22050 / 22054 included in scope of delivery (square, 3/4")

mm / inch	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

**F80053**

Square connection 3/4"

**F80054**

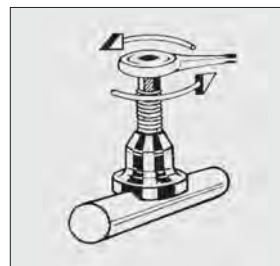
### Spare Extractor Hooks

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

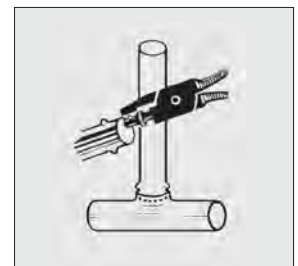


Note: For copper pipes (soft), the use of an extractor support is recommended! ( 93)

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



# Expanding, Extracting, Flaring

## Accessories Extracting

### Tee-Extractor Ratchet

Chrome vanadium steel, fine toothed and right/left reversible



Model	SW	g	No.
10 - 42 mm, 3/8 - 1.3/4"	11 mm	435	<b>22081</b>
54 - 70 mm, 2 - 2.1/8"	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	inch	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



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



Mainpipe	Branchpipe	g	No.
22 mm	18 mm	250	<b>22157</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>

# Expanding, Extracting, Flaring

## Flaring

### 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 pipes 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:

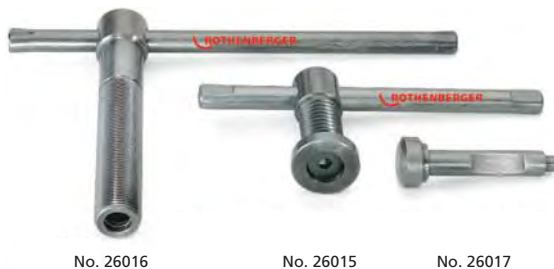
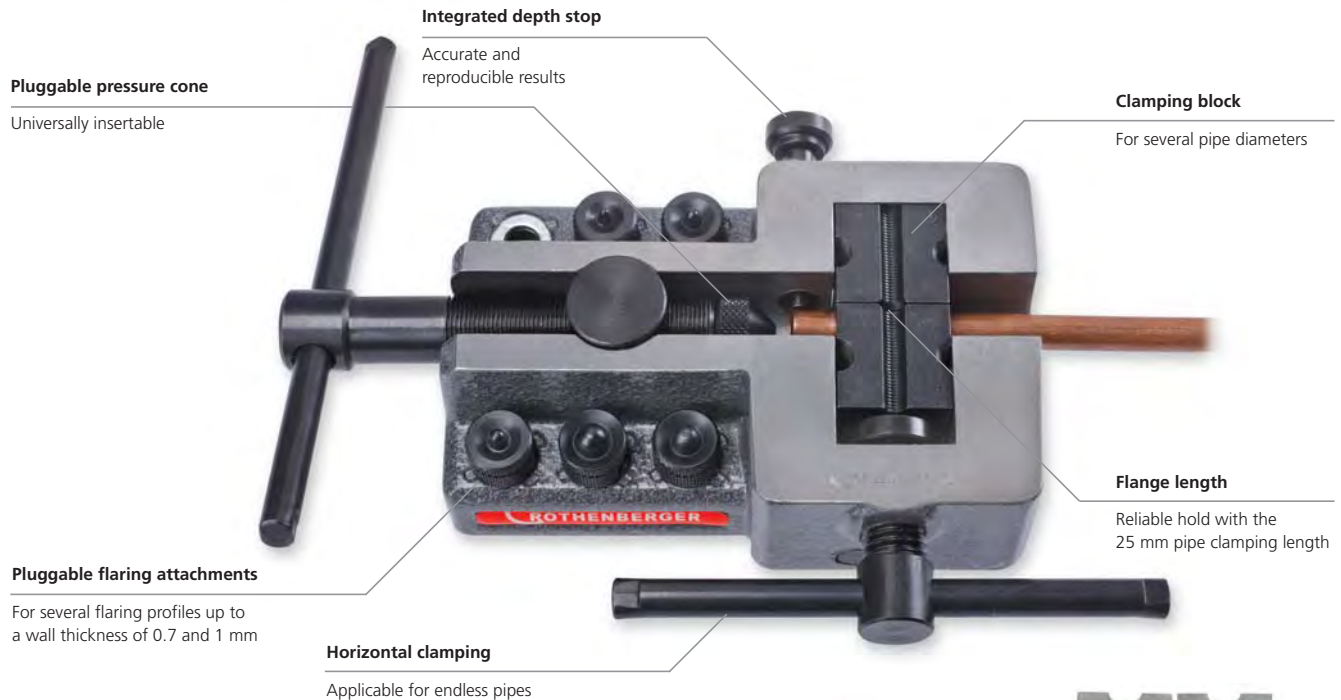
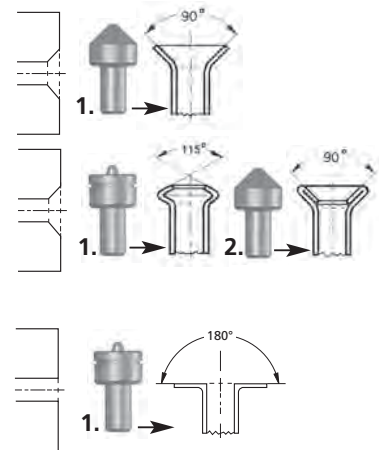
- Standard flaring contour

#### 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)

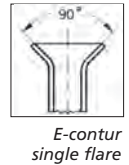
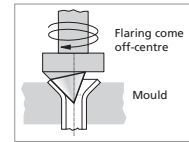
Description	mm	kg	No.
DB 10 set	4.75 - 5 - 6 - 8 - 9 - 10 mm	2.64	<b>26013</b>
Flaring attachments 4.75 / 5 mm		0.20	<b>26001</b>
Flaring attachments 6 mm		0.20	<b>26002</b>
Flaring attachments 8 mm		0.20	<b>26003</b>
Flaring attachments 9 mm		0.20	<b>26004</b>
Flaring attachments 10 mm		0.20	<b>26005</b>

Description	mm	g	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>

### ROFLARE REVOLVER

#### Revolver reeling flaring tool

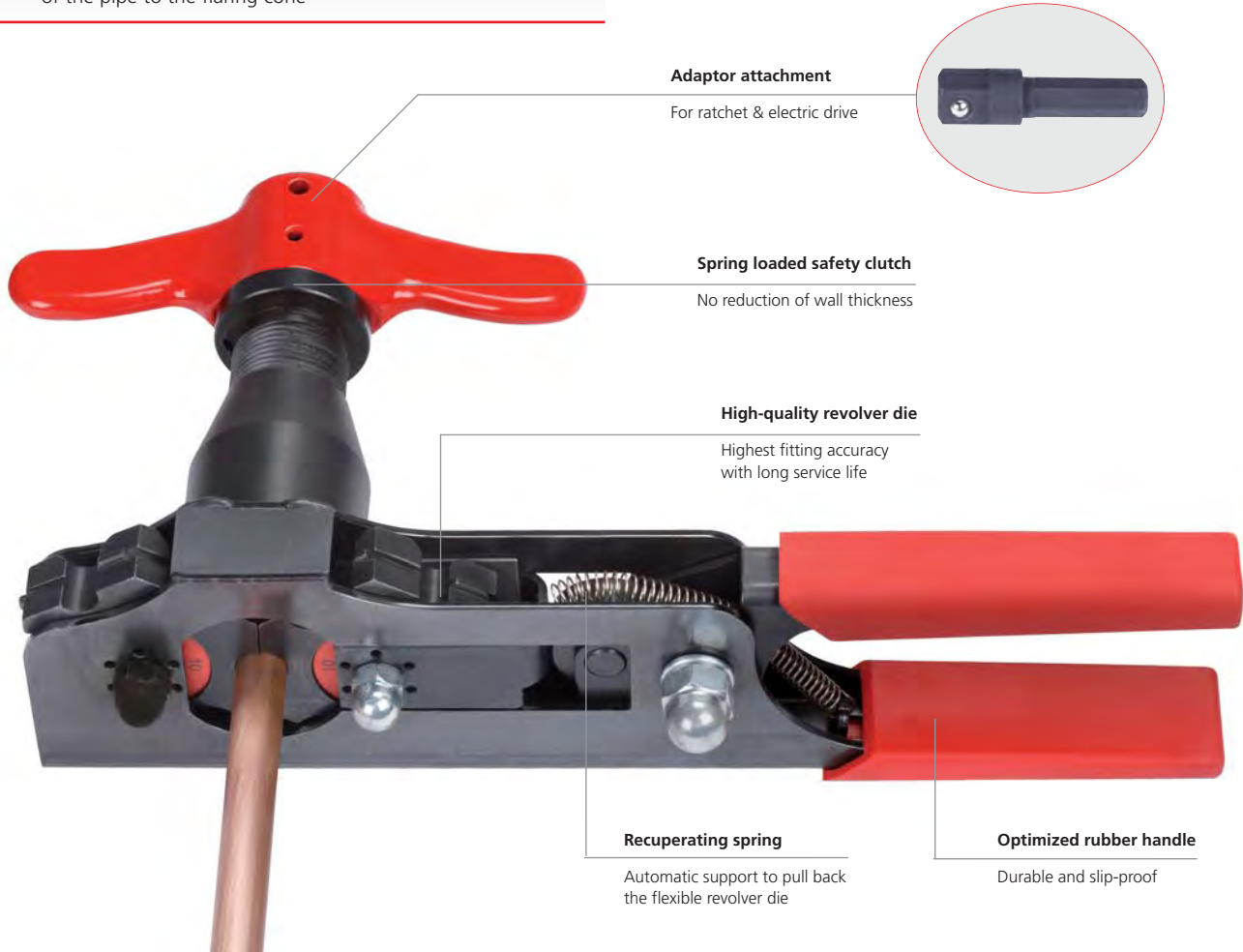
For the reliable and fast production of standard single 45° flares in accordance with EN 14276-2 and JIS B8607:2008 on copper soft pipes Ø 6 - 18 mm and 1/4 - 3/4"



#### Product Profile

##### KEY FEATURES

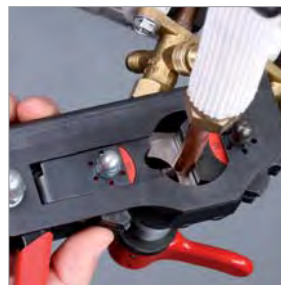
- Guaranteed norm flares
- Produces leak free joints
- One-handed quick clamping system
- **Automatic depth stop:** perfect positioning of the pipe to the flaring cone



Set (1000000230) includes: ROFLARE REVOLVER metric incl. ratchet adaptor, dies Ø 6, 8, 10, 12, 16 and 18 mm, pipe cutter ROTRAC 28 PLUS CHROM Limited Edition (1000000046), in blister pack  
Set (1000000231) includes: ROFLARE REVOLVER imperial incl. ratchet adaptor, dies Ø 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4", pipe cutter ROTRAC 28 PLUS CHROM Limited Edition (1000000046), in blister pack

Model	No.
Set, metric with ROTRAC 28 PLUS CHROM Limited Edition	1000000230
Set, imperial with ROTRAC 28 PLUS CHROM Limited Edition	1000000231
Metric, Ø 6, 8, 10, 12, 16, 18 mm	1000000222
Imperial, Ø 1/4, 5/16, 3/8, 1/2, 5/8, 3/4"	1000000223

Compact design enables use in confined spaces



Automatic depth stop: Perfect positioning of the pipe to the flare cone





# Expanding, Extracting, Flaring

## Flaring

### Reeling Flaring Tool

For producing precision 45° single 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
- No reduction in wall thickness
- No slipping of the pipe
- Sturdy and long lasting

4



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>

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

Controlled expanding and shaping of the pipe end without tearing



No. 222401, No. 222402, No. 222403

#### Square connection

For manual operation, for example cordless screwdriver

#### Spring-loaded slide coupling

No reduction in wall thickness

#### Made from forged steel

Tough and long-lasting

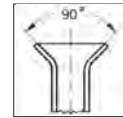
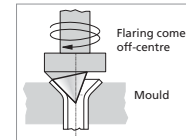
#### Self-centring die

Highest flare precision

#### Adaptor for cordless screwdriver

Die available in metric and imperial sizes

Pipe will not slip



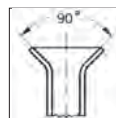
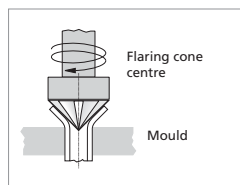
E-contur single flare



### 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	g	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>



# Expanding, Extracting, Flaring

## Flaring

### ROTORQUE AIRCON / REFRIGERATION

#### Step-less torque wrench

##### Product Profile

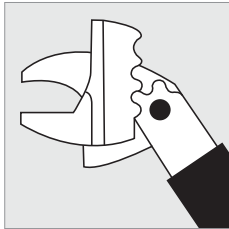
##### APPLICATION AREA

Self-locking rack and pinion drive enables quick and reliable fastening of flare nuts sizes 15 - 32 mm in accordance with EN 378-2:2012-08

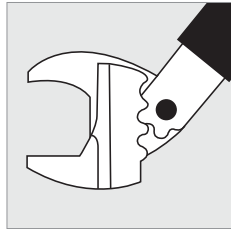
##### KEY FEATURES

- Always fits, covers all flare nut sizes from 15 - 32 mm
- Won't slip thanks to the self-locking rack and pinion drive and ratchet function
- Simple and reliable: required torque in accordance with EN 378-2:2012-08 is embossed on the head for every size and can not be rubbed off
- Embossed torque data: easy tightening according to norm
- ROTORQUE REFRIGERATION is suitable for cylinder heads' work

Closed head



Fully opened head



ROTORQUE sets include: Torque wrench, head, carrying bag

Model	kg	No.
ROTORQUE AIRCON	1.5	1000000224
ROTORQUE REFRIGERATION	1.4	1000000225

Connection 9 x 12

Head can be exchanged between ROTORQUE AIRCON and ROTORQUE REFRIGERATION

All-In-One: One head fits all sizes!



The torque can be read off

Always tighten according to the standard

##### ROTORQUE AIRCON Torque wrench

- 10 - 110 Nm
- ± 4% accuracy
- 1 Nm adjustment steps

##### ROTORQUE REFRIGERATION Torque wrench

- 10 - 70 Nm
- ± 3% accuracy
- 1/2 Nm adjustment steps
- Suitable for cylinder heads' work



Fig. ROTORQUE AIRCON torque wrench



Fig. ROTORQUE REFRIGERATION torque wrench

### 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 5/8" pipe lines according to DIN EN 378-2 : 2012-08



Fix with torque urgently necessary!

8 piece set (No. 175001) 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	kg	No.
Torque wrench set, 8 piece	3.5	175001



**ONE**  
of  
**6.000**

**Premium tools for  
professionals!**

5





# Pressing

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# Pressing Technology

## System Overview

### Press Machines Standard

### Press Machines Compact

ROMAX® 3000

ROMAX® 3000 AC

ROMAX® AC ECO

ROMAX® Compact



Operation mode:	electrohydraulic	electrohydraulic	electrohydraulic	electrohydraulic
Jaw fixture rotatable:	270°	270°	270°	270°
CFT® (Constant Force Technology):	✓	✓	✓	✓
Controlled Press Cycle:	✓	✓	✓	✓
Piston force / Hub:	32 kN / 40 mm	32 kN / 40 mm	32 kN / 40 mm	19 kN / 30 mm
Service interval:	20.000 Pressings	20.000 Pressings	10.000 Pressings	10.000 Pressings
LED:	✓	✓	–	–
Approx. pressing cycle time:	5 sec.	5 sec.	7 sec.	6 sec.
Dimensions:	445 x 125 x 75 mm	460 x 120 x 90 mm	415 x 180 x 80 mm	400 x 70 x 90 mm
Cable length:	–	5 m	5 m	–
Cable length main adaptor:	5 m	–	–	5 m
Weight:	3,6 kg	3,8 kg	4,5 kg	2,6 kg
Battery:	✓	–	–	✓

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### ROTHENBERGER Constant Force Technology

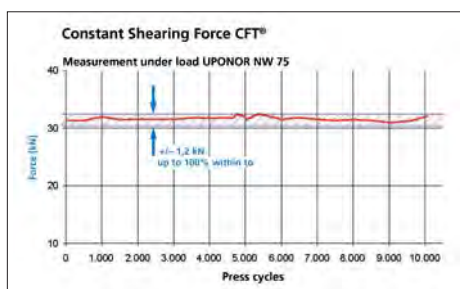
The CFT® guarantees a constant axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections CFT® guarantees:

**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**

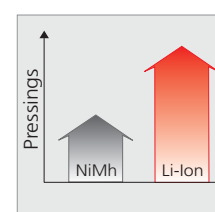
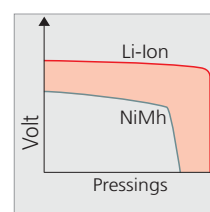
**ROMAX® 3000 AC 32-34 kN for 20.000 Press cycles**








### 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



	Press Jaws Standard			Press Jaws Compact	
	Press Jaws Standard	3-elemental Press Jaws	Press Collars	Press Jaws Compact	Interchangeable Press Jaws Compact
					
Working range Metal:	Ø 12 - 54 mm	Ø 42 - 54 mm	Ø 42 - 54 mm	Ø 12 - 28 mm	–
Working range Multilayer:	Ø 12 - 40 mm	–	Ø 40 - 110 mm	Ø 12 - 40 mm	Ø 12 - 32 mm
Snap on:	–	–	✓	–	–
Special hardening process:	✓	✓	✓	✓	✓
Long-term corrosion protection:	✓	✓	✓	✓	✓
3 bolt synchronized mechanism:	✓	✓	–	✓	✓
Precision-manufactured contour:	✓	✓	✓	✓	✓
Page	113	113	114	112	112

### 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 craftsman is obliged to use only the press tools or press jaws from one (fittings / pipe) system manufacturer



### Controlled press cycle

After reaching a predetermined pressing force the press cycle switches off automatically. The piston retracts after the necessary pressing force 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





# Pressing Technology

## 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 104 - 105!

#### 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®
- Safety lock
- Emergency stop switch

##### TECHNICAL DATA

<b>Dimension:</b>	400 x 70 x 90 mm
<b>Weight:</b>	approx. 2.6 kg (without press jaw)
<b>Piston force / hub:</b>	19 kN / 30 mm
<b>Nominal size:</b>	Ø 12 - 28 mm (metal) Ø 12 - 40 mm (plastic/multi-layer)
<b>Press jaw fixture:</b>	270° rotation
<b>Power supply:</b>	Li-ion battery 14.4 V / 2.6 Ah Main adaptor 230 V / 50 - 60 Hz Main adaptor 110 V on request
<b>Operating temperature:</b>	-10° C up to +60° 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 105
<b>Interchangeable press jaws:</b>	ROTHENBERGER Interchangeable press jaws starting on page 105



#### 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 (displays when service interval has been reached, further pressings are possible)

#### Powerful motor

Fast pressings in approx. 6 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® (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**



Fig. Power supply (No. 15037)

5 m cable length

Large operating radius



Fig. ROMAX® Compact Set SV

Workbench function with stable supporting surface



Slim – compact wand-like design



Work above head



Model	Description	Press jaw mm			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 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 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>015016L</b>
Press jaws, interchangeable press jaws starting on	<b>112</b>



# Pressing Technology

## Press Machines Standard

### 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

**Made in Germany**

Please observe system characteristics/ benefits on pages 104 - 105!

#### 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 lasts approx. 5 seconds. The piston retracts automatically after every finished pressing
- **Safe**  
CFT® guarantees the necessary pressing force. The automatic controlled press cycles ensure 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**  
Highest quality service interval of 20,000 pressing cycles 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 Ø 28 mm stainless steel), and/or 90 pressings (with Ø 54 mm stainless steel) with each charge
- **Practical design**  
The compact, wand-like design allows pressings even in confined spaces



#### 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 (notifies maintenance interval), further pressings possible

#### Safety lock

No unintentional opening because 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® (Constant Force Technology)**  
for constant axial pressing force of 32 kN

Constant pressing force over 20,000 press cycles





# Pressing Technology

## Press Machines Standard

5

### 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 Main adaptor 230 V, 50 - 60 Hz, 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 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 113
<b>Pressing collars:</b>	ROTHENBERGER pressing collars starting on page 114

#### High energy density

More pressing per charge, light weight <sup>1)</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

#### Light



#### Fast



#### Reliable



#### Slim



Fig. ROMAX® 3000 set with press jaws

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 Ø mm	1	2	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 Basic II	in plastic carrying case, with 2 x Li-Ion batteries and charger	(without press jaws)	1	10,4	<b>1000000209</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>1500000463</b>
Press jaws, pressing collars starting on  113	

<sup>1)</sup> Compared to the ROTHENBERGER NiMH battery



# Pressing Technology

## Press Machines Standard

### ROMAX® 3000 AC

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 104 - 10!

#### Product Profile

##### APPLICATION AREA

- The ROMAX® 3000 AC is fast, light, easy to handle and safe. It is therefore ideally suited for the batch production of fitting joints in field operation
- Batch production possible due to mains operation (5 m cable length)
  - A pressing cycle only lasts approx. 5 seconds
  - CFT® guarantees the necessary pressing force
  - Extremely low weight, as well the balanced weight distribution
  - Highest quality, service interval of 20,000 pressing cycles
  - Expanded operating temperature from - 15° C up to 60° C
  - The compact, wand-like design allows pressings even in confined spaces

##### TECHNICAL DATA

- Dimensions:** 460 x 90 x 120 mm  
**Weight:** ca. 3,8 kg (without press jaw)  
**Piston force/-hub:** 32 kN / 40 mm  
**Nominal size:** Ø 12 - 110 mm (system dependent)  
**Press jaw fixture:** 270° rotation  
**Power supply:** 230 V / 50-60 Hz, 110 V on request  
**Operation temperatur:** - 15° C up to 60° C

##### PRESSING TOOLS

- Press jaws:** ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 113  
**Pressing collars:** ROTHENBERGER pressing collars starting on page 114

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#### Safety lock

No unintentional opening because a 180° rotation is necessary

#### Balanced weight distribution

Ergonomic use



#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Batch production possible



#### Slim



Set Basic (1000001001) includes: ROMAX® 3000 AC (230 Volt), plastic carrying case, without press jaws

Model No.

ROMAX® 3000 AC Set Basic 1000001001

#### ACCESSORIES



Model No.

Plastic carrying case, empty 1500000463

Press jaws, pressing collars starting on 113

# Pressing Technology

## 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

Please observe system characteristics/benefits on pages 98 - 99!

#### 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®
- Safety lock
- Emergency stop switch
- 5 m cable

\*system dependant

##### TECHNICAL DATA

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

##### PRESSING TOOLS

<b>Press jaws:</b>	ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 106
<b>Pressing collars:</b>	ROTHENBERGER Pressing collars starting on page 106

#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Compatible jaw fixture

Suitable for many press jaws

#### Emergency stop switch

Immediate interruption of the feed

#### Safety lock

No unintentional opening because a 270° rotation is necessary

#### 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® (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

Made in Germany



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	113





# Press Technology

## Press Jaws & Interchangeable Press Jaws

### Press Jaws Compact

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)

Made in Germany

5

**Special hardening process**

High degree of elastic force and expansion capability

**3-bolt synchronised mechanism**

- Highest precision when 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



**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

Press jaw overview starting on 115

### Interchangeable Press Jaws Compact

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

Made in Germany

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	14849	Interchangeable press jaws + set CO	12 - 16 - 20 mm	15093
Interchangeable inserts set U*	16 - 20 - 25 - 32 mm	14869	Interchangeable press jaws + set RFz	12 - 16 - 20 mm	15094
Interchangeable inserts set VP*	16 - 20 - 25 - 32 mm	14879			

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

### Press Jaws Standard

For ROMAX® 3000, ROMAX® 3000 AC and ROMAX® AC ECO

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for system conforming pressing of fittings up to Ø 40 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 when 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 115

#### 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

**Made in Germany**

### 3-elemental Standard Press Jaw M42 / M54

For ROMAX® 3000, ROMAX® 3000 AC and ROMAX® AC ECO

ROTHENBERGER 3-elemental Press Jaws with proven material and manufacturing quality, for system depended pressing of Copper-, steel- and C-steel fittings M42 and M54

#### Long-term corrosion protection

Optimum for heavy-duty field operation

#### 3-bolt synchronised mechanism

Synchronised run of the jaw lever

#### Special hardening process of the inlet- and jaw contour

High degree of elastic force, expansion capability and long lifetime

#### 3-elemental system

Easy handling / assembling  
Optimized power distribution

#### Precision-manufactured contours

For optimum and reliable pressings

Wide jaw mouth for easy assembling of the jaw on the fitting



Model	kg	No.	Model	kg	No.
3-elemental standard press jaw, M42	4,8	<b>1000001273</b>	3-elemental standard press jaw, M54	4,8	<b>1000001274</b>

# Press Technology

## Pressing Collars Standard

### Pressing Collars Standard

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)

#### Limited weight

Power-saving work even for longer periods

#### Two flexible elements

For an optimal material flow on the fitting

#### 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

Opening of the pressing collar up to 180° allows assembling even in confined spaces



Closing the pressing collar



Gripping the pressing collar with intermediate jaws



Made in Germany

#### Precision-manufactured contours

For optimum and reliable pressings

#### Clamping technology

Self-clamping pressing collar

#### 3 Segments

For an optimum force distribution on the fitting

#### Special hardening process

High degree of elastic force and expansion capability

#### 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. Pressing collar SV54

Fig. Intermediate jaw ZBS1

Pressing collar sets include: Pressing collars according to the table, intermediate jaws ZBS1 (No.1000001126), plastic carrying case (No. 1500000782)

Model	Description	No.
Pressing collars Set SV in plastic carrying case	Press jaw ZBS1 / SV42 - 54	1000001501
Pressing collars Set M in plastic carrying case	Press jaw ZBS1 / M42 - 54	1000001500
Pressing collars Set TH in plastic carrying case*	Press jaw ZBS1 / TH40 - 50	1000000116
Press collars overview starting on 115		

\* on request!



### Press Jaws Standard Sets

ROTHENBERGER Press Jaws up to  
Ø 54 mm, in sturdy plastic  
carrying case

#### 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



**Made in Germany**

**Professional  
set combinations!**

#### 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. 1500000782)

Model Ø mm		kg	No.
M 15 - 18 - 22 - 28 mm	1	9,3	<b>015062X</b>
M 42 - 54 mm (3-elemental Press jaw)	1	11,0	<b>1000001502</b>
SV 15 - 18 - 22 - 28 mm	1	9,3	<b>015060X</b>
SV 42 - 54 mm	1	9,5	<b>015080X</b>

Model Ø mm		kg	No.
G 16 - 20 - 26 - 32 mm	1	11,4	<b>015068X</b>
TH 16 - 20 - 26 mm	1	7,9	<b>015063X</b>
VP 16 - 20 - 25 - 32 mm	1	9,4	<b>015072X</b>
Plastic carrying case, empty	1		<b>1500000782</b>

System	Nominal size	Press Jaws Compact	Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X	Press Jaws Standard	Pressing Collars Standard Only to be used with intermediate jaw: ZBS1 No. 1000001126 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZBS2 No. 1000000123 for (U Ø 75, 90, 110 mm)
<b>A</b>	<b>Metal / NE-Metal</b>				
	A1/2"	<b>1000001503</b>	—	<b>015222X</b>	
	A3/4"	<b>1000001504</b>	—	<b>015223X</b>	
	A1"	<b>1000001505</b>	—	<b>015224X</b>	
	A11/4"	—	—	<b>015225X</b>	
	A11/2"	—	—	<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>1000001273</b>	<b>1000001391</b>
	M54	—	—	<b>1000001274</b>	<b>1000001392</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>1000001393</b>
	V/SV54	—	—	<b>015218X</b>	<b>1000001394</b>
<b>R(H)</b>	<b>PEX / Multi-layer</b>				
	R12	—	<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>	

For more informations visit [www.rothenberger.com](http://www.rothenberger.com)

System	Nominal size	 Press Jaws Compact	 Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X	 Press Jaws Standard	 Pressing Collars Standard Only to be used with intermediate jaw: ZB51 No. 1000001126 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZB52 No. 1000000123 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>THG</b>	THG32	1000000236	—	1000000235	
<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>BE</b>	BE16	015291X	—	015392X	
	BE20	015292X	—	015394X	
	BE26	015293X	—	015396X	
	BE32	015294X	—	015397X	
<b>CO</b>	CO12	—	14852	—	
	CO16	—	14853	—	
	CO20	—	14854	—	
	CO25	—	14855	—	
<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	

For further informations visit [www.rothenberger.com](http://www.rothenberger.com), <sup>1)</sup> Only on request.











For further informations visit [www.rothenberger.com](http://www.rothenberger.com)

The press contour of each particular system allows reliable pressing to approved standards.



# Press Technology

## Overview Press Jaws














																								
	Nominal size	Press jaws Compact No.	Press jaws Pressliner and ROMAX® 3000 No.	Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X		Eurotubi Pressfitting System	F.B.Q. BARONIO,BQ pres	Frabo Frabopress C Steel, 316	Frabo MULTI-BRASS	FRÄNKISCHE, ALPEX F50	Gabo, Gabopress H+ 5	GAROS	Geberit Mapress Gas	Geberit Mapress Stainless	Geberit Mapress Copper Carbon steel,	Geberit Mepla	Giacomini Giacomflex, Goaco Therm	HAKA, Fimisol, HAKA-PRES, HAKA, GERODUR	Harden 2000, Polypex 2000	Henco PVDF	Herz pipefix	HIDROTEC KLIMATEC	Hitec Sistema, Multi-strato	IBP >B-Press Rotguss, Inox
	M	M12	015151X	015101X									●	●	●									
		M15	015152X	015102X		●							●	●	●									
		M18	015153X	015103X		●							●	●	●									
		M22	015154X	015104X		●							●	●	●									
		M28	015155X	015105X		●							●	●	●									
		M35		015106X		●							●	●	●									
		M42		1000001273										●	●	●								
		M54		1000001274										●	●									
	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		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		1000000173	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				●	●	●	●							●	●	●		●	
		TH40	015401X	015328X							●										●			
THG	THG32	1000000236	1000000235													●								
THT	THT32	015393H	015329X															●						
	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																				
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.












# Press Technology

## Overview Press Jaws

																									
	Nominal size	Press jaws Compact No.	Press jaws Pressliner and ROMAX® 3000 No.	Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X	IBP>B<PRESS, >B<PRESS GAS	IPA, IPANA-PRES	IPALPEX	IVAR MP / PMP	Jaraflex-presssystem	Jupiter, Heizsysteme	KE KELIT KELOX	KOHLER, InoxPress	LAVAGRUND, LAVAPRESS	Mair Heiztechnik, Go-mafix	Mark KG, polymark	MEGARO HAKAPRESS	MULTITHERM PRESSY-STEM	Multitubo Giacomini	NEUTHERM, MEKU-PRESS	Nupi MultiNupi	Nussbaum Cupress, Op-tipress	Nussbaum CupressG	Nussbaum, Optiflex Plus	Oventrop, Cofit	
<b>M</b> 	M12	015151X	015101X																						
	M15	015152X	015102X									●													
	M18	015153X	015103X									●													
	M22	015154X	015104X									●													
	M28	015155X	015105X									●													
	M35		015106X									●													
	M42		1000001273																						
<b>V / SV</b> 	M54		1000001274																						
	V12	015261X	015211X		●																				
	SV14	015269X	015219X		●																				
	SV15	015262X	015212X		●																●	●			
	SV16	015260X	015220X		●																●	●			
	SV18	015263X	015213X		●																●	●			
	SV22	015264X	015214X		●																●	●			
<b>G</b> 	SV28	015265X	015215X		●																●	●			
	SV35		015216X		●																●	●			
	SV42		015217X		●																●	●			
	SV54		015218X		●																●	●			
	G16	015362X	015302X																						
	G20	015364X	015304X																						
	G26	015366X	015306X																						
<b>HA</b> 	G32	015367X	015307X																						
	G40	015368X	015308X																						
	HA16	015580X	015280X																					●	
	HA20	015581X	015281X																					●	
<b>R (H)</b> 	HA26	015582X	015282X																					●	
	HA32	015583X	015283X																					●	
	HA40		015284X																					●	
	R12		015339X	14863																					
<b>RFz</b> 	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				●	●					●		●				●					
<b>TH</b> 	R32	015377X	015337X	14709					●					●		●			●						
	RFz12		1000000173	14822																					
	RFz16	015180X	015161X	14823																					
	RFz20	015181X	015162X	14824																					
<b>THG</b> 	RFz25	015182X	015163X	14825																					
	RFz32	015183X	015164X	14826																					
	TH14	015395X	015321X	14842		●	●		●				●						●						
	TH16	015385X	015322X	14843		●	●	●	●				●		●			●	●						
	TH18	015398X	015323X	14844		●	●	●	●				●				●	●							
	TH20	015389X	015324X	14845		●	●	●	●				●		●			●	●						
	TH25	015399X	015325X	14846		●												●	●						
<b>THT</b> 	TH26	015391X	015326X	14847		●	●	●					●		●			●	●						
	TH32	015393X	015327X	14848		●			●				●		●										
	TH40	015401X	015328X			●	●		●				●												
	THG32	1000000236	1000000235																●						
<b>U</b> 	THT32	015393H	015329X				●																		
	U14	015351X	015311X	14832																					
	U16	015352X	015312X	14833				●		●	●										●				
	U18	015353X	015313X	14834				●													●				
	U20	015354X	015314X	14835				●		●	●										●				
	U25	015355X	015315X	14836						●	●										●				
	U32	015357X	015317X	14838						●	●										●				
<b>RC</b> 	U40	015358X	015318X							●						●			●						
	RC26	015277X	015271X	14837																●					
	VP14	015530X	015230X	14882																			●		
	VP16	015531X	015231X	14883																			●		
<b>VP</b> 	VP20	015532X	015232X	14884																			●		
	VP25	015533X	015233X	14885																			●		
	VP32	015534X	015234X	14886																			●		
																								●	

For further informations visit [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.

																									
	Nominal size	Press jaws Compact No.	Press jaws Pressliner und ROMAX® 3000 No.	Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X	PIPELIFE RADOPRESS	POLYSAN Press-System	Prandelli, MULTYRAMA	Raccorderie Metalliche Inoxpress, Steelpress	Raccorderie Metalliche , Aespres	Raccorderie Metalliche Inoxpress Gas	RIQUIERA A SERTIR	ROTH SISTEMA ROTHAPRESS	Roth-Roth Rohrinstallationsysteme	Sanha 3fit-PRESS SYSTEM 14 mm - 63 mm	SANHA NiroSan Serie 9000, 17000 Gas, 18000, 19000	SANHA Press Serie 10000, 11000 Gas, 12000, 13000	SANHA PURAPRESS Serie 8000	SANHA-NiroSan-Presssystem Chronimo	Simplex SiRoCon Cu / E	Simplex SiRoCon PPSU H	Simplex SiRoCon PPSU TH	SST-Rolltec Delphi-Press, SIS Systemtechnik	THERMOVAL, THERMOSMART	Tiemme, Cobrapress	
	M	M12	015151X	015101X																					
		M15	015152X	015102X																					
		M18	015153X	015103X																					
		M22	015154X	015104X																					
		M28	015155X	015105X																					
		M35		015106X																					
		M42		1000001273																					
	V / SV	M54		1000001274																					
		V12	015261X	015211X																					
		SV14	015269X	015219X																					
		SV15	015262X	015212X																					
		SV16	015260X	015220X																					
		SV18	015263X	015213X																					
		SV22	015264X	015214X																					
	G	SV28	015265X	015215X																					
		SV35		015216X																					
		SV42		015217X																					
		SV54		015218X																					
		G16	015362X	015302X																					
		G20	015364X	015304X																					
		G26	015366X	015306X																					
	HA	G32	015367X	015307X																					
		G40	015368X	015308X																					
		HA16	015580X	015280X																					
		HA20	015581X	015281X																					
		HA26	015582X	015282X																					
		HA32	015583X	015283X																					
		HA40		015284X																					
	R (H)	R12		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																				
	RFz	R26	015376X	015336X	14708																				
		R32	015377X	015337X	14709																				
		RFz12		1000000173	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																				
	THG	TH40	015401X	015328X																					
		THG32	1000000236	1000000235																					
		THT32	015393H	015329X																					
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		U	U14	015351X	015311X	14832																			
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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.



5

# ONE of 6.000

Premium tools for  
professionals!

6







# Threading

System Overview Threading	124 - 125
Threading manual	126 - 129
Threading electric	130 - 144
Accessories Threading	145
Roll Grooving	146 - 147



Do you want to  
know more about  
our products?  
Please scan the  
QR-Code!



### Threader manual

	<b>SUPER CUT Sets 1/2-1.1/4"</b>	<b>SUPER CUT Sets 3/8-1.1/4"</b>	<b>SUPER CUT Sets 3/8-2"</b>	<b>SANI KIT</b>
				
<b>Operation mode:</b>	handed / manual	handed / manual	handed / manual	handed / manual
<b>Working range:</b>	1/2-1.1/4"	3/8-1.1/4"	3/8-2"	1/4-1.1/4"
<b>Handle:</b>	1 piece	2 pieces	3 pieces	2 pieces
<b>Thread type:</b>	BSPT-NPT	BSPT-NPT	BSPT-NPT	BSPT-NPT
<b>Number of die heads:</b>	4 pcs.	up to 5 pcs.	up to 7 pcs.	3 pcs.
<b>Number of threading dies:</b>	–	–	–	–
<b>Power:</b>	–	–	–	–
<b>Weight:</b>	5,1 kg	6,2 kg	11,4 kg	8,2 kg
<b>Page</b>	<b>126, 127</b>	<b>126, 127</b>	<b>126, 127</b>	<b>128, 129</b>

### Threader electric

	<b>SUPERTRONIC® 1250</b>	<b>SUPERTRONIC® 2000</b>
		
<b>Operation mode:</b>	handed / electric	handed / electric
<b>Working range:</b>	1/4-1.1/4"	1/4-2"
<b>Thread type:</b>	BSPT-NPT	BSPT-NPT
<b>Number of die heads:</b>	4 pcs.	6 pcs.
<b>Number of thread dies:</b>	–	–
<b>Power:</b>	800 W	1.010 W
<b>Weight:</b>	12,8 kg	14,5 kg
<b>Page</b>	<b>130, 131</b>	<b>132, 133</b>

### Threader stationary

	<b>ROPOWER 50 R</b>	<b>SUPERTRONIC® 25E</b>
		
<b>Operation mode:</b>	stationary	stationary
<b>Working range:</b>	1/2-2"	1/2-2"
<b>Thread type:</b>	BSPT, NPT, BSPP, BSW, Metrical	BSPT, NPT, BSPP, BSW, Metrical
<b>Number of die heads:</b>	1 pcs.	1 pcs.
<b>Number of thread dies:</b>	2 pcs.	2 pcs.
<b>Power:</b>	1.150 W	1.150 W
<b>Weight:</b>	88,5 kg	68,5 kg
<b>Page</b>	<b>136, 137</b>	<b>138, 139</b>

### Threader stationary

	<b>SUPERTRONIC® 3 SE</b>	<b>SUPERTRONIC® 4SE</b>	<b>COLLINS CLASSIC 22</b>	<b>RHINO 4"</b>
				
<b>Operation mode:</b>	stationary	stationary	stationary	stationary
<b>Working range:</b>	1/2-3"	1/2-4"	1/2-2"	1/2-4"
<b>Thread type:</b>	BSPT, NPT, BSPP, BSW, Metrical	BSPT, NPT, BSPP, BSW, Metrical	BSPT, NPT, BSPP, Metrical	BSPT, NPT, BSPP, Metrical
<b>Number of die heads:</b>	2 pcs.	2 pcs.	1 pcs.	2 pcs.
<b>Number of thread dies:</b>	3 pcs.	3 pcs.	2 pcs.	3 pcs.
<b>Power:</b>	1.700 W	1.750 W	1.800 W	2.800 W
<b>Weight:</b>	100 kg	120 kg	133 kg	216 kg
<b>Page</b>	<b>138, 139</b>	<b>138, 139</b>	<b>142, 143</b>	<b>142, 143</b>

6

### Roll Grooving machines

	<b>ROGROOVER 1-6"</b>	<b>Hand Roll Groover 1-12"</b>	<b>ROGROOVER 1-12"</b>
			
<b>Operation mode:</b>	handed-electric / stationary	handed-manual / handed-electric	stationary
<b>Working range:</b>	1 - 6"	1 - 12"	1 - 12"
<b>Threading machine:</b>	SUPERTRONIC® 2000 / 2-4SE	SUPERTRONIC® 1250 / 2000	Motor
<b>Wall thickness:</b>	up to 10 mm	up to 10 mm	up to 10 mm
<b>Pressure rollers included:</b>	1 pcs.	1 pcs.	3 pcs.
<b>Power:</b>	1.010 W / max. 1.750 W	800 W / 1.010 W	1.500 W
<b>Transportation frame:</b>	- / -	-	optional
<b>Weght:</b>	14,5 kg / max. 134,5 kg	12,0 kg / max. 18,2 kg	175,0 kg
<b>Page</b>	<b>146</b>	<b>146</b>	<b>147</b>

### SUPER CUT

#### Ratchet threader Ø 1/4 - 2"

For production of precise and reliable thread connections according to DIN EN 10226



#### 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

#### 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

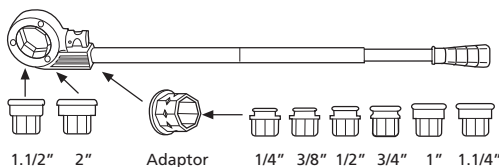
Made of high quality tempered steel  
Extremely long service life

*SUPER CUT when working at the building site*



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. 600011500)

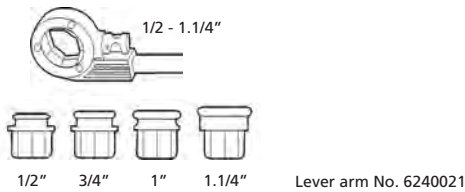
Monoblock - adaptor (No. 600011500)





### SUPER CUT – Sets Ø 3/8 - 1.1/4"

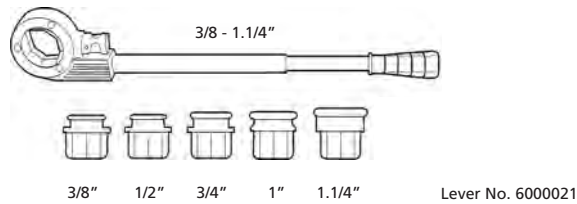
With ratchet handle (small octagonal drive, No. 070840X), die heads in plastic carrying case (No. 70780)



Model	Size	kg	No.
BSPT R	1/2" - 3/4" - 1" - 1.1/4"	5.1	070781X

### SUPER CUT – Sets Ø 3/8 - 1.1/4"

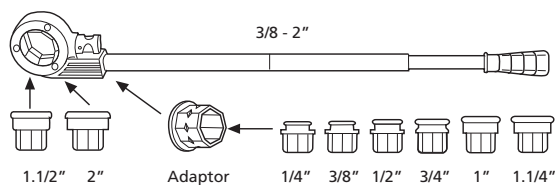
With ratchet handle (small octagonal drive, No. 070840X), and die heads in plastic carrying case



Model	Size	kg	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	070790X
BSPT R	1/2" - 3/4" - 1"	4.2	070780X

### SUPER CUT – Sets Ø 3/8 - 2"

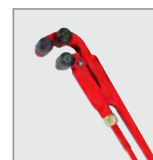
With ratchet handle (large octagonal drive, No. 71272), die head adaptor (No. 71273), die heads in plastic carrying case (No. 070928X)



Model	Size	kg	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	11.4	070891X
BSPT R	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	10.8	070892X

#### ACCESSORIES

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	135



# Threading

## 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	
Cutting:	up to Ø 1.1/4"
Thread cutting:	up to Ø 1"
Assembly, screwing, loosening, sealing of thread connections:	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

### 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

6



### 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



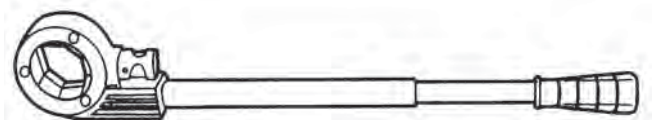
6

### 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



#### ACCESSORIES

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	135





# Threading

## 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	
<b>BSPT right:</b>	Ø 1/2 - 1.1/4"
<b>Optional:</b> (not included in set)	Ø 1/4", 3/8"
<b>NPT:</b>	Ø 1/4 - 1.1/4"
KEY FEATURES	
<ul style="list-style-type: none"><li>● Ideal for confined spaces (corners, shafts)</li><li>● Sturdy and light, even with heavy-duty use</li><li>● Compact gear housing with excellent overall size</li><li>● High power transmission, quiet running with long service life</li><li>● Tough, rugged and durable</li><li>● Weight reduction and easy handling</li></ul>	

KEY FEATURES	
<ul style="list-style-type: none"><li>● Die can be used in both directions (left, right)</li><li>● Stable speed by forward and reverse motion</li></ul>	
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
Weight:	4.9 kg
Dimensions:	456 x 168 x 76 mm

6



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. 995858100)

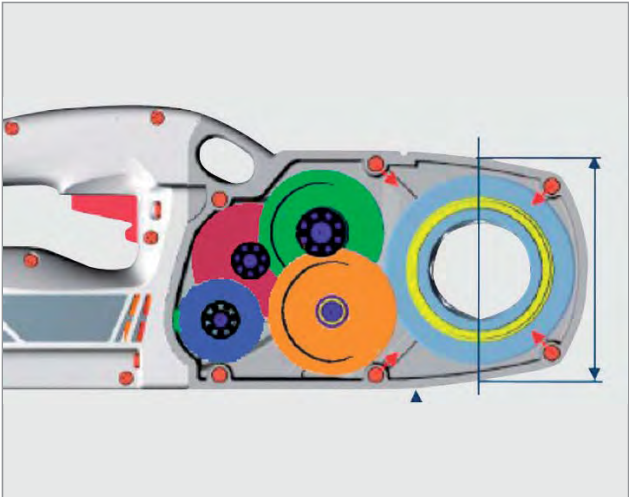
Small – Fast – Light (1/4 - 1. 1/4")!



