# ROTHENBERGER pipetool technologies at work

## 2014/2015























## Welcome to ROTHENBERGER!

#### Welcome to our world of pipe tools.

With a product range of more than 6,000 products we offer a broad and deep product portfolio of professional pipe tools. This enables us to offer comfortable "One-stop-shopping" for our partners in skilled crafts and trades, commerce and industry.

However it is not just a matter of quantity: More than 200 patents and trademarks as well as a high rate of own-manufactured products are proof of the fineness and quality of our products.

Our goal is to support and simplify the work of our customers in their everyday professional work allowing them to deliver optimum results in the shortest possible time. This is an ambition which requires us to renew our efforts everyday in order to deliver valuable solutions.

For more than 60 years ROTHENBERGER offers high quality, technically sophisticated pipe tools and machines. Our products are being used by professional craftsmen all over the world, whether it is in the sanitary area or in heating, air conditioning, refrigeration, gas and environmental engineering.

More than 1,700 colleagues in 50 branches and 17 production facilities throughout the world develop and manufacture about 28 millions tools a year which are sold in 90 countries around the world.





# Once ROTHENBERGER, always ROTHENBERGER.

We invest our utmost to provide satisfying solutions.

There are many good reasons why to chose our products not only once but always:

our full range offers everything a professional needs – from a hand-held tool through to a municipal cleaning vehicle, when you need it.

"Made by ROTHENBERGER" is not only a cliché since 60% of our products are own-manufactured. Engineers and technicians are constantly further developing and extending our product range and enrich the branch with innovative products and technologies such as the Constant Force Technology (CFT®) for a constant axial pressing force for manufacturing sealed press connections.

Our tools and machines are manufactured in 17 ROTHENBERGER production facilities throughout the world which also includes our own company forge in Abadiano, Spain.









# Specialist knowledge for first class products

With the right qualifications into a secure future.

The development of technologically high-quality products, as well as the qualification of our employees and end-users, is a defining factor in our success. That is why we as a manufacturer will continue to focus on competence and innovative supportive activities in all our future business lines.



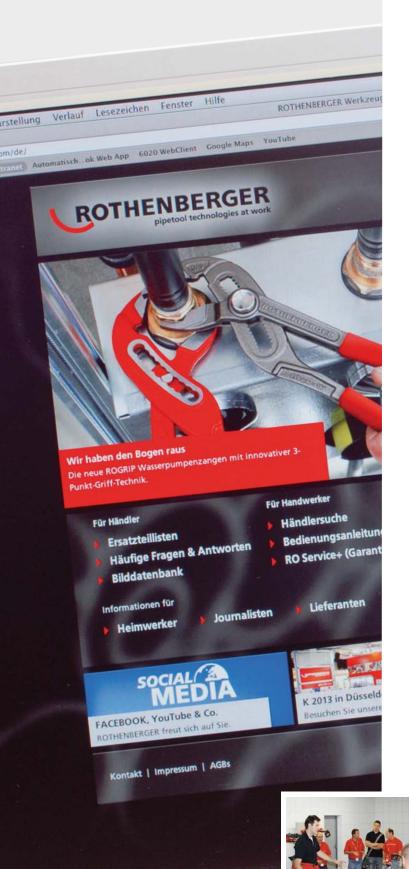


# Get involved in supporting TOOLS FOR LIFE!

Water, energy and education for the world.

It was in 2008 that Dr. Helmut Rothenberger founded the charitable foundation TOOLS FOR LIFE. Its mission: providing material resources such as water and energy as well as immaterial resources such as education, training and coaching particularly to poorer regions of the world. Please help strengthen the engagement of TOOLS FOR LIFE and donate to support one of the sustainable projects. You can obtain more information about this at www.toolsforlife-foundation.com





## We also are, where you are.

How you can contact us.

Whether you are interested in ordering our tools, desire to arrange a service contract or simply wish to be our friend on Facebook – we are there for you.

You can find your next ROTHENBERGER dealer by using the dealer search function on our website.

Our sales colleagues, who can give you a demonstration of our tools "live at work" in your workshop or on the building site, can be contacted over your dealer or by calling our headquarters in Kelkheim. We are, of course, always present at all major exhibitions, whether national or international. You can also find current dates for these on our website. We offer training sessions at your premises to support application and use of our tools an opportunity to learn about and try our latest products. Possible current dates for these can be found at:

#### http://www.rothenberger.com/en/service/trainings/.

You will also find a range of application videos which provide information rapidly at:

www.youtube.com/ rothenbergertv. Keep yourself informed about new developments from our companies and the branch as a ROTHENBERGER fan at:

www.facebook.com/ rothenberger. Please feel free to contact us if you feel we have forgotten something or if you wish to make any remarks at:

info@rothenberger.com – we look forward to receiving your email.