Fig. SUPERTRONIC® 1250 Set (No. 71450)

Model	Description	kg		230 V	110 V
SUPERTRONIC® 1250 Set	BSPT 1/2" - 3/4" - 1" - 1.1/4"	14.5	1	71450	71451
SUPERTRONIC® 1250 Set	1/2 - 1.1/4" NPT	13.0	1	71454	71453
SUPERTRONIC® 1250	with forged pipe clamp, without die heads	3.9	1	71470	
Pipe clamp for SUPERTRONIC® 1250	up to max. 1.1/4"	1.6	1	71279	71279

Helical gears for maximum power (800 watt)



Steel pipe processing portable, fast and easy



**ACCESSORIES**

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	135



# Threading

## 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>

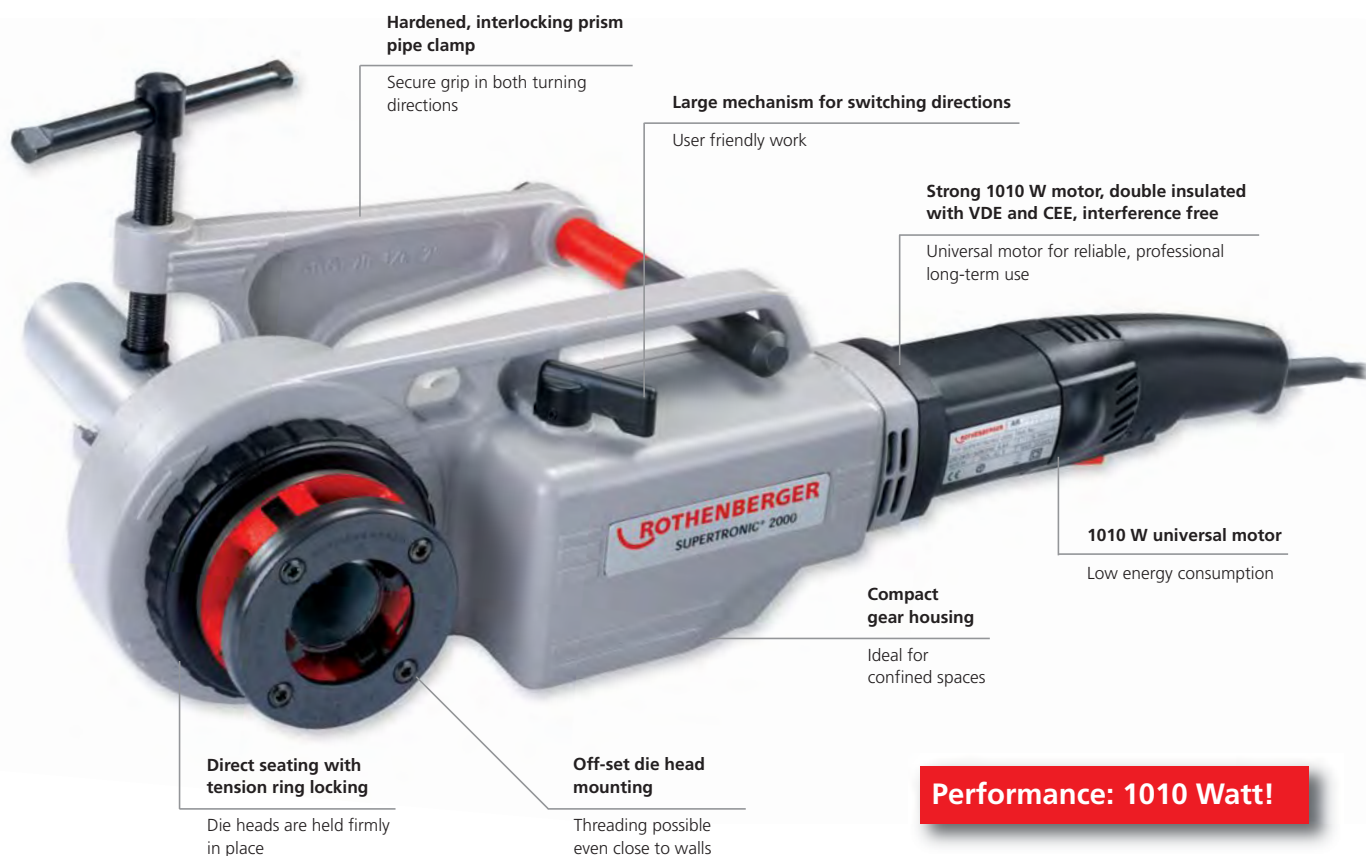
(4 x faster reverse with reverse drive)

**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

6



Easy insertion of the die heads



Use with roll grooving tool ROGROOVER



ROFIX adaptor (No. 71271)



High reduction gears





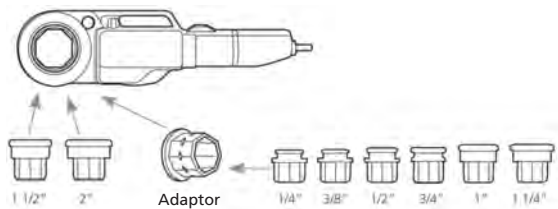
**SUPERTRONIC® 2000 Set**

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!



Pipe clamp



Adaptor



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	71256	71258
SUPERTRONIC® 2000 Set, NPT	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	14.5	1	71257	71259
SUPERTRONIC® 2000	with forged pipe clamp, without die heads	6.8	1	71250	71251

Work in confined spaces



Die heads with the tripod universal workbench



**ACCESSORIES**

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	135



# Threading

## 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	No.	NPT	No.
1/4"	070821X	1/4"	070907X
3/8"	070822X	3/8"	070908X
1/2"	070823X	1/2"	070912X
3/4"	070824X	3/4"	070913X
1"	070825X	1"	070914X
1.1/4"	070826X	1.1/4"	070915X
1.1/2"	070842X	1.1/2"	070849X
2"	070843X	2"	070850X

6



### Threading Dies

#### 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.	NPT	No.
1/4"	070831X	1/4"	070916X
3/8"	070832X	3/8"	070917X
1/2"	070833X	1/2"	070918X
3/4"	070834X	3/4"	070919X
1"	070835X	1"	070920X
1.1/4"	070836X	1.1/4"	070921X
1.1/2"	070869X	1.1/2"	070945X
2"	070870X	2"	070946X



### 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	kg	No.
ROFIX Adaptor with locking ring	0.8	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			No.
RONOL® Spray can	600 ml	0.58	12	65008
RONOL® Canister	5 l	4.60	4	65010



### 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.

**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** such as sulphur, phosphorus or chlorine: increased cutting performance

Model	Contents			No.
RONOL® SYN Spray can	600 ml	0.75	12	65013
RONOL® SYN Canister	5 l	5.20	4	65015





# Threading

## 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:	
BSPT right:	Ø 1/4 - 2"
NPT:	Ø 1/4 - 2"
BSPP:	Ø 1/2 - 2"
BSW:	Ø 3/8 - 2"
Metric:	Ø 10 - 24 mm

KEY FEATURES	
<ul style="list-style-type: none"><li>● Quick and reliable threading, trimming, deburring, and grooving</li><li>● Effortless and comfortable transport with the light, navigable working carriage, which also serves as workbench</li><li>● Complete pre- and post-processing of pipe</li><li>● Easy to maintain machine design</li><li>● Die head Type R (automatic with integrated oil feed)</li><li>● Portable transport frame (standard)</li></ul>	
TECHNICAL DATA	
Performance:	1,150 Watt
Speed:	40 m <sup>-1</sup>
Weight:	68 kg
Dimensions (L x W x H):	535 x 430 x 340 mm

6

#### 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

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>®</sup> threading dies can optionally be used!



##### Geared oil pump with filter system and adjustable fluid qualities

Constant oil flow quantities

##### Ampley dimensioned large plastic shavings collection trough

Easy to clean

### 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!

6

Automatic die head with integrated oil supply



High mobility



Thread roughing



Cost-effective production of grooves



Model	Volt	kg	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 88.5	<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 bolt for transport frame (contents 4 pieces)		0.7	<b>56049</b>
Supporting legs (contents 4 pieces)		5.0	<b>56488</b>

#### ACCESSORIES

Description	No.
Cutting fluid	<b>135</b>
Automatic die heads	<b>140</b>
Dies	<b>141</b>
NIPPLE MAX	<b>145</b>
Pipe roughing wrench	<b>145 56500</b>
ROGROOVER 1-6"	<b>146 56505</b>



# Threading

## 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:

BSPT right:	Ø 1/4 - 4"
NPT:	Ø 1/4 - 4"
BSPP:	Ø 1/2 - 4"
BSW:	Ø 3/8 - 2"
Metric:	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

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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

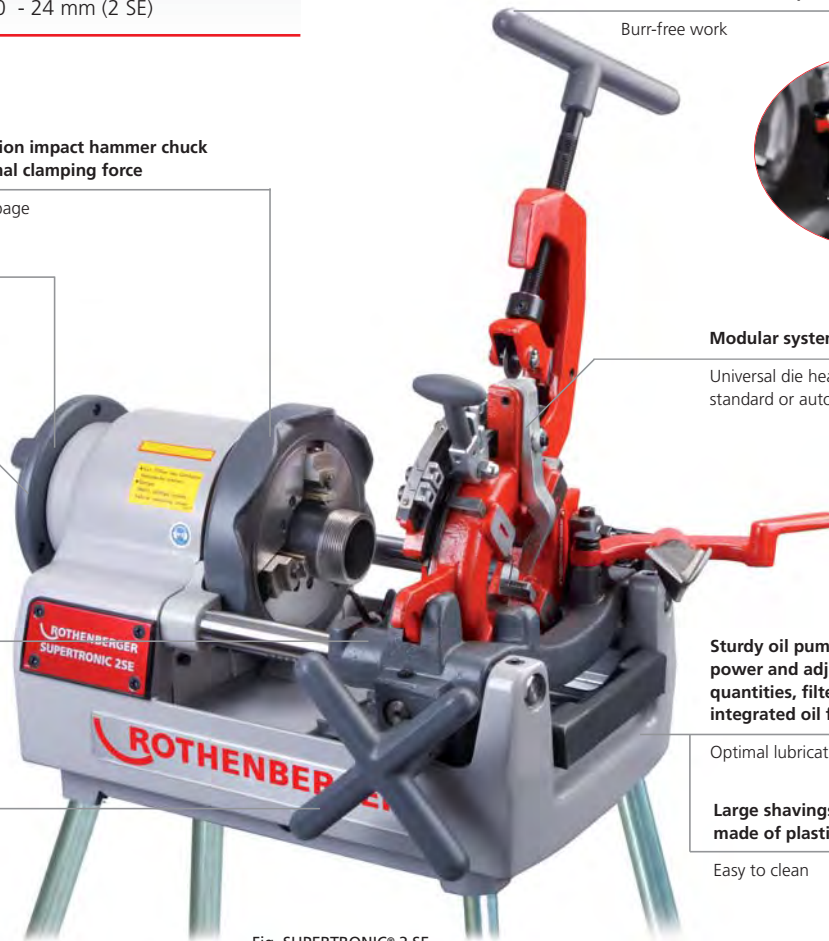


Fig. SUPERTRONIC® 2 SE

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 for 3 and 4 SE (No. 57050)



### 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

Motor strength:	1,150 Watt
Speed:	40 m <sup>-1</sup>
Weight, with die heads:	68 kg
Dimensions (L x W x H):	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. 56488), 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

No.

Deburrer without holder 2 SE	56198
Supporting legs (contains 4 pieces)	56488

### 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

Motor strength:	1,700 Watt
Speed:	33 m <sup>-1</sup>
Weight, with die heads:	100 kg
Dimensions (L x W x H):	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. 56489), 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

No.

Deburrer without holder 3 SE	56199
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### SUPERTRONIC® 4 SE

#### Compact threader Ø 1/2 - 4"

SUPERTRONIC® 4 SE with Automatic Die Head

#### TECHNICAL DATA

Motor strength:	1,750 Watt
Speed:	22 / 50 m <sup>-1</sup>
Weight, with die heads:	120 kg
Dimensions (L x W x H):	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. 56489), 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	
Transport Frame for 3 and 4 SE	25	57050	



Lever  
Various adjustable speeds

# Threading

## Threading electric

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### 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
- Automatic adjustable thread length for serial production
- 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

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 or 5 pieces / pack)



For optimal threading results, use only with original ROTHENBERGER cutting fluid or cutting oil (see 135)!

#### Suitable for:

##### ● Conical pipe threads - NPT

Taper Pipe Thread: ASME B1.20.1  
External conical threads 1:16, 60° flank angle

##### ● Metric bolt threads - M

Metric threads: ISO 261, DIN 13  
Exterior threads, 60° flank angle

##### ● Conical pipe threads - BSPT

Whitworth pipe threads: ISO 7-1, DIN EN 10226 (DIN 2999)  
External conical threads 1:16, 55° flank angle

##### ● English bolt threads - BSW

British Standard Parallel Screw: Thread of Whitworth  
Form B.S.W, B.S 84: Exterior threads, 55° flank angle

##### ● Cylindrical pipe threads - BSPP

Whitworth pipe threads: ISO 228-1, DIN 259  
Exterior threads cylindrical, 55° flank angle

### Overview Die Heads / Threading Dies

						<b>ROPOWER® 50 R</b>	<b>SUPERTRONIC® 2 SE</b>	<b>SUPERTRONIC® 3 SE</b>	<b>SUPERTRONIC® 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>	1/2 - 2"	56052	1/4-3/8"	56369	56379	●			
			1/2-3/4"	056370X	56380	●			
			1-2"	056371X	N/A	●			

<b>NPT</b>	1/2 - 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	●	●	●	●
			1- 2"	56007	56236	●	●	●	●
	2- 3"	56104	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	●	●	●	●
			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	●	●	●	●
			1-1.1/4"	56096	N/A	●	●	●	●
	1.1/2-3"	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



# Threading

## 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

**High working speed**

**With 6 brush motor** for higher torque

**Overload protection**, security stop switch, over-run stop

**Operational hour counter**

**Motor control light**

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#### 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	216.00	<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>145 56335</b>	Pipe roughing wrench	1.15	<b>56500</b>
Cutting fluid	<b>135</b>		Deburrer up to 2", conical with 5 blades	1.20	<b>57011</b>
High-performance die heads	<b>144</b>		Deburrer up to 4", bladed with 2 blades	0.70	<b>57111</b>
Precision dies	<b>144</b>		Replacement cutting wheel for pipe cutter	0.04	<b>57110</b>
NIPPLE MAX	<b>145</b>		Transport stand, full rubber tyres	24.20	<b>57105</b>

# Threading

## 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	Auto	COLLINS CLASSIC Standard	COLLINS RHINO Standard	kg	No.
<b>BSPT UNIQUAD *</b>	1/8 - 2"	BSPP 1/8 - 2" M 6 - M 52 mm	●	○	●	●	5.1	<b>57015</b>
<b>BSPT QUADMATIC *</b>	2.1/2 - 4"	BSPP 2.1/2 - 4"				●	17.9	<b>57016</b>
<b>BSPT Automatic *</b>	1/2 - 2"	BSPP 1/2 - 2"	○	●	○	○	4.8	<b>57017</b>
<b>NPT UNIQUAD *</b>	1/8 - 2"		○	○	○	○	4.9	<b>57018</b>
<b>NPT Automatic *</b>	1/2 - 2"		○	○	○	○	5.1	<b>57019</b>
○ = included    ● = 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. Maximum carrying capacity 120 kg



Model	Height / mm	kg	No.
For pipes up to 6"	780 - 1,200	5.8	<b>56047</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 (OFF-ON-OFF)



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>

### 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, PANDA, PISET, ROPOWER and SUPERTRONIC.

- 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>

# Threading

## Roll Grooving

### ROGROOVER 1 - 6"

Portable rolling groover for steel pipes up to Ø 6" (168 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

#### APPLICATION AREA

**Standard and thin-walled steel pipes up to 6" (168 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

Model	kg		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>

**Extremely light: 12 kg!**



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>

### Hand Roll Groover 1 - 12"

Manageable and compact hand roll groover for producing of grooves on installed thin- and standard Steel pipes up to 12" (324 mm)

Suitable for installations, sprinkler systems, larger heating units, industrial use and mining.

#### APPLICATION AREA

For standard grooves on instelled pipes from 1 - 12"

#### KEY FEATURES

- For pipes from Ø 1"
- Quick connection of pipes anywhere where welding is not allowed!
- Easy transportation due to small dimension
- Adjustable and finely-controlled arrester
- 1/2" ratchet for both adjustment

#### TECHNICAL DATA

<b>Working range:</b>	1 - 12" (324 mm)
<b>Pipe wall-thickness:</b>	1 - 6" SCHL10 + SCHL40 4 - 6" SCHL40 8 - 12" SCHL10
<b>Weight:</b>	12.0 kg
<b>Depth gauge:</b>	2 distance plates included
<b>Dimensions:</b>	195 mm x 210 mm x 210 mm



Application on tripod workbench



Fixture for stabiliser



Model	kg		No.
Hand Roll Groover 2 - 6"	12.0	1	<b>1000000212</b>
Roller-SET 1"	0.59	1	<b>1000000720</b>
Roller-SET 1.1/4 - 1.1/2"	0.62	1	<b>1000000721</b>
Roller-SET 2 - 6"	1.00	1	<b>1000000850</b>
Roller-SET 4 - 6"	2.48	1	<b>1000000722</b>
Roller-SET 8 - 12"	2.70	1	<b>1000000723</b>

## ROGROOVER 1 - 12"

Electro-hydraulic rolling groover for steel pipes  
Ø 1 - 12" (33 - 324 mm) for rolling of grooves

### Product Profile

#### APPLICATION AREA

Suitable for installations, sprinkler systems, larger heading units, industrial use and mining

#### KEY FEATURES

- Pressure rollers toolless adjustable due to revolver-button
- Safe working with foot switch and emergency stop switch, as lighting in workplace
- Reliable, powerful 1.500 Watt Motor
- Quick and fine adjustment for groovers and regulation

#### TECHNICAL DATA

<b>Working Area:</b>	1 - 12" (60 - 324 mm)
<b>Wall thickness of pipe:</b>	3 - 10 mm
<b>Weight:</b>	175 kg
<b>Dimensions:</b>	685 x 474 x 960 mm
<b>Voltage:</b>	110 V-50 Hz, 230 V-50 Hz / 60 Hz
<b>Power:</b>	1.500 W
<b>Torque:</b>	36 r/min.
<b>Max. working pressure:</b>	27.750 N

Fine adjustment of groover depth  
and Regulation

Für optimum results

#### Control panel

Power supply, light and  
emergency stop switch

Revolver-button with  
integrated pressure rollers

Easy, fast and toolless



#### Surrounding steel pipe frame

Protection & carrying frame

#### Function only via foot switch

Safety for the User

3-way adjustment of the pressure  
rollers size



Drive shaft and  
measuring tape in the delivery



#### Adjustable Pipe support stand

Ball bearing suspensions  
for easy handling



Scope of delivery: ROGROOVER Machine 1 -12", Pipe support stand, Drive shaft,  
1 - 1.1/2" and 8 - 12", Diameter measuring tape

Model	kg		No.
ROGROOVER 1-12", 230 V-50 Hz	175,0	1	1500001351
ROGROOVER 1-12", 230 V-60 Hz	175,0	1	1500001352
ROGROOVER 1-12", 110 V-50 Hz	175,0	1	1500001353

Description	kg		No.
Pipe support stand	33,00	1	1500001990
Diameter measuring tape	0,05	1	1500000134
Transport stand	25,00	1	57050



# ONE of 6.000

Premium tools for  
professionals!



7





# Soldering & Welding

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# Soldering & Welding

## System Overview

### Cartridge Brazing

	SUPER FIRE 3	SUPER FIRE 4	POWER FIRE Compact	ROFIRE Swivel PRO Cyclone (Piezo)	ROFIRE Swivel PRO Twin
					
<b>Soft Soldering:</b> 	up to Ø 35 mm	up to Ø 35 mm	up to Ø 28 mm	up to Ø 42 mm	up to Ø 64 mm
<b>Brazing:</b> 	up to Ø 28 mm	up to Ø 28 mm	up to Ø 22 mm	up to Ø 18 mm	up to Ø 28 mm
<b>Special application:</b>	Shrinking, Removal of paint	Shrinking, Removal of paint	–	–	–
<b>For use with:</b>	MAPP® <sup>1)</sup> -Gas, Maxigas 400, Multigas 300	MAPP® <sup>1)</sup> -Gas, Maxigas 400, Multigas 300	MAPP® <sup>1)</sup> -Gas, Maxigas 400, Multigas 300	MAPP® <sup>1)</sup> -Gas <sup>2)</sup> , Maxigas 400 <sup>2)</sup> , Multigas 300 <sup>2)</sup>	MAPP® <sup>1)</sup> -Gas <sup>2)</sup> , Maxigas 400 <sup>2)</sup> , Multigas 300 <sup>2)</sup>
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### Cartridge Soft Soldering

### Roofing & Sheet Metal Works








	ROFLAME PIEZO	ROFIRE (PIEZO), EASY FIRE	MULTI MOBILE	MULTI 300 Propane Soft Soldering kit	ROOFING-SET
					
<b>Soft Soldering:</b> 	up to Ø 22 mm	up to Ø 22 mm	✓	✓	✓
<b>Brazing:</b> 	–	up to Ø 15 mm	–	–	–
<b>Special application:</b>	–	–	Sheet metal working	Sheet metal working	Bonding of bituminous sheeting
<b>For use with:</b>	Supergas C200	Multigas 300	Multigas 110	Propane, Butane	Propane, Butane
<b>Page</b>	<b>156</b>	<b>157</b>	<b>165</b>	<b>166</b>	<b>167</b>

### Cartridges








	MAPP® <sup>1)</sup> -Gas	Maxigas 400	Multigas 300	C 200 Supergas	Multigas 110
					
<b>Flame temperature:</b>	up to 2.700 °C	up to 2.200 °C	up to 1.900 °C	up to 1.800 °C	up to 1.900 °C
<b>Application:</b>	Soft soldering & Brazing	Soft soldering & Brazing	Soft Soldering	Soft Soldering	Soft Soldering
<b>Valve:</b>	EU 7/16"	EU 7/16"	EU 7/16"	Piercable cartridge	EU 7/16"
<b>Content:</b>	750 ml / 415 g	600 ml / 352 g	600 ml / 338 g	314 ml / 190 g	110 ml / 60 g
<b>Page</b>	<b>158</b>	<b>159</b>	<b>159</b>	<b>159</b>	<b>159</b>



### Brazing & Soft Soldering devices




	ROFLASH	RE 17	ALLGAS 2000 PS 0,5/2 Compact	ALLGAS MOBILE Pro	ROXY 400 L
					
Soft Soldering: 	✓	✓	✓	✓	✓
Brazing: 	✓	✓	✓	✓	✓
Welding: 	0,2 - 14 mm	0,5 - 14 mm	0,2 - 5 mm	0,2 - 5 mm	0,5 - 2 mm
Cutting:	3-75 mm	12-100 mm	–	–	–
For use with:	Acetylene & Oxygen	Acetylene & Oxygen, Maxigas 400	Propane & Oxygen	MAPP®1)-Gas & Oxygen	Maxigas 400 & Oxygen
Page	175	176	172	173	174

### Cylinder Brazing & Soft Soldering

	AIRAC®	ROCOLT Handy Piezo	AIRPROP	TURBOPROP	ROTHERM 2000
					
Soft Soldering: 	up to Ø 54 mm	up to Ø 70 mm	up to Ø 54 mm	up to Ø 54 mm	up to Ø 54 mm
Brazing: 	up to Ø 35 mm	up to Ø 32 mm	up to Ø 22 mm	up to Ø 28 mm	–
Special application:	–	–	–	–	Soft soldering without flame
For use with:	Acetylene	Propane, Butane	Propane, Butane	Propane, Butane	230 V
Page	164	160, 161	162	163	169, 170

### Cartridges & Cylinders

	Acetylene	Oxygen
		
Application:	Brazing, Welding, Cutting	Brazing, Welding, Cutting
Valve:	DIN 477-1	M 10x1 (One-way) / G 3/4" RH
Pressure:	19 bar	100 bar (One-way) / 200 bar
Content:	5 l, 10 l	930 ml (One-way) / 2 l, 5 l, 10 l
Page	178	178

	Soft Soldering up to 450°C
	Brazing 450°C - 1100°C
	Gas Welding > 1100°C

1) MAPP® is a registered trademark of the MESSER Group GmbH, Bad Soden

# Bonding

## Cartridge Brazing

### SUPER FIRE 3

Ergonomic HEAVY-DUTY brazing unit up to Ø 28 mm

For soft soldering, brazing and other applications such as removal of paint 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

- Rapid heat-up, less consumption!
- 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)

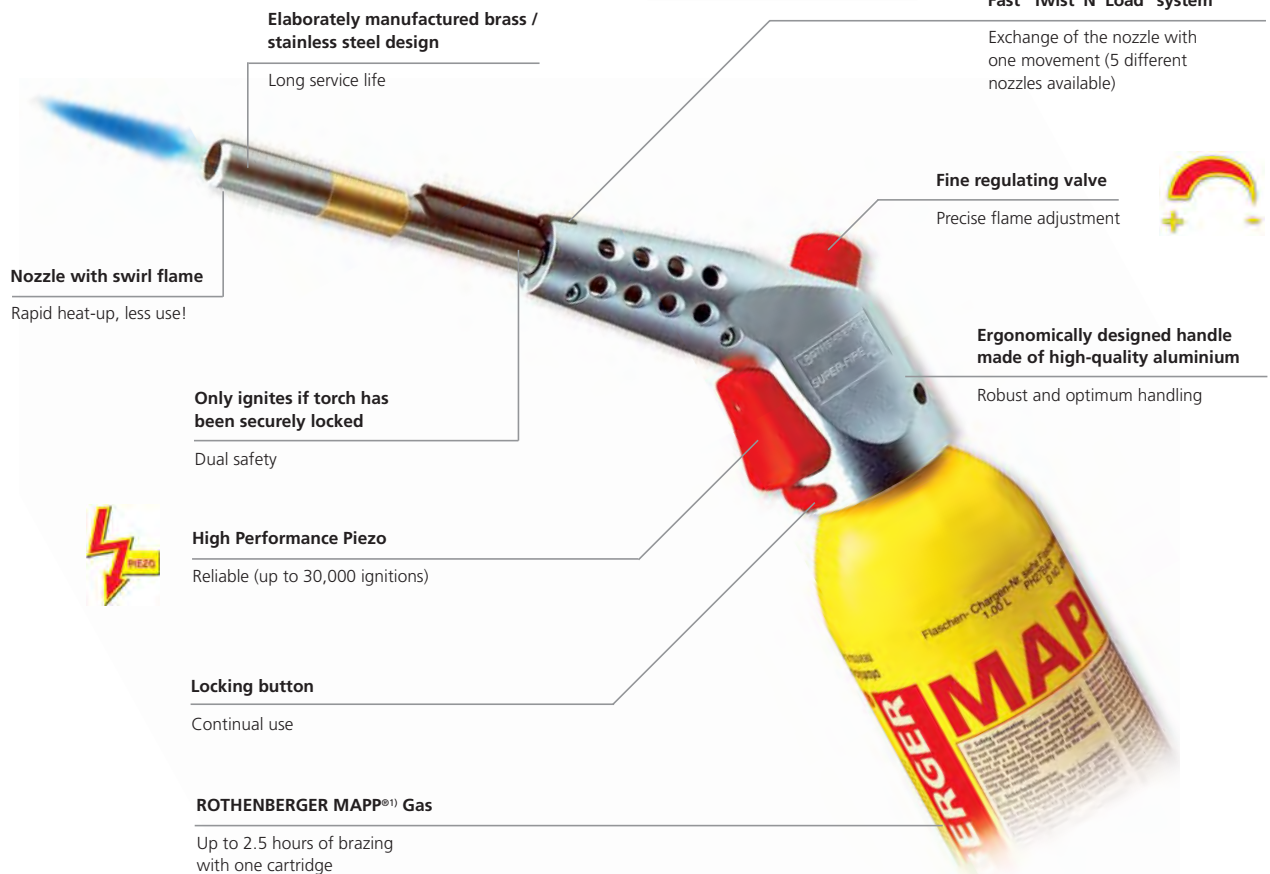
##### TECHNICAL DATA

- Coupling:** 7/16" EU
- Handle:** Aluminium, bolted
- Burner:** Brass / stainless steel

### SUPER FIRE 3 Nozzles

Quick exchange with the "Twist 'N' Load" system

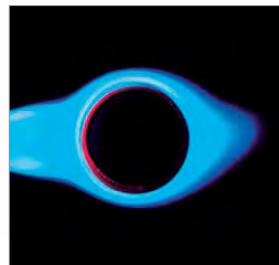
#### „Twist ,N' Load“



Brazing in gas installation



High flame temperature through cyclone swirl



Brazing in aircon and refrigeration



### Pin-point Nozzle (460 °C):



For fine soldering; precise and stable flame

### Standard Nozzle (700 °C):



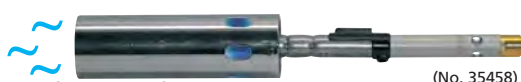
For soft soldering and other jobs with lower heat application; precise, powerful and stable flame

### Cyclone Nozzle (950 °C):



For hand and soft soldering with an efficient swirl flame (allows pipe to heat up evenly)

### Hot air Nozzle (400 °C):



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):



For shrinking up to ø 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<sup>®</sup> gas cartridges (No. 035551-A), carrying case (No. 30898)

Model			No.
SUPER FIRE 3 HOT BOX	1	4	35490

## SUPER FIRE 3 Basic Set

Set (No. 35436) includes:  
handle (No. 35445), cyclone nozzle (No. 35457)

## SUPER FIRE 3 MAPP<sup>®</sup> 1) Set

Set (No. 35432) includes:  
handle (No. 35445), cyclone nozzle (No. 35457),  
MAPP<sup>®</sup> 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	35436
SUPER FIRE 3 MAPP <sup>®</sup> 1) Set	1	10	35432
SUPER FIRE safety adaptor 7/16" to 1"	1	1	035648X

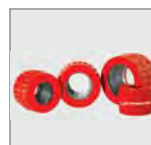
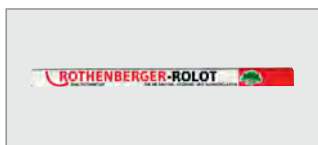


No. 35436



No. 35432

## ACCESSORIES



Model		Model	
Welding blanket	181	External brush for copper pipe	181
Internal brush for copper pipe	181	ROVLIES <sup>®</sup>	181
Solder	183 - 187	Soft-soldering paste ROSOL	183

1) MAPP<sup>®</sup> is a registered trademark of the MESSER Group GmbH, Bad Soden



# Bonding

## Cartridge Brazing

### SUPER FIRE 4

#### Ergonomic Brazing Unit

For brazing up to Ø 28 mm and soft soldering up to Ø 35 mm as well as other applications such as removal of paint 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

- Rapid heat-up, less consumption!
- "Twist 'N' Load" system (5 different nozzles available) – exchange of the nozzle with only one movement
- Precise flame adjustment
- Improved Fine regulation mechanism for one-handed-operation

##### KEY FEATURES

- Reliable Piezo ignition (up to 30,000 ignitions)
- Double the safety because there is no gas leakage without locked nozzle (Piezo ignition)
- Longer handle for an even more stable positioning of the Cartridge

##### TECHNICAL DATA

- Coupling:** 7/16" EU
- Handle:** Aluminium, rubberized
- Burner:** Brass / Stainless steel

#### Nozzle with swirl flame

Rapid heat-up, less use!

Elaborately manufactured brass / stainless steel design

Long service life

#### Fast "Twist 'N' Load" system

Exchange of the nozzle with one movement (5 different nozzles available)

#### Optimized fine regulating valve

Precise flame adjustment, faster opening and closing

#### Dual safety

Only ignites if torch has been securely locked

#### High Performance Piezo

Reliable (up to 30,000 ignitions)

#### Locking button

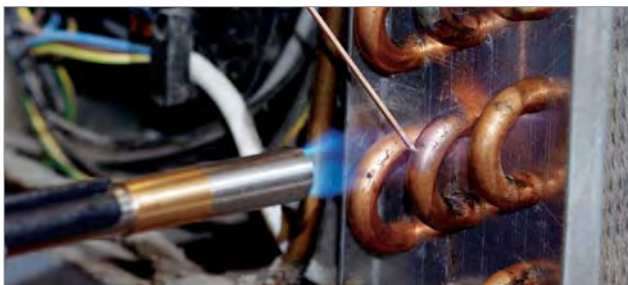
Continual use with only one hand

#### Ergonomically designed handle

Robust, light and slipfree through rubberized surface

- ✓ Safe
- ✓ Fast
- ✓ Reliable

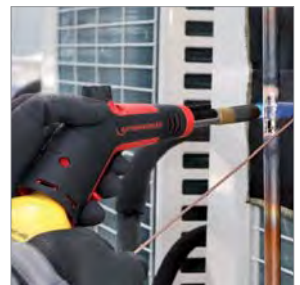
Brazing in aircon and refrigeration



High flame temperature through cyclone swirl



Brazing in aircon and refrigeration



### Pin-point Nozzle (460 °C):



For fine soldering; precise and stable flame

### Standard Nozzle (700 °C):



For soft soldering and other jobs with lower heat application; precise, powerful and stable flame

### Cyclone Nozzle (950 °C):



For hand and soft soldering with an efficient swirl flame (allows pipe to heat up evenly)

### Hot air Nozzle (400 °C):



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):



For shrinking up to ø 300 mm and for heating; powerful, wind-stable soft flame

## SUPER FIRE 4 HOT BOX

### KEY FEATURES

- The ideal service kit
- For repairs, heating installations and refrigeration / air-conditioning technology



5 part Set (No. 1000001264) includes: handle (No. 1500001354), cyclone nozzle (No. 35457), pin-point nozzle (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2 x MAPP®<sup>1)</sup> gas cartridges (No. 035551-A), Carrying case (No. 1500001493), Inlay (No. 1500001491)

Model			No.
SUPER FIRE 4 HOT BOX	1	4	1000001264

## SUPER FIRE 4 Basic Set

Set (No. 1500001355) includes:  
handle (No. 1500001354), cyclone nozzle (No. 35457)

## SUPER FIRE 4 MAPP®<sup>1)</sup> Set

Set (No. 1000001263) includes:  
handle (No. 1500001354), cyclone nozzle (No. 35457),  
MAPP®<sup>1)</sup> 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 4 Basic Set	1	4	1500001355
SUPER FIRE 4 MAPP® <sup>1)</sup> Set	1	10	1000001263
SUPER FIRE Safety adaptor 7/16" on 1"	1	1	035648X

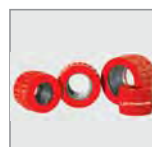


No. 1500001355



No. 1000001263

## ACCESSORIES



Model		Model	
Welding blanket	181	External brush for copper pipe	181
Internal brush for copper pipe	181	ROVLIES®	181
Solder	183 - 187	Soft-soldering paste ROSOL	183

# Bonding

## Cartridge Brazing / Soft Soldering

### POWER FIRE Compact

PROFESSIONAL brazing- Ø 22 mm  
and soft soldering unit up to Ø 28 mm

#### APPLICATION AREA

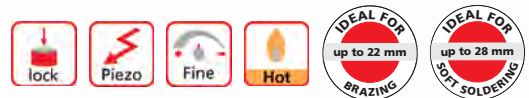
**Coupling:** 7/16" EU  
**Brazing:** up to Ø 22 mm  
**Soft soldering:** up to Ø 28 mm

#### 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)

Model	No.
POWER FIRE Compact set (torch, MAPP® <sup>1)</sup> Gas)	35424
POWER FIRE Compact, EU-handle	30813



No. 35424



### ROFIRE Swivel PRO Piezo Cyclone

Cyclone burner with Piezo ignition

**Coupling:** 1" US  
**Brazing:** up to Ø 18 mm  
**Soft soldering:** up to Ø 42 mm



Model	No.
ROFIRE SWIVEL PRO Cyclone Piezo US	35016

### ROFIRE Swivel PRO Cyclone

Cyclone burner

**Coupling:** 1" US  
**Brazing:** up to Ø 18 mm  
**Soft soldering:** up to Ø 42 mm



Model	No.
ROFIRE SWIVEL PRO Cyclone US	35014

### ROFIRE Swivel PRO Twin

Twin cyclone burner

**Coupling:** 1" US  
**Brazing:** up to Ø 28 mm  
**Soft soldering:** up to Ø 64 mm



Model	No.
ROFIRE SWIVEL PRO Twin US	35012

### 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) 750	35419

1) MAPP® is a registered trademark of the MESSER Group GmbH, Bad Soden



## Cartridge Soft Soldering

### 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	240	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	250	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	260	35552



# Bonding

## Cartridge Brazing

### 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	
<b>KEY FEATURES</b> <ul style="list-style-type: none"> <li>Extremely high flame temperature, utmost burning performance and guaranteed short working times</li> <li>Guaranteed constant top torch performance</li> </ul>	<b>KEY FEATURES</b> <ul style="list-style-type: none"> <li>Easy to use</li> <li>Increased user safety through the sandwich valves and aluminium mono-block cylinder</li> <li>Longer periods of use</li> </ul>

7

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



Fig. MAPP®<sup>1)</sup> Gas

Model	Contents			No.
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360		<b>035551-A</b>
Languages: DE, GB, FR, ES, IT, PT				
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360		<b>035551-B</b>
Languages: DK, NL, SE, FI, FR, RUS				
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360		<b>035551-C</b>
Languages: CZ, PL, HU, BG, TR, RO				
Burners can be found starting on  152				

1) MAPP® is a registered trademark of the MESSER Group GmbH, Bad Soden

### Packaging Profile

Model	MAPP® <sup>1)</sup> Gas
No.	<b>035551-A</b>
EAN Code	4004625355510 (A)
Product size (mm) (W x H)	80 x 285
Contents (ml)	750
Weight (g)	415
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

## Cartridge Brazing / Soft Soldering

### 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	Maxigas 400
No.	035570-A/-B
EAN Code	4004625355701 (A)
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	Multigas 300
No.	035510-A/-B
EAN Code	4004625355107 (A)
Product size (mm) (W x H)	65 x 260
Contents (ml)	600
Weight (g)	332
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

### Multigas 110

Gas cartridges for flame temperatures up to 2.100 °C, suitable for MULTI MOBILE soft soldering unit. The special construction allows 360°-overhead operation. With EU-coupling 7/16"




Model	Multigas 110
No.	1500000459
EAN Code	4004625378977
Product size (mm) (W x H)	45 x 150
Contents (ml)	110
Weight (g)	60
Unit per PU 	12
VPE prer layer / palette	30
Layer per palette	5
Units per palette	1.800
Number of palettes per truckload	60
Units per truckload	108.000
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)	185 x 140 x 160

### Supergas C 200 TSS

Pierceable butane cartridge with propane contents, also for working at low temperatures. Manufactured according to new EN 417:2012, with integrated Top Safe System (TSS). This system prevents uncontrolled gas leakage when accidentally disconnecting it from the device.



Model	C 200 TSS
No.	035901-A/-B
EAN Code	4004625390627 (A)
Product size (mm) (W x H)	90 x 95
Contents (ml)	330
Weight (g)	190
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)	350
Palette size (mm) (L x W x H)	800 x 1.200 x 1.180
Carton size (mm) (L x W x H)	360 x 275 x 280



# Bonding

## Cylinder Brazing

### ROCOLT HANDY PIEZO Set

Professional brazing system with quick-change torch

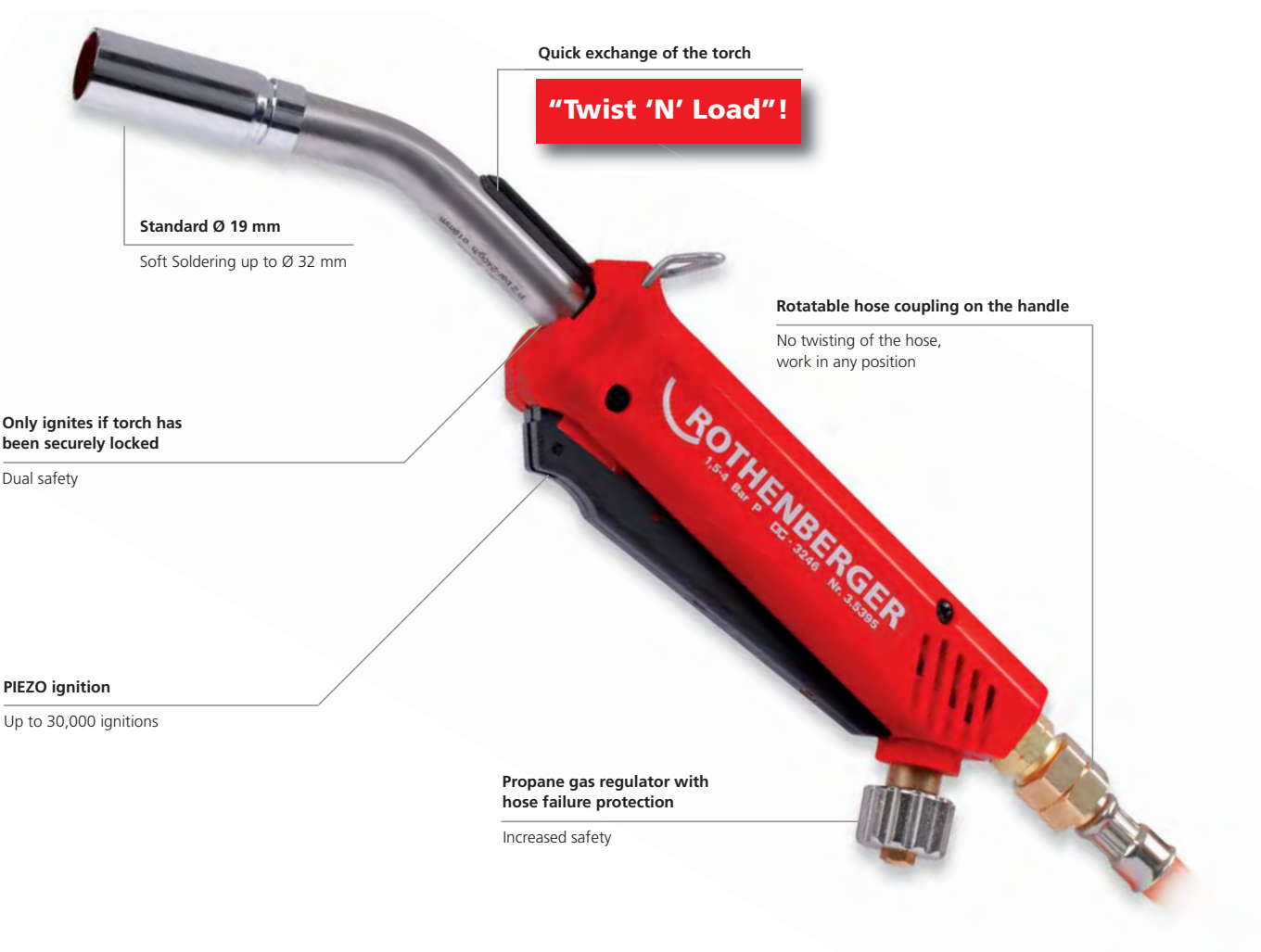
Three torch nozzles for different applications



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	
<ul style="list-style-type: none"><li>Three torch nozzles for different applications</li><li>Reliable PIEZO ignition for up to 30,000 ignitions</li><li>Increased safety with the hose failure protection</li></ul>	

KEY FEATURES	
<ul style="list-style-type: none"><li>No twisting of the hose, work in any position</li><li>Tool-free nozzle exchange with the fast "Twist 'N' Load" system</li></ul>	
TECHNICAL DATA	
Coupling:	G 3/8" LH
Handle:	Plastic, with screws
Burner:	Brass / stainless steel

7



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 19 mm (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. 30898)



With flame reflector!



Model	kg	No.
ROCOLT HANDY PIEZO Set	1.5	<b>35390</b>
ROCOLT HANDY Handle	0.3	<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 32 mm  
(No. 35378)



### 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	19	150	<b>35378</b>	PIEZO Cyclone Torch	14	180	<b>35397</b>
				PIEZO Cyclone Torch	19	150	<b>35398</b>
				PIEZO Cyclone Torch	25	180	<b>35399</b>

### ACCESSORIES



Model		Model	
Welding blanket	<b>181</b>	External brush for copper pipe	<b>181</b>
Internal brush for copper pipe	<b>181</b>	ROVLIES®	<b>181</b>
Solder	<b>183 - 187</b>	Soft-soldering paste ROSOL	<b>183</b>

# Bonding

## Cylinder Brazing

### 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

<b>Self-induced air:</b>	Turbine and combustion chamber
<b>Torch:</b>	Surface treated, chromed brass
<b>Hose coupling:</b>	G 3/8" LH

#### Built-in gas turbine in brazing torch

Bundled, concentrated and hot flame

#### Smooth-turning economy valve

Gas-saving operation

#### Optimised valve technology

Absolutely gas tight

#### Shut-off valve

Prevents uncontrolled gas escape

Absolutely gas-tight connection thanks to dual O-ring technology

Fast burner exchange without tools



No. 31092

Sets include: Safety handle with push-in coupling (No. 211121116), brazing torch with push-in nipple Ø 14 mm (No. 221131416) / Ø 16 mm (No. 221131616) / Ø 19 mm (No. 221131916), 2.5 m propane hose with 3/8" LH 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 – G 3/8 LH))	3.1	<b>31091</b>
Flame cleaning torch 20/50 mm	0.2	<b>30922</b>



Threaded coupling  
M14 x 1



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 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>221131416</b>
16 mm	145	180	2.30 – 3,300 – 7,885	100	<b>221131616</b>
19 mm	170	300	3.84 – 3,300 – 13,115	130	<b>221131916</b>
22 mm	171	400	5.12 – 4,400 – 26,195	145	<b>221132216</b>



# Bonding

## Cylinder Brazing

### 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:** G 3/8" LH

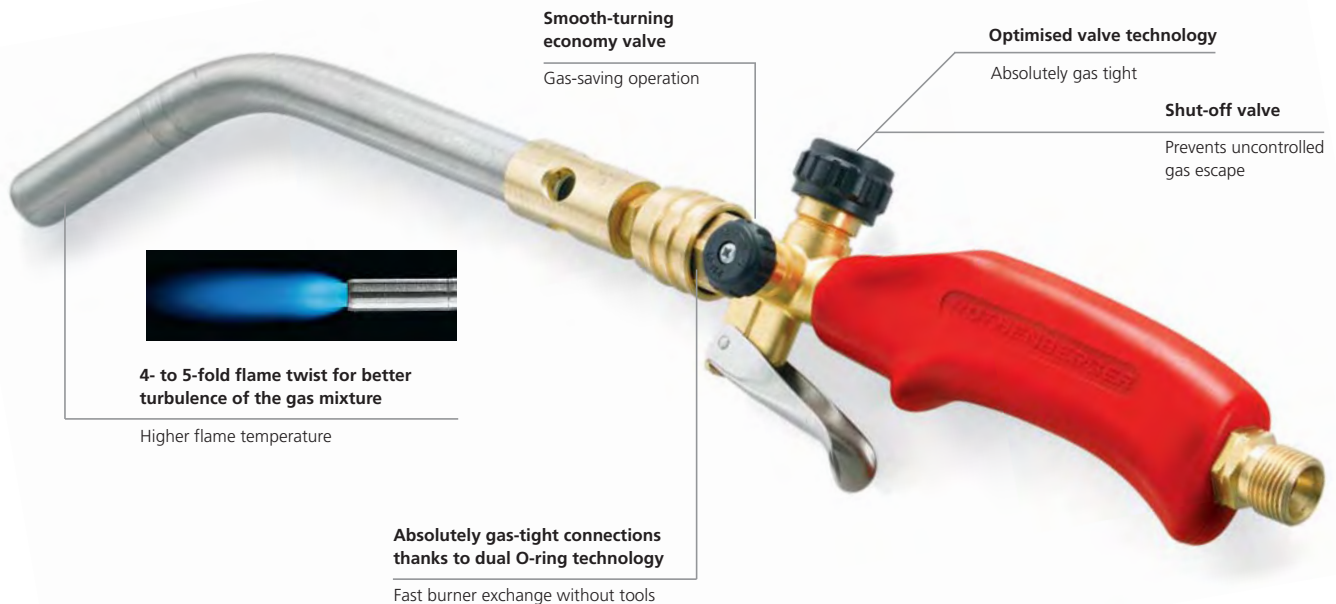


Fig. TURBOPROP torch with push-in nipple

Sets include: Safety handle with push-in coupling (No. 211121116), brazing torch with push-in nipple Ø 12 mm (No. 31032) / Ø 15 mm (No. 221031500) / Ø 18 mm (No. 221031800), 2.5 m propane hose with 3/8" LH 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 LH – G 3/8 LH))	3.1	<b>31094</b>
TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 3.2083) (POL 7/8 LH – G 3/8 LH))	3.1	<b>31037</b>
TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 32084) (W 20 x 14 LH – G 3/8 LH))	3.1	<b>31036</b>



No. 31090

#### TURBOPROP brazing torch with push-in nipple coupling

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>221031500</b>
18 mm	230	240	3.07 – 2,640 – 10,485	160	<b>221031800</b>

# Bonding

## Cylinder Brazing

### 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

High-performance injections burner only for acetylene 2,350 °C

Powerful operation

Turbine and combustion chamber effect, self-induced air

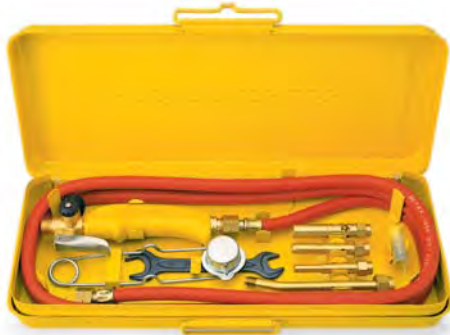
Maximum performance

Shut-off valve

Prevents uncontrolled gas leaks

Smooth running economy valve

Gas-saving operation



10-piece set (No. 31093) includes: Safety handle (No. 211541116), 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 178		

### AIRAC® Safety Handle

Safety handle with economy, regulating and shut-off valve, threaded coupling M 16 x 1, hose coupling G 3/8" LH



Model	g	No.
Safety handle	290	<b>211541116</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>

### MULTI MOBILE Set

A mobile soft-soldering cartridge tool for professional applications in sheet metal work and for soldering tin and lead

**Professional soft soldering with maximum mobility and safety!**

#### Product Profile

##### KEY FEATURES

- Ideal for mobile construction sites and service calls
- Titanium combustion chamber and light aluminium hand grip
- No flare-up effect thanks to special Multigas 110 gas cartridge
- Usable in any position (360°) with a constantly stable flame
- Special wind stability due to the combustion chamber's protective design
- Piezo ignition and exact adjustment with a fine regulator valve
- For sheet metal work such as roof gutters, panels and roof edges, ventilation shafts, etc.
- Robust metal case for safe transport


##### TECHNICAL DATA


<b>Copper piece temperature:</b>	600 °C
<b>Heat effect:</b>	945 W
<b>Ignition:</b>	Piezo
<b>Consumption:</b>	75 g/h at 2 bar
<b>Handle diameter:</b>	50 mm
<b>Weight incl. copper piece and cartridge:</b>	890 g



Fig. MULTI MOBILE Set

Set (No. 1000000390) includes: MULTI MOBILE soft-soldering cartridge tool incl. hammer shaped copper piece 250g (No. 1000000514), 2 Multigas 110 gas cartridge (No. 1500000459), 2 Düsen (No. 1500000461), steel case (No. 1500000460)

Model		No.
Copper piece, hammer shape	250	<b>1000000514</b>
Copper piece, pointed shape	245	<b>1000000512</b>

Model		No.
MULTI MOBILE Set		<b>1000000390</b>
Multigas 110 gas cartridge	12	<b>1500000459</b>



## Cylinder Soft Soldering

**For soft soldering of copper pipes, for tin and lead soldering, for tinning, warming up, flame cleaning, etc.**



## 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.)
- 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 LH

## TECHNICAL DATA

- With longer ball spindle and dual spring control
- Favourable working pressure with 1.5 bar




No. 35486

Fig. Similar



Fig. Similar

Model	 kg	No.
MULTI 300 / Kit A without propane regulator	4.1	<b>35486</b>
MULTI 300 / Kit A with propane regulator (No. 242206000)	4.3	<b>35489</b>
MULTI 300 / Kit B	9	<b>35488</b>

**3-part set (No. 35486) 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. 242206000), 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)

## ACCESSORIES



Fig. Similar



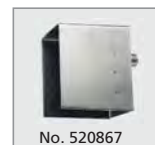
Fig. Similar



No. 520865



No. 520866



No. 520867



No. 32099



No. 32098 / 32075





No. E30856



No. 530857



No. 30027

Description		No.	Description		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	370	<b>32075</b>
Soft soldering iron with handle, iron burner,	570	<b>520840</b>	Soft soldering torch size 5, Ø 17 mm, M 15 x 1	70	<b>520856</b>
Iron Holder, wind protector, without copper head			Soft soldering burner size 7, Ø 20 mm, M 15 x 1	120	<b>520857</b>
Handle with hose coupling M 10 x 1 L	300	<b>520850</b>	Steel case	3390	<b>35487</b>
Iron Burner with coupling M 15 x 1	70	<b>520865</b>	Torch spanner	60	<b>35530</b>
Iron Holder with foot	100	<b>520866</b>	Safety igniter with rolling file	60	<b>32077</b>
Wind protector	100	<b>520867</b>	Replacement flints, tin with 5 pieces	15	<b>32088</b>
Copper Head 250 g flat	270	<b>32098</b>			

### 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



Ø 63 mm

L = 600 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. 30954) includes: Propane handle (No. 21511216), 63 mm high-performance torch (No. 223216300), 600 mm torch pipe (No. 236010000), 5.0 m propane hose (No. 32203), torch support (No. 252010000)

Model	g	No.
ROOFING-Set	1,920	<b>30954</b>
ROOFING-Set (as 30954, with Piezo ignition)	1,960	<b>030955X</b>
ROOFING-Set (as 30954, with pressure regulator 30925)	2,300	<b>30957</b>
Burner support	60	<b>252010000</b>

### Extensions

Special tube, chrome plated, angled 40°, inlet M 14 x 1, outlet M 20 x 1



L mm	g	No.	L mm	g	No.
100	90	<b>231010000</b>	350	190	<b>233510000</b>
200	120	<b>232010000</b>	600	290	<b>236010000</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 mm	g/h 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>223214500</b>
51	112	3800	48.60 – 41,800 – 165,970	270	<b>223215100</b>
57	126	5500	70.35 – 60,500 – 240,257	350	<b>223215700</b>
63	138	6700	85.70 – 73,700 – 292,670	440	<b>223216300</b>

# Bonding

## Accessories Cylinder Brazing / Soft Soldering

### Safety Propane Handles

With economy, regulating and shut-off valves, hose coupling G 3/8" LH

Model			No.
Safety Propane handle with push-in coupling	350	<b>211121116</b>	
Safety Propane handle with M 14x1 coupling	290	<b>211111116</b>	
Repair kit with shut-off valve, complete	10	<b>30101</b>	
Repair kit with regulating valve, complete	10	<b>30102</b>	




No. 211121116



No. 211111116

### Propane Regulators

Brass, for 0.5 kg, 5 kg and 11 kg cylinders

Inlet	Outlet	Working pressure Bar	Performance kg/h		No.
W 21,8x1/14" LH	G 3/8" LH	0,5 - 4,0	8	240	<b>32081</b>
G 3/8" LH	G 3/8" LH	0 - 6	8	200	<b>242206000</b>
W 21,8x1/14" LH	G 3/8" LH	4	8	230	<b>30925</b>



No. 32081




No. 242206000



No. 30925

### Propane Hoses

Top quality, DIN / DVGW tested, with strong inlay, durable and flexible, mounted with sleeves and nuts, up to 20 bar pressure (2 MPa)

L m	Inlet	Outlet	Pressure class	Interior-Ø mm Wall thickness		No.
2	G 3/8" LH	M 10 x 1 LH	ISO 3821	4,0 x 3,5	310	<b>30927</b>
2,5	G 3/8" LH	G 3/8" LH	ISO 3821	4,0 x 3,5	350	<b>32201</b>
5	G 3/8" LH	G 3/8" LH	ISO 3821	4,0 x 3,5	730	<b>33310</b>
10	G 3/8" LH	G 3/8" LH	EN 1327	5,0 x 3,5	1.650	<b>32223</b>



No. 30927




No. 32223

### 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		No.
G 3/8" LH	G 3/8" LH	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		No.
W 21.8 x 1/14" L	G 3/8" LH	160	<b>32207</b>



### Propane Lightweight Steel Cylinder

With cylinder valve, TÜV tested, according to TRG

Model	Outlet	Contents		No.
Small cylinder, 0.5 kg with foot	G 3/8" LH	empty	2.75	<b>33079</b>
Protective collar for 33079				<b>35636</b>
Cylinder 5 kg, with foot and cap		filled	12.60	<b>31081</b>
W 21.8 x 1/14" LH				



No. 33079

With 0.5 kg cylinder protective collar included in delivery



No. 31081



### 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

### Soldering without open flame!

Generously dimensioned stainless steel cooling ribs on both shanks of the tongs

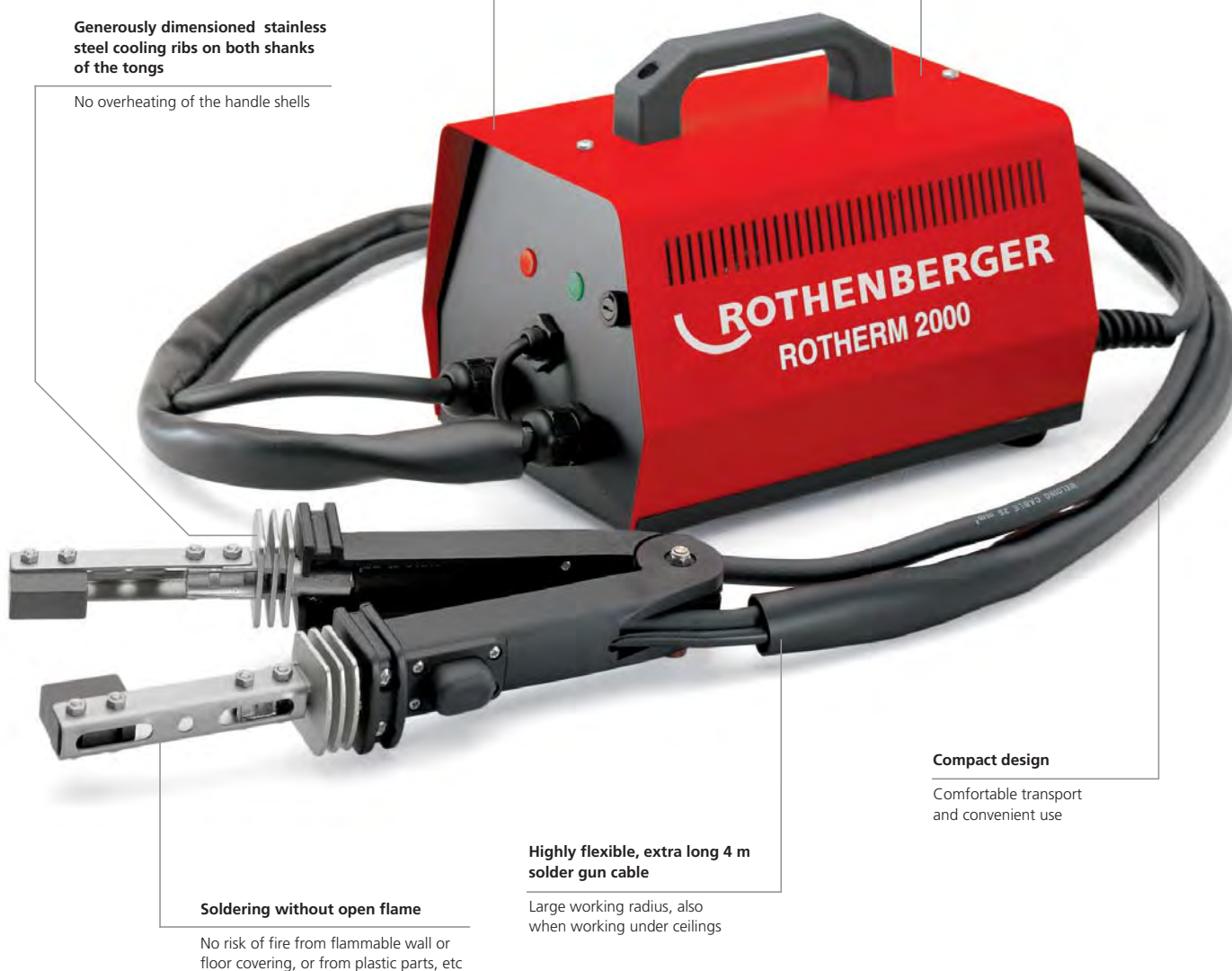
No overheating of the handle shells

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

# Bonding

## Electric Soft Soldering

### ROTHERM 2000 Soft Soldering Set

Electric soft soldering unit up to Ø 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



### ACCESSORIES



Model	No.	Model	
Flat electrode (pair)	36721	ROVLIES®	181
Flat electrode with holder (pair)	36711	External brush for copper pipe	181
Rod electrodes (pair)	36720	Soft soldering flux	183
Rod electrodes with holder (pair)	36710	Solders	183
		Internal brush for copper pipe	181

### ALLGAS 2000 Set

#### Mobile soldering and welding torch

Ideal mobile soldering and welding torch for plumbers, HVAC fitters, refrigeration technicians, automotive workshops and tinsmiths



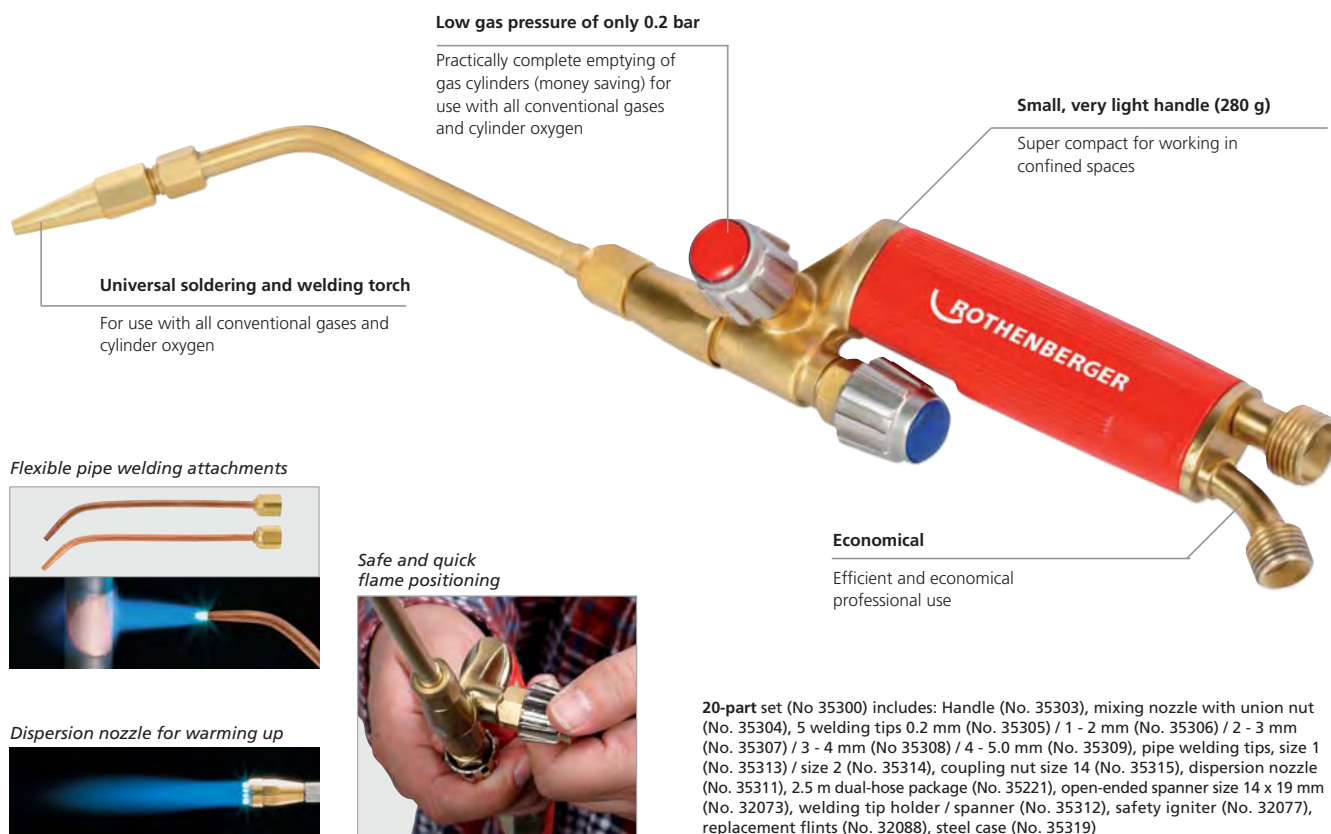
#### Product Profile

##### APPLICATION AREA

<b>Soldering range:</b>	up to 2.5 mm material thickness
<b>Welding range:</b>	0.2 - 5 mm
<b>Suitable for use with:</b>	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



**20-part set (No. 35300)** includes: Handle (No. 35303), mixing nozzle with union nut (No. 35304), 5 welding tips 0.2 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 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. 32077), replacement flints (No. 32088), steel case (No. 35319)

Model	Coupling oxygen	Coupling fuel gas	g	No.
ALLGAS 2000 Set (acetylene)			3.100	<b>35300</b>
Handle ALLGAS 2000	G 1/4" RH	G 3/8" LH	280	<b>35303</b>
Mixing nozzle with union nut			40	<b>35304</b>

#### Welding tips, Welding attachments

Size	Welding range mm	g	No.
Welding tip size 1	0.2 - 1.0	10	<b>35305</b>
Welding tip size 2	1.0 - 2.0	10	<b>35306</b>
Welding tip size 3	2.0 - 3.0	10	<b>35307</b>
Welding tip size 4	3.0 - 4.0	10	<b>35308</b>
Welding tip 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>
Flexible welding tip size 1	2.0 - 3.0	40	<b>35313</b>
Flexible welding tip 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 178



Fig. ALLGAS 2000 Set



# Bonding

## Gas-Welding

### 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

**With safety devices  
to prevent flashbacks**

24-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. 242206000), 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), flexible welding tip 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), oxygen safety device (No. 1000000633), fuel gas safety device (No. 1000000631), 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  178		

Carrying comfort



### 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	g	No.
Welding tip size 1	0.2 - 1.0	10	<b>35305</b>
Welding tip size 2	1.0 - 2.0	10	<b>35306</b>
Welding tip size 3	2.0 - 3.0	10	<b>35307</b>
Welding tip size 4	3.0 - 4.0	10	<b>35308</b>
Welding tip 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>



No. 35311



No. 35312

### Flexible Pipe Welding Attachments

Size	Welding range mm	g	No.
Flexible welding tip size 1	2.0 - 3.0	40	<b>35313</b>
Flexible welding tip size 2	4.0 - 5.0	40	<b>35314</b>
Coupling / union nut, size 14		10	<b>35315</b>



### ALLGAS Mobile Pro

#### Mobile brazing equipment with safety devices

For brazing of iron, steel, sheet steel, pipes and non-ferrous metals



#### Product Profile

##### KEY FEATURES

- Mobile brazing set with a total weight lower than 6 kg incl. cartridges
- High quality safety devices for both gas hoses to prevent flashbacks
- MAPP®-gas pressure regulator with an adjustable range of 0 - 2 bar for a constant, low consumption and an efficient flame adjustment

##### TECHNICAL DATA

<b>Gas:</b>	MAPP®-gas with oxygen (disposable)
<b>Flame temperature:</b>	over 3,100 °C
<b>Working temperature:</b>	1,300 °C

#### Accessories included in the set



#### MAPP®<sup>1)</sup> and oxygen

Flame temperature  
above 3,100 °C

#### Welding and brazing torch

Including 5 interchangeable  
nozzles and a bendable welding  
attachment for a material  
thickness up to 5 mm

#### High quality safety devices

Reliable prevention of  
gas returns and flashbacks

#### Pressure reducer 0 - 2 bar

Constant, low consumption  
and efficient flame adjustment

#### Total weight < 6 kg

High mobility on  
construction site

#### High quality rubber hoses

20 bar, DIN EN ISO 3821  
certified, length: 2,5 m

Model	kg	No.
ALLGAS Mobile Pro 1" US, w/o cartridges	3.86	1000000529
ALLGAS Mobile Pro 1" US, incl. cartridges	5.95	1000000743
ALLGAS Mobile Pro 7/16" EU, w/o cartridges	3.86	1000000642
ALLGAS Mobile Pro 7/16" EU, incl. cartridges	5.70	1000000558
MAPP® <sup>1)</sup> Gas 1" US, 750 ml	0.67	35698
MAPP® <sup>1)</sup> Gas, 7/16" EU, 750 ml	0.67	035551-A
Oxygen, 110 L	1.20	35750

1) MAPP® is a registered trademark of the MESSER Group GmbH, Bad Soden

# 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. 242206000), 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), propane cylinder 0.5 kg (empty) (No. 33079), 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 <b>178</b>		

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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. 035780X) includes:** Handle with fine regulating valve (No. 35580), Maxigas 400 (No. 035570-A), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 263003700), 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. 1000000633), gas blowback protection (No. 35691), mixing nozzle with union nut (No. 35587), high-performance tips 1.5 mm (No. 263005600) / 2.0 mm (No. 263005400), 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>035780X</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>263005700</b>
ROXY micro-nozzle for 0.7-0.9 sheet metal	0.06	<b>263005800</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!



### 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)

Model	kg	No.
ROFLASH Set	4.2	513300



Fig. Similar



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



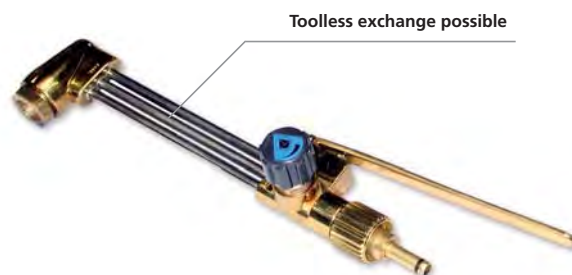
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### ROFLASH Spring-lever Cutting Attachment

#### 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 spring-lever cutting attachment	582	513310
ROFLASH cutting tips 3 - 6 mm	97	513330
ROFLASH cutting tips 6 - 20 mm	97	513331
ROFLASH cutting tips 20 - 75 mm	98	513332



Toolless exchange possible

### 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



The bottle colours shown are without obligation!

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 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 12-100 mm (No. 35339), 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 5 l (filled) (No. 35178), oxygen cylinder 5 l (filled) (No. 35188), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 263003700), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354), 5 m dual-hose package A / S (No. 35222), steel case (No. 35800)

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



7



Including dual-telescoping  
transport trolley!

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 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 12-100 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), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 263003700), 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 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 12 - 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. 035570-A), gas regulating valve Maxigas (No. 263003700), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)



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>

The bottle colours shown are without obligation!

### 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), flexible pipe-welding tips 2 - 4 mm (No. 35347) / 4 - 6 mm (No. 35348), wing-lever cutting attachment (No. 35338), Cutting tip 12 - 25 mm (No. 35341), Heating nozzle 12 - 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), 9-14 mm (No. 35334) / cutting tip 12-25 mm (No. 35341), 25-50 mm (No. 35344), without flexible		
pipe-welding tips 2-4 mm (No. 35347) / 4-6 mm (No. 35348)		
Steel case RE 17 (empty)	1.70	<b>35800</b>
RE 17 handle with burner coupling nut	0.47	<b>35324</b>
Coupling: oxygen G 1/4" RH, gas G 3/8" LH		




No. 35480



No. 35324

### RE 17 Welding Attachments



	Welding range mm	 g	No.
Welding attachment	0.5 - 1.0	140	<b>35325</b>
Welding attachment	1.0 - 2.0	150	<b>35326</b>
Welding attachment	2.0 - 4.0	170	<b>35327</b>
Welding attachment	4.0 - 6.0	190	<b>35328</b>
Welding attachment	6.0 - 9.0	220	<b>35329</b>
Welding attachment	9.0 - 14.0	260	<b>35334</b>



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### RE 17 Pipe Welding Attachment, Flexible

Pipe welding attachment, Flexible copper tips complete

Welding range mm	 g	No.	Welding range mm	 g	No.
2.0 - 4.0	140	<b>35347</b>	1.0 - 2.0	40	<b>35475</b>
4.0 - 6.0	150	<b>35348</b>	2.0 - 4.0	40	<b>35476</b>
			4.0 - 6.0	50	<b>35477</b>

Pipe welding attachment, front piece




Pipe welding attachment, complete

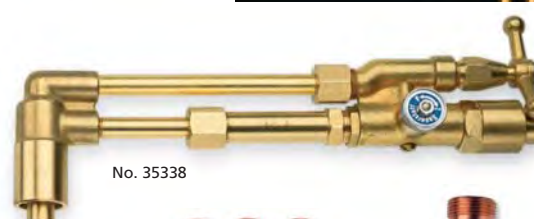
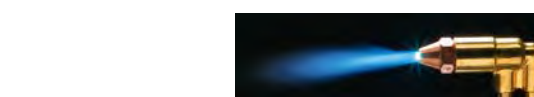


### RE 17 Wing-lever Cutting Attachment

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	12 - 25	10	<b>35341</b>
Cutting tip	25 - 50	20	<b>35344</b>
Cutting tip	50 - 100	20	<b>35345</b>
Heating nozzle	12 - 100	50	<b>35339</b>



No. 35338

No. 35341  
No. 35344  
No. 35345

No. 35339





### Oxy-Acetylene Hoses

Top quality in accordance **with ISO 3821** (former EN 559), with strong inlay, durable and flexible, rubber, mounted with sleeves and nuts

### Oxygen Hoses

L m	Inlet	Outlet	Internal Ø x wall thickness mm	kg	No.
2.5	G 1/4" RH	G 1/4" RH	6.3 x 3,5	0.5	<b>35210</b>
5.0	G 1/4" RH	G 1/4" RH	6.3 x 3.5	1.1	<b>33311</b>

### Acetylene Hoses

L m	Inlet	Outlet	Internal Ø x wall thickness mm	kg	No.
2.5	G 3/8" LH	G 3/8" LH	6.3 x 3.5	0.5	<b>35203</b>
5.0	G 3/8" LH	G 3/8" LH	6.3 x 3.5	1.1	<b>33312</b>

### Dual Hoses A/S

L m	Coupling Oxygen	Coupling Acetylene	Internal Ø x wall thickness mm	kg	No.
2.5	G 1/4" RH	G 3/8" LH	6.0 x 3.5	0.9	<b>35221</b>
5.0	G 1/4" RH	G 3/8" LH	6.0 x 3.5	2.0	<b>35222</b>
10	G 1/4" RH	G 3/8" LH	6.0 x 3.5	3.8	<b>35223</b>



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 tested in accordance with TRGI

Model	Contents	Filling pressure bar	Height mm	Ø mm	kg	No.
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>

### Cylinder Pressure Reducer

Rugged pressed brass construction with large pressure gauge according to ISO 5171, with shut-off and safety valves, cylinder pressure reducer with bow coupling according to DIN 477-1

Cylinder contents bar	Working pressure bar	Inlet	Outlet	kg	No.
Oxygen					
0 - 200	0 - 10	G 3/4" RH	G 1/4" RH	1.4	<b>35634</b>
Acetylene					
0 - 40	0 - 1.5	clamp RH	G 3/8" LH	1.6	<b>35794</b>



No. 35634



No. 35794



### Blowback Prevention

Torch-mounted safety devices (flashback arrestors), type-tested, with flame trap, flow lock, non-return valve and dirt filter

Model	max. Operating pressure	Coupling-thread	g	No.
Handle-mounted, oxygen	25.0 bar	G 1/4" RH	90	<b>540320</b>
Handle-mounted, acetylene	1.5 bar (Ace)	G 3/8" LH	110	<b>540321</b>
	5.0 bar (propane/CNG)			
Reducer-mounted, oxygen	20.0 bar	G 1/4" RH	150	<b>540360</b>
Reducer-mounted, acetylene	1.5 bar (Ace)	G 3/8" LH	160	<b>540365</b>
	4.0 bar (propane/CNG)			
Reducer-mounted, oxygen	20.0 bar	G 1/4" RH	120	<b>1000000633</b>
Reducer-mounted, fuel gas	1.5 bar (Ace)	G 3/8" LH	120	<b>1000000631</b>
	5.0 bar (propane/CNG)			
Handle-mounted, oxygen	20.0 bar	G 1/4" RH	100	<b>1000000764</b>
Handle-mounted, fuel gas	1.5 bar (Ace)	G 3/8" LH	100	<b>1000000762</b>
	4.0 bar (propane/CNG)			



No. 540320



No. 540321



No. 540360



No. 540365



No. 1000000633



No. 1000000631



No. 1000000764



No. 1000000762

### Protective Guard for Pressure Reducer

Impact protection, rugged steel construction, mounts on connection coupling

Model	Colour	g	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	g	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 200 bar

Model	g	No.
max. 200 bar, cylinder coupling G 3/4"	360	<b>35199</b>



### Safety Igniters

Powerful spark, wear-free hard alloy friction surface

Model	g	No.
Safety Igniter with rolling file	60	<b>32077</b>
Replacement flints, tin with 5 pieces	15	<b>32088</b>



No. 32077



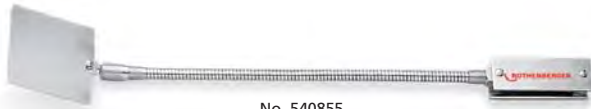
No. 32088

# 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	1	15	<b>530310</b>



### Soapstone Marker

Model	L x W x H		g	No.
White, heat-resistant	100 x 10 x 10 mm	10	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>
	clear, non-splintering	60	<b>540622</b>
Replacement glass (pair)	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>		18	140	<b>854195</b>
	12	100	<b>854191</b>		22	150	<b>854196</b>
	15	120	<b>854193</b>		28	160	<b>854197</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 700° C

- Permanent heat resistance up to 600° by direct flame contact and molten slag
- Good formability, long service life, asbestos-free and poses no health hazard
- Bonded edges

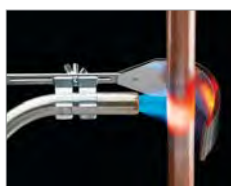
Thickness: 1.4 mm  
Weight: 1,000 g/m<sup>2</sup>




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>

### 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 ISO

Standard type according to ISO 17672	Solder composition in weight %	Melting range °C	Working temperature °C	Suitable for installation technology brazing			Recommended Flux according to DIN EN 1045	Recommended heat source
				Pipe Material	Fittings material	Flux		
<b>CuP 179</b>	Cu 93,8 / P 6,2	710 - 880°	730°	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	Cartridge torch with MAPP® <sup>1)</sup> Gas, Propane / induced-air torch, Acetylene / induced-air torch, Larger pipe diameters above 28 mm with propane / oxygen torch with dispersion nozzle
<b>CuP 279</b>	Ag 2 / Cu 91,7 / P 6,3	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
<b>CuP 281</b>	Ag 5 / Cu 89 / P 6	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
<b>CuP 284</b>	Ag 15 / Cu 80 / P 5	650 - 800°	710°	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
<b>Ag 134</b>	Ag 34 / Cu 36 / Zn 27,5 / Sn 2,5	630 - 730°	710°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 or LP 5	
<b>Ag 145</b>	Ag 45 / Cu 27 / Zn 25,5 / Sn 2,5	640 - 680°	670°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 or LP 5	

7

### Soldered Joints

Material	Required Hard Solder	Melting Range	Working Temperature	Standard
<b>Copper-Copper</b> 	S 34 Cu / S 34 Cu U S 94 S 2 / S 5 S 15	630 °C - 730 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 800 °C	710 °C 730 °C 710 °C 710 °C	DIN EN ISO 17672 (former DIN EN 1044)
<b>Copper-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN ISO 17672 (former DIN EN 1044)
<b>Copper-Brass</b> 	S 94 S 2 S 5 S 15	710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN ISO 17672 (former DIN EN 1044)
<b>Brass-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	600 °C - 690 °C 595 °C - 630 °C	680 °C 610 °C	DIN EN ISO 17672 (former DIN EN 1044)
<b>Brass-Brass</b> 	S 94 S 2 / S 5 S 15	710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 710 °C 710 °C	DIN EN ISO 17672 (former DIN EN 1044)
<b>Carbon Steel-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN ISO 17672 (former DIN EN 1044)

1) MAPP® is a registered trademark of the MESSER Group GmbH, Bad Soden

### Fittings Solders

Quality soft solders according to **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



No. 45252


### 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>

### 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 soldering flux according to **DIN EN ISO 9453** and **DIN EN 29454-1, 3.1.1.C**, with **DVGW test mark 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 jar 35 ml	35	<b>45266</b>





### Hard Solder Rings S 2

High-quality safety solder material with silver-phosphorus content, guaranteed according to DIN EN ISO 17672, CuP 279

#### KEY FEATURES

- Ideal for capillary soldering with copper pipe installation in sanitary and heating systems
- Matched precisely to the inner pipe diameters of expanded sockets and fittings according to **EN 1254**
- Complete wetting of soldering gaps
- 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

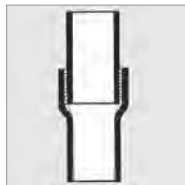
Simple insertion



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 2, Ø 12 mm	395	260	<b>40512</b>
Hard solder rings S 2, Ø 14 mm	268	260	<b>40514</b>
Hard solder rings S 2, Ø 15 mm	244	260	<b>40515</b>
Hard solder rings S 2, Ø 16 mm	228	260	<b>40516</b>
Hard solder rings S 2, Ø 18 mm	186	260	<b>40518</b>
Hard solder rings S 2, Ø 22 mm	106	260	<b>40522</b>
Hard solder rings S 2, Ø 28 mm	79	260	<b>40528</b>

### Hard Solder Paste LP 5

Flux for hand soldering at working temperatures above 600 °C, according to DIN EN 1045, Type FH 10, 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	Type	g	No.
LP 5 in plastic bottle 160 g	160 g	180	<b>40500</b>



### Hard Solder Powder HKM

Flux for hard soldering at working temperatures above 800 °C, according DIN EN 1045 - FH 21, working temperature 800 °C – 1,100 °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. Free of boric acid.