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#### **TUBE CUTTER 35 / 42 Pro**

Proven pipe cutter for the precise cutting of pipes  $\emptyset$  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





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

Constant, tight working radius of 123 mm



Model	<b>▶</b> mm	<b>▶</b> inch	ΔgΔ		anny	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





Model	►O⊲ mm	<b>▶</b> inch	$\Delta_g \Delta$	No.	Description	∆ <sub>g</sub> ∆	No.
ROTRAC 28	3 - 28	1/8 - 1.1/8"	220	70010	Spare cutter wheel (contains 3 pcs.) Cu, AI, 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 Internal / External deburrer, Ø 10 - 54 mm	27 27	1500000237 1500000236
GRATFIX	28	21655
UNIGRAT	28	21660
Spare cutter wheels	17	





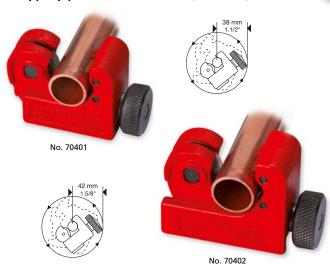






#### **MINICUT I PRO / II PRO**

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 ∆	<b>8</b>		No.
MINICUT I PRO	3 - 16	1/8 - 5/8"	115	1	4	70401
MINICUT II PRO	6 - 22	1/4 - 7/8"	125	1	4	70402
Spare cutter wheel			20	1(5)	0	70017D
Spare axle			5	1		70041

#### **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**

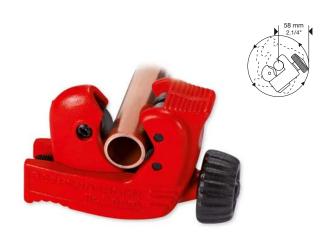
- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with small working radius (45 mm and/or 1.3/4") allows use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts near flares

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

#### **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	<b>►</b> O	<b>►</b> ○ <b>◄</b> inch	∆ <sub>g</sub> ∆		ana	) No.
MINI MAX	3 - 28	1/8 - 1.1/8"	270	1	4	70015
Spare cutter wheel			20	1(5)		070017D
Spare axle			5	1		70041

#### **TUBE CUTTER 30 PRO / 50**

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

#### **KEY FEATURES**

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



Model	mm	<b>▶</b> ○ <b>◄</b> inch	∑g ∆			No.
TUBE CUTTER 30 PRO	3 - 30 12 - 50		305 520	1	4	71019 70065

Model	$\sqrt{g}$	No.
Spare cutter wheel (contains 5 pc.) Spare axle	20 1 5 1	070017D 70041

## **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



Model	►O⊲ mm	<b>▶</b> inch	$\Delta_g \Delta$	No.	Model	<b>►</b> ◯ <b>⊲</b> mm	►O inch	$\sqrt[4]{g}$	No.
Size 1	6 - 67	1/4 - 2.5/8"	755	70030	Size 2	50 - 127	2 - 5"	1850	70142
Size 1 Spare deburi	ring blade		5	21652	Size 1 Spare	axle		20	70042
Size 1 Spare cutter	wheel (5 pcs.)		20	070017D	Size 1 Spare	deburrer complete		5	7500041
Size 2 Spare cutter	wheel (2 pcs.)		20	070057D	Size 2 Spare	axle		5	70149
Size 2 Spare deburi	ring blade		5	21652					

#### **Chain Pipe Cutter**

For pipes Ø 20 - 100 mm (1 - 4")

#### **KEY FEATURES**

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

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





#### ACCESSORIES

Model	No.
Internal / External deburrer, Ø 10 - 54 mm GRATFIX UNIGRAT	 











#### **ROSLICE®**

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











#### **Ergonomic form**



**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

Spare cutter wheel (contains 5 pcs.)

Spare axle

#### Non-slip surface

Reliable grip



Indicates rotating direction

Quick cutting with just a few turns

Model	►O mm/inch		$\Delta_g \Delta$	No.
ROSLICE®	12 mm	1	240	88812
ROSLICE®	15 mm	1	230	88815
ROSLICE®	18 mm	1	260	88818
ROSLICE®	22 mm	1	250	88822
Spare cutter wheel	1.1/8", 12 mm	5	36.3	088840D
Spare cutter wheel	5/8"-7/8", 15-22 mm	5	34.6	088841D
Spare cutter wheel	1/2"-3/4", 18 mm	5	37.4	088842D

#### **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



20

5



No.

70041

1(5) **070056D** 

#### **KEY FEATURES** 2 guide rollers with recess • Retractable internal deburrer and spare cutter wheel in handle Cut near flares Two guide rollers with recess for cuts near flares Precise cutting of stainless **Cutter wheel compartment** steel pipes Spare cutter wheel always within reach Internal deburrer Retractable ∆ g ∆ Model INOX TC 30 PRO 3-30 1/8-1.1/8" 305 71085

#### **INOX TUBE CUTTER**

Ratchet telescopic pipe cutter Ø 6 - 60 mm (1/4 - 2.1/8") 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!