Description	g	No.
HKM in plastic bottle 50 g	65	<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 CuP 179

Quality hard solder **guaranteed according to DIN EN ISO 17672**, 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>	Cu 93,8 / P 6,2
<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



Contents	Squared section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	<b>40094</b>
400 g blister	2 x 2	500	420	<b>1000000133</b>

### ROLOT® S 94 XN CuP 179

Quality brazing solder, **guaranteed according to DIN EN ISO 17672**, 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>	Cu 93,8 / P 6,2
<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



Contents	Squared section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	<b>040097X</b>

### ROLOT® S 1

Special quality brazing solder, not standardised, **similar to DIN EN ISO 17672**, 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		No.
1 kg carton	2 x 2	500	1,025	<b>40202</b>
400 g blister	2 x 2	500	420	<b>1000000135</b>


### ROLOT® S 2

Special quality hard solder, not standardised, **similar to DIN EN ISO 17672**, 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



Contents	Square mm	Length mm		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>

### ROLOT® S 2


### CuP 279

Silver / phosphorus safety hard solder, **guaranteed according to DIN EN ISO 17672**, for higher-stressed copper pipe systems, ideal for capillary soldering in sanitary, heating and gas installations

#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 2 / Cu 91.7 / P 6.3
<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



Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40502</b>
400 g blister	2 x 2	500	420	<b>1000000137</b>


### ROLOT® S 5

Particularly high quality hard solder, not standardised, **similar to DIN EN ISO 17672**, 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



Contents	Square mm	Length mm		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 5

### CuP 281

High-quality silver/phosphorus safety hard solder, **guaranteed according to DIN EN ISO 17672**, 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 5 / Cu 89 / P 6
<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 CuP 284

Particularly high quality silver hard solder, **guaranteed according to DIN EN ISO 17672**, especially for capillary-gap soldering subject to high thermal and mechanical alternating loads in HVAC systems, as well as demanding sanitary and gas installations



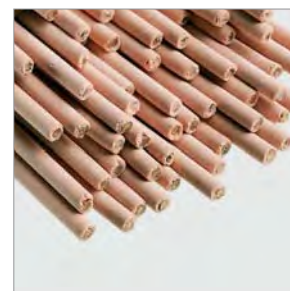
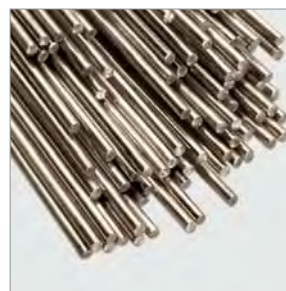
#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 15 / CU 80 / P 5
<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 134 S 34 Cu / S 34 Cu U flux-covered

**Free of cadmium**, quality silver hard solder **guaranteed according to DIN EN ISO 17672**, plain (S 34 Cu) or flux-covered **according to DIN EN1045 FH 10** (S 34 Cu U), universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C



#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 34 / Cu 36 / Zn 27.5 / Sn 2.5
<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 145 S 45 Cu / S 45 Cu U flux-covered

**Free of cadmium**, quality silver hard solder, **guaranteed according to DIN EN ISO 17672**, plain (S 45 Cu) or flux-covered **according to DIN EN 1045, Type FH 10** (S 45 Cu U), universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C



#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 45 / Cu 27 / Zn 25.5 – 3.5 / Sn 2.5
<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, stainless steel
<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>

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professionals!

8







# Testing & Leak Detection

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# Testing & Leak Detection

## Overview Testing Pumps

Precision Testing Pumps manual			
	<div>RP 50-S / RP 50-S INOX</div> 	<div>TP 25</div> 	<div>RP 30</div> 
Testing & Pressure range:	0 - 60 bar	0 - 25 bar	0 - 30 bar
Hub suction capacity:	45 ml / stroke	16 ml / stroke	16 ml / stroke
Tank capacity:	12 l	7 l	4,5 l
Connection:	R1/2"	R1/2"	R1/2"
Dimension:	720 x 120 x 260 mm	380 x 215 x 156 mm	440 x 200 x 240 mm
Weight:	8 kg	4,6 kg	4,5 kg
Material:	DURAMANT® coated Steel	DURAMANT® coated Steel	ABS Plastic
Valve:	Twin-valve	Twin-valve	–
Pressure Gauge units:	bar, psi, Mpa	bar, psi	bar, psi
Suitable for:	Oil, Water and Glycol	Oil, Water and Glycol	Oil, Water and Glycol
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Testing Pumps electric	
	<div>RP 50-S / RP 50-S INOX</div> 
Testing & Pressure Range:	0 - 40 bar
Flow rate:	6 l / min.
Tank capacity:	–
Connection:	R1/2"
Dimensions:	375 x 290 x 300 mm
Weight:	16 kg
Material:	ABS Plastic
Valve:	Single valve
Pressure Gauge units:	bar, psi, Mpa
Gauge characteristics:	Glycerine cushioned
Suitable for:	Oil, Water und Glycol
Page	192

# Testing & Leak Detection

## Testing of Water Lines & Containers

### RP 50-S / RP 50-S INOX

Robust precision testing pump for pressure testing of water lines and containers up to 60 bar with very high testing standards

Adjustment of the pressure gauge with 0.1 bar scaling 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 0 - 860 psi, with 20 psi steps 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)

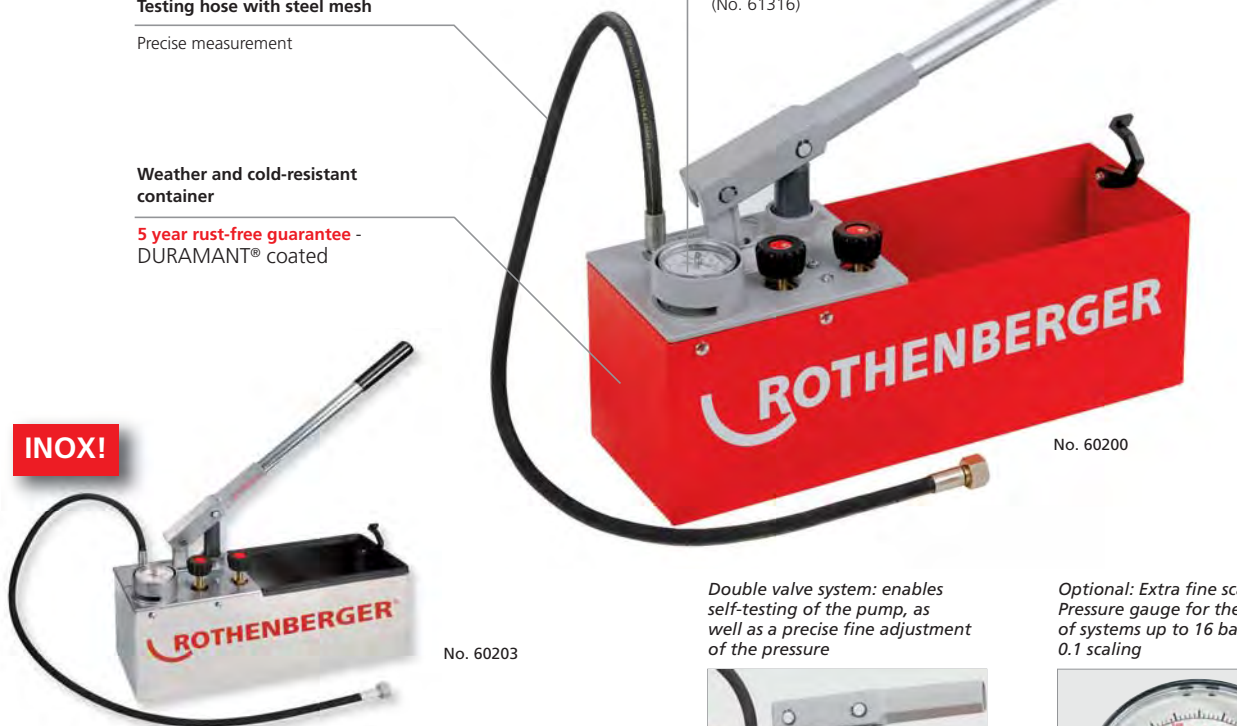
#### Testing hose with steel mesh

Precise measurement

#### Weather and cold-resistant container

5 year rust-free guarantee - DURAMANT® coated

INOX!



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			No.
RP 50-S Testing Pump	8	1	4	60200
RP 50-S INOX (stainless steel) Testing Pump	8	1	4	60203

#### ACCESSORIES

Model	kg		No.	Model	kg		No.
Maintenance package	100	1	60201	High pressure hose with 1/4"-1/2" connection	490	1	R6112500
Double nipple 1/2" to 3/4"	100	1	60999	Extra 16 bar pressure gauge with drag indicator R1/4"	100	1	61316

# Testing & Leak Detection

## Testing of Water Lines & Containers

### RP PRO III

Self-priming electric 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 up to a maximum of 1 m or from a pressure source. Suitable for oil, water and glycol
- 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**

**Testing and pressure range:** 0 - 40 bar, with 1 bar steps  
0 - 570 psi, with 20 psi steps  
0 - 0.1 MPa steps

**Flow Rate:** max. 6 l / min

**Dimensions (L x W x H):** 375 x 290 x 300 mm

**Connection:** R 1/2"

**Mains voltage:** 220 - 240 V / 50 HZ and  
110 V / 50 - 60 HZ

**Performance:** 1.3 kW

**Container:** ABS-plastic

**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

**Thermal automatic shutdown**

Prevents overloads and damage to the pump


**Installation diagram on unit**


Eases the direct connection

**Function Overview**

Direct overview of the functions

**No. 61185**

Model		110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose	16.0	12110016	61185
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4		V12102000
Extra pressure gauge	0.8		61187
Maintenance package RP PRO III in scope of delivery			61186

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# Testing & Leak Detection

## Testing of Water Lines & Containers



### 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



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>R6112500</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	TECHNICAL DATA
<b>APPLICATION AREA</b> Analogue testing unit for the implementation of the following tests: <b>Gas:</b> 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 <b>Water:</b> Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)	<b>Pressure gauge:</b> 4 bar <b>Water column:</b> 150 mbar <b>Testing accuracy:</b> Water column 0.1 mbar (Reading accuracy in accordance with TRGI) Pressure gauge 0.1 bar (Display range 0 - 4 bar)
<b>KEY FEATURES</b> <ul style="list-style-type: none"> <li>Quick and precise pressure reading over water column without electronic</li> <li>Testing time and pressures in accordance with DVGW - TRGI and TRWI clearly arranged on unit cover</li> <li>Sturdy unit: High reliability when used on the building site</li> </ul>	

DVGW-TRGI / worksheet G600/April 2008 conforming!

8

**Legible scaling**

Continuous scaling up to 150 mbar

**Measurement chart in unit**

Testing times and testing pressure from lawmakers at a glance

**Inspection glass**

Water level control

**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

Testing scale up to 150 mbar on transparent extending tube element


Transparent tube element with double o-ring seal

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 without supply end cap (with No. 1-5, 7-14, 16-17)	7.3	<b>61701</b>

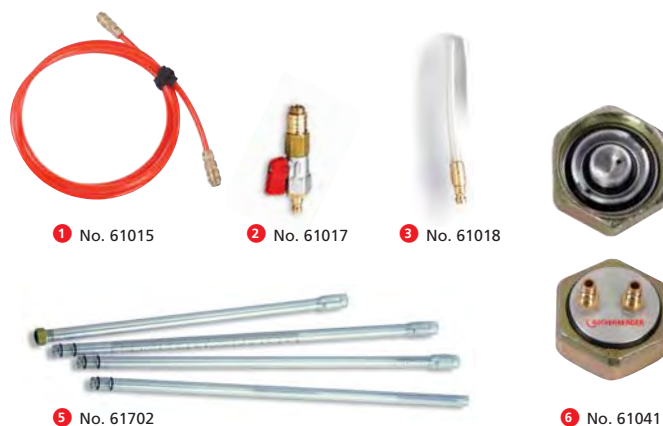
# Testing & Leak Detection

## Testing of Gas & Water Lines

### Set Components


Description	ET		No.
Connecting hose	1	130	61015
Cut-off valve, gas	2	125	61017
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	500	61011
Spare manometer R 1/4"	9	75	61012
Double nipple for hose connection	10	100	H96591
Measurement fluid, blue	11	100	351257
Adaptor 1/2"		50	61067


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.		No.
Conical shape with pneumatic connection					
Size 0	3/8 - 1/2"	15 - 18		45	351260
Size 1	1/2 - 1"	22 - 28		80	351261
Size 2	3/4 - 1.1/4"	35 - 42		125	351262
Size 3	1.1/4 - 2"	54 - 64		175	351263

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.		No.
Cylindrical shape with pneumatic connection					
Size 1	3/4"	22		60	351271
Size 2	1"	28		75	351272

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.		No.
Conical shape with hose coupling					
Size 0	3/8 - 1/2"	15 - 18		200	351220
Size 1	1/2 - 1"	22 - 28		300	351221
Size 2	3/4 - 1.1/4"	35 - 42		300	351222
Size 3	1.1/4 - 2"	54 - 64		400	351223

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.		No.
Conical shape with 2 ball valves					
Size 1	1/2 - 1"	22 - 28		260	351231
Size 2	3/4 - 1.1/4"	35 - 42		420	351232
Size 3	1.1/4 - 2"	54 - 64		700	351233

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.		No.
Conical shape with 1 ball valve					
Size 0	3/8 - 1/2"	15 - 18		200	351225
Size 1	1/2 - 1"	22 - 28		350	351226
Size 2	3/4 - 1.1/4"	35 - 42		390	351227
Size 3	1.1/4 - 2"	54 - 64		600	351228

Model	Parts-No.		No.
With double plug valve - with hose snout			
Adaptor/cut-off valve with pn. connection	290		351265



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# 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



No. 61340

##### 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:** 1,5 bar

**Push rod length:** 10 m

**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. 91123), plastic case inlay for upright pump (No. 91122)

Model	kg		No.	Ø Testing/Sealing balloon	Testing balloon No.	Sealing balloon No.
House Connection Test	7,8	1	<b>61340</b>	Ø 65 - 100 mm	<b>61358</b>	—
				Ø 75 - 150 mm	<b>61359</b>	<b>61352</b>
				Ø 90 - 250 mm	<b>61360</b>	<b>61353</b>

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### ROLeak Aqua Plus

Easy to use leak detection device with acoustic signal signal for pipe systems

#### Product Profile

##### KEY FEATURES

- Leak detection for various pipe materials
- Amplifies flow noise for exact detection of leaks



Acoustic Leak detection of heating installations



##### KEY FEATURES

- Wireless signal transmission to headphone
- Digital Display of the Volume
- Simplified two-button usage

##### TECHNICAL DATA

**3-staged Frequency filter:** 1. Stage: 0 - 540 Hz  
2. Stage: 540 - 4.000 Hz  
3. Stage: 0 - 4.000 Hz

**Operating time:** ca. 50 h

**Weight:** 300 g (Handheld device)

**Level of protection:** IP 41

**Improved Sound compared with previous models!**

**6-parts Set (1500000922) includes:** Basic Unit, Headphones, Magnetic adaptor, 2 x Extensionstick, Tripod-adaptor, Plastic case

Model	kg	No.
ROLeak Aqua Plus	1,6	<b>1500000922</b>

# Testing & Leak Detection

## Leak Detection on Gas Lines



### ROTEST® Electronic 3

Leak detection on gas lines

#### Product Profile

##### APPLICATION AREA

For the detection of gas in room, as well as leaks in pipes. Detects all flammable methane based gases

##### KEY FEATURES

- Leaks are optically as well as acoustically displayed
- 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
- Quick and precise leak location of even the smallest leak source: The sensitivity of the unit can be adjusted continuously in a range from < 50 ppm - 1 Vol %
- Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site
- Optical display of battery status



Set (No. 66080) includes:  
ROTEST® Electronic 3, 9 V battery, plastic carrying case (No. 66085)

Model	kg	No.
ROTEST® Electronic 3	1,5	66080

##### TECHNICAL DATA

**Detects:** Natural gas, propane, butane, methane, acetone, alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel, paint thinner, naphtha, toluene

**Sensitivity:** < 50 ppm – 1 Vol % (Methan)

**Power supply:** 1 x 9 Volt block battery, type SLM 9 V



Finds leaks easily



8

### ROTEST®

Leak detection on gas lines

#### Product Profile

##### APPLICATION AREA

Ideal for detecting leaks in gas-filled lines, gas cylinders or containers. When a leak is present a blister forms

##### KEY FEATURES

- Simple use - always ready to use
- Highly sensitive foaming spray for a quick and reliable locating of leaks

##### TECHNICAL DATA

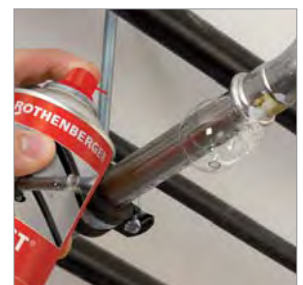
Detects gases (for example natural gas, inflammable gas, air)  
The leak detection spray is neutral against the most common inflammable gases and refrigerants. The only reaction is the building of foam

Model	Content	g	No.
ROTEST® Leak Detection Spray 400 ml	470	1	65000
ROTEST® Leak Detection Spray 400 ml	470	12	1000000442

Highly sensitive foam spray:  
Quick and reliable location of leaks!



DVGW-tested  
Reg.-No. NG-5170CL0063



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professionals!





# Freezing

Freezing electric

Pipe freezing systems

200 - 202

Freezing with Gas

Pipe freezing systems





203



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# Freezing

## System Overview

	Freezing electric		Freezing with Gas	
	ROFROST® TURBO 1.1/4"	ROFROST® TURBO 2"	ROFROST® Dry Ice	ROFROST® Handy
				
Working range Cu:	10 - 42 mm (3/8 - 1.3/8")	10 - 54 mm (3/8 - 2.1/8")	10 - 54 mm (1/2 - 2.1/8")	15 - 28 mm
Working range Fe:	1/8 - 1.1/4"	1/8 - 2"	1/8 - 2"	1/4 - 3/4"
Reduction inserts:	up to 12 pcs.	up to 15 pcs.	up to 10 pcs.	4 pcs.
Freezing hose:	2,5 m	2,5 m	2 m	–
Refrigerant:	R 404 A	R 404 A	CO <sub>2</sub> (R 744)	R 134 A
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### ROFROST® TURBO 1.1/4" / ROFROST® TURBO 2"

Pipe freezing system for copper, steel, stainless steel and plastic composite pipes



Temperature display easy to read and rotatable

Safe, controlled freezing and monitoring

**Simple and flexible use in all situations!**



**Simple clamping system**  
For use even in confined spaces

**Compact design**  
Portable use, optimal for service industry

For pipes with Ø 10 mm - 54 mm  
Reduction inserts in various sizes



### ROFROST® TURBO 1.1/4"

Pipe freezing system for copper, steel, stainless steel and plastic composite pipes



Product Profile	
APPLICATION AREA	
Maintenance, repair and expansion work in sanitary and heating installations	
<b>Copper pipes:</b>	<div>Ø 10 - 42 mm      ROFROST® TURBO 1.1/4"</div> <div>Ø 3/8 - 1.3/8"      ROFROST® TURBO 1.1/4"</div>
<b>Steel pipes:</b>	Ø 1/4 - 1.1/4"      ROFROST® TURBO 1.1/4"
Plastic pipes, as well as multi-layered composite pipes	
KEY FEATURES	
<ul style="list-style-type: none"> <li>Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen</li> <li>Reduction inserts in various sizes for all common pipe diameters</li> <li>With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem</li> <li>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</li> </ul>	



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>
Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII		<b>62230</b>
additional sets upon request		

### ROFROST® TURBO 2"

Pipe freezing system for copper, steel, stainless steel and plastic composite pipes



Product Profile	
APPLICATION AREA	
Maintenance, repair and expansion work in sanitary and heating installations	
<b>Copper pipes:</b>	<div>Ø 10 - 54 mm      ROFROST® TURBO 2"</div> <div>Ø 3/8 - 2.1/8"      ROFROST® TURBO 2"</div>
<b>Steel pipes:</b>	Ø 1/4 - 2"      ROFROST® TURBO 2"
Plastic pipes, as well as multi-layered composite pipes	
KEY FEATURES	
<ul style="list-style-type: none"> <li>Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen</li> <li>Reduction inserts in various sizes for all common pipe diameters</li> <li>With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem</li> <li>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</li> </ul>	

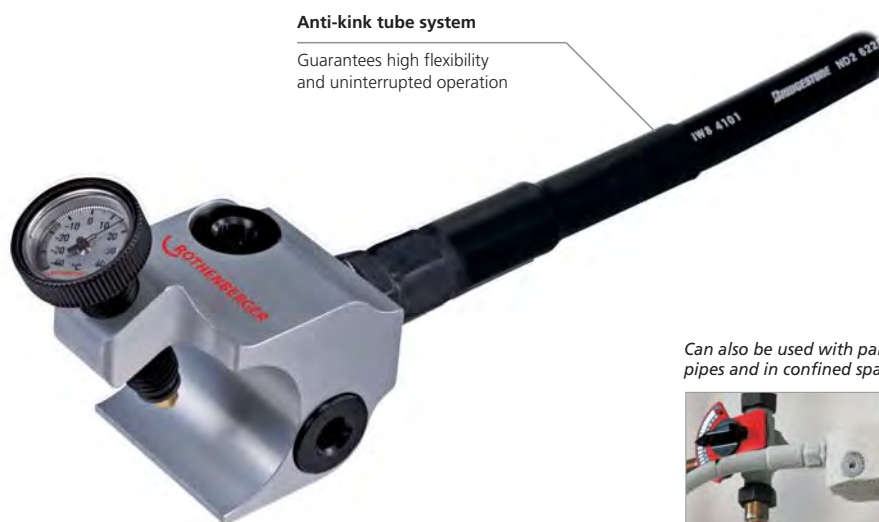


Model		230 Volt 50/60 Hz
ROFROST® TURBO 2" with reduction inserts size A, E, F, G (see ROFROST® reduction insert overview)	25.6	<b>62203</b>
ROFROST® TURBO 2" with reduction inserts size II, III, V, VII, A, E, F, G (see ROFROST® reduction insert overview)	25.8	<b>62206</b>
Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII		<b>62230</b>
additional sets upon request		

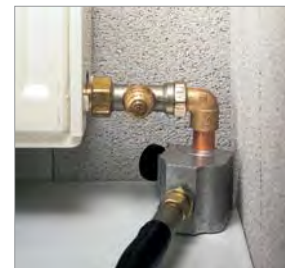


# Freezing

## Freezing Electric



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



## ROFROST® TURBO Reduction Inserts



9

### ROFROST® TURBO 1.1/4"

Reduction insert					No.
Size	Nominal size Cu	Nominal size Cu	Nominal size Fe		
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					No.
Size	Nominal size Cu	Nominal size Cu	Nominal size Fe		
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>

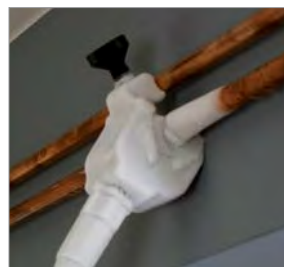
The reduction insert size E, 42 mm serves as an adaptor piece for fitting ROFROST® TURBO 1.1/4" reduction inserts size I – size XII

## ROFROST® Heat Conductive Paste



No. 62291

For a perfect freezing result



Heat conductive paste enables fully automatic freezing without spraying!

Description			No.
ROFROST® Heat Conductive Paste	150 ml	130	1 <b>62291</b>

### 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 - 54 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		No.
Ø mm	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		No.
	Ø mm	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		No.
	Ø mm	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	-	-	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-part 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)

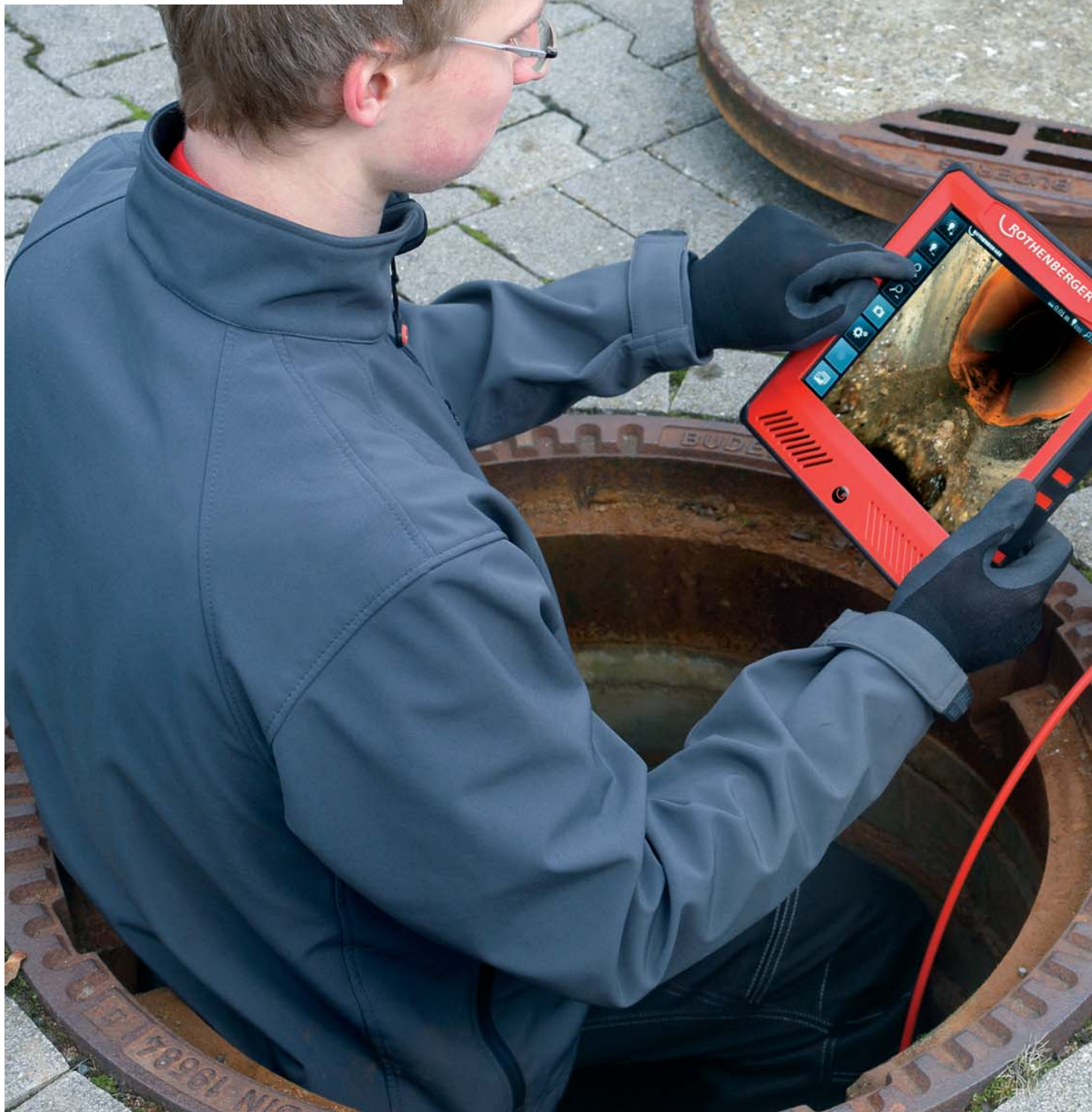


Model		No.
ROFROST® Handy	2,400	<b>64020</b>
Quick Freeze Freezing Spray	500	<b>64001</b>

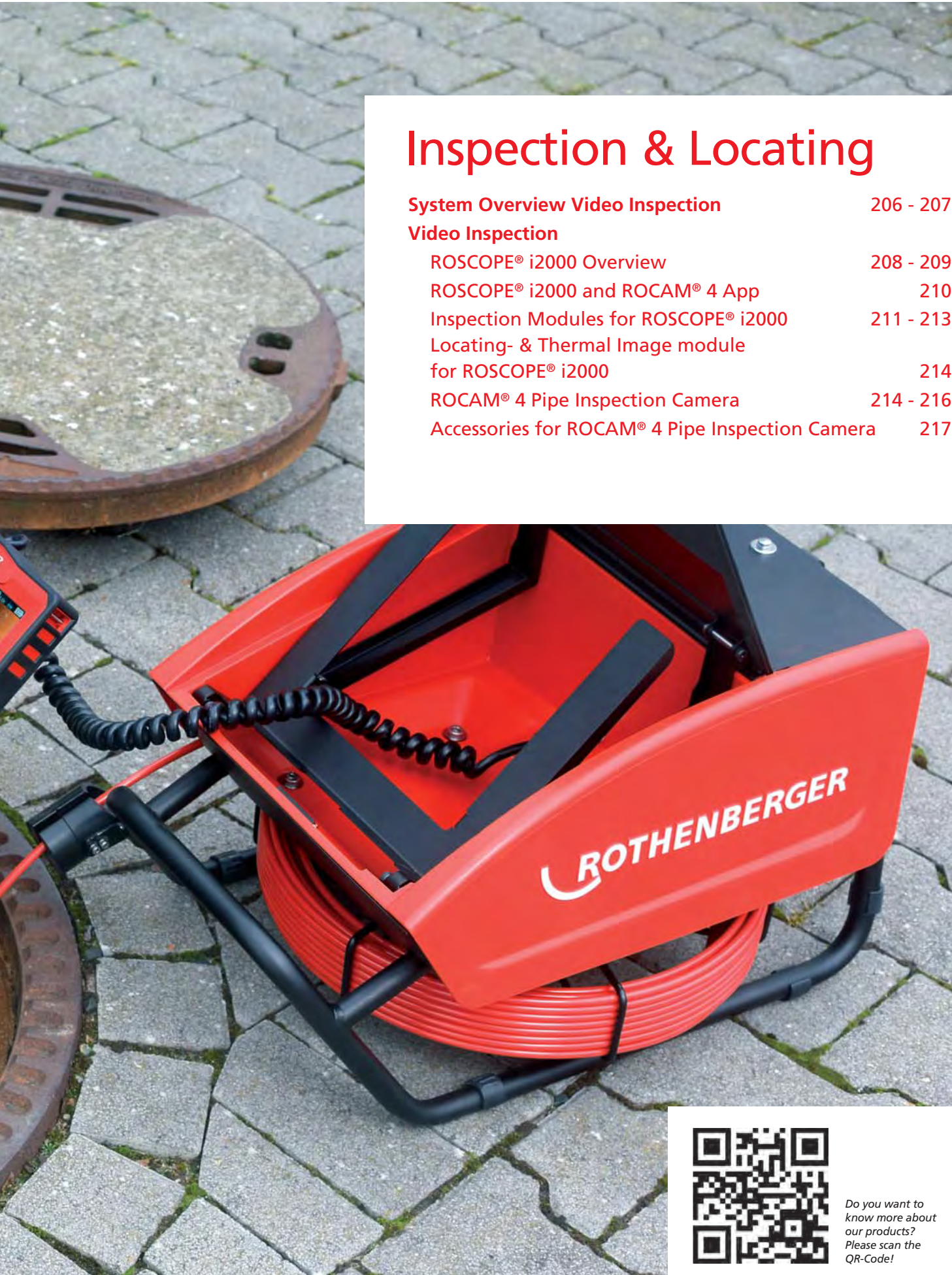


# ONE of 6.000

Premium tools for  
professionals!







# Inspection & Locating

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Video Inspection	
ROSCOPE® i2000 Overview	208 - 209
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Accessories for ROCAM® 4 Pipe Inspection Camera	217



Do you want to know more about our products? Please scan the QR-Code!

# Inspection & Locating

## System Overview

### ROSCOPE® i2000

**App for Smartphone and Tablet**  
For editing and sending of recorded image data  
**Available for iOS and Android!**



### ROSCOPE® i2000 Modules

Module TEC



Module 25/16



Module 25/22



Module ROSCAN 150



Module ROLOC PLUS



Application:	Hollow Spaces	Ø 50-100 mm	Ø 40-100 mm	Thermography	Locating of sondes
Display size:	3,5"	3,5"	3,5"	3,5"	3,5"
Touchscreen:	✓	✓	✓	✓	✓
Cable length:	1 m	16 m	22 m	–	–
Cable:	Ø 9 mm	Ø 8,5 mm	Ø 5,5 mm	–	–
Camera head:	Ø 17 mm	Ø 25 mm	Ø 25 mm	–	–
Self levelling:	✓	✓	–	–	–
Transmitter:	–	✓	–	–	–
Frequency:	–	512 Hz	–	–	512 & 640 Hz, 33 kHz
Picture format:	JPG	JPG	JPG	JPG	–
Picture Resolution:	640 x 480 Pixel	640 x 480 Pixel	640 x 480 Pixel	640 x 480 Pixel	–
Video format:	AVI	AVI	AVI	AVI	–
Video Resolution:	640 x 480 Pixel	640 x 480 Pixel	640 x 480 Pixel	640 x 480 Pixel	–
Storage:	SD-card	SD-card	SD-card	SD-card	–
WiFi:	✓	✓	✓	✓	–
Protocol feature:	–	–	–	–	–
Audio-recording:	✓	✓	✓	✓	–
Data handling:	via App	via App	via App	via App	–

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### ROCAM® 4

**App for Smartphone and Tablet**  
For editing and sending of recorded image data  
**Available for iOS and Android!**



### ROCAM® 4 Exchange Reels

Exchange reel with  
Camera head Ø 30 mm



Exchange reel with  
Camera head Ø 40 mm



Mini Module 8 m



Application:	Ø 70 - 150 mm	Ø 100 - 300 mm	Ø 40-100 mm
Display size:	10,4"	10,4"	10,4"
Touchscreen:	✓	✓	✓
Cable length:	30 m	30 m	8 m
Cable:	Ø 7 mm	Ø 7 mm	Ø 5,5 mm
Camera head:	Ø 30 mm	Ø 40 mm	Ø 25 mm
Self levelling:	✓	✓	–
Transmitter:	✓	✓	–
Frequency:	33 kHz	33 kHz	–
Picture format:	JPG	JPG	JPG
Picture resolution:	720 x 600 Pixel	720 x 600 Pixel	720 x 600 Pixel
Video format:	AVI	AVI	AVI
Video Resolution:	720 x 600 Pixel	720 x 600 Pixel	720 x 600 Pixel
Storage:	SD-card	SD-card	SD-card
WiFi:	✓	✓	✓
Protocol feature:	✓	✓	✓
Audio-recording:	✓	✓	✓
Data handling:	✓	✓	✓

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# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000

Inspection and locating technology combined in one unit with multiple functions. Modular system allows for various applications.



Product Profile
<b>APPLICATION AREA</b>
The ROSCOPE® i2000 covers almost all inspection techniques within living and working spaces. Camera and locating modules allow a multifunctional use. WiFi technology enables a quick and easy data transfer.
<b>KEY FEATURES</b>
<ul style="list-style-type: none"><li>● User-friendly touchscreen monitor and simple menu guidance</li><li>● Easy data transfer for subsequent processing</li><li>● Audio recording and playback possible without further equipment</li><li>● USB charging function</li></ul>

TECHNICAL DATA	
Display:	3.5" Touchscreen (color)
Video format:	AVI
Picture format:	JPEG, 640 x 480 pixels
Connection:	Mini-USB, AV-Out, SD-card slot
Power supply:	Li-ion battery 3.7 V / 5.2 Ah

### Versatile and user-friendly!

**3.5" Touchscreen**  
640 x 480 pixel resolution (JPEG)

**Ergonomic handling**  
Function keys arranged closely together

**Slip-free handle**  
For comfortable and effort saving operation - even over long periods of time

**Compatible connection**  
Previous ROTHENBERGER modules can be used

**WiFi**  
Easy data transfer to mobile devices

**SD-card slot**  
Memory space for audio, video and image data

**Integrated microphone**

**Integrated speaker**  
For audio playback

**Powerful Li-ion battery**  
For an extra long battery life and short charging times



### ROSCOPE® i2000 & ROCAM® 4 App

App for smartphone and tablet to edit and send recorded image data



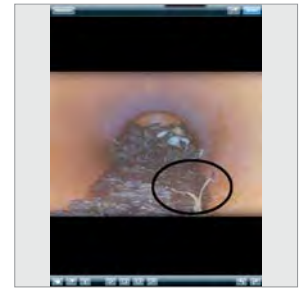
#### APPLICATION ADVANTAGES

- WiFi-transmitter allows a live image transfer from the ROSCOPE® i2000 to mobile devices
- Integrated editing function to indicate and mark specific pipeline damages
- Synchronizing of stored images of the ROSCOPE® i2000 to allow further processing
- Sending of edited pictures directly from the place of action

See page 210



Transfer to mobile devices



Editing with the ROSCOPE® i2000 App

### For Inspection: MULTIVIEW

Modular concept for visual inspection of pipes, hollow spaces and pipes

#### KEY FEATURES

4 different modules for the ROSCOPE® i2000 basic unit

- **Module TEC**  
Hollow space inspection with self-leveling picture
- **Module 25/16 or 25/22:**  
Waterproof pipe module for pipe inspection in 90° bends from Ø 40 mm
- **Module ROSCAN 150:**  
Thermal Image Camera with Overlay-technology for the precise detection of leaks

See pages 211-213

#### Module 25/16



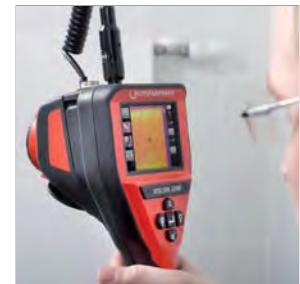
#### Module 25/22



#### Module TEC



#### Module ROSCAN 150



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### For Locating: ROLOC PLUS

Positioning module for sondes

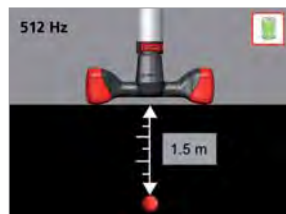
#### KEY FEATURES

- 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

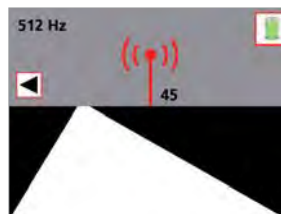
See page 213



Camera head is 1.5 m deep



Target is right of the running direction. Correction of your direction to the right is necessary



# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000 & ROCAM® 4 App

App for smartphone and tablet to edit and send recorded image data



#### Product Profile

##### APPLICATION ADVANTAGES

- WiFi-transmitter allows a image transfer live from the ROSCOPE® i2000 to mobile devices
- Integrated editing function to mark and name specific pipeline damages
- Synchronizing of stored images of the ROSCOPE® i2000 to allow further processing
- Sending of edited pictures directly from the place of action

##### TECHNICAL DATA

###### ROSCOPE® i2000:

**Compatibility:** iOS 5.1 or newer, Android 4.0 or newer  
**Size:** 4,1 MB

###### ROCAM® 4:

**compatibility:** iOS 8.1 or newer, Android 4.0 or newer  
**Size:** 12 MB

Live Image



Editing Display



Album



Album

Picture and Video  
Recording

Settings / Notes

Editing

Change to edit settings

- Color palette
- Pen and Rubber
- Text
- Right-angle, Circle, Arrow



**Available for iOS  
and Android!**



Inspection of basin drains



Sending of edited pictures directly from the place of action



### ROSCOPE® i2000 Module TEC

High-performance camera for the inspection of hollow spaces and hard to reach areas

#### Product Profile

##### KEY FEATURES

- User-friendly touchscreen monitor and simple menu guidance
- Self-leveling camera head
- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Waterproof camera head as per IP 68

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color) (technical data about basic unit available on page 208)
<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>	1 m
<b>Power supply:</b>	Li-ion battery 3.7 V / 5.2 Ah
<b>Weight:</b>	0.9 kg

Scope of delivery ROSCOPE® i2000 Module TEC (No. 1500000696):  
ROSCOPE® i2000 basic unit, Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module TEC	1	<b>1500000696</b>
Module TEC (without basic unit)	1	<b>69601</b>
Set (hook, magnet, mirror)	1	<b>69615</b>

Self-levelling camera head



Inspection of hollow spaces



Camera head with high-performance LEDs



### ROSCOPE® i2000 Module 25/22

High-performance camera for the inspection of pipes from Ø 40 up to 100 mm.

#### 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" Touchscreen (color) (technical data about basic unit available on page 192)
<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 / 5.2 Ah
<b>Weight:</b>	3.1 kg

Scope of delivery ROSCOPE® i2000 Module 25/22 (No. 1000000860):  
ROSCOPE® i2000 basic unit, Module 25/22, Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module 25/22 + Module TEC	1	<b>1000000860</b>
1 Module 25/22 (without basic unit)	1	<b>69603</b>
Guide skid for Module 25/16 and 25/22	1	<b>74629</b>

**Cable length: 22 m!**



Inspection of rain downpipes



Inspection of floor drains



# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000 Module 25/16

High-performance camera for the inspection of pipes from Ø 50 up to 100 mm. With an integrated transmitter for the precise locating of the camera head.



#### 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 50 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® i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module

##### TECHNICAL DATA

Display:	3.5" Touchscreen (color) (technical data about basic unit available on page 208)
Camera head:	Ø 25 mm, <b>self-leveling</b> and waterproof, with 4 extra bright LED lights
Brightness:	125 LUX (0.5 m)
Cable length:	16 m
Cable diameter:	8.5 mm
Frequency:	512 Hz
Power supply:	Li-ion battery 3.7 V / 5.2 Ah, 2 AA batteries (transmitter)
Weight:	3.9 kg

**Simple locating of the camera head with the integrated transmitter!**

#### WiFi

Easy data transfer to mobile devices

#### 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 25/16 and 25/22

For centring of the camera head, better illumination of the pipe

#### 3.5" Touchscreen

640 x 480 pixel resolution (JPEG)

#### 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 of access line



#### Inspection of rain drainpipes



No. 74629

Scope of delivery ROSCOPE® i2000 Module 25/16 (No. 1000000842):  
ROSCOPE® i2000 basic unit, Module 25/16, Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module 25/16 + Module TEC	1	<b>1000000842</b>
Module 25/16 (without basic unit)	1	<b>1500000052</b>
Guide skid for Module 25/16 and 25/22	1	<b>74629</b>

### ROSCOPE® i2000 Module ROLOC PLUS

Easy to use pipe and sonde locating device.  
Available as a complete unit, as well as locating module for the ROSCOPE® i2000 Basic 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" Touchscreen (color) (technical data about basic unit available on page 208)
<b>Frequencies:</b>	512 and 650 Hz, 33 kHz active/passive, 50/60 Hz passive
<b>Power supply:</b>	Li-ion battery 3.7 V / 5.2 Ah
<b>Dimensions:</b>	95 x 32 x 30 cm (operating mode) 67 x 32 x 9 (transportation mode)
<b>Weight:</b>	1.4 kg

Scope of delivery ROSCOPE® i2000 Module ROLOC PLUS (No. 1000000065): ROSCOPE® i2000 basic unit, Module ROLOC PLUS; Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module ROLOC PLUS + Module TEC	1	1000000861
Module ROLOC PLUS (without basic unit i2000)	1	1500000057

Also for use with  
ROCAM® 4 Multimedia



Simple menu guidance

Guides step-by-step to targeted position

##### Telescopic function

For easier transport in case

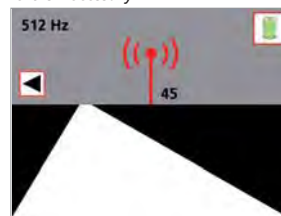
##### Multi-frequencies

Locating of the most common camera heads

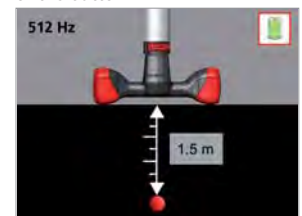
##### Depth measurement

Pin-point location of the transmitter position

Target is left of the running direction.  
Correction of your direction to the left is necessary



Depth measurement with a push of the button



### ROSCOPE® i2000 Module ROSCAN 150

Infrared camera for leak detection

#### Product Profile

##### KEY FEATURES

- Overlay technology for precise leak detection
- Very high accuracy of measurement in the range of -20 °C to 220 °C
- 3.5" touchscreen for easy and intuitive handling
- WiFi-transmission to mobile end devices
- Recording of pictures (jpeg) and videos (avi)
- Recording and playback of audio comments
- Memory on internal SD-Card

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color) (Technical Data Basic unit see page 208)
<b>IR Pixel:</b>	32 x 31
<b>Display size:</b>	23,8 x 23,1 mm
<b>Temperature range of the object:</b>	-20 °C bis 220 °C
<b>NETD:</b>	160 mK
<b>Frame rate:</b>	9 Hz
<b>Ideal focus distance:</b>	2 m

Model		No.
ROSCOPE® i2000 Module ROSCAN 150 + Modul TEC	1	1000000995
Module ROSCAN 150 (without Basic Unit i2000)	1	1500000932



##### Overlay-Technique:

Overlay of visual image and thermal image for accurate analysis and clear understanding



For ROSCOPE® 1000 and ROSCOPE® i2000!

Modular concept for ROSCOPE® 1000 und ROSCOPE® i2000

Hydraulic balance – Visualization of heating efficiency





# Inspection & Locating

## Video Inspection

### ROCAM® 4

Inspection camera for pipes from Ø 40-300 mm, with integrated software for documentation and large removable 10,4" Touchscreen

**Product Profile**

**KEY FEATURES**

- Picture editing, change of camera settings and menu guidance via the 10,4" Colour-Touchscreen
- Direct recording of pictures and video, as well as editing options (e.g. documentation of damage)
- Fast data recording with integrated keyboard to mark, highlight and name damages

**KEY FEATURES**

- Picture and video transmission via WIFI, Micro-HDMI, Mini-USB, SD-card
- Livestream of picture and data via WIFI to the ROCAM® 4 App
- Self-levelling and exchangeable camera heads
- Exchangeable reels for various working ranges



**Li-Ion battery 18V 3,0Ah (same as ROMAX® 3000)**

Long battery operation time (up to 5 hours)

**WiFi transmitter**

Simple data transmission to mobile devices

**Removable display unit with 10,4" Colour-Touchscreen**

Full functionality, even in confined spaces

**Digital metre count**

Precise determination of distance to camera head

**Integrated microphone**

Voice recording for documentation possible

**Exchangeable reel system 30m / 8m**

Large operating range from Ø 40 mm pipe diameter

30 mm Camera head with improved luminosity



High flexibility and durability



Cover protected connections for SD-card, Micro-HDMI, Mini-USB



Locating with ROSCOPE® module ROLOC PLUS



# Inspection & Locating

## Video Inspection



### TECHNICAL DATA

**Picture and video format:** JPG / AVI (Resolution 720 x 600)

**Camera head:** Ø 30 mm, self-levelling and waterproof with 10 LEDs  
Ø 40 mm, self-levelling and waterproof with 36 LEDs

**Working area:** Ø 70 - 150 mm (30 mm camera head)  
Ø 100 - 300 mm (40 mm camera head)

### TECHNICAL DATA

**Cable length:** 30 m (standard)  
8 m Mini-Module (optional)

**Cable diameter:** 7 mm (30 m reel)  
5,5 mm (Mini-Module)

**Transmitter frequency:** 33 kHz

**Power supply:** Li-Ion battery 18V / 3 Ah  
Main adaptor 230 V, 50 - 60 Hz (optional)

Sending of edited pictures directly from the place of action



Model	No.
ROCAM® 4 with Camera head ø 30 mm	1 <b>1500001470</b>

10,4" Color-Touchscreen for the use on construction site



Model	No.
ROCAM® 4 with Camera head ø 40 mm	1 <b>1500001471</b>

## Mini-Module ROCAM® 4

Easy extension of the working area of the ROCAM® 4 for pipes Ø 40 - 100 mm

### Product Profile

#### KEY FEATURES

- Professional Inspection of small pipe diameters
- Easy Handling due to Exchange reel system

#### TECHNICAL DATA

**Camera head:** Ø 25 mm, waterproof with 8-LEDs

**Working area:** Ø 40 - 100 mm

**Cable length:** 8 m Mini-Module

**Cable diameter:** 5,5 mm

Model	No.
Mini-Module ROCAM® 4	1 <b>1500001472</b>

### ACCESSORIES

Model	No.
Camera head ø 40 mm	<b>1500000122</b>
Camera head ø 30 mm	<b>1500000123</b>
ROCAM® 4 Accessories	216



# Inspection & Locating

## Video Inspection

### 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
<b>Excellent brightness:</b> <ul style="list-style-type: none"> <li>● The ROCAM® camera head Ø 30 mm has over 10 ultra bright LED lights, that effortlessly illuminate pipes up to Ø 150</li> <li>● The camera head can be mounted with a Ø 40 mm camera head for larger pipe diameters</li> </ul>
<b>Pressure tight screw slip-ring connection:</b> <ul style="list-style-type: none"> <li>● Pressure tight connection (3 bar) between camera head and push cable</li> <li>● High resistance to shock and impact</li> <li>● Quick and toolless exchange of the camera heads</li> <li>● No burden from electrical connections</li> </ul>
<b>High flexibility and resistant:</b> <ul style="list-style-type: none"> <li>● Flexible spring provides 90° curveability in pipes up to Ø 70 mm when enough stability is provided</li> <li>● Pressure tight up to 3 bar with the stainless steel casing</li> <li>● Scratch and impact resistant with the sapphire glass objective</li> </ul>

KEY FEATURES
<b>Mountable transmitter:</b> <ul style="list-style-type: none"> <li>● Optional 33 kHz transmitter can be used to determine the length of the camera head (90° from Ø 70)</li> <li>● 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</li> </ul>
TECHNICAL DATA
<b>Camera head:</b> <div> <div>Ø 30 mm with 10 LED lights</div> <div>Ø 40 mm with 36 LED lights</div> <div><b>self-leveling</b> and waterproof</div> </div>
<b>Brightness:</b> <div> <div>175 LUX (0.5 m), camera head Ø 30 mm</div> <div>666 LUX (0.5 m), camera head Ø 40 mm</div> </div>

Always an upright picture!



Excellent illumination



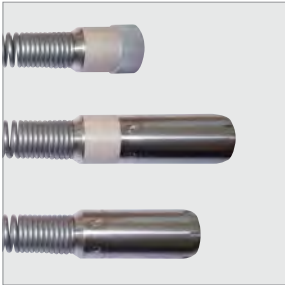
Pressure tight screw slip-ring connection



High flexibility and durability



Mountable transmitter



Model	No.
Camera head Ø 30 mm	1500000123

Model	No.
Camera head Ø 40 mm	1500000122



### Rolling Skids

Recommended for distances from 10 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	g		No.
<b>For camera heads Ø 40 mm:</b>			
Rolling skids Ø 150 mm	700	1	<b>69118</b>
Rolling skids Ø 200 mm	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 Ø 100 - 150 mm  
Brush attachment Ø 150 for use in pipe Ø 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)

Brush attachment camera head (front)

\*Use with guide skid No. 69112 / 1500000817

Model	g		No.
Brush attachment Ø 100*	200	1	<b>69113</b>
Brush attachment Ø 150*	300	1	<b>69117</b>

### Rolling Skids ROCAM® 4 Multimedia

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 / 1500000817



No. 69111 / 1500000120

Model	g		No.
<b>For camera heads Ø 30 mm:</b>			
Guide skid for Ø 150 mm	200	1	<b>1500000120</b>
Guide skid for brush attachments	200	1	<b>1500000817</b>
<b>For camera heads Ø 40 mm:</b>			
Guide skid for Ø 200 mm	200	1	<b>69111</b>
Guide skid for brush attachments	200	1	<b>69112</b>

### Battery. mains adaptor and Charger ROCAM® 4 Multimedia

#### 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



No. 15810



No. 15811



No. 1500001562

Model		No.
Spare battery (18 V / 3.0 Ah, Li-Ion)	1	<b>15810</b>
Charger for spare battery (110-230 V)	1	<b>15811</b>
Mains adaptor (230 V)	1	<b>1500001562</b>

**ONE**  
of  
**6.000**

**Premium tools for  
professionals!**





# Flushing & Pipe Cleaning

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# Flushing & Pipe Cleaning

## System Overview

### Flushing

**ROPULS**



**ROPULS eDM**



Connection:	1"	1"
Max Pipe diameter:	Ø 50 mm	Ø 50 mm
Max Water pressure:	7 bar	7 bar
Documentation:	—	✓

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### Pipe Cleaning

**WC-Blitz**



**ROPOWER® HANDY**



**ROSPIMATIC**



**ROSPI® 6 H+E Plus**



Operation Mode:	manual	manual	electric	manual / elektrik
Working Range:	Ø 50 - 100 mm	Ø 50 - 100 mm	Ø 20 - 50 mm	Ø 20 - 50 mm
Max. Spiral length:	1 m	2,3 m	7,5 m	4 m
Spiral diameter:	13 mm	16 mm	8 mm	6 mm
Power:	—	—	630 W	—

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**R 550**



**ROSPEED 3F**



**R 600**



**R 650**



Operation Mode:	elektric	elektric	elektric	elektric
Working Range:	Ø 20 - 100 mm	Ø 50 - 100 mm	Ø 20 - 150 mm	Ø 20 - 150 mm
Max. Spiral length:	40 m	30 m	60 m	65 m
Spiral diameter:	8**/ 10**/ 16 mm	16 mm	8**/ 10**/ 16 / 22 mm	8**/ 10**/ 16 / 22 mm
Power:	250 W	250 W	400 W	800 W

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### Decalcifying

**ROCAL 20**



**ROMATIC 20**



<b>Tank Volume:</b>	15 l	15 l
<b>Volume flow:</b>	40 l/min	40 l/min
<b>Delivery height:</b>	10 m	10 m
<b>Motor rating:</b>	150 W	150 W
<b>Max. Temperature:</b>	50 °C	50 °C
<b>Flow reversal:</b>	manual	automatic

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### Pipe Cleaning

**ROSPI® 8 H+E Plus**



**ROSPI® 10 H+E Plus**



**RODRUM S 10**



**Manual Drain Cleaner 3 S**



**RODRUM S 13**



manual / electric	manual / electric	electric	manual	electric
Ø 20 - 50 mm	Ø 20 - 70 mm	Ø 40 - 70 mm	Ø 50 - 100 mm	Ø 50 - 100 mm
7,5 m	10 m	10 m	15 m	15 m
8 mm	10 mm	10 mm	13 mm	13 mm
–	–	250 W	–	250 W

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**R 750**



**R 80**



**R 100 SP**



**R 140 B**



<b>Operation Mode:</b>	electric	electric	electric	Fuel
<b>Working Range:</b>	Ø 50 - 200 mm	Ø 70 - 250 mm	Ø 70 - 250 mm	Ø 100 - 600 mm
<b>Max. Spiral length:</b>	80 m	80 m	100 m	140 m*
<b>Spiral diameter:</b>	16**/ 22 mm	22 / 32 mm	22 / 32 mm	32 mm / rod system
<b>Power:</b>	900 W	1400 W	1400 W	4800 W

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\* with a rod

\*\* only usable with collet, clamping jaws or adaptor magazine (see page 238)

# Flushing & Pipe Cleaning

## Flushing

### ROPULS eDM flushing compressor

For scouring and cleaning of heating systems and flushing of drinking water pipes according to EN 806 / DIN 1988-2 with protocol function



#### Product Profile

##### KEY FEATURES

- **One unit – three uses** for safety and energy efficiency:
  - 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
- Chemical cleaning with ROCLEAN accessories possible
- Free app for easy, professional creation of flushing-protocols as PDF files

##### TECHNICAL DATA

Pipe connection:	R 1" GK-Coupling
Max. Pipe diameter:	DN 50/2"
Max. flow rate:	5 m³/h
Max. water pressure:	7 bar
Max. water temperature:	30 °C
Protection class:	IP 20
Oil deposition rate:	99,9%
Particle retention rate:	0,3 µm compressor
Max. operating pressure:	8 bar
Engine Power:	1,5 kW
Mains connection:	230 V - 50 Hz
Dimensions (H x W x D):	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

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 regarding drinking water installations

Flushing of drinking water pipes with pulsing compressed air water mix as per DIN 1988-2

Safety for plumbers and plant operators

Quick connect NW 7,2

For connecting pneumatic tools

Function switch

Enables you to change ROCLEAN functions easily

ROPULS eDM App with documentation feature



ROPULS eDM with ROCLEAN Function for cleaning and conservation



#### ROPULS eDM – Documentation

- ✓ Easy
- ✓ Fast
- ✓ Professional

ROCLEAN Function, optional available for ROPULS eDM and ROPULS Flushing compressor!

Scope of delivery (No. 1000001134) ROPULS eDM flushing compressor, 2 x 1 m fabric hose 1" with GK coupling

Model

kg

No.

ROPULS eDM flushing compressor with hoses 28 1000001134



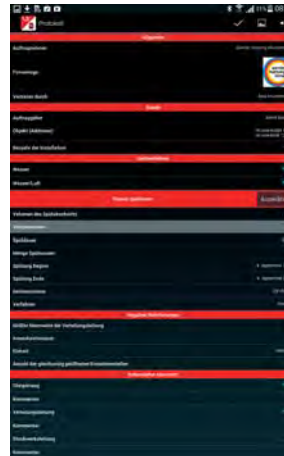
### ROPULS eDM App

Professional working and documentation due to eDM (electronic Data Management)



#### KEY FEATURES

- Report can be e-mailed immediately as a PDF
- Transfer of flushing data via Bluetooth
- Applicable for Android and Windows devices
- Easy, fast, professional documentation
- Company profiles and protocols individually customizable
- Live data transfer to handheld unit
- Templates for various flushings-protocols available



### ROPULS Flushing Compressor

With the same range of functionality as ROPULS eDM, but without eDM (electronic Data Management)



#### Function switch

Enables you to change **ROCLEAN** functions easily

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 regarding drinking water installations

Flushing of drinking water pipes with pulsing compressed air water mix as per DIN 1988-2

Safety for plumbers and plant operators

11

**ROCLEAN Function, optional available for ROPULS eDM and ROPULS Flushing compressor!**

Scope of delivery (No. 1000000145) ROPULS flushing compressor, 2 x 1 m fabric hose 1" with GK coupling

Model	kg	No.
ROPULS flushing compressor with hoses 28		<b>1000000145</b>

ROPULS with ROCLEAN Function:  
Flushing of drinking water pipes



ROPULS Flushing compressor with ROCLEAN Function



#### ACCESSORIES

Model	No.
ROCLEAN Injector	<b>1000000190</b>
Pressure regulator 2 bar	<b>1500000203</b>
ROCLEAN cleaning and conservation	<b>224</b>

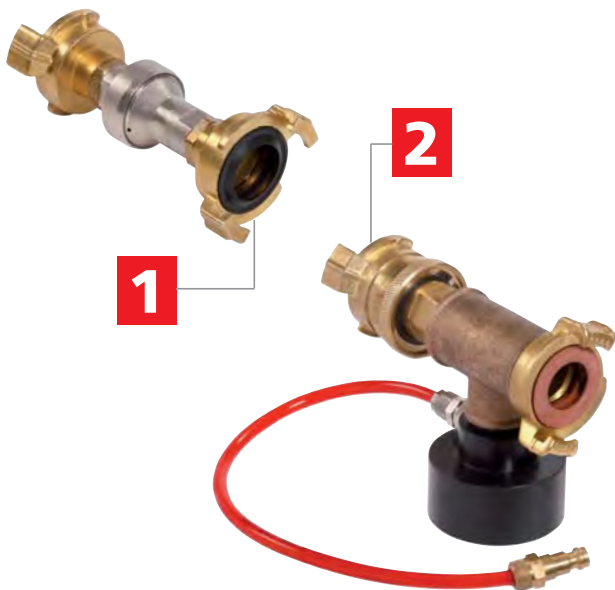


# Flushing & Pipe Cleaning

## Flushing

### ROCLEAN Funktion

For cleaning and conserving radiator heating systems, surface heating systems as well as for disinfection of drinking water lines



- 1

The pressure reducer has to be installed on the water input side of the ROPULS flushing compressor. This maintains the incoming pressure of the fresh water feed constant at 2 bar.
- 2

The **ROCLEAN Injector** has to be installed on the water output side. The injector constantly and securely doses the bottle contents to the system to be cleaned.



Model	kg		No.
ROCLEAN Injector	1,1	1	1000000190
Pressure regulator 2 bar	0,3	1	1500000203

## Cleaning and Preservation with 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



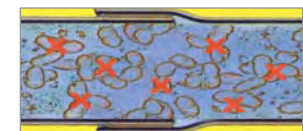
Maintains the cleaned condition and protects the system. One bottle is sufficient for 100 l system volume.



### Disinfection of drinking water systems



Does not stay in system. One bottle per 100 l system volume.



### Cleaning and preservation steps:

Before cleaning	
Step 1: Mechanical cleaning	
Step 2: Chemical cleaning	
Step 3: Preserving	

Model	Color code	kg		No.
ROCLEAN Injector		1,1	1	1000000190
Pressure regulator 2 bar		0,3	1	1500000203
Chemical cleaning:				
– Radiator heating systems	Orange	6,3	6	1500000200
– Surface heating systems	Green	6,3	6	1500000201
Preservative	Blue	6,3	6	1500000202
Disinfection	Yellow	6,3	6	1500000157

### 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 Hz
Motor rating:	150 Watt
Volume flow:	40 l / min.
Delivery height:	10 m



Fig. ROCAL 20

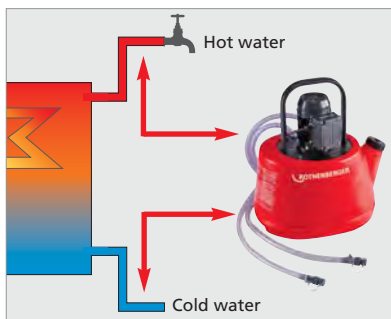
Automatic flow reversal!



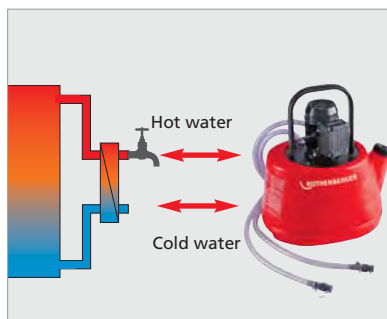
Fig. ROMATIC 20



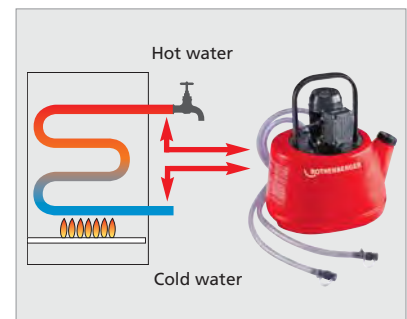
Decalcifying of drinking water storage tanks



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 (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", 2x 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

#### ACCESSORIES



Decalcifying chemical for ROCAL 20, ROMATIC 20 see 226



# Flushing & Pipe Cleaning

## Decalcifying

### 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	●	-
Brass	●	-
Plastic	●	-

● suitable - unsuitable

Model	kg			No.
ROCAL Acid Multi	5	1	4	1500000115
ROCAL Acid Multi	10	1	2	1500000116
ROCAL Acid Multi	30	1		1500000117

Model	kg			No.
ROCAL Acid Plus	5	1	4	61105
ROCAL Acid Plus	10	1	2	61106
ROCAL Acid Plus	25	1		1500000914

### 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.

Model	kg			No.
Neutralizer Powder	1	1	5	61115
Neutralizer Powder	10	1	2	61120



No. 61115

No. 61120



ROSOLAR PUMP /  
ROSOLAR PUMP PLUS

Solar filling pump

Product Profile

KEY FEATURES

- A powerful centrifugal pump for rapid filling and effective flushing out and ventilation of solar plant
- Optional: robust and heat resistant (up to 90°C) Impeller pump: small particles of solid materials are also conveyed without difficulty. Fitted with a pressure relief valve
- Heat resistant hoses (up to 100°C) allow safe filling and maintenance of solar plant
- A height-adjustable (76-110 cm) telescopic grip for space-saving storage, simple transport and good handling in tight cellars
- Well thought-through handling: the canister can easily be filled through the large opening. The shut-off valve in the bottom allows simple/uncomplicated emptying of the whole container

TECHNICAL DATA

Dimensions ( H x W x D ):	49 x 51 x 76 cm
Container volumes:	30 l
Hoses:	Length: 2 x 3 m
	Connections: 3/4"
	Heat resistant: up to 100°C

A generously dimensioned  
container opening

Makes easy and secure filling possible

Optional: A fleece filter bag

For gentle treatment of the internal filter  
on older plant experiencing strong pollution

A dirt filter with sight glass

Filters residues out  
of the medium

Height-adjustable  
telescopic grip (76 - 110 cm)

Small and flexible as required

Heat resistant hoses  
(up to 100°C)

Safe working –  
also when servicing  
solar plant with knit  
protection at the hose  
connection

Optional:  
impeller pump

Small particles of solid  
materials are also conveyed  
without difficulty

Model	No.
ROSOLAR PUMP (with centrifugal pump)	1500000135
ROSOLAR PUMP PLUS (with impeller pump)	1500000136
Fleece filter bag ROSOLAR (10 pcs.)	1500001236
Return flow cover (for filter bags)	1500001235

A return flow cover  
with filter



Hose connection with  
anti-kink protection



Ball valve



# 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

#### 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 silicon sealing lip and single-cast main body

Quick – Compact – Handy!

##### KEY FEATURES

- Simple handling with the perfect adaption an the drain, simple to use, with ergonomic formed components

**Flexible, in all directions adjustable handle**

Optimal adaption to the cleaning job

**Single-cast main body**

Withstands the heaviest loads

**Ergonomic D-handle**

Perfect transmission of force and optimal handling

**Piston with silicon sealing lip**

Effortless handling

**Short and long Adaptor included in scope of delivery!**

**Short adaptor**

**Long adaptor**

**Adaptor wide No. 72073**

**Adaptor long No. 72071**

Model	kg			No.
ROPUMP® SUPER PLUS with 2 Adaptors (long, short)	2.00	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



Flexible socket  
Various areas of application

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>



# Flushing & Pipe Cleaning

## Pipe Cleaning Manual

### 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	72090
ROSPI® 8 H+E Plus	7.5 m	3.5	1 2	72095
ROSPI® 10 H+E Plus	10.0 m	4.8	1 2	72005
For spare spirals see 249				

# 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>
<b>ACCESSORIES</b>			
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 242

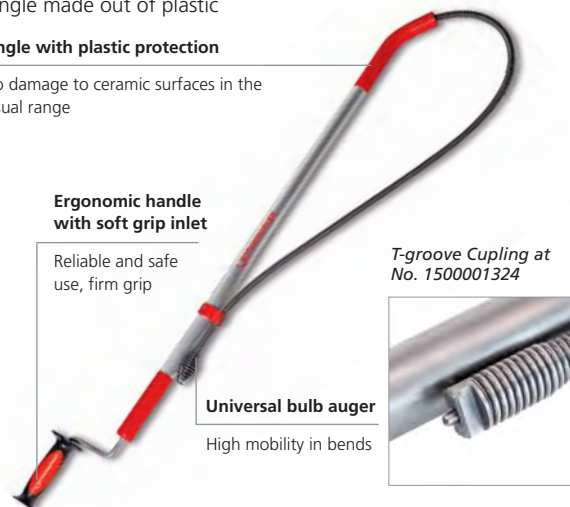
### WC-BLITZ RO-3 Toilet Auger

##### 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



Model	kg		No.
WC-Blitz RO-3 complete with spiral	2.75	1	<b>78551</b>
WC-Blitz RO-3 with tool coupling	2,90	1	<b>1500001324</b>

### ROSPI® R 36 Plus

Electrical drain cleaning unit  
for pipes 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

**For pipes:** Ø 20 - 75 mm  
**Spirals:** Ø 8 mm x 7.5 m (Standard) & Ø 10 mm x 7.5 m



Model	kg		No.
ROSPI® R 36 Plus Standard Electro	4,7	1	<b>72525</b>

For spare spirals see 249

# 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 protective hose prevents the surrounding from soiling with spray water

##### TECHNICAL DATA

<b>Application range:</b>	20 - 50 mm
<b>Spiral with inner-core &amp; Bulb 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, retrofitable)

#### Closed plastic spiral container

Protects the surrounding from dirt

#### Tool set optional

#### 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	1	<b>72542</b>

#### Fast removal of obstructions





For additional accessories see 238



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric



Model		230 V	110/115 V
R 550 including guide hose	16.0	72686	72631
Tool sets and accessories starting on 	238		

### R 550

#### Drain cleaning machine for pipe Ø 20 - 100 mm

Reliable, high-performance drain cleaning machine with 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 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



Model		230 V	110/115 V
R 600 including guide hose	20.9	72687	72632
Tool sets and accessories starting on 	238		

### 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 is 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 und 10 mm
<b>Max. working length:</b>	60 m with Ø 22 mm S-spirals 50 m with Ø 16 mm S-spirals 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

# 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

- Double 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 55 m with Ø 16 mm S-spirals 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	kg	230 V	110/115 V
R 650 including guide hose	22.8	72688	72633
Tool sets and accessories starting on	238		

### 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. Usable for such as chain spinning, grinding and cutting roots

###### KEY FEATURES

- Drive lever can be rotated (180°), locked and used as a handle for easy wheeling
- Direct up take of 32 mm and 22 mm
- Optional Ø 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 70 m with Ø 22 mm S-spirals 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	kg	230 V	110/115 V
R 750 including guide hose	33.5	72689	72634
Tool sets and accessories starting on	238		

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### RODRUM S

Drum drain cleaning machine with automatic spiral feed. For pipes from Ø 40-100 mm. Perfectly suited for use in public and commercial buildings.

#### Product Profile

##### KEY FEATURES

- Clean and discreet use
- Easy handling due to automatic spiral feeding and retrieving
- New feeding unit for direct pressure relief by release of the feeding handle
- Machine works with Ø 10 and Ø 13 mm spirals

##### KEY FEATURES

- **Flexible use:**  
Drum interchangeable for different pipe diameters
- **Easy to use:**  
Feeding and pressure relief with single handle
- **Clean:**  
Spiral in detachable drum

Interchangeable drum

Fast change between Ø 10 mm and Ø 13 mm spirals, easy to carry

Spiral protection

Fast tension relief from the spiral to prevent damage just by releasing the lever

Cleanout slots and drain plug

Easy and fast cleaning of the drum

Rubber feet

No damage to the floor

2-in-1 feeding unit

Suitable for Ø 10 mm and Ø 13 mm spirals

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# Flushing & Pipe Cleaning

## Pipe Cleaning Electric



### APPLICATION AREA

- Compact constructions: Ideal for service deployment to unblock pipes in connecting pipes of wash basins, toilets, drainage pipes, floor drainage
- The dirty spiral moves on retraction into the spiral drum. Due to its clean and discrete operation, the machine is best suited for SHK-companies and their services in private houses, hospitals and clinics, gastronomy and hotels, Facility Management and public buildings

### TECHNICAL DATA

<b>Working Area / Pipe diameter:</b>	Ø 40-100 mm
<b>Max. Working length:</b>	10 m (with 10 mm Spirals) 15 m (with 13 mm Spirals)
<b>Power:</b>	250 W
<b>Speed (Drum)</b>	300 r/min.
<b>Product dimensions:</b>	58 x 33 x 39 cm

Cleaning of connection pipe with 10 mm spiral



Convenient transport thanks to detachable drum



Interchangeable drum for different working ranges



Model	kg	No.
RODRUM S 10 EU	18,9	1000001256
RODRUM S 13 EU	24,8	1000001307
RODRUM S 13 EU with Tool-Set	25,7	1000001257
Spiral 13 mm x 15 m wit reinforced wire		72016
Spare spiral RODRUM S 13 mm x 15 m		1300002582

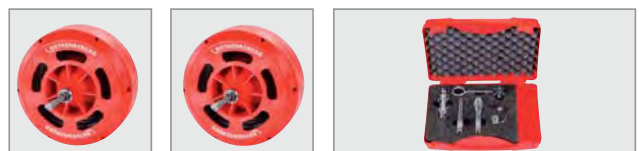
Set (No. 1000001256) includes: RODRUM S 10, Guide hose (No.1300002581), Spiral guide gloves (No.1500000439)

Set (No. 1000001257) includes: RODRUM S 13, Chain spinning head (No. 072185F), Cross blade cutter (No.72176), Forked cutter (No.72164), Bulb auger (No. 72163), Retrieving auger (No. 72162), Straight auger (No. 72161), Separating pin (No.72100), Guide hose (No.1300002581), Spiral guide gloves (No.1500000439)

### ZUBEHÖR

Model	No.
RODRUM S 10 Drum	5,5 1000001275
RODRUM S 13 Drum	11,4 1000001276
Tool-Set 16 mm	5,5 1000001308

Spirals, Drain cleaning tools 240



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### ROSPEED 3F

High-performance pipe cleaning innovation for pipes  
 Ø 50 - 100 mm, automatic spiral feed.  
 Ideal for use inside buildings



Product Profile

APPLICATION AREA

By returning spiral, the pipe contamination stays in the drum unlike the sectional machines. That is why this unit is ideally suited use by HVAC professionals, for example, for 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:
  - Scrubbing
  - Pulsating
  - Final cleaning
- Simple cleaning of the drum with a steam cleaner (for example)

TECHNICAL DATA

For pipe diameters:	Ø 50 - 100 mm
With direct attachment:	Ø 16 mm
Max. working length:	15 m up to 30 m expandable
Rating:	250 W
Speed:	270 - 340 min <sup>-1</sup> , 3 Step adjustable
Weight:	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

Included in delivery

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	72960
Spiral 16 mm x 15 m with steel core	15.0	1	72918

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 80

One-man professional machine for pipes 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 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	kg	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 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	kg	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 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. 72325), spiral sawtooth cutter Ø 65 mm (No. 72329), dual spade head cutter (No. 72774), forked cutter Ø 76 (No. 72350), forked cutter Ø 85 (No. 72781), forked cutter Ø 112 (No. 72782), tool box (No. FF60185), operating instructions (machine, motor, gears)

Model	kg	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>

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>



### ROWONAL Care and Rust Remover

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal and disinfection



Description	Contents	kg	No.
Spray can	0.2 l	220	<b>72142</b>
Plastic canister	5.0 l	5,100	<b>72140</b>

### Spiral Guide Gloves

- For safe grasping and guiding of cleaning spirals

#### Guide Gloves, leather:

- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove



No. 1500000439



No. 72120 / 72121

Description	g	No.
Guide Gloves left, leather	190	<b>72120</b>
Guide Gloves right, leather	190	<b>72121</b>
Guide Gloves (pair), rubber	160	<b>1500000439</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. 72110



No. 72111



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 Lockring



#### Sufficient connecting coil

Spare couplings can be mounted easily



#### Various wire gauges

Flexible, depending on use

#### Insertion taper

Simple coupling of spirals and tools



#### ROPOWER PROFILE CABLE

Additional cleaning effect with the squared profile



#### Plastic core

Spiral won't clog with dirt



#### T-groove made of Nirosta steel

Long lasting and high functional safety with the high-quality coupling design

Spiral / Type	Short distance many bends	Long distance straight run	No clogging of the Spiral with dirt	Additional cleaning power
Standard Spiral	●	○	○	○
SMK-Spiral	●	○	●	○
S-Spiral	○	●	○	○
S-SMK-Spiral	○	●	●	○
ROPOWER PROFILE	○	●	●	●

○ not suitable    ● suitable



### ROPOWER® PROFILE CABLE

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 m	kg	No.
16	●	5/8"	2.3	1.3	72490
Safety T-groove couplings can be found on 249					

### Standard Spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



mm	inch	L m	Wire thickness Ø mm	R/K 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 249						

### 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 m	Wire thickness Ø mm	R/K 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	E 11	6.80	72453
Safety T-groove couplings can be found on 249						

### 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 m	Wire thickness Ø mm	R/K 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 249						

### 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 m	Wire thickness Ø mm	R/K 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 249						

### 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"

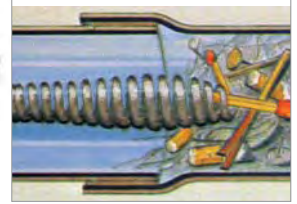
See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

### Bulb Auger

243



The most common tool for cleaning pipes and drains with tight or multiple bends

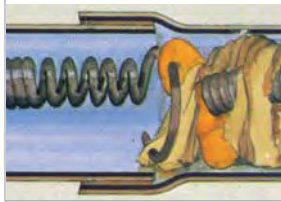


### Retrieving Auger

243



Special tool for retrieving objects from the pipe, e.g. textiles, spirals or tools

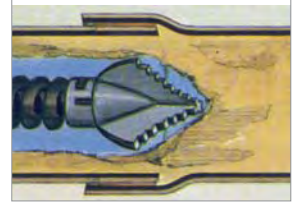


### Cross-blade Cutter, serrated

244



Special tool for opening up solidified pipe obstructions

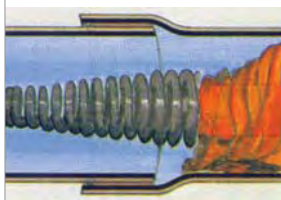


### Funnel Auger

243



Tool for removing, opening or retrieving obstructions caused by, e.g. textiles

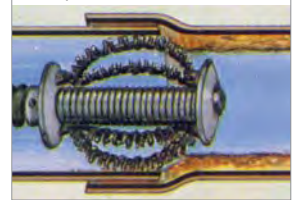


### Chain-spinning Head with Spikes

245



For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains



### Spade Head Cutter

244



Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool

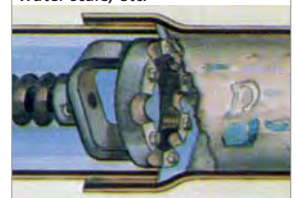


### Carbide-tipped Cutters

246



This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale, etc.

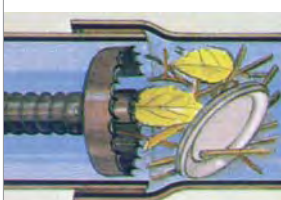


### Spiral Sawtooth Cutter

244



Special tool for chopping up small roots and other material that have become caught in the pipe

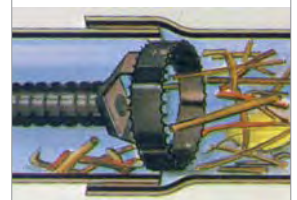


### Two-way Root Cutter

246



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 mm / inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	28	500	40 - 75	220	<b>72158</b>
22 / 7/8"	40	500	50 - 100	464	<b>72208</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 mm / inch	mm	L mm	Working range mm	g	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 mm / inch	mm	L mm	Working range mm	g	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 mm / inch	mm	L mm	Working range mm	g	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 mm / inch	mm	L mm	Working range mm	g	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 mm / inch	mm	L mm	Working range mm	g	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 mm / inch	 mm	 mm	Working range 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 mm / inch	 mm	 mm	Working range 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 mm / inch	 mm	 mm	Working range 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>



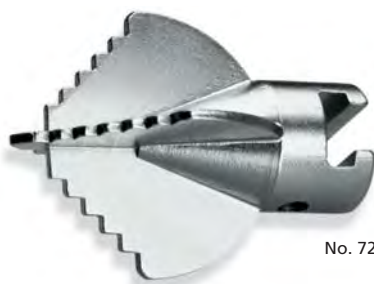
No. 72229

### Spiral Sawtooth Cutter

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

Coupling mm / inch	 mm	 mm	Working range 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 mm / inch	 mm	 mm	Working range 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 or ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends






No. 72284

Improved mobility!



No. 72289

#### Chain-spinning Heads without ring and without spikes

Coupling mm / inch	 mm	 mm	Working range 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>

### 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 mm / inch	 mm	 mm	Working range 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>

#### Without ring, with 2 or 4 chains and spikes

Coupling mm / inch	 mm	 mm	Working range 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. 72278

For better curve manoeuvrability!