70341

1(2)

20

#### **INOX TUBE CUTTER 35 / 42 PRO**

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

#### **KEY FEATURES**

Spare cutter wheels

Spare cutter wheel

- 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	►O⊲ mm	<b>▶</b> inch	$\sqrt{g}$	No.
INOX TC 35 INOX TC 42 PRO Spare cutter wheel (cont Spare deburring blade	6 - 42	1/4 - 1.3/8" 1/4 - 1.5/8"	440 510 20 10	70055 70070 070056D 21652

		ACC	ESSORIES
Model		No.	
Internal / External deburrer, Ø 6 - 35 mm Internal / External deburrer, Ø 10 - 54 mm GRATFIX	27 27 28	1500000237 1500000236 21655	
UNIGRAT	28	21660	









**INOX!** 



#### **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



Model	<b>►</b> mm	<b>▶</b> inch	$\Delta_g \Delta$	No.	Model	√ g Å	No.
ENORM 4"	60 - 115	2 - 4"	7105	70060	Spare axle	5	70064
Spare cutter who	eel (contains 2 pcs.)		20 <b>0</b>	70061D			

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

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



Precise cutting of stainless steel pipes



INOX!
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Model	<b>►</b> mm	►O inch	$\Delta_g \Delta$	No.	Model	►O mm	►O inch	$\Delta_g \Delta$	No.
SUPER 1.1/4"	10 - 42	1/8 - 1.1/4"	1040	70040	INOX SUPER	1.1/4" 10 - 42	1/8 - 1.1/4"	1040	70086
SUPER 2"	10 - 60	1/8 - 2"	2155	70045	INOX SUPER	2" 10-60	1/8 - 2"	2155	70087
1.1/4" Spare cutter	wheel (contain	ns 3 pcs.)	20 0	70046D	1.1/4" Spare o	cutter wheel (contain	ns 2 pcs.)	20	070088D
1.1/4" Spare axle			5	70048	1.1/4" Spare a	axle		5	70048
2" Spare cutter who	eel (contains 3	pcs.)	20 0	70051D	2" Spare cutt	er wheel (contains	s 2 pcs.)	20	070089D
2" Spare axle			5	70053	2" Spare axle	•		5	70053

#### **ACCESSORIES**









Model		No.
Internal / External deburrer, Ø 6 - 35 mm Internal / External deburrer, Ø 10 - 54 mm GRATFIX UNIGRAT Spare cutter wheels	27 27 28 28	1500000237 1500000236 21655 21660

## **Accessories Cutting Metal Manual**

## **Pipe Cutters, Cutting Wheels and Spare Parts**



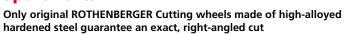


















Pipe cutter type	Model for pipe - Ø	No.	Cutting wheel No.	Sizes d, L, D mm		Cutting depth	Spare axle No.	Ø mm Length mm Thread	Spare roller No.	Deburring blade No.	Application area
MINICUT I PRO MINICUT II PRO	3 - 16 mm 6 - 22 mm	70401 70402	070017D 070017D	4.8 / 5.95 / 18.5 4.8 / 5.95 / 18.5	5 5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70023 70023	-	Copper pipe (Cu), Brass pipe (Ms), Aluminium pipe (Al),
MINICUT 2000	3 - 22 mm	70105	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3		-	thin-walled Steel pipe (Fe),
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-	PVC hard plastic pipe Plastic coated pipe
TUBE CUTTER 30 PRO	3 - 30 mm	71019	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu), Brass pipe (Ms),
TUBE CUTTER 35 + 35 C TUBE CUTTER 42 PRO	6 - 35 mm 6 - 42 mm	070027(C) 70029	070017D 070017D	4.8 / 5.95 / 18.5 4.8 / 5.95 / 18.5	5 5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70067 70067	21652 21652	Aluminium pipe (Al), thin-walled
TUBE CUTTER 35 MSR TUBE CUTTER 42 PRO MSR	6 - 35 mm 6 - 42 mm	70108 70109	070188D 070188D	4.8 / 5.9 / 19.3 4.8 / 5.9 / 19.3	5 5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70067 70067	21652 21652	Steel pipe (Fe), PVC hard plastic pipe 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
AUTOMATIK Size 1 Pipe Cutter	6 - 67 mm	70030 70031 70142	070017D 070028D 070057D	4.8 / 5.9 / 18.5 4.8 / 11 / 29.0 8 / 11 / 29.0	5 3 2	3.0 7.0 7.0	70041 70041 70149	4.7 / 16 / M4 4.7 / 16 / M4 7.9 /23.5/1/4"		21652 21652 21652	Cu, Ms, Al, Fe thin-walled. PE-, PP- VPE, PB- and PVDF pipe thin-walled. Cu, Ms, Al, Fe
Size 2	50 - 127 mm	70142	055054D 055053D 055074D	8/11/29.0 8/11/40.0 8/11/30.5 8/11/45.0	3 2 2	13.0 8.6 16.0	70149 70149 70149	7.9/23.5/1/4" 7.9/23.5/1/4" 7.9/23.5/1/4" 7.9/23.5/1/4"	-	21652 21652 21652	PE-, PP- VPE, PB- and PVDF pipe thin-walled. PP pipes PE-, PP- VPE, PB- and PVDF pipe
Size 3	100 - 168 mm	70033	055074D 055053D	8/11/45.0 8/11/30.5	2	16.0	70149 70149	7.9 /23.5/1/4" 7.9 /23.5/1/4"	-	21652 21652	PE-, PP- VPE, PB- and PVDF pipe thin-walled. PP pipes
TUBE CUTTER 28 TUBE CUTTER 42	3 - 28 mm 3 - 42 mm	70010 70011	070007D 070007D	4.8/3/16 4.8/3/16	3	2.5 2.5	70080 + 70081 70080 + 70081	4.7 / 9 / SR 4.7 / 9 / SR	80679 80679	-	Cu, Ms, Al, Fe thin-walled. Cu, Ms, Al, Fe thin-walled.
TUBE CUTTER 42 PRO PVC	6 - 42 mm	70072	070028D	4.8 / 6 / 23.6	3	7.0	70041	4.7 / 14 / M3	70067	-	PE-, PP- VPE, PB- and PVDF pipe
Steel Pipe Cutter SUPER	1/8" - 1.1/4" 1/8" - 2"	70040 70045	070046D 070051D	7.5 / 13.5 / 26 9.0 / 19 / 31.5	3	5.5 7.0	70048 70053	7.4/30/- 8.9/35/-	70047 70052	-	Steel pipe Steel pipe
Steel Pipe Cutter ENORM	2" - 4"	70060	070061D	9.7 / 27 / 41.5	2	7.0	70064	9.4 / 52 / -	70063	-	Steel pipe
INOX TUBE CUTTER 30 PRO	3 - 30 mm	71085	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
INOX TUBE CUTTER	6 - 60 mm	70340	70341	6/10/30	2	3.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX TUBE CUTTER 35 INOX TUBE CUTTER 42 PRO	6 - 35 mm 6 - 42 mm	70055 70070	070056D 070056D	4.8 / 5.9 / 18.5 4.8 / 5.9 / 18.5	5 5	4.0 4.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70068 70068	21652 21652	Stainless steel pipe Stainless steel pipe
INOX SUPER	1/8" - 1.1/4" 1/8" - 2"	70086 70087	070088D 070089D	7.5 / 13.5 / 26 9.0 / 19 / 31.5	2 2	5.5 7.0	70048 70053	7.4/30/- 8.9/35/-	70047 70052	-	Stainless steel pipe Stainless steel pipe
Chain Pipe Cutter	100 mm	70285	-	4.0 / 3.8 / 17.8	-	3.0	-	-	Spare ch	ain 70286	Cu, Ms, Al, Fe thin-walled.