No. 72188

# 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!

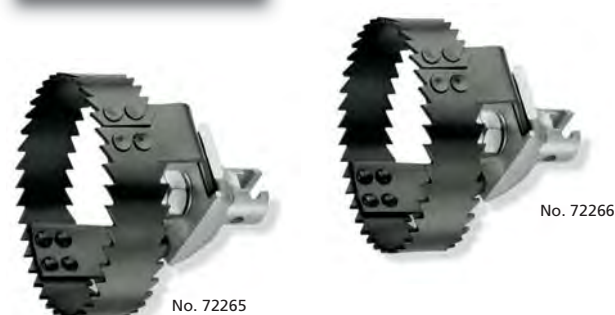





Coupling mm / inch	 mm	Form	Working range mm	 g	No.
16 / 5/8"	25	straight	35 - 50	70	<b>72191</b>
16 / 5/8"	30	straight	50 - 75	80	<b>72193</b>
22 / 7/8"	30	straight	50 - 75	90	<b>72291</b>
22 / 7/8"	45	pointed	60 - 100	320	<b>72295</b>
32 / 1.1/4"	45	straight	60 - 100	240	<b>72392</b>
32 / 1.1/4"	55	pointed	70 - 100	400	<b>72396</b>
32 / 1.1/4"	80	straight	100 - 200	530	<b>72398</b>

### 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	 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>

### 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	 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>

### 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 / inch	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>



### 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 gloves, left/right (No. 1500000439), 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), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model	No.
22 mm Tool Set L (R 600, R 650, R 750)	<b>72938</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

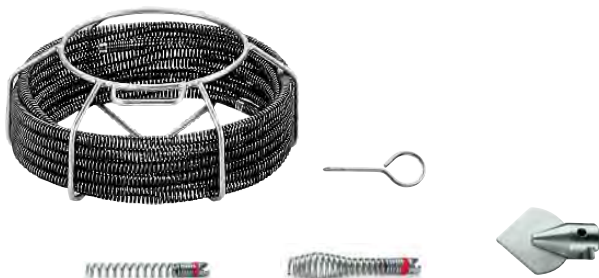


Set (No. 72939) includes: Separating pin 22 mm (No. 72101), straight auger 22 mm (No. 72221), serrated forked cutter 22 mm (No. 72250), spade head cutter 22 mm (No. 72261), bulb auger 22 mm (No. 72263), cross-blade cutter 22 mm (No. 72276)

Model	No.
22 mm Tool Set S (R 600, R 650, R 750)	<b>72939</b>

### 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 gloves, left/right (No. 1500000439), 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

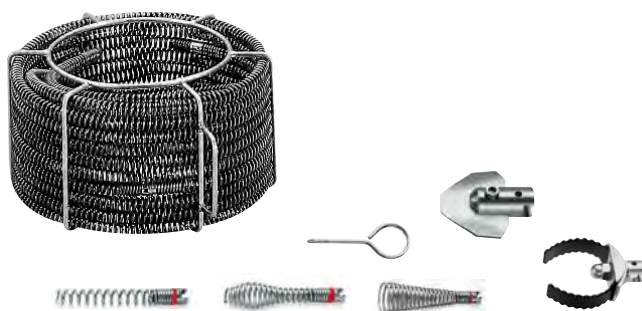


Set (No. 072956X) includes: Spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), 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 gloves, left/right (No. 1500000439), 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>

### 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 gloves, left/right (No. 1500000439), 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 gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 32 mm	with standard spirals	37.0	<b>072962X</b>

# Flushing & Pipe Cleaning

## Accessories Pipe Cleaning Spirals

### 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 Ø 2 mm, and with 10 mm spirals Ø 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 stretch tap

mm	Wire Ø	Length	Type	Steel core	Use for for ROSPI®	kg	No.
6.4	2 mm	4.5	-	-	R 6	0.8	72522
8	2 mm	7.5	C 1	-	R 8 - R 36	1.8	72412
8	2 mm	7.5	C 1 - IC	●	R 8 - R 36	2.3	72413
8	2 mm	10.0	-	-	R 8 - R 36	2.4	72414
8	2 mm	10.0	-	●	R 10 - R 36	3.0	72415
10	2.5 mm	10.0	C 5	-	R 10 - R 36	3.5	72422
10	2.5 mm	7.5	C 4	-	R 10 - R 36	2.9	72420
10	2.5 mm	7.5	C 4 - IC	●	R 10 - R 36		72424
10	2.5 mm	7.5	-	-	R 10 - R 36		72421*
10	2.5 mm	7.5	-	●	R 10 - R 36	2.9	72423*

\*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	72461
Reducing piece	22 mm	16 mm	150	72460
Extension piece	22 mm	32 mm	320	72463
Reducing piece	32 mm	22 mm	330	72462



No. 72461



No. 72460

### Safety T-Couplings

Fixing of broken spirals!

for Standard and SMK spirals



No. 72210



No. 72211

Description	g	16 mm 5/8"	g	22 mm 7/8"	g	32 mm 7/8"
for Standard and SMK spirals						
positive	20	72150	40	72210	100	72310
negative	20	72151	40	72211	100	72311



# 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!**



11

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

**HD 11 / 90 for pipe:** Ø 40 - 150 mm, max. 20 m

**HD 13 / 100 for pipe:** Ø 40 - 150 mm, max. 20 m

**HD 17 / 190 for pipe:** Ø 40 - 200 mm, max. 40 m

**HD 19 / 180B for pipe:** Ø 40 - 200 mm, max. 40 m

### High-Pressure Drain Cleaning

**HD 11/90**



**HD 13/100**



**HD 17/190**



Rating:	230 V	230 V	400 V
Max. Pipe diameter:	Ø 150 mm	Ø 150 mm	Ø 200 mm
Max. working length:	20 m	20 m	40 m
Max. Operation pressure:	90 bar	100 bar	190 bar
Pump delivery:	11 l/min	13 l/min	17 l/min
Speed:	1.500 W	2.300 W	5.000 W

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**HD 19/180B**



**ROJET 30/130**



Operation mode:	Fuel	Fuel
Max. Pipe diameter:	Ø 200 mm	Ø 250 mm
Max. working length:	40 m	50 m
Max. Operation pressure:	180 bar	130 bar
Pump delivery:	19 l/min	30 l/min
Speed:	8.100 W	9.500 W

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# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### HD 11/90

Self-priming compact unit from  
Ø 40 – 150 mm up to 20 m length



Ø 150 mm



#### KEY FEATURES

- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

#### TECHNICAL DATA

Max. operating pressure:	90 bar
Electric motor:	AC supply
Pump delivery:	11 l/min
Rating:	1.5 kW
Max. working length:	20 m
Speed:	1,400 min <sup>-1</sup>

Scope of delivery: HD 11 / 90 (No. 76070), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76089)

Model 400 V/50 Hz

High-pressure pipe cleaning unit HD 11 / 90 50.0 **76070**

### HD 13/100

100 bar high-pressure pipe  
cleaning unit with hose reel



Ø 150 mm



#### KEY FEATURES

- Air-filled transport wheels, easy to navigate stairs
- AC supplied, self-priming up to 2 m

#### TECHNICAL DATA

Max. operating pressure:	100 bar
Electric motor:	AC supply
Pump delivery:	13 l/min
Rating:	2.3 kW
Max. working length:	20 m
Speed:	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**

### HD 17 / 190

190 bar high-pressure cleaner  
with three-phase motor



Ø 200 mm



#### KEY FEATURES

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

#### TECHNICAL DATA

Max. operating pressure:	190 bar	Electric motor:	Three phase
Pump delivery:	17 l/min	Rating:	5.0 kW
Max. working length:	40 m	Speed:	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 400 V/50 Hz

High-pressure pipe cleaning unit HD 17 / 190 50.0 **76070**

### HD 19/180 B

180 bar Hochdruckreiniger  
mit Benzinmotor



Ø 200 mm

Mit Benzinmotor!



#### KEY FEATURES

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

#### TECHNICAL DATA

Max. operating pressure:	180 bar	Rating:	8.1 kW
Pump delivery:	19 l/min	Speed:	1,800 min <sup>-1</sup>
Max. working length:	40 m	Petrol engine:	Honda
Tank capacity:	6,5 l	Consumption:	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 No.

High-pressure pipe cleaning unit HD 19 / 180 B 78.5 **76090**



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### Accessories HD 11/90



No. 76073



No. 72810

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	0.20	<b>76066</b>
for intake from containers, length 3.0 m		

### Accessories HD 13/100 – 17/190 – 19/180



No. 76067



No. 76066

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	1.30	<b>76068</b>
for surface cleaning		
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	0.20	<b>76066</b>
for intake from containers		

## 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

# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning


### ROJET® 30/130

High-pressure cleaning unit for pipes from Ø 40 - 200 mm

Product Profile	
TECHNICAL DATA	
Motor:	Tough 4-stroke petrol engine, 1 cylinder, air-cooled, E-Start, rating 9.5 KW (13 HP), normal petrol
Starter battery:	12 Volt, 36 Ah
High-pressure pump:	3-plunger pump, delivery 30 l/min - 130 bar
Water tank:	Plastic, contains 200 litre
High-pressure reel:	Stainless steel reel, rotatable water coupling, manual operation
Filling reel:	Stainless steel reel, rotatable water coupling, manual operation
High-pressure hose:	DN 12, length 50 m (R 1/2" coupling)
Filling hose:	DN 19, length 50 m (R 1/2" coupling)
Included in delivery:	High-performance nozzle 1/2"
Trailer:	Break-free box trailer
Covering:	Tarpaulin and frame, height 800 mm
Overall-dimensions:	2,520 x 1,480 x 1,700 mm (L x W x H)
Gross vehicle weight	550 kg
Included in delivery:	1 parking stand

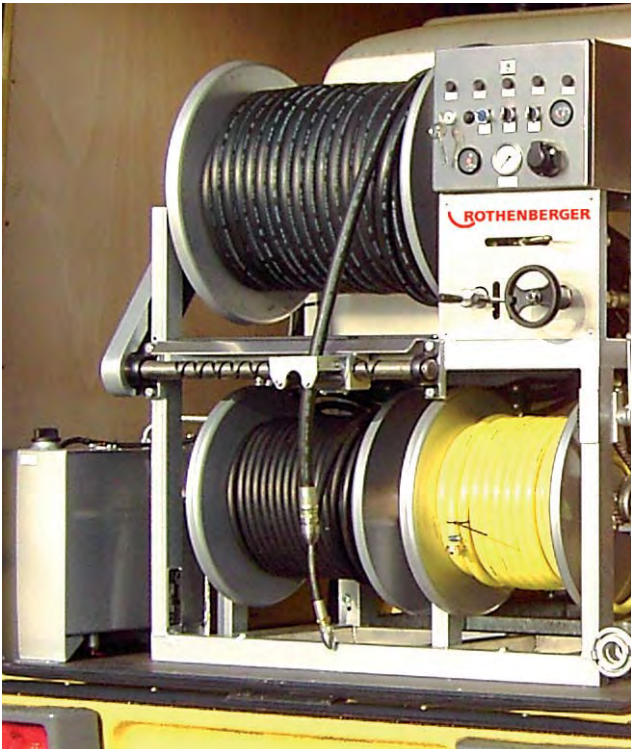
Includes (No. 76300): basic unit with trailer, standard nozzle with forward jetting (No. 76135)

Includes (No. 76462): nozzle holder (No. 76309), standard nozzle with forward jetting (No. 76135), grenade nozzle (No. 77631), rotating nozzle (No. 77621) and quattro nozzle (No. 77611)

	
Model	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>
For other extras/optional equipment, please see the table on 256	

### ROJET® 130/160

High-pressure drain cleaning unit for professional use up to Ø 500 mm



Product Profile	
TECHNICAL DATA	
Main frame:	Profiled steel, hot-galvanised, partially coated
Engine:	Diesel engine, 4-cylinder, water cooled, turbocharger, automatic speed control, rating 44 KW (60 HP)
Pump:	3-plunger pump, delivery 128 l/min at 160 bar
Starter battery:	12 Volt/36 Ah
Large High-pressure reel:	Hydraulic drive, continuously adjustable with HD hose DN 19, length 80 meters
Small High-pressure reel:	Hydraulic drive, continuously adjustable with HD hose DN 12, length 80 meters
Filling reel:	Manual operation, with filling hose DN19, length 50 meters
Water tank:	Plastic, 800 l. Other sizes available
Fuel tank:	Capacity 27 litre
Dimensions:	2,300 x 1,400 x 1,360 mm (L x W x H). Suitable for the Mercedes Sprinter and similar vehicles
Weight:	approx. 900 kg
Equipment:	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
<hr/>	
Model	No.
ROJET® 130/160	900 <b>76485</b>
For other extras/optional equipment, please see the table on 256	

# 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



No. 76302



No. 76200

Remote control and other optional equipment is available, please see table below!

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### ROJET®

#### Optional equipment

ROJET®		30/130	40/100	50/120 60/140	85/160 100/160 100/200	130/160
	No.					
<b>Water tank</b>						
800 litres	76220	n/a	●	●*	S	S
1,000 litres	76221	n/a	●	●*	●	●
<b>Remote control</b>						
Cable, 6-functions	76226	n/a	n/a	●	●	
Radio, 6-functions	76302	n/a	n/a	●	●	
Cable, Radio	76331	n/a	n/a	●	●	●
<b>Working spot lights</b>						
Base frame	76232	n/a	n/a	●	●	●
Base frame:	Necessary when wheelhouse distance is less than 1.2 meters					
Aluminium floor	76228					
Autom. filling stop	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® 85/160 R 3/4" - R 1/2"	R 1/2"	70 x 105	0.177	<b>76193</b>
For ROJET® 100/200 R 3/4" - R 1/2"	R 1/2"	70 x 105	0.177	<b>76179</b>
For ROJET® 130/150 R 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>76443</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>76444</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>

### 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 professional nozzle set

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"			

### 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>

### 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 254		



### High-Pressure Hose

- Highly flexible
- Complete with couplings



Nominal diameter mm	Coupling	L m	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	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



No. 77500



No. 77501

Model	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"



No. 76118

Set (No. 76118) includes: Hose reel with manual crank, shut-off valve and swivel joint, 40 m high-pressure hose DN 8 with coupling R 1/4" (No. 72820), drain cleaning nozzle R 1/4" (No. 76055)

Model	kg	No.
Hose reel, complete with hose	26.5	<b>76118</b>
Hose reel, inlet 1/2" with hose	17.0	<b>76160</b>
40 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>



**ONE**  
of  
**6.000**

**Premium tools for  
professionals!**







# ROWELD®

## Plastic Pipe Welding

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# Plastic Pipe Welding

## System Overview

### Cutting

**ROCUT® 110**



**ROCUT®160**



**ROCUT® XL 125**



**ROCUT® XL 225**



<b>Suited for</b>	PE, PP, PVC, PEX, PVDF, PB***	PE, PP, PVC, PEX, PVDF, PB***	PE	PE
<b>Outer pipe diameter:</b>	Ø 32 - 110 mm	Ø 110 - 160 mm	up to Ø 125 mm	up to Ø 225 mm
<b>Wall thickness:</b>	up to max. 16 mm*	up to max. 16 mm*	up to max. 11,4 mm	up to max. 18 mm
<b>Operation mode:</b>	manual	manual	manual	manual
<b>Function:</b>	Cutting, Chamfering	Cutting, Chamfering	Cutting	Cutting
<b>Page</b>	<b>264, 265</b>	<b>264, 265</b>	<b>266</b>	<b>266</b>

### Socket Welding

**Heating Plate HE 120**



**Heating Plate HE 200**



**Heating Plate HE 300**



<b>Suited for:</b>	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
<b>Outer pipe diameter:</b>	up to Ø 120 mm	up to Ø 200 mm	up to Ø 300 mm
<b>Wall thickness:</b>	–	–	–
<b>Operation mode:</b>	manual	manual	manual
<b>Page</b>	<b>267</b>	<b>267</b>	<b>267</b>

### Electro-Fusion Welding

**ROFUSE Sani 160**



**ROFUSE 400 TURBO**



**ROFUSE 1200 TURBO**



<b>Suited for:</b>	PE, PP	PE, PP	PE, PP
<b>Outer diameter:</b>	up to Ø 160 mm	up to Ø 400 mm	up to Ø 1200 mm**
<b>Socket type:</b>	Sockets for pressureless systems	Sockets for pressure sewer systems	Sockets for pressure sewer systems
<b>Voltage:</b>	230 V	8 - 48 V	8 - 48 V
<b>Documentation:</b>	–	✓	✓

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# Plastic Pipe Welding

## System Overview

### Cutting

**ROCUT® XL 315**



**ROCUT® UKS 160 / 355**



### Socket Welding

**ROWELD® P63-S6**



**ROWELD® P125**



<b>Suited for:</b>	PE	PE, PP, PVC	PE, PP	PE, PP
<b>Outer pipe diameter:</b>	up to Ø 315 mm	Ø 160 - 355 mm	up to Ø 160 mm	up to Ø 400 mm
<b>Wall thickness:</b>	up to max. 18 mm	up to max. 40 mm	32 - 63 mm	16 - 125 mm
<b>Operation mode:</b>	manual	manual	manual	electric
<b>Function:</b>	Cutting	Cutting	Socket welding	Socket welding
<b>Page</b>	<b>266</b>	<b>266</b>	<b>268</b>	<b>267</b>

### Butt Welding

**ROWELD® P110**



**ROWELD® P160**



**ROWELD® P250A**



<b>Suited for:</b>	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
<b>Outer pipe diameter:</b>	Ø 20 - 110 mm	Ø 40 - 160 mm	Ø 40 - 250 mm
<b>Wall thickness:</b>	SDR see Technical Data	SDR see Technical Data	SDR see Technical Data
<b>Operation mode:</b>	manual	manual	manual
<b>Page</b>	<b>274, 275</b>	<b>276, 277</b>	<b>278, 279</b>

### Hot Gas Welding

**ROWELD® Quick S**



**ROWELD® WG 1600 E**



<b>Suited for:</b>	thermoplastics, technical Textiles, Roofing materials Sheets, Pool liners, Films	thermoplastics, technical Textiles, Roofing materials Sheets, Pool liners, Films
<b>Power:</b>	1.500 W	1.500 W
<b>Weight:</b>	1,4 kg	0,7 kg
<b>Air requirement:</b>	–	80 - 250 l/min
<b>Page</b>	<b>270</b>	<b>270</b>

# Plastic Pipe Welding

## Cutting

### 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



No. 55035

**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



No. 55063

**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)



#### Handheld operation



#### Clamping in a parallel vice



#### ROCUT® 160 with cutter blade



#### ROCUT® 110 with cutter wheel (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 265





### 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)

ROCUT® 110 with cutter wheel (No. 54950) (special accessories)



No. 55020

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)

### 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

ROCUT® 160 with cutter blade



No. 55030

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)

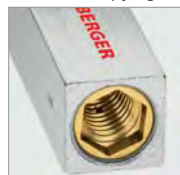


No. 54960



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>

### Cutter Wheels

#### ROCUT® 110 and ROCUT® 160



No. 54950

No. 055053D

No. 055054D

No. 055074D

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

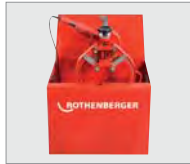
## Cutting

### 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	
<ul style="list-style-type: none"> <li>● Right-angled cuts with no misalignment</li> <li>● Efficient and economical operation with high cutting speed</li> <li>● Safe operation with saw blade guard</li> <li>● Optimum pipe centering</li> </ul>	
TECHNICAL DATA	
Voltage:	230 V 50/60 Hz
Power:	1,750 W
Outer pipe diameters:	160 - 355 mm
Wall thickness pipe:	8 - 40 mm

Transport box without saw  
No. 1200000526



Four rubberised  
clamping & guide rollers  
ensure right-angled cuts  
with no misalignment



Secure clamping and  
optimum pipe centring  
are guaranteed by  
the central trapezoidal  
clamping device



Saw blade guard

Safe operation

Central  
clamping

Optimum  
pipe centring



No. 55505



Rubberised guide rollers

Right-angled cuts with  
no misalignment

Model	kg	No.
ROCUT® UKS 160 / 355, complete with	12.9	1000000532
HM saw blade (No. 55505), without transport box		
Spare HM saw blade 180 x 30 mm	0.6	55505
Transport box 700 x 350 x 500 mm	16.8	1200000526

### ROCUT® XL

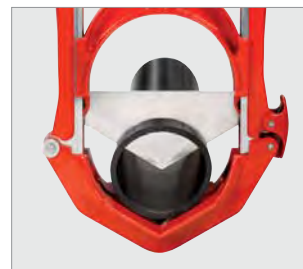
Pipe cutter for pipes Ø 125 - 315 mm

Product Profile	
APPLICATION AREA	
For cutting-off pipes in trenches, for making repairs or extensions	

KEY FEATURES	
<ul style="list-style-type: none"> <li>● Can be easily adjusted anywhere at the pipe</li> <li>● Robust blade made of stainless steel</li> </ul>	



An optimised cutting angle for easier  
pipe cutting





The lower clamp can be folded out  
completely. Therefore ROCUT® XL  
can be used at any desired position  
of the pipe



#### Replacement blade

Scope of delivery: 1 replacement blade + fastening screws

Description	 mm	 Inch	Wall thickness	No.
ROCUT® XL 125 up to 125 mm		up to 4"	max. 11.4 mm	1500000789
ROCUT® XL 225 up to 225 mm		up to 8"	max. 18 mm	1500000790
ROCUT® XL 315 up to 315 mm		up to 12"	max. 18 mm	1500000792

Model	kg	No.
For ROCUT® XL 125	0.3	1500000793
For ROCUT® XL 225	0.7	1500000794
For ROCUT® XL 315	2.1	1500000795



### 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

#### Product Profile

##### APPLICATION AREA

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp

##### 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

Model	Power watts	mm	Control Model	kg	230 V 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>



No. 55321

Heating spigots / Heating sockets



Adaptor plate



#### 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>

### ROWELD® HE Heating Plates

Heating plates for butt welding of PE, PP, PVDF and PB pipes and fittings with Ø 20 - 250 mm

#### Product Profile

##### APPLICATION AREA

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	Heating element Ø mm	Control Model	kg	230 V 50/60 Hz	110/115 V 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>

#### 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>
Adaptor plate for butt welding ROWELD® P 125 Ø 160 mm (1 set = 2 pcs) non-stick Teflon coating				1.15	<b>55536</b>



# Plastic Pipe Welding

## Socket Welding

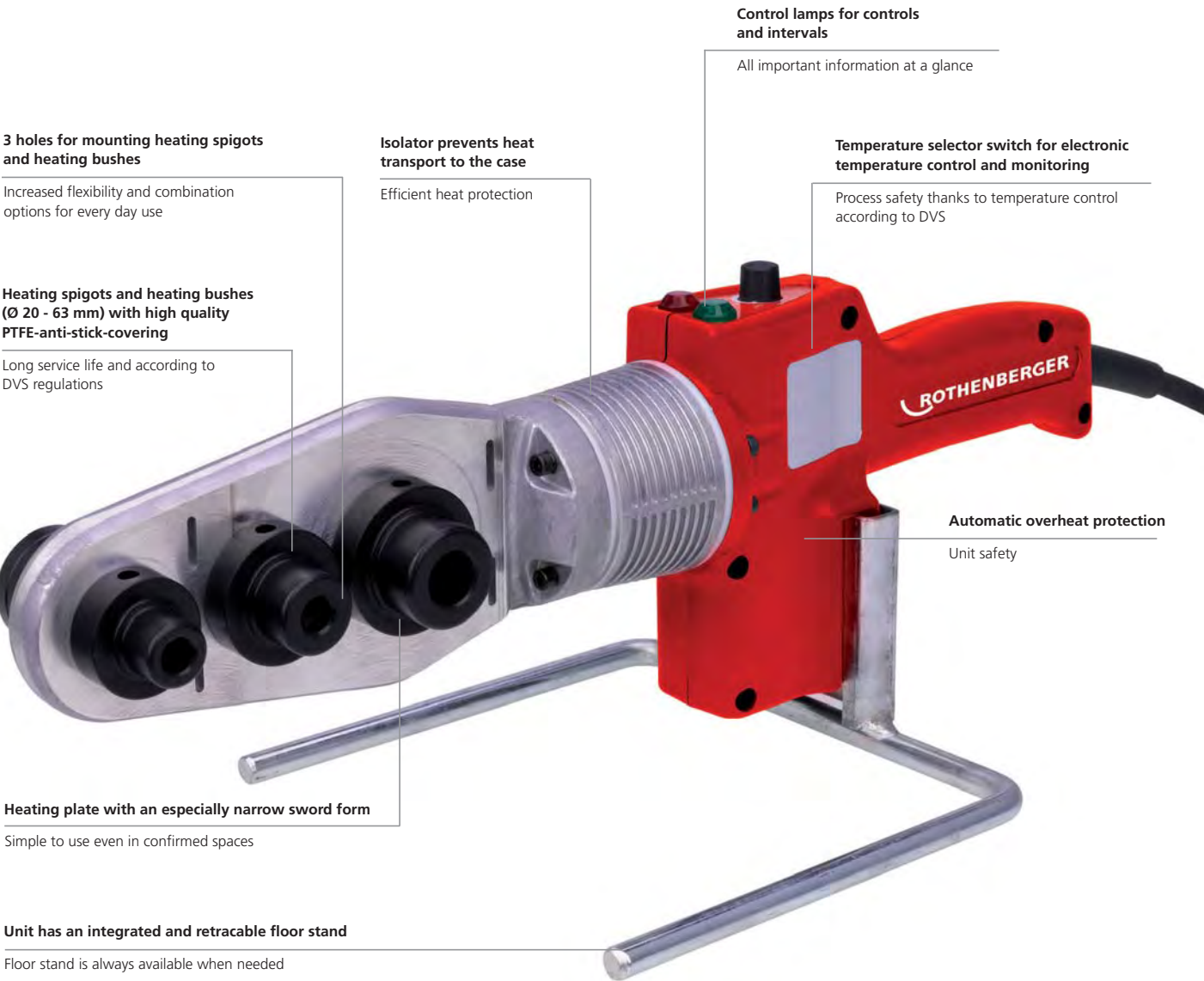
### ROWELD® P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm



Product Profile
<b>APPLICATION AREA</b>
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
<b>KEY FEATURES</b>
<ul style="list-style-type: none"><li>● Increased flexibility and combination options for every day use</li><li>● Long service life and according to DVS regulations</li><li>● All important information at a glance</li><li>● Safe operation with the temperature control as per DVS regulations</li></ul>

KEY FEATURES
<ul style="list-style-type: none"><li>● Light and handy for fatigue-free use</li><li>● Simple to use even in confined spaces</li><li>● Floor stand is available at all times</li></ul>
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 110 / 115 V, 50 / 60 Hz



# 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, table mounting clamp, loor stand, plastic carrying case




Fig. P 63 S-6, thermostatically controlled

Electronically controlled for a constant temperature!



Fig. P 63 S-6, electronically controlled

Model	Working range Ø mm	Control watts	Description		230 V	110/115 V
P 63 S-6 set	20, 25, 32	800	thermostatic	4.30	053892X	053894X
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	thermostatic	5.30	053893X	1000001245
P 63 S-6 set	20, 25, 32	800	electronically	4.30	053890X	
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	053891X	
P 63 S-6 single unit		800	thermostatic	1.78	053897X	1000001270
P 63 S-6 single unit		800	electronically	1.78	053896X	

P 63 S-6 set thermostatically controlled





Secure workbench operation, integrated holder for the table mounting clamp



### 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		No.
20	80	53511
25	100	53512
32	170	53513

Working range Ø mm		No.
40	260	53514
50	370	53515
63	600	53516

# Plastic Pipe Welding

## Hot Gas Welding

### 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		230 V 50 / 60 Hz
ROWELD® Quick S complete with 5 mm tubular nozzle (No. 55769)	1.4	<b>55760</b>

Model		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.			No.
Universal tubular nozzle	<b>1</b>	5.0	40	<b>55769</b>
Wide slot nozzle, angled	<b>2</b>	20.0	50	<b>55778</b>
Wide slot nozzle	<b>3</b>	40.0	60	<b>55779</b>
Speed nozzle for round welding rod	<b>4</b>	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	<b>5</b>	5.0	20	<b>55776</b>
Triangular speed nozzle for profiled welding rod		7.5	20	<b>55777</b>
Tacking nozzle	<b>6</b>		20	<b>55772</b>
Shrinkage reflector	<b>7</b>		60	<b>55783</b>

Model	Part-No.		No.
Pressure roller, 45 mm for overlap welding of sheets	<b>8</b>	210	<b>55816</b>
Universal scraper set for preparing welded seams (consisting of handle, triangular, heart and multi-shaped blades)	<b>9</b>	210	<b>53380</b>
Phillips screwdriver for nozzle mounting	<b>10</b>	40	<b>73152</b>
Heating plate 1,500 Watt	<b>11</b>	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)	<b>12</b>	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 54)
- Automatic welding parameter settings

##### TECHNICAL DATA

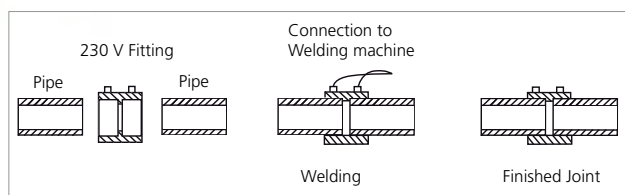
Input Voltage:	230 V
Tolerance:	180 V - 280 V
Frequency:	40 Hz - 70 Hz
Output voltage:	230 V
Protection class:	IP 54
Temperature range:	-5 °C up to + 40 °C
Max. Output current:	5 A
Weight:	1.4 kg
Dimensions:	120 x 160 x 77 mm
Welding cable:	3 m



Carrying bag



Easy to transport



Model



No.

ROWELD® ROFUSE Sani 160 with carrying bag

1.4

54230

# Plastic Pipe Welding

## Electro-Fusion Welding

### ROFUSE 400/1200 TURBO

Universal electrofusion welding units for PE- and PP-fittings up to 400 and up to 1200 mm diameter.

Product Profile	
KEY FEATURES	
<ul style="list-style-type: none"> <li>● <b>Safety:</b> The Heat-Control (HC) function evaluates based on ambient temperature, device temperature and fitting and checks if the next fitting can be welded completely. This process is fully automated and indicated through a green or a red light shown on the display. This prevents any emergency shut-off of the unit due to overheating.</li> <li>● <b>Performance:</b> Due to the Active-Cooling (AC) function, the unit is ideally fitted for continuous use since the heat removal is maximised by the installed ventilator.</li> <li>● <b>Complete solution:</b> All cables are securely stowed away inside the robust housing. The housing also offers sufficient space for accessories, tools or fittings.</li> <li>● <b>Professional Documentation:</b> All saved welding sequences can be transferred to a computer with a USB drive. From the computer the data can be archived and printed using the read out programme "RODATA 2.0".</li> <li>● <b>Barcode Generator:</b> „RODATA 2.0“ offers also the possibility to encrypt the name of the welder and the name of the construction site as a barcode. This barcode can then be scanned at the job site.</li> </ul>	
TECHNICAL DATA:	
<b>Mains Voltage:</b>	230 V
<b>Frequency:</b>	50 Hz / 60 Hz
<b>Power:</b>	3.000 VA, 70 % ED
<b>Output current (nominal output):</b>	80 A
<b>Welding voltage:</b>	8 - 48 V
<b>Ambient temperature:</b>	-10 °C up to 60 °C
<b>Working range</b>	
<b>ROFUSE 400 TURBO:</b>	Fittings up to 400 mm
<b>ROFUSE 1200 TURBO:</b>	Fittings up to 1200 mm
<b>Protection class:</b>	IP 54
<b>Transmission interface:</b>	USB v 2.0
<b>Storage capacity:</b>	2.000 welding logs
<b>Weight incl. welding cable:</b>	approx. 21,5 kg
<b>(Basic unit without accessories)</b>	

**A language neutral instruction manual**

Easy to operate

**USB**

Simple data transmission

**A clear display**

Allows intuitive operation.  
The program sequence can be adapted individually

**Wireless Scanner**

Simple and unlimited handling

**A practical pocket**

for the welder's name and scan site-code

**Height-adjustable cover**

Can be used as a sun shield

**A robust housing**

The cable can be stowed away securely

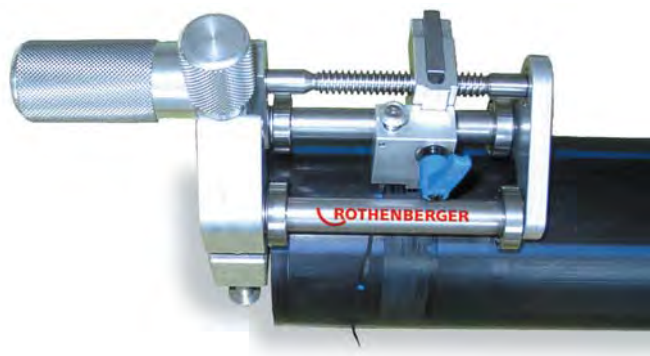
**Improved heat removal compared to previous model**

Model		No.
ROFUSE 400 TURBO	21,5	1000000999

Model		No.
ROFUSE 1200 TURBO	21,5	1000001000

### Peeling device for electric socket welding

For secure, quick preparation of the pipe, in transport case.



Description	Ø Model	No.
Size I	32 - 110 mm	<b>53240</b>
Size II	110 - 500 mm	<b>53250</b>

### Squeezing device

- **Mechanical:**

Range of use from Ø 32 - Ø 63 mm.  
To avoid damage to the squeezed area, distance plates can be adjusted on the side.

- **Hydraulic:**

Range of use from Ø 75 - Ø 225 mm.  
Functions as mentioned above.  
With this unit you can reform squeezed pipes with the help of the rounding shells.



Description	Ø Working range	No.
Squeezing device mechanical	32 - 63 mm	<b>53200</b>
Squeezing device hydraulic	75 - 180 mm	<b>53210</b>
Squeezing device hydraulic	160 - 225 mm	<b>53220</b>

### Clamping device for electric socket welding

For alignment and fixation of the pipe before and during the welding cycle.

### Double clamp short

For alignment and fixation of the pipe before and during the welding cycle.

Description	Ø	No.
Double clamp adjustable	32 mm	<b>53251</b>
Double clamp adjustable	40 mm	<b>53252</b>
Double clamp adjustable	50 mm	<b>53253</b>
Double clamp adjustable	63 mm	<b>53254</b>
Double clamp short	75 mm	<b>53255</b>
Double clamp short	90 mm	<b>53256</b>
Double clamp short	110 mm	<b>53257</b>
Double clamp short	125 mm	<b>53258</b>
Double clamp short	140 mm	<b>53259</b>
Double clamp short	160 mm	<b>53260</b>
Double clamp short	180 mm	<b>53261</b>
Double clamp short	200 mm	<b>53262</b>
Double clamp short	225 mm	<b>53263</b>

### Quad clamps

For manufacturing standard connections with rod shaped material Ø 63 - 225 mm.

### Rounded clamps

For fixation of the welding depth and for rounding PE pipes after squeezing.

Description	Ø	No.
Quad clamp	75 mm	<b>53272</b>
Quad clamp	90 mm	<b>53273</b>
Quad clamp	110 mm	<b>53274</b>
Quad clamp	125 mm	<b>53275</b>
Quad clamp	140 mm	<b>53276</b>
Quad clamp	160 mm	<b>53277</b>
Quad clamp	180 mm	<b>53278</b>
Quad clamp	200 mm	<b>53279</b>
Quad clamp	225 mm	<b>53280</b>
Rounded clamp	25 mm	<b>53281</b>
Rounded clamp	32 mm	<b>53282</b>
Rounded clamp	40 mm	<b>53283</b>
Rounded clamp	50 mm	<b>53284</b>
Rounded clamp	63 mm	<b>53285</b>



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 110

Plastic pipe welding machine Ø 20 - 110 mm



Product Profile
<b>APPLICATION AREA</b> 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
<b>KEY FEATURES</b> <ul style="list-style-type: none"> <li>● Production of segmented bends possible</li> <li>● Precise pressure adjustment</li> <li>● Single and double-sided trimming possible</li> </ul>

KEY FEATURES
<ul style="list-style-type: none"> <li>● Production of pipe and fitting joints</li> <li>● Secure hold and simple axial pipe alignment</li> </ul>
TECHNICAL DATA
<b>Pipe diameter:</b> Ø 20 - 90 mm (SDR 41 - SDR 7.25) 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

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Hardened, chrome-plated guide shafts

Absolutely warp-resistant

Wide aluminium reducer clamp inserts (Ø 20 - 90 mm) for pipes and pipe joints

Secure hold and simple axial pipe alignment

Angles of the wide basic clamping elements adjustable on both sides (15° each)

Segmented bends can be produced

Direct force transmission and clear force scale

Precise pressure adjustment

12

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 Ø mm	Temperature control	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD® P 110 complete	40, 50, 56, 63, 75, 90, 110	electronically	43	55844	55924

# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 110 Basic Machine

Model	kg	No.
ROWELD® P 110 basic machine 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 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled	2.6	<b>55324</b>	<b>55918</b>
Table clamp	0.7	<b>55524</b>	<b>55524</b>



No. 5.5324



### 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

## Butt Welding

### ROWELD® P 160 SANILINE

Plastic sanitary pipe welding machine from Ø 40 - 160 mm



Product Profile

APPLICATION AREA

KEY FEATURES

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

- 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

TECHNICAL DATA

- Minimum drag force
- 40% higher stability with simultaneously optimised force distribution
- All common sanitary installation fittings can be clamped

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

#### Multi-faceted options for clamping

All commonly used moulded bodies installed in a sanitary installation can be clamped

#### Anti-slip Ø 40 - 140 mm reduction clamping inserts with clamping force regulation

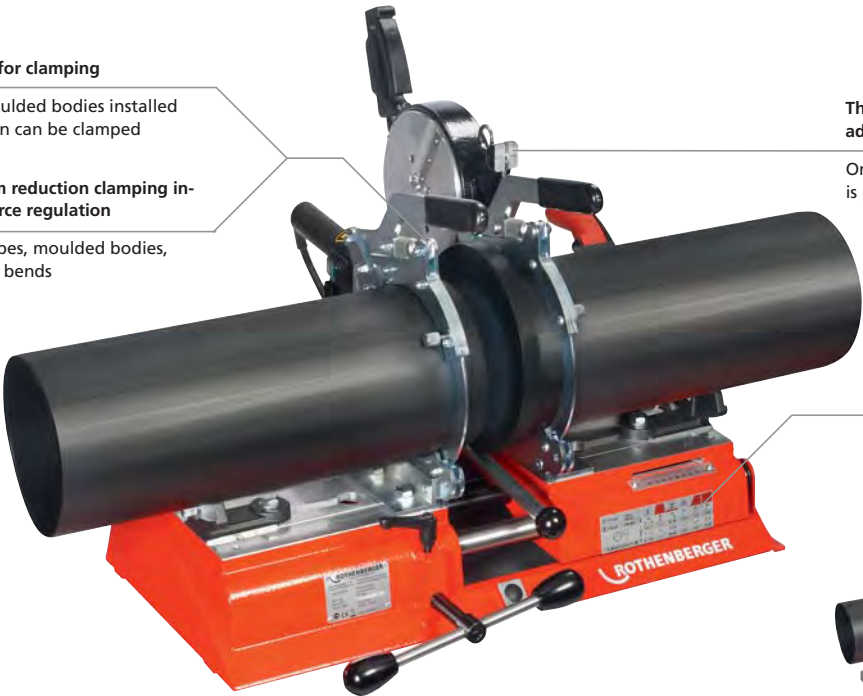
Secure mounting of pipes, moulded bodies, tight 45° forks and 90° bends

The pressure applied can be adjusted separately on both sides

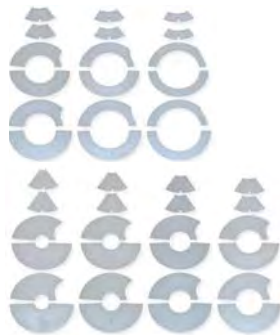
One-sided and two-sided milling is possible

Direct force transmission and a clearly arranged force scale

Precise force adjustment



Saniline special edition with Folding trolley (No. 54401)




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)

Model	Working range Ø mm	Temperature control		230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 160 SANILINE complete	40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	54000	54001
ROWELD® P 160 SANILINE special edition	40, 50, 63, 75, 90, 110, 125, 160	electronically	61.2	54004	



### 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

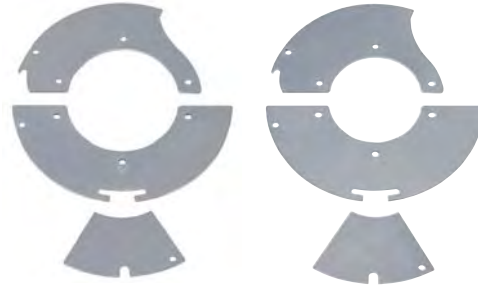
Model		230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 160 SANILINE Basic machine	34.4	54005	54006



### Reducer Clamping Inserts


Set includes: Reducer inserts (4 half-shells), pipe supports

Nominal size		No.	Nominal size		No.
40	1.6	54083	90	1.6	54088
50	1.6	54084	110	1.7	54089
56	1.6	54085	125	1.5	54090
63	1.6	54086	140	1.5	54091
75	1.6	54087			



### Trimmer Adaptor (special accessories)


Ø 40 - 75 mm for trimming 45° branches, replaceable blades

Model		No.
Trimmer attachment for 45° branches Ø 40 - 75 mm	0.63	54040



### 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		No.
Basic clamping set	Ø 160 mm	5.3 54082



### ROWELD® P 160 SANILINE Conversion Kit

Converting existing ROWELD® P 160 SANILINE with 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		No.
Conversion Kit	40, 50, 63, 75, 90 110, 125, 160	11.20	54080
Trolley and transport sub-frame		11.30	54015
Folding trolley		20.00	56051
Steel case for reducer inserts		2.32	54020
Open-ended spanner SW 17 DIN 894		0.05	310411
Trimmer unit blades 75 mm (Set = 2 blades)		0.10	55685
Blades 35 mm for trimmer adaptor		0.01	55686
Heating plate 230 V / 115 V / 110 V		1.92	55316 / 55851
Trimmer blade, carbide 75 mm Set = 2 blades		0.05	55684



No. 54080



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 250 A

Plastic pipe welding machine Ø 40 - 250 mm



Product Profile
<b>APPLICATION AREA</b>
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
<b>KEY FEATURES</b>
<ul style="list-style-type: none"> <li>• Versatile for difficult situations with the removable heating plates</li> <li>• Protects against unintentional starting and derailing of the trimmer unit</li> <li>• Single and double-sided trimming possible</li> <li>• Warp-resistant for minimum drag and low pressure transfer loss</li> </ul>

KEY FEATURES
<ul style="list-style-type: none"> <li>• Precise welding pressure adjustments on the clear force scale</li> <li>• Reliable, warp-resistant transfer of the welding pressure</li> <li>• Stable working table always available</li> </ul>
TECHNICAL DATA
<b>Pipe diameter:</b> <div> <div>Ø 40 - 110 mm (SDR 41 - SDR 7.25)</div> <div>Ø 40 - 125 mm (SDR 41 - SDR 11)</div> <div>Ø 40 - 200 mm (SDR 41 - SDR 17.6)</div> <div>Ø 40 - 225 mm (SDR 41 - SDR 26)</div> <div>Ø 40 - 250 mm (SDR 41 - SDR 33)</div> </div>
<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

Removable heating plate

Versatile for difficult situations

Mechanical stop adjustable from both sides


Single and double-sided trimming possible

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

Model	Working range Ø mm	Temperature control		230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250	electronic	131.0	55795	55796
ROWELD® P 250 A basic machine			36.1	55768	55738

### ROWELD® P 250 A Set

#### Basic machine with trimmer unit

Set includes: 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



### Basic Clamping Set

Set includes: 2 basic clamps and 2 support forks

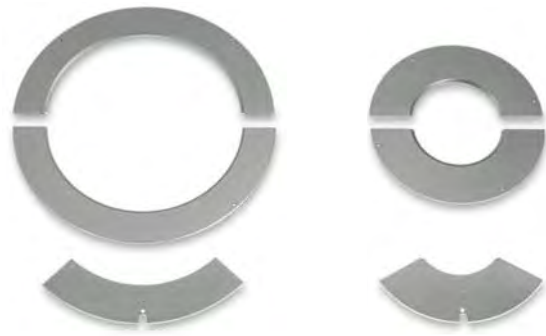
mm	kg	No.	mm	kg	No.
160	7.25	55742	250	10.10	55717



### 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	55753	110	1.26	55746
40	1.89	55752	114	1.20	55745
50	1.81	55751	125	1.06	55744
56	1.83	55750	140	0.80	55743
63	1.75	55749	180	2.46	55721
75	1.68	55748	200	2.03	55718
90	1.50	55747	225	1.41	55719



### Heating Plate

Non-stick Teflon coating. Ø 300 mm, 1,500 Watt

Model	kg	230 V 50 / 60 Hz	110 V / 115 V 50 / 60 Hz
Electronically controlled	5.35	55317	55854
Spare knife (1 set = 2 piece)	0.10		55163
Allen key size 8	0.20	321218	321218
Transport box, protective cover red	25.00	55759	55759
Steel carrying case	2.82	54020	54020



No. 55317 / No. 55854






# Plastic Pipe Welding

## Butt Welding

### The new generation of ROWELD® hydraulic controls for butt welding

The ROWELD® hydraulic unit is available in a **professional** and **premium** version.  
The premium hydraulic unit is divided into **Premium** and **Premium CNC** capacities.

Everything at a glance...			
	Type Professional	Type Premium	Type 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	—	•	•

### ROWELD® type Professional

Hydraulic butt welding machine Ø 40 - 1200 mm.  
Selection of components with a long service life ensures a low maintenance, robust and reliable operating mode.

Product Profile
APPLICATION AREA
For heating element butt welding of PE, PP and PVDF pipes and moulded bodies. For use on the building site, in pipe trenches, on pipe bridges and in workshops. The ROWELD® Hydraulic type Professional with infinite pressure adjustment, an easily legible manometer and pressure reservoir for welding according to DVS and other internationally valid guidelines and standards.