#### **ROCUT®**

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

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

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

#### **Product Profile**

#### **APPLICATION AREA**

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

#### **KEY FEATURES**

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

#### **KEY FEATURES**

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

#### **TECHNICAL DATA**

 ROCUT® Professional:
 ROCUT® Standard:

 TC 42:
 Ø 0 - 42 mm
 TC 26:
 Ø 0 - 26 mm

 TC 50:
 Ø 0 - 50 mm
 TC 32:
 Ø 0 - 32 mm

 TC 63:
 Ø 0 - 63 mm
 PS 35:
 Ø 6 - 35 mm

 TC 75:
 Ø 0 - 75 mm
 PS 26/42:
 Ø 6 - 42 mm



#### **ROCUT® TC 50 / TC 75 Professional**

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



#### **ROCUT® TC 63 Professional**

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

(TC 63 Professional for PVC pipes)





#### **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)



Model ► → mm	No.
ROCUT® TC 26 Professional 0 - 26 0 - 1.1/4" 370 1 4	52005
ROCUT® TC 32 Professional 0 - 32 0 - 1.3/8" 220 1 4	52040
ROCUT® PS 35 6 - 35 1/4 - 1.3/8" 740 1 20	55005
ROCUT® PS 26 / 42 S adjustable 6 - 42 1/4 - 1.5/8" 950	55015
ROCUT® TC 42 Professional 0 - 42 0 - 1.5/8" 447 1 4	52000
ROCUT® TC 50 Professional 0 - 50 0 - 2" 600 1 4	52010
ROCUT® TC 63 Professional 0 - 63 0 - 2.1/2" 700 1	52030
ROCUT® TC 75 Professional 0 - 75 0 - 3" 1,600 1	52015
ACCESSORIES	
No. 52041 No. 55006 No. 55007 No. 52042 No. 52011 No. 52011 No. 52016	
Description ► mm ► inch $\sqrt[4]{g}$ ☐	No.
Spare stainless steel blade for TC 32 Professional 0 - 32 0 - 1.3/8" 120 1	52041
Spare stainless steel blade for PS 35 S 6 - 35 1/4 - 1.3/8" 30 1	55006
	55007
Spare stainless steel blade for TC 42 Professional 6 - 42 0 - 1.5/8" 120 1	52042
Spare stainless steel blade for TC 50 Professional 0 - 50 0 - 2" 120 1	52011
	52031

## 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





Removable internal pipe deburrer





Model	<b>►</b> O	inch	Cutting- depth	$\Delta_{kg}\Delta$	8	No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	7.0	0.7	1	70031
TC 125 PL	50 - 125	2 - 5"	13.0	1.6	1	70032
TC 168 PL	110 - 168	4 - 6.5/8"	16.0	1.7	1	70033
Counter d	isplay TC 67	PL			1 (4) 0	70031D
Cutting Wh	neels, Spare	Parts 1	7			



# ROTHENBERGER

#### **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	► <b>⊘</b> mm	No.
Jacket pipe cutter Spare blade ROCUT PPD	0-32 mm	21500 21505

#### **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

Model	mm	inch	$\sqrt{g}$			No.
TC 35 MSR	6 - 35	1/4 - 1.3/8"	440	1	10	70108
Spare cutter whee	ls TC 35/4	42 MSR	19	1	5	070188D

TECHNICAL DATA		
TC 35 MSR:	6 - 35 mm	1/4 - 1.3/8"
TC 42 PRO MSR:	6 - 42 mm	1/4 - 1.5/8"
TC 42 PRO PVC:	6 - 42 mm	1/4 - 1.5/8"



Model	mm	inch	$\sqrt{g}$			No.
TC 42 PRO MSR	6 - 42	1/4 - 1.5/8"	510	1	10	70109
TC 42 PRO PVC	6 - 42	1/4 - 1.5/8"	510	1	4	70072
Spare cutter wheels	TC 42	PVC	10	3		070028D

#### **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





Chipless pipe cutting!











Model	<b>▶</b> mm	No.
PLASTICUT PVC	32 mm	59035
PLASTICUT PVC	40 mm	59042
PLASTICUT PVC	50 mm	59050
Spare blade plastic type A	A (3 pcs.) 10 mm, 15 mm,	59000
20 mm, 22 mm, 32 mm	40 mm, 50 mm	
Spare blade plastic type E	3 (3 pcs.) 25 mm, 28 mm	59001

#### Instructions:

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





## **Sawing Manual**

#### **ROBO Super**

#### Safety saw frame

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



#### **ROBO Mini**

#### Small saw frame

Handle with ergonomic form enables powerful sawing in tight spaces

Large dimension tightening screw



Model	Clamping width mm	$\Delta_g \Delta$	No.
ROBO Mini	150	160	71222
including UNIVERSAL saw	blade (No. 71217)		

#### **Metal Saw Frame**

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



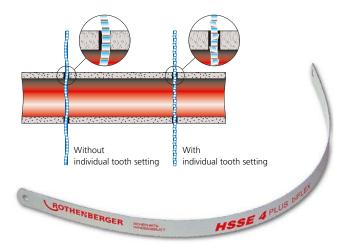
Model	Clamping width mm	ΔgΔ	No.
Metal saw frame without sav	v blade 300	530	300013

#### **UNI Small Saw "PUK"**

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



Model C	lamping width mm	$\sqrt{g}$	No.
PUK static, with UNIVERSAL saw blade	150	100	842100
PUK adjustable, with UNIVERSAL saw blade (w. A	150	140	71215
UNIVERSAL saw blade for metal Saw blade for wood	150 (32 ZpZ) 150 (14 ZpZ)	20 20	71217 71216



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.

#### **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	$\Delta_g \Delta$		No.
HSSE 4 Plus	300	24	20	1 100	71213

## **Sawing Electric**

## 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	Straigh	nt Cuts	45°	Cuts
Machine Type	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	$\Delta_{kg}\Delta$	230 V	110 V
PORTACUT 185 BSR	43.0	56710	56717
PORTACUT 185 BSP	49.0	56711	56718





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

				for p	ipes and profiles		
Dimensions mm	TPI	Material		Steel	INOX	$\triangle$ g $\triangle$	No.
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  $\emptyset$  300 mm, profiles / solids up to  $\emptyset$  70 mm. For use with market-standard angle grinders and cut-off wheels  $\emptyset$  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	$\Delta_{kg}\Delta$	No.
TRENNBOY 300 (without angle grinder)	13.5	58520
Double telescoping extension rail, r. (300 mm)	1.9	58527
Double telescoping extension rail, I. (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)



## **Sawing Electric**

#### **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 confided spaces, such as in shafts or when working overhead











#### **TECHNICAL DATA**

1,500 W Performance:

Speed: 0 - 2,200 rpm (adjustable per wheel)

Weight: Distance: 26 mm

**Dimensions:** 491 x 94 x 108 mm

**Cutting blade attachment:** 

Universal, U-shaft, special pipe saw blades



#### L- and U-Shaft attachments





Precise 90° cuts



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

Model	$\Delta_{kg}\Delta$	230 V	110 V
ROTIGER VARIO Electronic	7.0	50306	50305
Chain tensioning device up to 6"			50311
Tensioning device 2 in 1			50312
/Cl	and Heart and		

(Chain tensioning device up to 6" + collet chucks up to 2")



Fig. ROTIGER VARIO Electronic

## **Sawing Electric**

#### **Universal ROTIGER VARIO Electronic**

#### Universal electronic saw

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

## **Product Profile**

#### **KEY FEATURES**

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











#### **TECHNICAL DATA**

 Performance:
 1,600 W with 230 V / 1,300 W with 110 V

 Speed:
 1,000 - 2,800 rpm (adjustable with wheel)

Weight: 3.7 kg Distance: 26 mm

**Dimensions:** 440 x 120 x 80 mm

Saw blade attachment: Quick tensioning for universal saw blades



#### Universal-shaft attachment



Working in confined spaces



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

Model	$\Delta_{kg}\Delta$	230 V	110 V
UNIVERSAL ROTIGER VARIO Electronic	7.0	50301	50302