WORKING RANGE		
Description	ø mm	ø Inch
P 160 B / P 5 B	40 - 160 mm	1.1/4" - 5"
P 200 B	63 - 200 mm	
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	710 -1200 mm	28 - 48"



Set P 355 B  
No. 1000000383

### ROWELD® type Premium

**Hydraulic butt welding machine Ø 90 - 630 mm.**

The Premium Hydraulic System guides the user step-by-step through the welding process. All parameters are documented automatically.

#### Product Profile

##### APPLICATION AREA

The ROWELD® Hydraulic Premium with an integrated logging module for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

##### WORKING RANGE

Description	ø mm	ø Inch
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"



#### TECHNICAL DATA

<b>Automatic logging:</b>	10,000 logs
<b>Data output:</b>	USB interface
<b>Languages:</b>	DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, further languages available upon request
<b>Welding monitoring:</b>	Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions in accordance to DVS
<b>Logging:</b>	in accordance to DVS
<b>Welding standards:</b>	DVS, further standards available upon request, manual entry of welding parameters is possible



Set P 355 B  
No. 1000000562

### ROWELD® type Premium CNC

**Hydraulic butt-welding machine Ø 90 - 630 mm.**

The Premium CNC System enables a nearly fully automated operation. All parameters are documented automatically

#### Product Profile

##### APPLICATION AREA

The ROWELD® Hydraulic Premium CNC with integrated CNC control and touch screen panel for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

##### WORKING RANGE

Description	ø mm	ø Inch
P 250 B SA / P 8 B SA	90 - 250 mm	5 - 8"
P 250 B VA / P 8 B VA	90 - 250 mm	5 - 8"
P 355 B SA / P 12 B SA	90 - 355 mm	5 - 12"
P 500 B SA / P 18 B SA	200 - 500 mm	8 - 18"
P 630 B SA / P 24 B SA	315 - 630 mm	12 - 24"

SA = semi-automatic  
VA = fully automatic



Set P 355 B  
No. 1000000563

#### TECHNICAL DATA

<b>Automatic logging:</b>	10,000 logs
<b>Data output:</b>	USB interface
<b>Languages:</b>	DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, further languages available upon request
<b>Welding monitoring:</b>	Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions in accordance to DVS
<b>Logging:</b>	in accordance to DVS
<b>Welding standards:</b>	DVS, further standards available upon request, manual entry of welding parameters is possible
<b>With CNC Funktion:</b>	During the welding process, all movements are performed by the machine, including dragging resistance and bead development measurement. Automatic extending heading element enables a fully-automatic welding process (optional, not available for all machines)

# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 315 W / P 315 W CNC

Heating plate butt welding machine Ø 90 - 315 mm



Product Profile	
APPLICATION AREA	
<ul style="list-style-type: none"> <li>● High-performance butt welding machine for single and serial production in the workshop</li> <li>● For butt welding of PE, PP and PVDF pipes and fittings from</li> <li>● Universal machine for pipe/pipe, pipe/fitting, pre-sealing strip welding</li> <li>● Perfect for the prefabrication of pipe elbow segments and T-pieces</li> </ul>	
TECHNICAL DATA	
Electrical Hydraulic unit:	400 W 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 <b>P 315 W Basic:</b> 385 kg <b>P 315 W CNC complete:</b> 523 kg <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.	
KEY FEATURES	
<ul style="list-style-type: none"> <li>● Reliable, warp-resistant transfer of the welding force and exact control of the welding pressure</li> <li>● Long-lasting heating plate according to DVS, CEN and ISO guidelines</li> <li>● 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</li> </ul>	

TECHNICAL DATA	
Electric-hydraulic unit:	2,250 W 400 V, 50/60 Hz
Electric trimmer unit:	3 kW 400 V, 50/60 Hz
Heating plate:	14 kW 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



### ROWELD® Manual welding extruder with integrated air supply

For welding containers, installations and pipeline construction in workshop and building site operation

#### Product Profile

##### WORKING RANGE

Description	Ø welding wire	Range of use
ROWELD® D2/20	3 mm	2 - 10 mm
ROWELD® D4/15 Aero Basic	3 mm, 4 mm	4 - 15 mm
ROWELD® D4/15 Aero	3 mm, 4 mm	4 - 15 mm
ROWELD® D8/30 Aero	3 mm, 4 mm	8 - 30 mm

##### TECHNICAL DATA

Description	Welding material	Welding performance	Power consumption	Temperature display	360° rotatable Pre-warming
ROWELD® D2/10	PE, PP, PVDF, PVC, PVC-C	Ø 3 mm, 0.6 kg/h	Pre-warming fan: 2.3 kW Heating belt 75 W	digital	
ROWELD® D4/15 Aero Basic	PE, PP, PVDF	Ø 3 mm, 1.1 kg/h	2.7 kW		•
	PE, PP, PVDF	Ø 4 mm, 1.8 kg/h	2.7 kW		
ROWELD® D4/15 Aero	PE, PP, PVDF	Ø 3 mm, 1.1 kg/h	3.4 kW	digital	•
	PE, PP, PVDF	Ø 4 mm, 1.8 kg/h	3.4 kW	digital	
ROWELD® D8/30 Aero	PE, PP, PVDF	Ø 3 mm, 1.8 kg/h	3.4 kW	digital	•
	PE, PP, PVDF	Ø 4 mm, 3.2 kg/h	3.4 kW	digital	



ROWELD® D4/ 15 Aero  
No. 55503

Sturdy drive  
long-lasting

### ROWELD® Manual welding extruder

Scope of delivery: 1 welding shoe, 1 set air jets, 1 unit stand, tool set

Description	kg	Voltage	Frequency	No.
ROWELD® D 2 / 10	3.4	230 V	50 / 60 Hz	55504
ROWELD® D 4 / 15 Aero Basic	4.8	230 V	50 / 60 Hz	55502
ROWELD® D 4 / 15 Aero	5.5	230 V	50 / 60 Hz	55503
ROWELD® D 8 / 30 Aero	7.8	230 V	50 / 60 Hz	55506

# ONE of 6.000

Premium tools for  
professionals!



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<b>Instructions for the Use of Refrigerants</b>	304
<b>Conversion Tables Pressure, Temperature</b>	305



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know more about  
our products?  
Please scan the  
QR-Code!



### Complete Solutions

**ROKLIMA® MULTI 4F**



**ROCADDY 120**



**ROCADDY 120 Digital**



Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	–	✓ *	✓ *
CO2 subcritical (R744):	–	–	✓
System Size:	< 24 kW	< 24 kW	< 24 kW

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### Refrigeration Circuit Control

**ROCOOL 600**



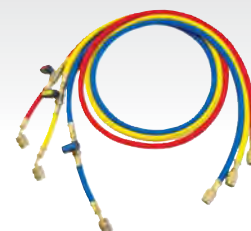
**2- and 4-Ways  
Manifold  
Connection 5/16"**



**2- and 4-Ways  
Manifold  
Connection 1/4"**



**Pressure Hoses**



Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	–	✓
CO2 subcritical (R744):	✓	–	–	✓
System Size:	all	all	all	all

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# Refrigeration & Air-Conditioning Technology

## System Overview

### Evacuation

ROAIRVAC 1.5



ROAIRVAC 3.0



ROAIRVAC 6.0



ROAIRVAC R32 6.0



ROAIRVAC 9.0



Refrigerants class A1:  
(R134a, R410A etc.)

✓

✓

✓

✓

✓

Refrigerants class A2:  
(R32, R1234yf etc.)

–

–

–

✓

–

CO2 subcritical (R744):

✓

✓

✓

✓

✓

System Size:

< 24 kW

< 74 kW

< 123 kW

< 123 kW

≥ 123 kW

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### Recovery

ROREC



ROREC PRO



Refrigeration class A1:  
(R134a, R410A etc.)

✓

✓

Refrigeration class A2:  
(R32, R1234yf etc.)

–

–

CO2 subcritical (R744):

–

–

System Size:

< 24 kW

all

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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

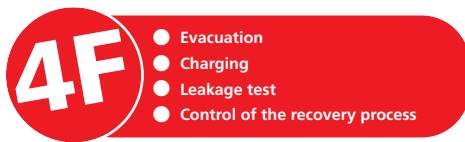
#### Product Profile

##### 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 gives time for parallel work
- Safe transport

##### TECHNICAL DATA

Weight:	17 kg
Final Vacuum:	1 x 10 <sup>-2</sup> mbar
Scale range:	up to 100 kg
Resolution:	10 g
Pressure hose length:	2,500 mm
Pump rating:	42 l / min



#### 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

#### 3 different pressure gauges "Pulse-free", class 1.6, 80 mm

Universal use on air-conditioning units with all common refrigerants and operation in the high pressure range with R410A

#### 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 shut-off valve



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Shock-resistant low pressure and high pressure gauges for various refrigerants



Secure storage of all accessories



Pressure hoses: 2.5 m long with shut-off valve



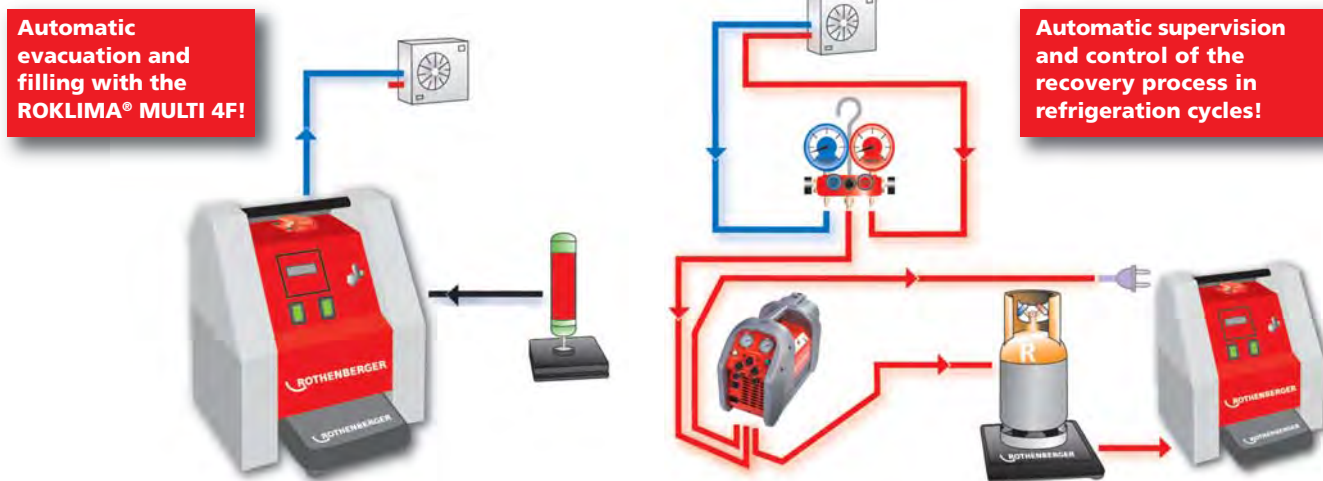
Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces





# Refrigeration & Air-Conditioning Technology

## Complete Solutions



ROKLIMA® MULTI 4F in use (evacuation and charging)



Scope of delivery (No. 1000000138) includes: 2-stage vacuum pump, 2 low pressure gauges, 1 high pressure gauge R410A, 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>1000000138</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-stage vacuum pump ROAIRVAC 1.5 with integrated vacuum meter and solenoid valve, as well as a pump rating of 42 l/min
- Digital manifold (with ROCADDY 120 Digital) for the automatic calculation of superheat and subcool. 77 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

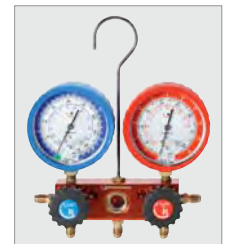
#### Electronic digital scale up to 120 kg with high measurement precision

Precise weighing of refrigerants

#### 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)



#### ROCOOL 600


Automatic calculation of superheat and subcool. Optionally upgradable through attachment of a vacuum probe and a reading out function (with ROCADDY 120 Digital)


#### Mini tube cutter and pipe cutter

For cutting Ø 6- 35 mm pipes to length

ROCADDY 120 includes: 2-stage 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. 1000001427), 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), 2x adaptor (5/16" SAE F - 1/4" SAE M with valve trigger (No. 01700RD), adaptor 5/16" SAE M - 1/4" SAE F (No. 170016)), bottle connection 1/4" (No. 173205), bottle connection 5/16" (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 vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 1x digital manifold ROCOOL 600 (No. 1000000569), 1x clamping thermometer (No. 1000000540), pressure hose set 1/4" SAE 1.500 mm with ball valve for R22, R134a, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x 5/16" SAE F - 1/4" with valve trigger (No. 1700RD), 1x 5/16" SAE M - 1/4" SAE F (No. 170016), 1x bottle connection 1/4" (No. 173205), 1x bottle connection 5/16" (No. 173204) mineral oil (0.4 l), Tube Cutter 35 (No. 70027) Minicut II Pro (No. 70402), transport case (No. 169051)

Model	Performance 				No.
R410A	R22	R134a	R407C	R404A	
ROCADDY 120 with 2 analogue manifolds			42 l / min	19	1000000057

Model	Performance 					No.
R410A	R22	R134a	R407C	R404A	R507	
ROCADDY 120 Digital			42 l / min	18	1000000058	
with digital manifold						

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### ROCOOL 600

For commissioning, maintenance work and documentation of refrigeration systems of all kinds



#### Product Profile

##### KEY FEATURES

- Modular system: The basic device can be fitted with the optional Red Box incl. the Data Viewer software for reading out or recording data on a PC. Additionally there is an optional external Pirani vacuum probe for precise vacuum readings
- More than 70 refrigerants incl. R744 (sub-critical) are stored in the device. New refrigerants can be added later using the update function
- Simultaneous calculation of superheat and subcool
- The documentation software Data Viewer generates an automatic report based on the data recorded. Ideal for handing out to the customer (client)
- An external Pirani vacuum probe allows reading of the vacuum where the most precise measurement is possible: directly at the refrigeration system

##### TECHNICAL DATA

<b>Pressure display:</b>	bar, psi, Kpa, MPa
<b>Temperature display:</b>	°C, °F
<b>Vacuum display:</b>	Micron, mbar, mmHg, Pa, mTorr
<b>Power source:</b>	9 V battery, 550 mAh
<b>Screen size:</b>	4.1/3" / 11 cm
<b>Pressure measurement range:</b>	-1 up to 60 bar
<b>Precision (at 22°C):</b>	± 0,5 % fs
<b>Temperature measurement range:</b>	-50°C to +200°C
<b>Working temperature:</b>	-10°C to +50°C
<b>Connections:</b>	4x ¼" SAE
<b>Max. recording time:</b>	12h (device), 96h (red box)

**An absolute all-rounder due to the unique modular system!**

#### Large screen

All important data at a single glance. Strong backlight for dark environment

#### Connection for the temperature sensor T1

For automatic measurement of superheat data

#### Connection for the external vacuum probe

For very precise measurement of the vacuum level directly at the refrigeration system

#### Pressure sensors "Made in Germany"

Precise measurement from -1 to 60 bar

#### T-connection with Schrader valve ¼" SAE

3-way function: Evacuation and filling without changing a hose

#### Y-connections ¼" SAE

A connection and sealing plug in one. Simple transport of hoses when not in operation

#### Connection for the temperature sensor T2

For automatic measurement of subcool data

#### Green and red LEDs

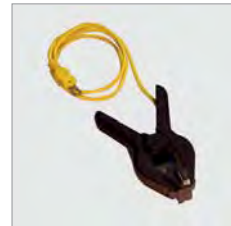
An optical signal is displayed once an adequate vacuum level is reached or leakage in the system and also a warning of overpressure

#### Connection of the Red Box

To record data for up to 96 hours and independent read out of data at a PC



Temperature sensor for a pipe diameter of up to Ø 32 mm



External vacuum probe for very precise measurement of the vacuum



Set (No. 1000000569) includes: ROCOOL 600, 1 temperature sensor  
Set (No. 1000000570) includes: ROCOOL 600, 2 temperature sensors, carry case  
Set (No. 1000000572) includes: ROCOOL 600, 2 temperature sensors, red box and data viewer software, carry case

Model	No.
Set with 1 temperature sensor (in the blister)	1000000569
Set with 2 temperature sensors (in the case)	1000000570
Set with 2 temperature sensors, red box, data viewer software (in the case)	1000000572

Scope of delivery (No. 1000000539): Red box, data viewer software, connection cable, external power supply

Model	No.
Red box, software, connection cable, external power supply	1000000539
Temperature sensor	1000000540
Vac Probe	1000000541



# 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



Model	ND*/bar	HD*/bar			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>	<b>R32</b>				
2-way, 5/16" SAE	-1 up to 30	0 up to 60	0.7	1	<b>1000001426</b>
4-way, 5/16" SAE	-1 up to 30	0 up to 60	0.9	1	<b>1000001427</b>

\*LP = Low pressure manifold, \*HP = High pressure manifold



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	No.
Blue rubber protector for manifold	<b>170545</b>
Red rubber protector for manifold	<b>170546</b>
Valve sets 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




No. 170602

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant



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		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>	<b>R32</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>	<b>R32</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>	<b>R32</b>		
Manifold set 4-way II "Plus"	2.8	<b>170608</b>	
Plastic carry case	1.4	<b>171505</b>	

### 3-piece Pressure Hose Sets

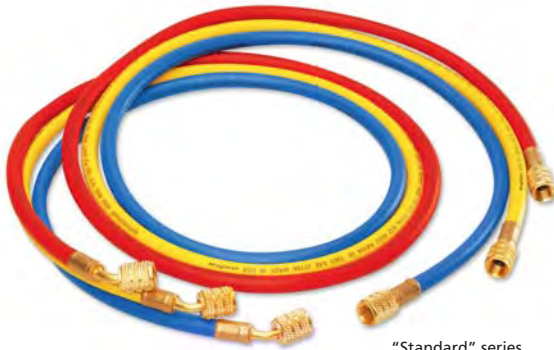
Available in "Standard" and "Plus"



#### Product Profile

##### KEY FEATURES

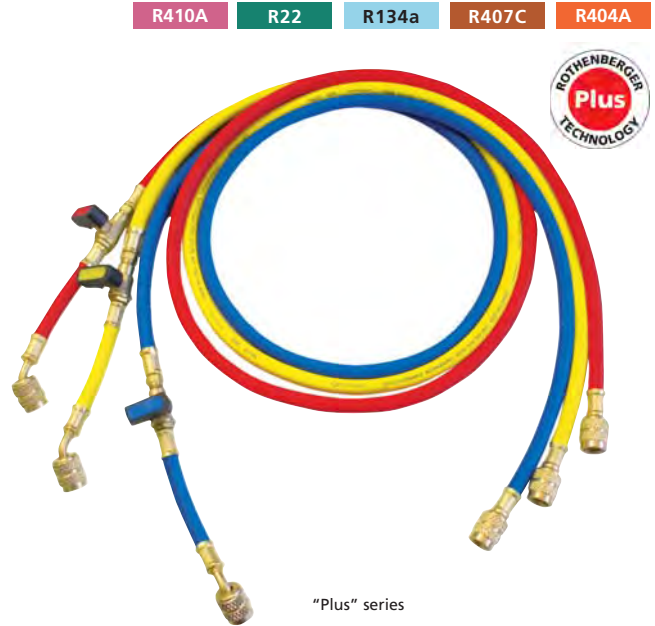
- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10x longer service life compared to neoprene seal
- Working pressure 60 bar / burst pressure 300 bar. This is an 8 % better pressure resistance as previously



"Standard" series

#### Pressure hose from the series "Standard"

Model	Connection	L mm	kg	No.
Vacuum Hose	3/8" SAE	1,500	1	1500000032
<b>R22</b> <b>R134a</b> <b>R407C</b> <b>R404A</b>				
Set of 3 pressure hoses	1/4" SAE	1,500	1	1500000024
Pressure hose yellow	1/4" SAE	1,500	1	1500000025
<b>R410A</b> <b>R32</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	1500000026
Pressure hose yellow	5/16" SAE	1,500	1	1500000027



"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	1500000028
Pressure hose yellow	1/4" SAE	1,500	1	1500000029
<b>R410A</b> <b>R32</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	1500000030
Pressure hose yellow	5/16" SAE	1,500	1	1500000031

### Tool Set Climate I + II

#### 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

Set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses standard 1/4" SAE, Tube Cutter 35 C (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

Set Climate II (No. 170605) includes: 2-way manifold (No. 1000001426), set of pressure hoses standard 5/16" SAE, Tube Cutter 35 C (No. 070027C), minicut pipe cutter (No.070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", Reeling Flaring Tool (No. 222402), plastic case

Model	kg	kg	No.
Tool Set Climate I	2.3	1	170604
Tool set Climate II	2.4	1	170605

**R22** **R134a** **R407C** **R404A**



The ideal introduction into a whole new area of business!



No. 170604

# 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

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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> )	259060
Nitrogen bottle, each 950 cm <sup>3</sup>	259008
Filling hose with pressure gauge	259010
Connection 5/16" SAE internal, 1/4" SAE external	01700RD



# Refrigeration & Air-Conditioning Technology

## Leak Testing & Locating

### 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
<ul style="list-style-type: none"><li>● Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds</li><li>● Simple determination of the refrigerant concentration</li><li>● Adjustment of the sensor tips zero measurement point for simple detection of the leak</li><li>● Exact and quick locating of the leak</li><li>● Easy accessibility of even hard to reach leaks</li></ul>

TECHNICAL DATA	
Leak status:	LED display
Sensor length:	30 cm
Leak detection rate:	3 g/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 concentrate 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

**Suitable for all common CFC, HFC and HCFC!**



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	87305
Spare sensor	87309



# Refrigeration & Air-Conditioning Technology

## Evacuation

### ROAIRVAC

#### Two-stage vacuum pump

For evacuation in accordance with **DIN 8975** with vacuum gauge and solenoid valve



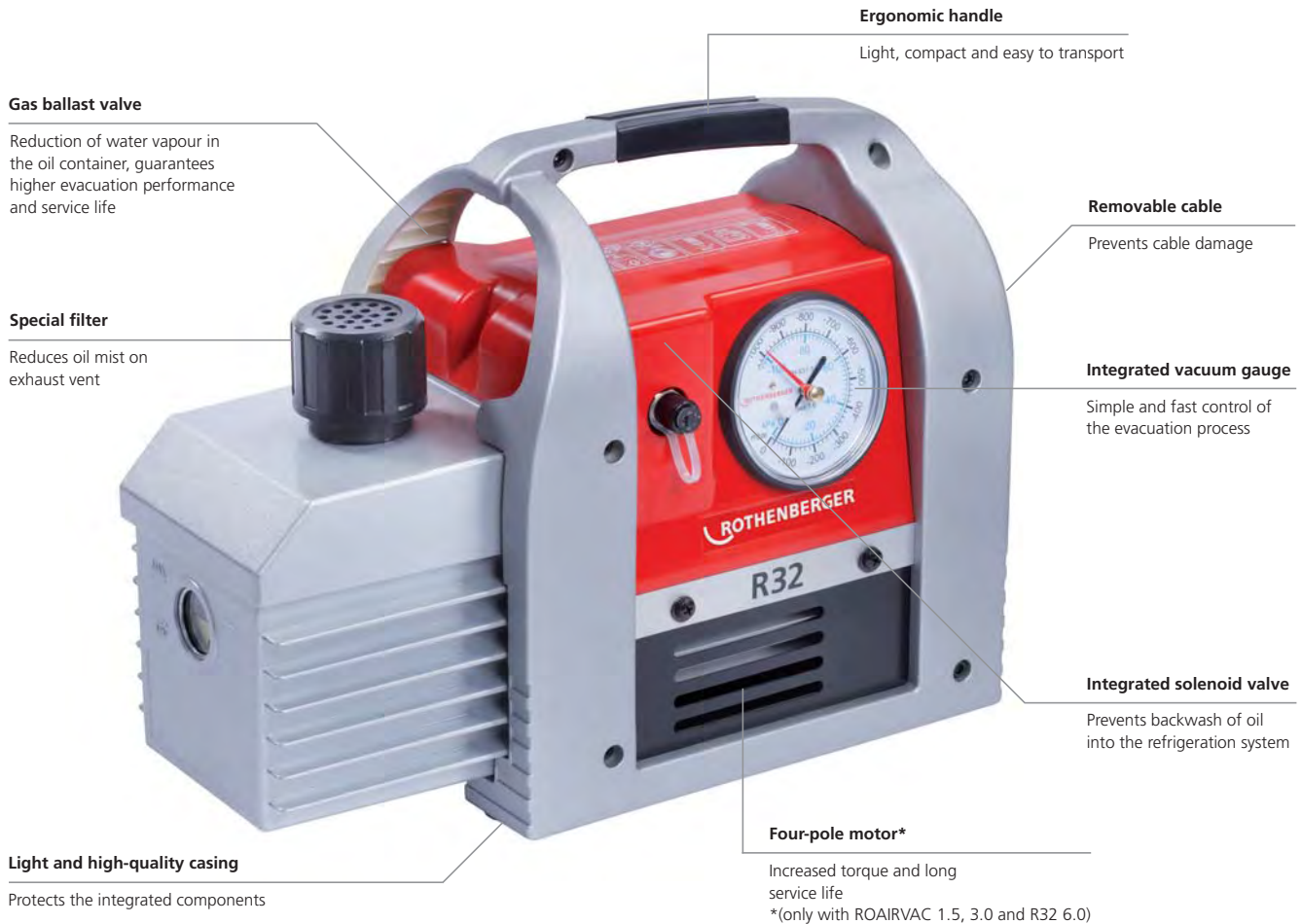
#### Product Profile

##### 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 on 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



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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



# Refrigeration & Air-Conditioning Technology

## Evacuation

### 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 R32 6.0	ROAIRVAC 9.0
No.	170061	170062	170063	1000001231	170064
Pump rating	1.5 CFM / 42 l/min / 2,5 m³/h	3.0 CFM / 85 l/min / 5,1 m³/h	6.0 CFM / 170 l/min / 10,2 m³/h	6.0 CFM / 170 l/min / 10,2 m³/h	9.0 CFM / 255 l/min / 15,3 m³/h
Vacuum stages	2	2	2	2	2
Final Vacuum	15 micron / 0,02 mbar	15 micron / 0,02 mbar	15 micron / 0,02 mbar	15 micron / 0,02 mbar	25 micron / 0,034 mbar
Motor rating	190 W / 1720 r/m	250 W / 1720 r/m	375 W / 3440 r/m	550 W / 1720 r/m	750 W / 3440 r/m
Voltage	230 V	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	50 Hz / 60 Hz
Connection	1/4"	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	5/16" SAE M/3/8" SAE M
Oil capacity	250 ml	330 ml	330 ml	580 ml	590 ml
Weight	9,0 kg	10,7 kg	11,5 kg	17,3 kg	17,0 kg
Manifold Ø	50 mm	50 mm	50 mm	80 mm	80 mm
Unit	mbar / Mpa	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)



ROAIRVAC R32 6.0 (170 l/min)

**Future-proof product for the increased use of R32 refrigerants**

Mineral oil is included in all pump deliveries



ROAIRVAC 9.0 (255 l/min)



Scope of delivery ROAIRVAC: Vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	kg	No.
ROAIRVAC 1.5	42 l/min	9,0	170061
ROAIRVAC 3.0	85 l/min	10,7	170062
ROAIRVAC 6.0	170 l/min	11,5	170063
ROAIRVAC R32 6.0	170 l/min	17,3	1000001231
ROAIRVAC 9.0	255 l/min	17,0	170064
Mineral Oil 1 Liter			169200

ROAIRVAC - vacuum pump in use with the digital manifold ROCOOL 600





# Refrigeration & Air-Conditioning Technology

## Recovery & 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>	490 x 244 x 353 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

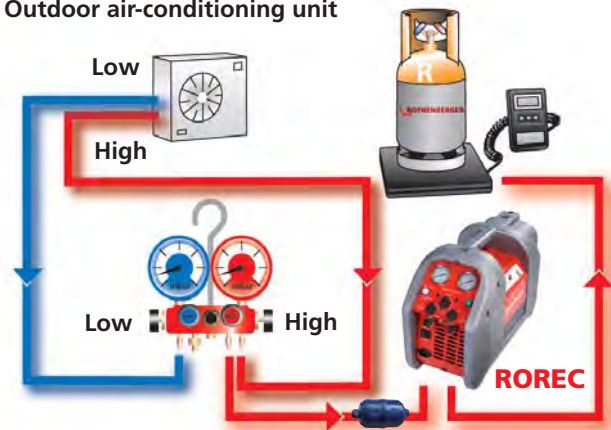
Simple transport and use

#### 4-pole motor

Increased torque and service life

### Recovery of Refrigerant

#### Exemplary: Outdoor air-conditioning unit



Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories on the back



Model	Connected Load	kg	No.	No.
ROREC	370 W	17.0	1	168605
Filter		0.12	1	168713

# Refrigeration & Air-Conditioning Technology

## Recovery & Filling

### 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
	fluid: 3.70 kg / min
	Push/Pull: 9.95 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>	490 x 244 x 353 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 - 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 on the back



ROREC PRO in use



Model	Connected Load	kg	No.	
ROREC PRO	730 W	19.0	1	168606
Filter		0.12	1	168713

# Refrigeration & Air-Conditioning Technology

## Recovery & Filling

### 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



#### 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

#### Refillable bottles

Full flexibility for the user

#### Standardised SAE thread on all bottle valves

Universal application



13

Model		No.
<b>R407C</b> Refrigerant R407C in cardboard packaging		
1   steel bottle 1/4" SAE	1 12	<b>170913</b>
2   steel bottle 1/4" SAE	1 6	<b>170931</b>
<b>R410A</b> Refrigerant R410A in cardboard packaging		
1   steel bottle 5/16" SAE	1 12	<b>170912</b>
2   steel bottle 5/16" SAE	1 6	<b>170932</b>



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	<ul style="list-style-type: none"><li>● Resolution of 5 g enables very precise filling</li><li>● Weight capacity sufficient for all common refrigerant bottles</li><li>● Cable connection enables comfortable use in every situation</li><li>● Bottle adaptor for connecting small refrigerant bottles (1 l and 2 l bottles)</li><li>● Refrigerant bottles of all sizes have enough space</li><li>● Large LCD display for comfortable reading of the result</li><li>● Simple use</li></ul>
TECHNICAL DATA	<p><b>Weight capacity:</b> 120 kg or 264 lbs</p> <p><b>Accuracy:</b> +/- 0,5%</p> <p><b>Resolution:</b> 5 g / 0,2 oz.</p> <p><b>Working temperature:</b> -10° C up to +49° C / 14 up to +120° F</p> <p><b>Connection:</b> 1/4" SAE for 1-2 lit. bottles</p> <p><b>Battery:</b> 9 V</p> <p><b>Platform size:</b> 230 x 230 x 53 mm</p> <p><b>Weight:</b> 3.28 kg</p>

**Large rubberised 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		No.
ROSCALE 120	3.28	173004

ROSCALE 120 in 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>85800</b>

### Bottle Connection and Adaptors

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



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>89501</b>
Adaptor, 3/8" SAE M - 1/4" SAE F connection	<b>89503</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>01700RD</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 5/8" pipe lines **according to DIN EN 378-2 : 2012-08**



**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	3.5	<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 inch	L mm	Clamping width up to mm	g	No.
6"	160	20	100	70441
8"	210	25	220	70442
10"	250	29	390	70443
12"	300	34	660	70444
15"	380	44	1,170	70445



### Schrader Valve Tool

#### Product Profile

##### KEY FEATURES

- For exchanging the Schrader valve on air-conditioners under pressure, without having to recover the unit
- For safe and easy change of spring insert of the Schrader Valve Tool
- With safety thread for risk-free use with R410A



Model	No.
Schrader Valve Tool in plastic carrying case	87800



### 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	224500





# Refrigeration & Air-Conditioning Technology

## General 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

### Flare connections

Normal flare size in accordance with JIS B8607:2008

Flare outer diameter in relationship to the pipe diameter

Pipe outer diameter mm / inch	Metric	Wall thickness mm / inch	Flare outer diameter with R22-, R134a-, R404-, R407C air-conditioners	Flare outer diameter with 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	-70	-94	80	27	-60	-51
		-80	-112			-70	-58
		-90	-130			-80	-66
		-100	-148			-90	-74
		-110	-166			-100	-82
		-120	-184			-110	-90
		-130	-202			-120	-98
		-140	-220			-130	-106
		-150	-238			-140	-114
		-160	-256			-150	-122
		-170	-274			-160	-130
		-180	-292			-170	-138
		-190	-310			-180	-146
		-200	-328			-190	-154
		-210	-346			-200	-162
		-220	-364			-210	-170
		-230	-382			-220	-178
		-240	-400			-230	-186
		-250	-418			-240	-194
		-260	-436			-250	-202
		-270	-454			-260	-210
		-280	-472			-270	-218
		-290	-490			-280	-226
		-300	-508			-290	-234
		-310	-526			-300	-242
		-320	-544			-310	-250
		-330	-562			-320	-258
		-340	-580			-330	-266
		-350	-598			-340	-274
		-360	-616			-350	-282
		-370	-634			-360	-290
		-380	-652			-370	-298
		-390	-670			-380	-306
		-400	-688			-390	-314
		-410	-706			-400	-322
		-420	-724			-410	-330
		-430	-742			-420	-338
		-440	-760			-430	-346
		-450	-778			-440	-354
		-460	-796			-450	-362
		-470	-814			-460	-370
		-480	-832			-470	-378
		-490	-850			-480	-386
		-500	-868			-490	-394
		-510	-886			-500	-402
		-520	-904			-510	-410
		-530	-922			-520	-418
		-540	-940			-530	-426
		-550	-958			-540	-434
		-560	-976			-550	-442
		-570	-994			-560	-450
		-580	-1012			-570	-458
		-590	-1030			-580	-466
		-600	-1048			-590	-474
		-610	-1066			-600	-482
		-620	-1084			-610	-490
		-630	-1102			-620	-498
		-640	-1120			-630	-506
		-650	-1138			-640	-514
		-660	-1156			-650	-522
		-670	-1174			-660	-530
		-680	-1192			-670	-538
		-690	-1210			-680	-546
		-700	-1228			-690	-554
		-710	-1246			-700	-562
		-720	-1264			-710	-570
		-730	-1282			-720	-578
		-740	-1300			-730	-586
		-750	-1318			-740	-594
		-760	-1336			-750	-602
		-770	-1354			-760	-610
		-780	-1372			-770	-618
		-790	-1390			-780	-626
		-800	-1408			-790	-634
		-810	-1426			-800	-642
		-820	-1444			-810	-650
		-830	-1462			-820	-658
		-840	-1480			-830	-666
		-850	-1498			-840	-674
		-860	-1516			-850	-682
		-870	-1534			-860	-690
		-880	-1552			-870	-698
		-890	-1570			-880	-706
		-900	-1588			-890	-714
		-910	-1606			-900	-722
		-920	-1624			-910	-730
		-930	-1642			-920	-738
		-940	-1660			-930	-746
		-950	-1678			-940	-754
		-960	-1696			-950	-762
		-970	-1714			-960	-770
		-980	-1732			-970	-778
		-990	-1750			-980	-786
		-1000	-1768			-990	-794
		-1010	-1786			-1000	-802
		-1020	-1804			-1010	-810
		-1030	-1822			-1020	-818
		-1040	-1840			-1030	-826
		-1050	-1858			-1040	-834
		-1060	-1876			-1050	-842
		-1070	-1894			-1060	-850
		-1080	-1912			-1070	-858
		-1090	-1930			-1080	-866
		-1100	-1948			-1090	-874
		-1110	-1966			-1100	-882
		-1120	-1984			-1110	-890
		-1130	-2002			-1120	-898
		-1140	-2020			-1130	-906
		-1150	-2038			-1140	-914
		-1160	-2056			-1150	-922
		-1170	-2074			-1160	-930
		-1180	-2092			-1170	-938
		-1190	-2110			-1180	-946
		-1200	-2128			-1190	-954
		-1210	-2146			-1200	-962
		-1220	-2164			-1210	-970
		-1230	-2182			-1220	-978
		-1240	-2200			-1230	-986
		-1250	-2218			-1240	-994
		-1260	-2236			-1250	-1002
		-1270	-2254			-1260	-1010
		-1280	-2272			-1270	-1018
		-1290	-2290			-1280	-1026
		-1300	-2308			-1290	-1034
		-1310	-2326			-1300	-1042
		-1320	-2344			-1310	-1050
		-1330	-2362			-1320	-1058
		-1340	-2380			-1330	-1066
		-1350	-2398			-1340	-1074
		-1360	-2416			-1350	-1082
		-1370	-2434			-1360	-1090
		-1380	-2452			-1370	-1098
		-1390	-2470			-1380	-1106
		-1400	-2488			-1390	-1114
		-1410	-2506			-1400	-1122
		-1420	-2524			-1410	-1130
		-1430	-2542			-1420	-1138
		-1440	-2560			-1430	-1146
		-1450	-2578			-1440	-1154
		-1460	-2596			-1450	-1162
		-1470	-2614			-1460	-1170
		-1480	-2632			-1470	-1178
		-1490	-2650			-1480	-1186
		-1500	-2668			-1490	-1194
		-1510	-2686			-1500	-1202
		-1520	-2704			-1510	-1210
		-1530	-2722			-1520	-1218
		-1540	-2740			-1530	-1226
		-1550	-2758			-1540	-1234
		-1560	-2776			-1550	-1242
		-1570	-2794			-1560	-1250
		-1580	-2812			-1570	-1258
		-1590	-2830			-1580	-1266
		-1600	-2848			-1590	-1274
		-1610	-2866			-1600	-1282
		-1620	-2884			-1610	-1290
		-1630	-2902			-1620	-1298
		-1640	-2920			-1630	-1306
		-1650	-2938			-1640	-1314
		-1660	-2956			-1650	-1322
		-1670	-2974			-1660	-1330
		-1680	-2992			-1670	-1338
		-1690	-3010			-1680	-1346
		-1700	-3028			-1690	-1354
		-1710	-3046			-1700	-1362
		-1720	-3064			-1710	-1370
		-1730	-3082			-1720	-1378
		-1740	-3100			-1730	-1386
		-1750	-3118			-1740	-1394
		-1760	-3136			-1750	-1402
		-1770	-3154			-1760	-1410
		-1780	-3172			-1770	-1418
		-1790	-3190			-1780	-1426
		-1800	-3208			-1790	-1434
		-1810	-3226			-1800	-1442
		-1820	-3244			-1810	-1450
		-1830	-3262			-1820	-1458
		-1840	-3280			-1830	-1466
		-1850	-3298			-1840	-1474
		-1860	-3316			-1850	-1482
		-1870	-3334			-1860	-1490
		-1880	-3352			-1870	-1498
		-1890	-3370			-1880	-1506
		-1900	-3388			-1890	-1514
		-1910	-3406			-1900	-1522
		-1920	-3424			-1910	-1530
		-1930	-3442			-1920	-1538
		-1940	-3460			-1930	-1546
		-1950	-3478			-1940	-1554
		-1960	-3496			-1950	-1562
		-1970	-3514			-1960	-1570
		-1980	-3532			-1970	-1578
		-1990	-3550			-1980	-1586
		-2000	-3568			-1990	-1594
		-2010	-3586			-2000	-1602
		-2020	-3604			-2010	-1610
		-2030	-3622			-2020	-1618
		-2040	-3640			-2030	-1626
		-2050	-3658			-2040	-1634
		-2060	-3676			-2050	-1642
		-2070	-3694			-2060	-1650
		-2080	-3712			-2070	-1658
		-2090	-3730			-2080	-1666
		-2100	-3748			-2090	-1674
		-2110	-3766			-2100	-1682
		-2120	-3784			-2110	-1690
		-2130	-3802			-2120	-1698
		-2140	-3820			-2130	-1706
		-2150	-3838			-2140	-1714
		-2160	-3856			-2150	-1722
		-2170	-3874			-2160	-1730
		-2180	-3892			-2170	-1738

**ONE**  
of  
**6.000**

**Premium tools for  
professionals!**







# General-Purpose Tools

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# General Purpose Tools

## System overview

### ROGRIP Pliers

	ROGRIP M 7"	ROGRIP M 10"	ROGRIP F 7"	ROGRIP F 10"	ROGRIP S 7"
<b>Working Area:</b>	Ø 43 mm (1.1/4")	Ø 60 mm (2")	Ø 43 mm (1.1/4")	Ø 60 mm (2")	Ø 43 mm (1.1/4")
<b>Length:</b>	175 mm (7")	240 mm (10")	175 mm (7")	240 mm (10")	175 mm (7")
<b>Weight:</b>	280 g	460 g	280 g	460 g	280 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
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### ROGRIP Pliers

	ROGRIP S 10"	ROGRIP XL	Wapu Typ SP 7"	Wapu Typ SP 10"	Wapu Typ SP 12"
<b>Working Area:</b>	Ø 43 mm (1.1/4")	Ø 102 mm (3.1/2")	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")
<b>Length:</b>	175 mm (7")	440 mm (16")	175 mm (7")	250 mm (10")	300 mm (12")
<b>Weight:</b>	280 g	1.400 g	150 g	290 g	460 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
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### Water Pump Pliers

### Water Pump Pliers

	Wapu Typ SPK 7"	Wapu Typ SPK 10"	Wapu Typ SPK 12"	Corner Pipe Wrench 45° "Super S", 10"	Corner Pipe Wrench 45° "Super S", 12"
<b>Working Area:</b>	z	Ø 48 mm (1.1/2")	Ø 22 mm (1/2")	Ø 34 mm (1")	
<b>Length:</b>	175 mm (7")	250 mm (10")	300 (12")	250 mm (10")	300 mm (12")
<b>Weight:</b>	165 g	315 g	475 g	400 g	810 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
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### Corner Pipe Wrenches

### Corner Pipe Wrenches / Corner Pipe Wrenches 45°

Corner Pipe Wrench 45°  
"Super S", 16"



Corner Pipe Wrench 45°  
"Super S", 20"



Corner Pipe Wrench 45°  
"Super S", 24"



Corner Pipe Wrench 45°, 10"



Corner Pipe Wrench 45°, 12"



<b>Working Area:</b>	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 89 mm (3")	Ø 22 mm (1/2")	Ø 34 mm (1")
<b>Length:</b>	420 mm (16")	540 mm (20")	640 mm (24")	250 mm (10")	300 mm (12")
<b>Weight:</b>	1.440 g	2.440 g	3.400 g	370 g	740 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
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### Corner Pipe Wrenches 45°