Fig. Universal ROTIGER VARIO Electronic



#### **Saw Blades**

## 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	<b>*</b>	No.	
	HSS Bimetal	100 x 20 x 0.9	24	L	S 522 AF	1 (5)	865783	Processor In a AND
	HSS Bimetal	150 x 20 x 0.9	24	L	S 922 AF	1 (5)	865784	and the State of States
	HSS Bimetal	150 x 20 x 0.9	18	L	S 922 EF	1 (5)	865785	N. Sales
	HSS Bimetal	150 x 20 x 0.9	14	L	S 922 BF	1 (5)	865786	n. a.ch
	HSS Bimetal	200 x 20 x 0.9	18	L	S 1022 EF	1 (5)	865787	The Reserve
	HSS Bimetal	200 x 20 x 0.9	14	L	S 1022 BF	1 (5)	865788	THE REAL PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADD
	HSS Bimetal	300 x 20 x 0.9	10 - 14	L	S 1222 VF	1 (5)	865789	The same of the sa
	HSS Bimetal	150 x 20 x 1.25	6	L	S 611 DF	1 (5)	865781	TO BUILDING
	HSS Bimetal	300 x 20 x 1.25	6	L	S 1411 DF	1 (5)	865782	- STREET LAND
Guss Guss	HSS Bimetal	150 x 22 x 1.6	8 - 10	L	S 920 CF	1 (5)	865790	n notes 🕅 🗷 🚟
Guss .	HSS Bimetal	200 x 22 x 1.6	8 - 10	L	S 1120 CF	1 (5)	865791	THE PARTY OF THE PARTY
Guss	TCT coated	225 x 20 x 1.5 3	0er grain	L	S 1130 RF	1 (5)	865793	5 1130 87 (min 2) (SOTHERMEROUSE No. (6,179)

#### **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	2	reference	<b>*</b>	No.
Ø	HSS Bimetal	140 x 25 x 1.6	8	U	S 920 CF	1 (5)	865795
A	HSS Bimetal	200 x 25 x 1.6	8	U	S 1120 CF	1 (5)	865796
	HSS Bimetal	150 x 25 x 1.0	10 - 14	U		1 (5)	865798
The Park	HSS Bimetal	200 x 25 x 1.0	10 - 14	U		1 (5)	865799

#### **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		<b>= *</b>	No.	
Ø	HSS	140 x 25 x 1.6	8	L	1 (5)	50260	The second secon
4	HSS	200 x 25 x 1.6	8	L	1 (5)	50261	Total Control of the
4	HSS	290 x 25 x 1.6	6 - 8	L	1 (5)	50263	International Control of Control
4	HSS-E	140 x 25 x 1.6	14	L	1 (5)	50264	Section 1 Sectio
<b>A</b>	HSS-E	200 x 25 x 1.6	8	L	1 (5)	50265	Married Married Control
Ø	HSS	200 x 25 x 1.6	6 - 8	L	1 (5)	50266	P. Married Street

<sup>\*5</sup> pcs. in plastic carrying case (minimum purchase)

## **Deburring, Chamfering & Calibration**

#### **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







Model	<b>▶</b> ○	<b>▶</b> ○ <b>◄</b> inch	ΔgΔ		No.
Internal and external deburrer for copper and plastic	4 - 36	1/8 - 1.3/8"	30	1 25	11006
Internal and external deburrer for copper and INOX (Stainless steel)	6 - 35	1/4 - 1.3/8"	100		1500000237
Internal and external deburrer for copper and INOX (Stainless steel)	10 - 54	1/2 - 2"	390		1500000236

#### **Deburrer Adaptor I / II**

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

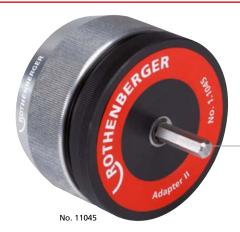
Product Profile

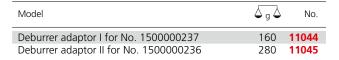
KEY FEATURES

User-friendly solution for deburring pipes "internal and external"

Huge time-savings

Precise, burr-free deburring without effort





Best deburring results at low speeds!



Drive shaft

For the deburring with portable screwdriver or drill





## **Deburring, Chamfering & Calibration**

#### **GRATFIX HSS/UNIGRAT**

#### Deburrer

#### **KEY FEATURES**

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



Model	$\sqrt[4]{g}$	No.
UNIGRAT with HSS deburring blade	30	21660
GRATFIX with deburring blade No. 1	50	21655
GRATFIX with deburring blade No. 1 - 2 - 3	80	21651

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





GRATFIX HSS (No. 21655)

Model	$\langle g \rangle$	No.
HSS deburring blade No. 1 Universal	10	21652
HSS deburring blade No. 2 for brass and cast	10	21653
HSS deburring blade No. 3 for straight edges	10	21654

#### **Plastic Pipe Chamfering Unit**

#### With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe





#### **KEY FEATURES**

- Flexible in use
- Wall thickness is continuously adjustable

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

#### Ratchet Pipe Deburrer 1/4 - 2" Rapid and clean deburring For steel pipes, with smooth-running ratchet, cutting Quick adjustment bit made of tempered steel Spare deburrer (No. 70296) Handy, lockable Reversal of the ratchet direction Model No. Internal deburrer with ratchet 1/4 - 2" 13 - 60 70289 Spare deburrer 200 70296

## **Deburring, Chamfering & Calibration**

## **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



#### **KEY FEATURES**

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



## ROGRAT-MSR System - Manual Chamfering Attachments

● black ● brown ● violet ● yellow

ROGRAT Type	- Pi Press-System	ipe measuremen mm	t Colour- code	√ <sub>g</sub> ∆	No.
G 16		16.0 x 2.25	•	53	14102
G 20	GEBERIT Mepla	20.0 x 2.50	•	93	14104
G 26	GESEINI INIOPIG	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	e 18.0 x 2.00	0	58	14133
F 20-1	alpex-therm	20.0 x 2.00	•	93	14134
F 26	alpex-san	26.0 x 3.00	0	108	14136
F 32		32.0 x 3.00	•	162	14137

Fig. ROGRAT-MSR Deburrer Set

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







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## **System Overview Diamond Core Drilling**

ROTHENBERGER Diamond Core Drilling								
	RODIADRILL Ceramic / Ceramic ECO  RODIADRILL 1800 DRY		RODIACUT® 130 PRO	RODIACUT® 170 PRO	RODIACUT® 270 PRO	RODIACUT® 400 PRO D		
	LIOTHE VALUE OF A		иголиндо.			ROTHENBENCER -		
Drilling range in concrete	6 - 35 mm	-	10 - 162 mm	10 - 172 mm	32 - 250 mm	32 - 400 mm w/ distance plate 500mm		
Drilling range in masonry	6 - 67 mm	32 - 200 mm	32 - 200 mm	32 - 200 mm	32 - 250 mm	32 - 400 mm w/ distance plate 500mm		
Distance to wall	30 mm	40 mm	40 mm	40 mm	50 mm	50 mm		
Stationary	- / 67 mm	32 - 172 mm	10 - 162 mm	10 - 172 mm	32 - 250 mm	32 - 400 (500) mm		
Watt output	800 W	1,800 W	1,400 W	1,800 W	2,400 W	3,000 W		
Weight	3.4 / 3.2 kg	5.8 kg	13.9 kg	20.1 kg	25.8 kg	40.5 kg		
Special features	Wide area of use, extremely light machine, especially for hard natural stone / tiles	Soft PULSE can be turned on / off. Integrated extraction rotor	4 functions with just one device. Leveling in drilling stand	4 functions with just one device. Fully equipped drill stand	Motor quick release system. Fully equipped drill stand	Innovative motor electronics, extremely high torque		
	34, 35	33	37	38, 39	40, 41	42, 43		

	High Speed Plus Natural Stone	DX-High Speed Plus / DURAMANT PRO	SPEED STAR DX	
	Natural Stone  DURAMANT PRO  LEGOLINE MEMBERGER  DURAMANT PRO  LEGOLINE MEMBERGER  DURAMANT PRO  LEGOLINE MEMBERGER  LEGOLINE		GOTHENBERGER	
application Area	Wet drill bit	Wet and dry drill bit	Wet and dry drill bit	
ocket threads	G 1/2"	G 1/2" + 1.1/4" UNC	G 1/2" + 1.1/4" UNC	
ffective length	50 / 120 / 300	400, 500 / 300, 430	400 / 500	
segment mount	Soldered	Space welding	Space welding	
segment form	Flat segment	PRISMACUT	PRISMACUT	
<b>Material</b>	Reinforced concrete, marble granite, hollow brickwork, masonry, clinker	Reinforced concrete, concrete, marble, granite, lime sand brick, hollow brickwork, masonry, aerated concrete, clinker	Reinforced concrete, concrete asphalt*, pavement*  *custom made on request	
	45	45 46, 48		
inforced ncrete Marble	Granite Lime sand brick	Hollow Aerated brickwork Masonry concret		

## **Hand-Operated Drilling**

#### **RODIADRILL 1800 DRY**

Hand-operated dry drilling, drill Ø 32 - 200 mm

## 230 V





#### **Product Profile**

#### **APPLICATION AREA**

Hand-operated dry drilling, optimal for drilling in lime sand brick, masonry, brickwork, pumice, aerated concrete

Ideal for use in the HVAC&R, plumbing and electrical industries, in enclosed rooms or in inhabited buildings where jolt and dust free operation is required

#### **KEY FEATURES**

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

#### **KEY FEATURES**

- Operation possible with RODIACUT® 170 Pro (FF30171, FF30170 (130 PRO (No. 1000000088)) possible
- Clamping adaptor Ø 56 mm

#### **TECHNICAL DATA**

**Transmission:** 1 speed transmission

 Nominal speed:
 1150 rpm

 Drilling range in mm:
 Ø 32 - 200

 Voltage:
 230 V

Rated input/output: 2,500 Watt / 1,800 Watt

Charging rate: 8.5 A

Minimum distance to wall: 40 mm from drill hole centre Minimum distance to corner: 40 mm from drill hole centre

Weight: 5.8 kg



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

Model	$\sqrt[4]{\log \Delta}$	No.
RODIADRILL 1800 DRY set	5.80	FF40185

#### ACCESSORIES











Description	$\sqrt{\log \Delta}$	No.	Description	$\sqrt[]{\log \Delta}$	No.
Centering pin as drill support, 300 mm	0.33	FF03300	Socket drill bit Ø 68 mm	0.20	FF03168
Centering pin as drill support, 400 mm	0.35	FF03301	Socket drill bit Ø 82 mm	0.30	FF03182
Centering tip "Quick Out" I. V. M. FF35097	0.10	FF35096	Dry cleaner RODIA DC 1200	10.80	FF35148
Adaptor G 1/2" for M16	0.10	FF35097	Transport case RODIADRILL 1800 DRY	4.40	FF60185
Drill bits 44, 45, 46, 47, 48					