Corner Pipe Wrench 45°, 16"



Corner Pipe Wrench 45°, 20"



### Pipe Wrenches 90°

Pipe Wrench 90°, 12"



Pipe Wrench 90°, 16"



Pipe Wrench 90°, 20"



<b>Working Area:</b>	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 34 mm (1")	Ø 48 mm (1.1/2")	Ø 60 mm (2")
<b>Length:</b>	420 mm (16")	540 mm (20")	300 (12")	420 mm (16")	540 mm (20")
<b>Weight:</b>	1.340 g	2.400 g	740 g	1.340 g	2.400 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
<b>Page</b>	<b>317</b>	<b>317</b>	<b>317</b>	<b>317</b>	<b>317</b>

### Pipe Wrenches

Pipe Wrench 90°, 24"



Pipe Wrench 90°, 36"



### One-Handed Pipe Wrenches "HEAVY DUTY"

HEAVY DUTY 8"



HEAVY DUTY 10"



HEAVY DUTY 12"



<b>Working Area:</b>	Ø 89 mm (3")	Ø 114 mm (4")	Ø 22mm (1/2")	Ø 48 mm (1.1/2")	Ø 60 mm (2")
<b>Length:</b>	640 mm (24")	750 mm (36")	200 mm (8")	250 mm (10")	300 mm (12")
<b>Weight:</b>	3.400 g	5.600 g	400 g	780 g	1.250 g
<b>Material:</b>	Chrome Vanadium Steel	Chrome Vanadium Steel	Monoblock-Cast Body	Monoblock-Cast Body	Monoblock-Cast Body
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# General Purpose Tools

## System overview

### One-Handed Pipe Wrench "HEAVY DUTY"



<b>Working Area:</b>	Ø 60 mm (2")	Ø 73 mm (2.1/2")	Ø 89mm (3")	Ø 141 mm (5")	Ø 168 mm (6")
<b>Length:</b>	350 mm (14")	450 mm (18")	600 mm (24")	900 mm (36")	1.200 mm (48")
<b>Weight:</b>	1.680 g	2.670 g	4.320 g	7.920 g	15.800 g
<b>Material:</b>	Monoblock Cast Body	Monoblock Cast Body	Monoblock Cast Body	Monoblock Cast Body	Monoblock Cast Body
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### One-Handed Pipe Wrench "ALUDUR"



<b>Working Area:</b>	Ø 48 mm (1.1/2")	Ø 60mm (2")	Ø 73 mm (2.1/2")	Ø 89 mm (3")	Ø 141 mm (5")
<b>Length:</b>	250 mm (10")	350 mm (14")	450 mm (18")	600 mm (24")	900 mm (36")
<b>Weight:</b>	480 g	990 g	1.630 g	2.510 g	5.000 g
<b>Material:</b>	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
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### One-Handed Pipe Wrench "ALUDUR"



<b>Working Area:</b>	Ø 168 mm (6")	Ø 27 mm (3/4")	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")
<b>Lengt:</b>	1.200 mm (48")	200 mm (8")	250 mm (10")	300 mm (12")	350 mm (14")
<b>Weight:</b>	8.420 g	280 g	590 g	790 g	1.040 g
<b>Material:</b>	Aluminium	Steel, drop forged	Steel, drop forged	Steel, drop forged	Steel, drop forged
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One-Handed Pipe Wrench "STILLSON"



Working Area:	Ø 60 mm (2")	Ø 73 mm (2.1/2")	Ø 102 mm (3.1/2")
Length:	450 mm (18")	600 mm (24")	900 mm (36")
Weight:	1.820 g	3.080 g	5.690 g
Material:	Steel, drop forged	Steel, drop forged	Steel, drop forged

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# General Purpose Tools

## Pliers

### ROGRIP M

Quickly adjustable water pump plier

#### KEY FEATURES

- 30% more gripping capacity\*: 10" pliers up to 2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- Wide handles for more comfort and better power transmission
- 10 point size adjustments

#### TECHNICAL DATA

**Chrome vanadium steel** tempered, drop forged with heavy-duty box joint  
**Polished head and joint**  
**Double hardened jaws**, extremely durable

**ROTHENBERGER**  
**Curve-Shape-Design**

Especially ergonomic for larger pipe diameters. Reduces the danger of fingers getting clamped

**Double hardened jaws**  
extremely durable

Good grip on every surface even at highest demands

**Large gripping width**

Reliable grip and hold up to 2" pipe diameter

**Integrated sizing scale**

Comfortable and quick adjustment of the pipe diameter

**Wide handles**

More comfort and better power transmission

**Slip-resistant plastic handles**

High grip reliability

Model	No.
ROGRIP M 7", Ø 1.1/4" / 43 mm	1000000215
ROGRIP M 10", Ø 2" / 60 mm	1000000216

**ROTHENBERGER Curve-Shape-Design – especially ergonomic!**

### ROGRIP F

Quickly adjustable automatic water pump plier

#### KEY FEATURES

- 30% more gripping capacity\*: 10" pliers up to 2" pipe diameter
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic for large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment
- 18 point size adjustments

**Safety lock system**

Prevents unintentional opening and enables a 50% quicker adjustment

**18 adjustable positions**

Variable uses, lateral stability and high strength

**Wide handles**

More comfort and better power transmission

**Slip-resistant plastic handles**

High grip reliability

*3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 2"*

*Curve-Shape-Design: especially ergonomic*



	inch	mm	max. inch	max. mm	g			No.
7"		175	1.1/4"	43	280	1	6	1000000213
10"		240	2"	60	460	1	6	1000000214

**30% more gripping capacity!\***

\* than previous model



### ROGRIP S

#### Quickly adjustable water pump plier

- Characteristics like ROGRIP M

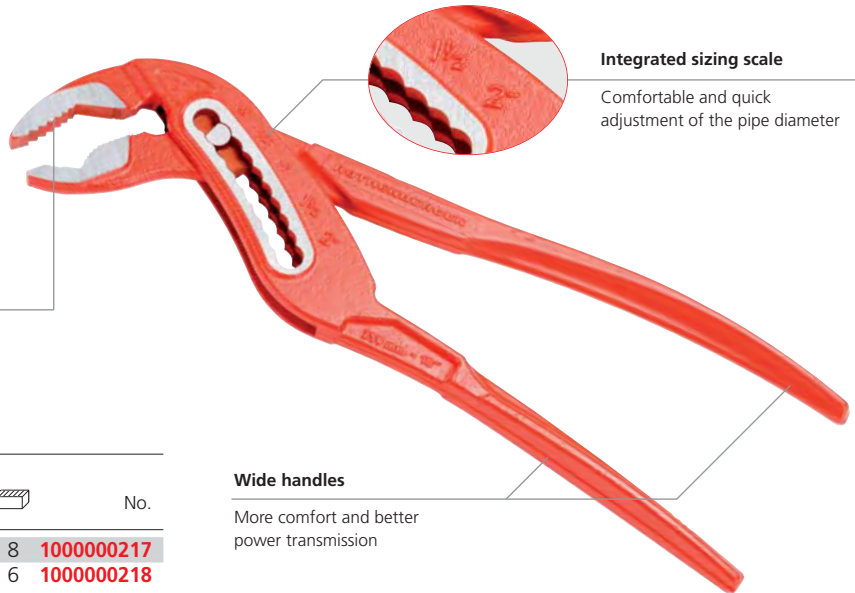
Curve-Shape-Design:  
especially ergonomic  
with large pipe Ø



Double hardened jaws  
extremely durable

Good grip on every surface  
even for hardest demands

L	L	max. inch	max. mm	g			No.
inch	mm						
7"	175	1.1/4"	43	290	1	8	1000000217
10"	240	2"	60	480	1	6	1000000218



Integrated sizing scale

Comfortable and quick  
adjustment of the pipe diameter

Wide handles

More comfort and better  
power transmission

### ROGRIP XL

#### Quickly adjustable water pump plier

##### KEY FEATURES

- 16" pliers up to 3.1/2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- 14 point size adjustment

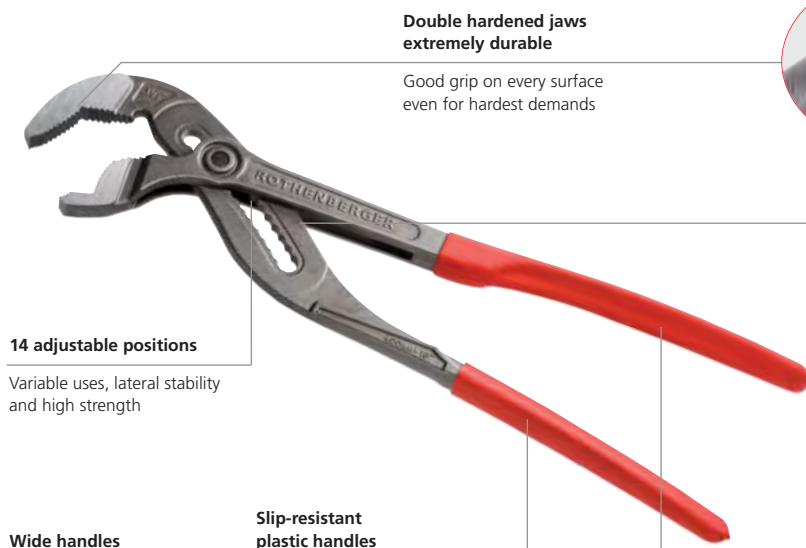
##### TECHNICAL DATA

Chrome vanadium steel tempered, drop forged with heavy-duty box joint

Polished head and joint

Double hardened jaws, extremely durable

**Enormous gripping width of 3.1/2"**  
– reliable grip during application



Double hardened jaws  
extremely durable

Good grip on every surface  
even for hardest demands



Large gripping width

Reliable grip and hold  
up to 3.1/2" pipe diameter

ROTHENBERGER  
Curve-Shape-Design

Especially ergonomic with larger  
pipe diameters. Reduces the  
danger of fingers getting clamped

14 adjustable positions

Variable uses, lateral stability  
and high strength

Wide handles

More comfort and better  
power transmission

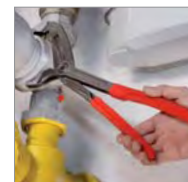
Slip-resistant  
plastic handles

High grip reliability

L	L	max. inch	max. mm	g			No.
inch	mm						
16"	440	3.1/2"	102	1.400	1	1	1000000328

**ROTHENBERGER Curve-Shape-Design**  
– especially ergonomic!

Curve-Shape-Design:  
especially ergonomic



3-point grip over the  
middle for reliable  
clamping. Perfect grip  
on pipes up to Ø 3.1/2"



# 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



								No.
	inch	mm	max. inch	max. mm	g			
7"		175	1"	34	150	1	6	70527
10"		250	1.1/4"	43	290	1	6	70528
12"		300	1.1/2"	48	460	1	6	70529
10" Counter display						1(12)		070528D

### 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"	34	165	1	6	70521
10"	250	1.1/4"	43	315	1	6	70522
12"	300	1.1/2"	48	475	1	6	70523
10" Counter display					1(12)		070522D

### 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

- 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"	48	330	6	<b>70591</b>
12"		300	2"	60	560	6	<b>70592</b>
16"		420	4"	114	1,150	6	<b>70593</b>



# General-Purpose Tools

## Plier Sets

### Professional Sets

Practice-oriented set of pipe wrenches and pipe cutter

3-parts Set No. (070130X) includes:  
Pipe Wrench 1" (No. 070122X),  
Pipe Wrench 1.1/2" (No. 070123X),  
Pipe Wrench 2" (No. 070124X)

4-parts Set (No. 070135X) includes:  
Pipe Wrench 1" (No. 070122X),  
Pipe Wrench 1.1/2" (No. 070123X),  
Wapu 10" (No. 70528),  
TUBE CUTTER 35 (No. 70027)

3-partss Set (No. 070140X) includes:  
Pipe Wrench 1" (No. 070122X),  
Pipe Wrench 1.1/2" (No. 070123X),  
Wapu 10" (No. 70528)



No. 070130X



No. 070135X



No. 070140X

Model	kg		No.
Set 1 - 1.1/2 - 2"	5,0	1	070130X
Set 1 - 1.1/2" + Wapu SP 10 + TC 35	3,1	1	070135X

Model	kg		No.
Set 1 - 1.1/2" + Wapu SP 10"	2,7	1	070140X

### ROGRIP Pliers Sets

The quickly adjustable water pump pliers  
Generation ROGRIP are available as practice-oriented  
sets in 3 different sizes

2-parts Set (No. 1000000626) includes:  
ROGRIP S 7" (No. 1000000217),  
ROGRIP S 10" (No.1000000218)

2-parts Set (No. 1000001039) includes:  
ROGRIP M 7" (No. 1000000215),  
ROGRIP M 10" (No. 1000000216)

3-parts Set (No. 1000001068) includes:  
ROGRIP M 7" (No. 1000000215),  
ROGRIP M 10" (No. 1000000216)  
ROGRIP XL 16" (No. 1000000328)



No.1000000626



No.1000001039



No.1000001068

Model		No.
ROGRIP Set S 7" + S 10"	1	1000000626
ROGRIP Set M 7" + M 10"	1	1000001039

Model		No.
ROGRIP Set M 7" + M 10" + ROGRIP XL	1	1000001068

### 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"	34	12"	300	810	1	18	070122X
1.1/2"	48	16"	420	1.440	1	16	070123X

inch	mm	max. inch	max. mm	g			No.
2"	60	20"	540	2.440	1	10	070124X
3"	89	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		070131X
1"	34	12"	300	740	1	6	070132X

inch	mm	max. inch	max. mm	g			No.
1.1/2"	48	16"	420	1.340	1		070133X
2"	60	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"	34	12"	300	740	1	8	070110X
1.1/2"	48	16"	420	1.340	1	6	070111X
2"	60	20"	540	2.400	1	6	070112X

inch	mm	max. inch	max. mm	g			No.
3"	89	24"	640	3.400	1		70113
4"	114	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 pipe-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	inch	mm	kg		No.	No.	No.
inch	mm					pliers	hook	jaws
8"	200	1/2"	22	0.40	4	70150	70200	70190
10"	250	1.1/2"	48	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"	73	2.67	2	70154	70204	70194
24"	600	3"	89	4.32	1	70155	70205	70195
36"	900	5"	141	7.92	1	70156	70206	70196
48"	1200	6"	168	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	inch	mm	kg		No.	No.	No.
inch	mm					pliers	hook	jaws
10"	250	1.1/2"	48	0.48	4	70159	70201	70191
14"	350	2"	60	0.99	4	70160	70203	70192
18"	450	2.1/2"	73	1.63	2	70161	70204	70194
24"	600	3"	89	2.51	1	70162	70205	70195
36"	900	5"	141	5.00	1	70163	70206	70196
48"	1200	6"	168	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	inch	mm	kg		No.	No.
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"	48	1.04	1 4	70353	70377
18"	450	2"	60	1.82	1 2	70354	70378
24"	600	2.1/2"	73	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"	48	750	4	70166	70201	70191
14"	350	2"	60	1,460	4	70167	70203	70192



### 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	70115	70203	70192
18"	450	2.1/2"	73	1,490	1	70116	70204	70194



### 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	4	70235







### 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			No. pliers	No. jaws
max. inch	max. mm	width mm	mm	kg		
1.1/2"	48	38	350	1.4	70242	70571
2.1/2"	73	52	690	3.5	70243	70572
4"	114	63	940	6.7	70244	70573
6"	168	78	1,120	12.6	70245	70574
8"	220	80	1,280	17.2	70246	70575
12"	324	84	1,630	24.2	70247	70576



Model		No.
Spare chain HEAVY DUTY 1 1/2"	0.80	70262
Spare chain HEAVY DUTY 2 1/2"	0.95	70263
Spare chain HEAVY DUTY 4"	1.40	70264
Spare chain HEAVY DUTY 6"	2.80	70265
Spare chain HEAVY DUTY 8"	3.40	70266
Spare chain HEAVY DUTY 12"	5.10	70267

# General-Purpose Tools

## Pliers

### Fittings Wrench 90°

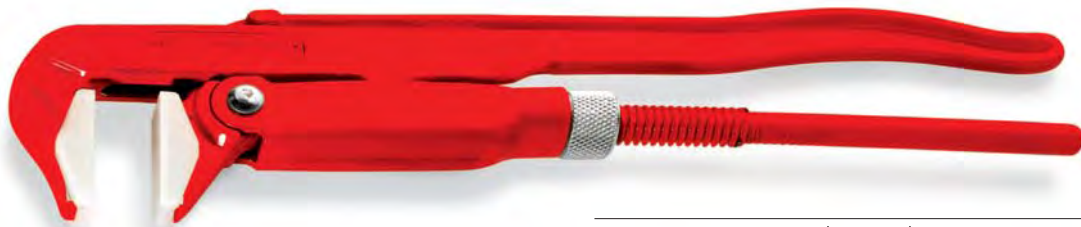
Special chrome vanadium steel, steel forged

#### 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"	356	740	1	6	70545
Plastic jaws				10			70548

### Fitting Key



Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces



No. 350850



No. 350900

Model	 mm	Clamping width and depth mm		 g	No.
Grid adjustment	260	75	45	690	350850
Roll adjustment	275	65	45	780	350900

### 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 Ø 62 mm (siphon)






Model	inch	mm	max. mm	min. mm	g	No.
SANIGRIP	10"	250	80	14	270	70415
SANIGRIP PL	10"	250	62	14	280	70416
Plastic jaws (pair) for SANIGRIP PL					10	70417

### Sealing Grip Pliers

Chrome vanadium steel, nickel-plated, tempered, hardened jaws

- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes Ø 4 - 16 mm and hoses
- With leverage and quick-release lever, adjustable and lockable



 L inch	 L mm	Jaw width mm	 g	No.
10"	250	4 - 16	490	<b>70250</b>






### Pipe Welding Grip Pliers

Chrome vanadium steel, nickel-plated, hardened jaws

- For safe, central clamping of pipes and round material aligned during welding work
- Reliable 3-point support, for steel pipes up to Ø 3"
- U-shaped clamping jaws allow enough room for welding
- With leverage and quick-release lever, adjustable and lockable



 L inch	 L mm	Jaw width mm	 g	No.
11"	280	95	840	<b>70257</b>



### EASYGRIP

**Automatic strap wrench for plastic pipes**  
Ø 20 - 160 mm (3/4" - 6")

The indispensable tool for socket welding large diameter plastic pipes




#### KEY FEATURES

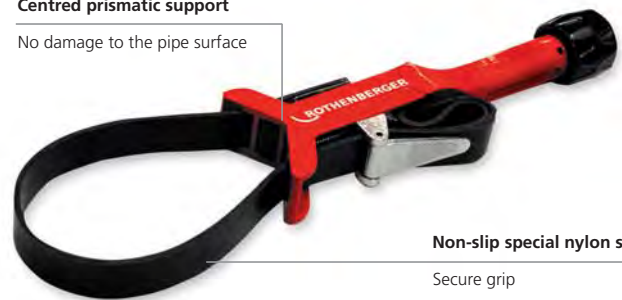
- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap



**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	 L inch	 L mm	 g	No.
3"	89	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




Radiator valve stepped key and ratchet set for installation and removal of heating valve nipples, tankconnectors and short tap extensions. Chrome vanadium steel, hardened, nickelplated, square drive 1/2"

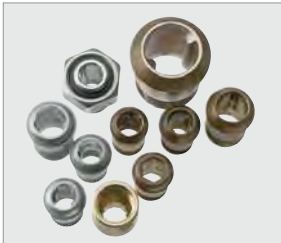
Product Profile

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

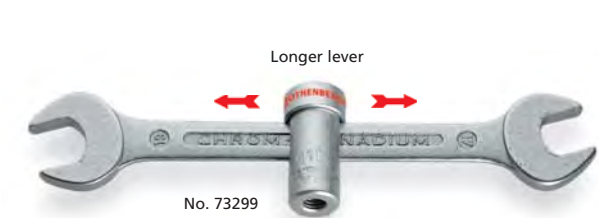


Model	 g			No.
Set: UNI Stepped Key and Ratchet	670	1	12	73297
UNI Stepped Key	120	1		73298
Gas Stepped Key	80	1		73280
1/2" ratchet	440	1		27180



### Express Spanner

Chrome vanadium steel, drop forged, chrome-plated



#### 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



Spanner width	for hanger bolts Size	 mm	 g	No.
Wrench size 10 x muzzle size 13	M 8	220	250	73290
Wrench size 17 x muzzle size 19	M10	220	250	73299
Wrench size 17 x muzzle size 19	M12	220	250	73291
Wrench size 19 x ring size 17	M10	260	390	73293

### 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

4-part set (No. 26164) includes: Bolt Driver M6 (No. 26160), M8 (No. 26161), M10 (No. 26162), M12 (No. 26163), steel carrying case

Model	L mm	g	No.
Set M6 - M8 - M10 - M12	650	26164	
Bolt driver M 6	35	70	26160
Bolt driver M 8	40	90	26161
Bolt driver M 10	45	100	26162
Bolt driver M 12	50	120	26163

Simple installation



### Sanitary Four Way Key

Chrome Vanadium Special steel

#### KEY FEATURES

- Four external hexagonal 3/8", 1/2", 3/4", 1" up to 100 mm and installation/ removal of heating valves and tank connectors
- 3 inner threads M8, M10 and M12 for hanger bolts



Model	Dimensions mm	g	No.
Sanitary Four Way Key multifunctional	220 x 220	610	351043

### 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
- 3 inner threads M8, M10 and M12 for hanger bolts (wash basin fittings)



Model	Dimensions mm	g	No.
Sanitary Four Way Key multifunctional	220 x 220	590	351044

# 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 RO-QUICK 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>
Bolt Driver tool			
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 Valve Key	120	300	<b>70414</b>
Adaptor	75	70	<b>70413</b>



### 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°!



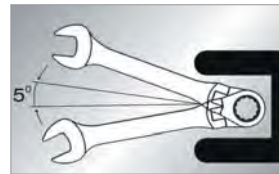
Fig. ROCLICK wrench set



7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	g		No.
ROCLICK spanner set, 7 pieces	1,150	1 12	70490

Small 5° operating radius



Adjustable inclination angle



### 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 5/8" pipe lines **according to DIN EN 378-2 : 2012-08**

DIN  
-Norm



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

Model	kg	No.
Torque wrench set, 7 piece	3.5	175001

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

### ROTUN

#### 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: ROTUN 10 - 11 - 13 - 14 - 16 - 17 - 19 - 22 mm, in plastic case

Model	kg		No.
ROTUN spanner set, 8 pieces	1.7	1 12	70475

# General-Purpose Tools

## Installation Wrenches

### ROCLICK Key

Chrome vanadium, head black atramentized



#### KEY FEATURES

- With the spring mechanism – the harder the pressure, the more firm 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 mm	L mm	g	No.
ROCLICK Key	10	134	80	<b>70420</b>
ROCLICK Key	11	137	80	<b>70419</b>
ROCLICK Key	12	137	80	<b>70421</b>
ROCLICK Key	13	137	90	<b>70422</b>
ROCLICK Key	14	140	90	<b>70423</b>

Model	Key width mm	L mm	g	No.
ROCLICK Key	16	184	130	<b>70424</b>
ROCLICK Key	17	184	140	<b>70425</b>
ROCLICK Key	19	188	188	<b>70426</b>
ROCLICK Key	21	230	230	<b>70427</b>
ROCLICK Key	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 mm	g		No.
12 x 14 mm	230	200	1 36	<b>70271</b>
13 x 17 mm	250	280	1 36	<b>70272</b>
15 x 16 mm	260	320	1 36	<b>70273</b>

Model	L mm	g		No.
19 x 22 mm	310	440	1 36	<b>70274</b>
24 x 27 mm	360	700	1 36	<b>70276</b>
30 x 32 mm	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



### SWO Adjustable Wrench

Chrome-Vanadiumsteel, chrome-plated and polished finish

#### KEY FEATURES

- Metric measuring scale on jaws for easy jaws pre-setting and sizing of nuts, bolts, pipes, etc.
- Great accessibility in confined spaces, non-protruding jaw shank at maximum opening
- Absolutely parallel jaw surfaces ensure perfect grip of nuts and screws



Size	L bis	Clamping width	g	No.
4"	120 mm	16 mm	80	<b>70440</b>
6"	160 mm	20 mm	100	<b>70441</b>
8"	210 mm	25 mm	220	<b>70442</b>
10"	250 mm	29 mm	390	<b>70443</b>
12"	300 mm	34 mm	660	<b>70444</b>
15"	380 mm	44 mm	1170	<b>70445</b>

Size	L	Clamping width up to (inch)	g	No.
6"	176 mm	34 (1.3/8")	205	<b>1500001509</b>
8"	216 mm	39 (1.1/2")	345	<b>1500001510</b>

# 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



L mm	L inch	Clamping width mm	Clamping width inch		No.
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>

Enormous leverage!



L mm	L inch	Clamping width mm	Clamping width inch		No.
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, 9x9, 10x10, 11x11, 13x13, 14x14, 17x17, 19x19 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>
Double-end box wrench 10 x 11 mm	<b>849293</b>
Double-end box wrench 12 x 13 mm	<b>849299</b>

Model	No.
Double-end box wrench 16 x 17 mm	<b>849306</b>
Double-end box wrench 18 x 19 mm	<b>849308</b>
Double-end box wrench 24 x 27 mm	<b>849317</b>
Double-end box wrench 30 x 32 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 No. 73571	Phillips No. 73570
3,5 x 75 mm	3,5 x 75 mm	
4 x 100 mm	4 x 100 mm	
5,5 x 125 mm	5,5 x 125 mm	
6,5 x 150 mm	4 x 100 mm	
PZ 1 x 100 mm		
PZ 2 x 125 mm		
		PH 1 x 100 mm
		PH 2 x 125 mm

### Slot Screwdriver



Slot



### Phillips Screwdriver



Phillips



### Pozidriv Screwdriver



Pozidriv



Tip design	Model	g	No.
4.0 x 100	Slot	45	<b>73103</b>
5.5 x 125	Slot	84	<b>73131</b>
6.5 x 150	Slot	128	<b>73133</b>
PH 1 x 100	Phillips	80	<b>73152</b>
PH 2 x 125	Phillips	98	<b>73153</b>
PZ 1 x 100	Pozidriv	80	<b>73161</b>
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>

# General-Purpose Tools

## Screwdrivers

### EUROLINE® IMPAKT

Screwdriver with continuous, strengthened blade

#### Product Profile

##### KEY FEATURES

- One-piece, strengthened blade with metal cap allows 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



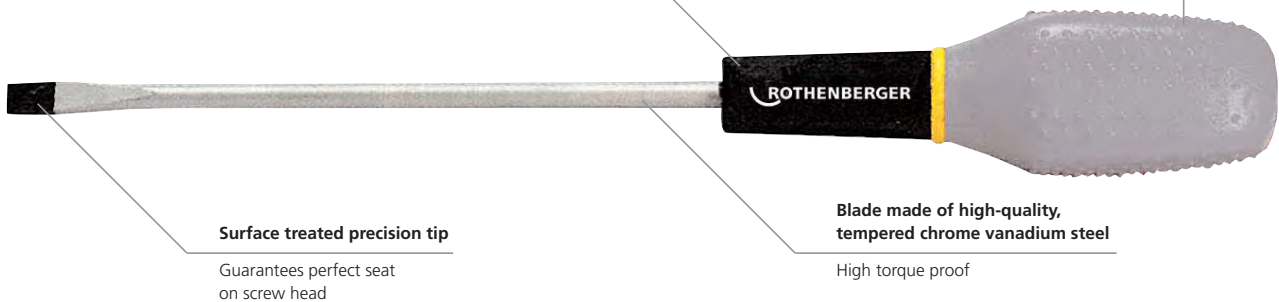
2 tools in 1!

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

### 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: Slot 2,5 x 75; 4,0 x 100; 5,5 x 125; 6,5 x 150 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 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>



### 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 3/8" - 1/2" - 3/4" - 1" in Box	3/8" - 1"	350	<b>70970</b>
Basic Tool with cutter 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 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



#### 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  $0.029^\circ = 0.5 \text{ mm / m}$

Model	L mm	g	No.
Standard Spirit Level	430	260	1500001583
Standard Spirit Level	600	340	1500001547
Standard Spirit Level	1000	640	1500001548

### 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	5	19	230	77397
Flexible ruler	2		100	252100

### 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 mm	inch	L mm	g	No.
10 - 32	3/8" - 1.1/4"	235	475	70228

### 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	g	No.
mm	inch	mm		
10 - 32	3/8" - 1.1/4"	275 - 455	710	70225
20 - 48	3/4" - 1.7/8"	290 - 470	740	70226
32 - 63	1.1/4" - 2.1/2"	290 - 470	780	70227

### 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	L	Sheet thickness	g	No.
inch	mm			
10"	250	1.0	450	71095

### Tower Pincers / Concreter's Nippers

Special forged steel, slim head, polished,  
long plastic covered handles



L	L	Clamping width	g	No.
inch	mm			
9"	225	22	330	70118
10"	250	26	440	70119

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, coated with  
adjustment screw



Model	L	g	No.
	mm		
Basin Nut Wrench	270	580	351050

### 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	L	Cutting performance Ø mm		kg	No.	No.
mm	inch	490 N/mm <sup>2</sup>	1300 N/mm <sup>2</sup>			
300	12"	5 mm - 3/16"	4 mm - 5/32"	0.75	75010	75020
350	14"	7 mm - 1/4"	5 mm - 3/16"	0.98	75011	75021
450	18"	8 mm - 5/16"	6 mm - 1/4"	1.60	75012	75022
600	24"	10 mm - 3/8"	8 mm - 5/10"	2.63	75013	75023
750	30"	13 mm - 1/2"	9 mm - 11/32"	4.00	75014	75024
900	36"	16 mm - 5/8"	10 mm - 3/8"	6.24	75015	75025
1,050	42"	19 mm - 3/4"	11 mm - 7/16"	9.39	75016	75026

### 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	L	Clamping width	g	No.
inch	mm			
10"	250	32	570	70252



# 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

DIN-Norm

VDE approved



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

DIN-Norm

VDE approved



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

VDE approved



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

DIN-Norm

VDE approved



L mm	Model	g	No.
180	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

DIN-Norm

VDE approved



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

DIN-Norm

VDE approved




L mm	Model	g	No.
200	DIN 5236D	200	324739

### Allen Key with Cross Handle

Blade made of chrome vanadium special steel, shiny nickel-plated, shock-resistant handle



Key width SW mm	Blade length 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**


**DIN**  
-Norm



No. 321300



No. 70301/70302

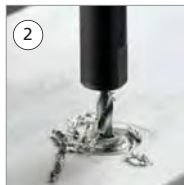
Model	Size mm / inch	 g	No.
Clip holder	2,5-3-4-5-6-8-10 mm	340	<b>70301</b>
Clip holder	3/32-1/8-5/32-3/16-1/4-5/16-3/8"	340	<b>70302</b>
Ring	2-2,5-3-4-5-6-8-10 mm	250	<b>321300</b>

### 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 diameter 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>

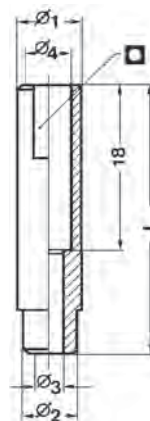
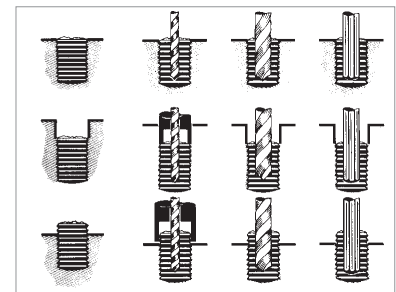




Fig. Screw Extraction Set, 25 pieces



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

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)	071533D	●	●	●	●	●	●	●	●	○	●	●	●
Cutting disc INOX Profi Plus (125 x 1 x 22)	071534D	●	●	●	●	●	●	●	●	○	●	●	●
Grinding/Cutting disc INOX Safe Cut (115 x 2 / 1 x 22)	071551D	●	●	●	●	●	●	●	●	●	●	●	●
Grinding/Cutting disc INOX Safe Cut (125 x 2 / 1 x 22)	071552D	●	●	●	●	●	●	●	●	●	●	●	●
Grinding/Cutting disc INOX 2 in 1 (115 x 2,5 x 22)	071553D	●	●	●	●	●	●	●	●	●	○	○	○
Grinding/Cutting disc INOX 2 in 1 (125 x 2,5 x 22)	071554D	●	●	●	●	●	●	●	●	●	○	○	○

●● = very well suited ● = well suited ○ = partially suited

### 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	g	g	No.
Profi Plus box 115	115 x 1.0 x 22	350	1(10)	25	071533D
Profi Plus box 125	125 x 1.0 x 22	450	1(10)	25	071534D



### 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	 g		No.
Safe Cut box 115	115 x 2/1 x 22	350	1(10)	<b>071551D</b>
Safe Cut box 125	125 x 2/1 x 22	450	1(10)	<b>071552D</b>



### 2 IN 1

Cut-off and grinding disc for steel and stainless steel

- 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	 g		No.
2in1 box 115	115 x 2,5 x 22	550	1(10)	071553D
2in1 box 125	125 x 2,5 x 22	650	1(10)	071554D



2 in 1!



Follow all manufacturers instructions



Don't rough down



Follow work safety measures



Do not use defective grinding/cutting discs






### PROFI PLUS

#### Twist drill set DIN 338 Type N

HSS rolled, all drill diameters  
in 0.5 mm diameter steps





No. 816990

Model	Drill range mm	Number 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>





No. 817000

 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>817027</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>

### 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



#### 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



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

mm	Through - size	g	No.
28.3	PG21	220	<b>21828</b>
32		260	<b>021832X</b>
34		260	<b>21834</b>
35		270	<b>21835</b>
36		270	<b>21836</b>
38		370	<b>21838</b>

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>

### 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>
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>
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 - 140 mm (5/8" - 5.1/2") 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 HSS 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>

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>
29		140	<b>21329</b>	42		200	<b>21342</b>
				43		210	<b>21343</b>

mm	inch	g	No.	mm	inch	g	No.
44		210	<b>21344</b>	70	2.3/4"	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	2.3/8"	360	<b>21360</b>				
65	2.5/8"	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 	No.
4	120	10	<b>77279</b>



**DIN**  
-Norm

### Chisel

Safety tempered impact hear

- Silver lacquered tip
- Chrome manganese silico



No. 77050





No. 77072



No. 77164



No. 25811

Model	Length mm	Shaft mm	Cutting Width mm	without hand protection 	No.	with hand protection 	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>

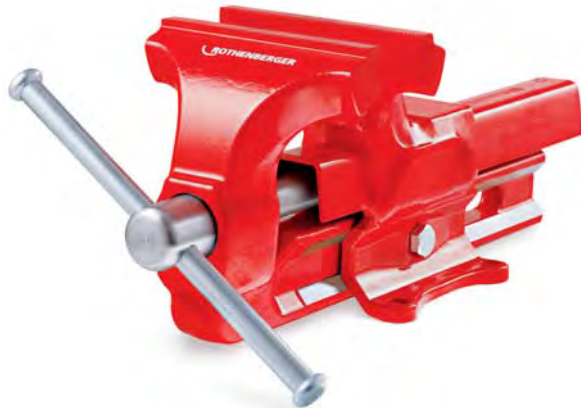
# General-Purpose Tools

## 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	depth mm	for pipes inch	for pipes mm	kg	No.
120	125	65	3/8 - 1 1/2"	16 - 55	8.7	<b>70705X</b>
140	150	80	3/4 - 2"	27 - 70	15.6	<b>70735X</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>

### 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>

### 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 Ø 3/8" - 1/2" - 3/4"
- **without integrated chain vice**
- Bending of pipes Ø 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.
Tripod universal workbench with chain vice	16.0	<b>70752</b>
Tripod 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>

### Cutter Knife



Model		No.
Cutter knife incl. 4 blades, 18mm	1	<b>1500000087</b>
Blades for cutter knife (10 piece)	1	<b>1500000088</b>

### Tool Bag "Trendy"

- Lots of storage room for all your tools



Volume:  
ca. 42 l

### Tool Bag

- Offers a lot of pockets and tool holders with a waterproof plastic bottom



Volume:  
ca. 30 l

### Tool Backpack

- Two spacious compartments and a comfortable rubber handle offers a good alternative to a classic bag




Volume:  
ca. 21 l


### Tool Bag "Heavy Duty"

- Especially stable with the stable plastic bottom



Volume:  
ca. 30 l

Model		No.
Trendy Tool Bag (380 x 300 x 370 mm)	1	<b>402311</b>
Tool Bag (450 x 285 x 335 mm)	1	<b>1500001320</b>

Model		No.
Tool Backpack (410 x 295 x 240 mm)	1	<b>1500001319</b>
Heavy Duty Tool Bag (620 x 250 x 350 mm)	1	<b>402317</b>

### Tool Box Apprentice

- Lots of storage room for all your tools



### Belt Bag

- Very light, handy bag for the most important tools
- Keeps the tools organized and easy to grab when needed



Volume:  
ca. 2,5 l

### Shoulder Toolbox "Trendy"

- Very light, handy bag for the most important tools




Volume:  
ca. 11 l

### Tool Roll Cover

- Ideal for hand tools with straps and flaps inside the roll cover



Model		No.
Tool Box Apprentice	1	<b>402312</b>
Belt Bag (250 x 120 x 310 mm)	1	<b>1500001460</b>

Model		No.
Trendy Shouldertoolbox (250 x 220 x 140 mm)	1	<b>402308</b>
Tool roll cover (730 x 300 mm)	1	<b>1500001468</b>

### Service Case 40 parts

High-quality hard protective service case with all round edge protection, solid and hardened aluminium frame and ergonomic handle

- 2 tool boards with 4 sides for adding tools
- 1 bottom case for modular arrangement
- 1 document case in cover
- Dimension: 470 x 200 x 360 mm



Set (No. 1000000420) includes: TUBE CUTTER 35 DURAMAG (6 - 35 mm), Telescopic Basin Nut Wrench (10 - 32 mm), Saw Bow ROBO Super (SW 300), 10x Hand saw blade BI-METAL HSSE 4 Plus (300 mm), corner pipe wrench Super "S" (1.1/2"), Wapu SP (10"), Express Spanner (M10, with 17 x 19), Screwdriver Set EUROLINE (2 x PH, 4 x Slot), aluminium spirit level (400 mm), carpenter pencil (graphite, 240 mm), Cutter Knife, Hammer with hickory wooden handle (300 g), Electrician Chisel, flat (250 x 8 mm, square), Double-end Box Wrench (6 - 32 mm, 12 pcs.), Service Case

Model		No.
Service Case, 40 pieces	1	1000000420

### Service Case 67 parts

High-quality hard protective service case with all round edge protection, solid and hardened aluminium frame and ergonomic handle

- 2 tool boards with 4 sides for adding tools
- 1 bottom case for modular arrangement
- 1 document case in cover
- Dimension: 470 x 200 x 360 mm

Tested in continuous operation up to 25 kg



Set (No. 1000000430) includes: Bricklayer's Chisel, Hole Punch (32 mm), One-handed Pipe Wrench STILLSON (14"), corner pipe wrench Super "S" (1"), Adjustable Wrench (6", with up to 29 mm), Ratchet Spanner open (ROCKCLICK, 13 mm and 17 mm), ROGRIP "S" (7", 10"), ROCUT TC (6 - 42 mm), carpenter pencil (graphite, 240 mm), wooden ruler (2 m), Cutter Knife, measuring tape ROMATIC (3 m), aluminium spirit level (400 mm), Screwdriver Set EUROLINE (2 x PH, 4 x Slot), Basin Nut Wrench (3/8 - 1"), Express Spanner (M10, with 17 x 19), MINICUT I Pro (3 - 16mm), TUBE CUTTER 35 DURAMAG (6 - 35 mm), Saw Bow ROBO Super (SW 300), 10x Hand saw blade BI-METAL HSSE 4 Plus (300 mm), Hammer with hickory wooden handle (300 g), Ratchet 1/2", R/L, Uni small saw, PUK, adjustable, with blade (190 / 310 mm), 12x Saw Blade for PUK saw (metal, 150 mm / 322p), Allen Key Set, fold-up (7 pcs., 2.5 - 10 mm), PLASTICUT (50 mm), Basin Nut Wrench (10 - 32 mm), Tap Extension Key with 12 x 17, Combination Pliers (180 mm), scraper (40 mm), Edge Cutter (160 mm), Combination Spanner Set (8 - 22, 8 pcs.), Service Case

Model		No.
Service Case, 67 pieces	1	1000000430

### Apprentice Set

Tough installation toolbox completely equipped with all the tools the craftsman needs

- Extensive and practical tool assortment
- Case made of galvanized steel
- Dimension: 530 x 200 x 200 mm

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, ROGRIP F (10"), Sanitary Four Way Key, installer toolbox

Model		No.
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## Abbreviations

Abbreviation	Description
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
LCD	Liquid Crystal Display












Abbreviation	Description
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
TPI	Bits per Inch
TRGI	Technical Guidelines for Gas Installations
TRWI	Technical Guidelines for Water Installations
TÜV	Technical Inspection Association
UKS	Orbital 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

### Power supply

 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			

### Working process

 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				

### Product features

 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. 100 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 indus- trial safety
 Don't sharpen	 With USB connection	 With video function	 With photo function	 Memory card	 WiFi

### 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® (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**

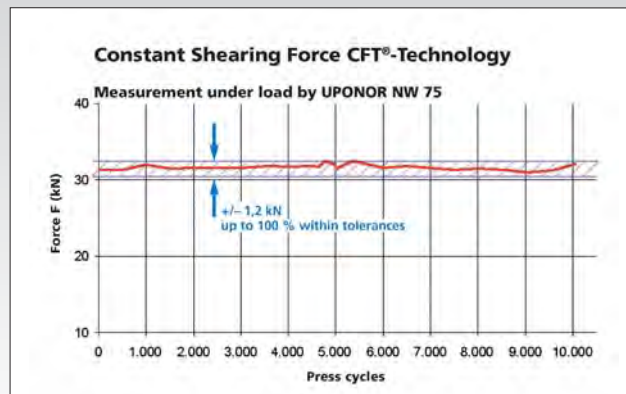
19-21 kN für 10,000 press cycles

**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



Handwriting practice lines consisting of 20 sets of three horizontal dashed lines.

Handwriting practice lines consisting of multiple sets of three horizontal dashed lines for tracing and writing practice.

Handwriting practice lines consisting of 20 sets of three horizontal dashed lines.



Handwriting practice lines consisting of multiple sets of three horizontal dashed lines for letter formation.



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