## **Hand-Operated Drilling**

#### **RODIADRILL Ceramic RODIADRILL Ceramic ECO**

#### 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.

#### **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
- Integrated 1 litre water tank for 4-6 drill holes







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

#### **TECHNICAL DATA**

2-speed transmission: 1. Gear speed 2. Gear speed Nominal speed: 3,600 rpm 6,400 rpm Drilling range in mm: Ø 25 - 67 Ø 6 - 25

Voltage: 230 V

Rated input/output: 1,150 Watt / 800 Watt

Charging rate: 3 6 A

Maximum drilling depth: 400 mm (depending on material) Minimum distance to wall: 30 mm from drill hole centre Minimum distance to corner: 30 mm from drill hole centre

3.4 kg Ceramic 3.2 kg Ceramic ECO Stationary: Ø 67 mm (Ceramic ECO)\*

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



#### Clean drilling of tiles





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	$\Delta_{kg}\Delta$	No.
RODIADRILL Ceramic set	3.4	FF40150



## **Hand-Operated and Stationary Wet Drilling**

#### **RODIADRILL Ceramic ECO**

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

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

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

Quick Change System drill bit adaptor

Toolless quick change for drill bits G 1/2"



Quick change adaptor



Drill bits HSP natural stone



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

Model	$\sqrt[]{\log \Delta}$	No.
RODIADRILL Ceramic ECO set	3.2	FF40140
RODIACUT® drill stand 170 PRO	10.0	FF30171

#### Stationary drilling



Model	$\sqrt[b]{\log \Delta}$	No.
Quick change adaptor G 1/2"	0.2	FF35751
Pressurized water container 10 l	5 5	FF35026

#### **ACCESSORIES**











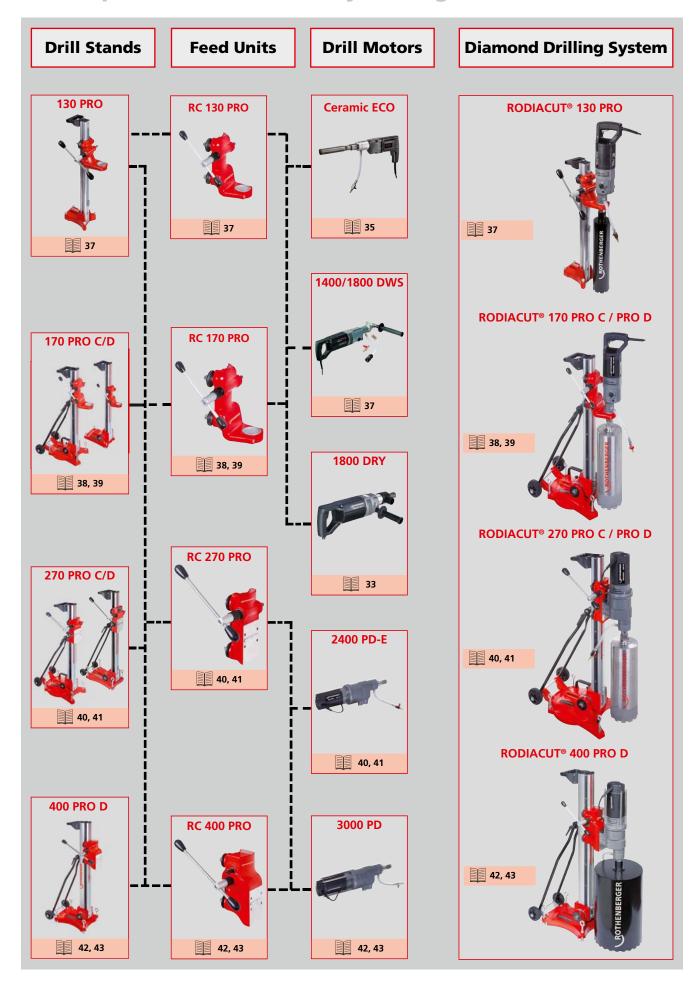






Description	$\sqrt[]{\log \Delta}$	No.	Description	$\Delta_{kg}\Delta$	No.
Freehand drill support up to Ø 83 mm		FF35750	Water supply hose with "aqua-stop"		FF35302
Quick change adaptor Pressurized water container 10 l	0.20 5.50	FF35751 FF35026	Water collection ring, hand-operated Water collection ring, stationary	0.80 1.20	FF35701 FF35700
Special water supply hose	0.20	FF35301	Transport case RODIADRILL Ceramic ECO	4.80	FF60150
Drill Rit High-Speed-Plus Natural Stone 45					

**Hand-Operated and Stationary Drilling** 



## **Hand-Operated and Stationary Drilling**

#### **RODIACUT® 130 PRO**

#### Drilling system with dowel plate, drill Ø 10 - 200 mm

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

## ell as The light weight and toolless open







The light weight and toolless operation allows an easy one-man operation and makes this unit a "must" on every construction site.

#### **Product Profile**

#### **APPLICATION AREA**

Stationary wet drilling in (reinforced) concrete  $\emptyset$  10 - 162 mm Stationary dry drilling in masonry  $\emptyset$  32 - 162 mm Hand-operated wet drilling in (reinforced) concrete  $\emptyset$  10 - 82 mm Hand-operated dry drilling in masonry  $\emptyset$  32 - 200 mm

#### **KEY FEATURES**

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

#### **TECHNICAL DATA (DRILL MOTOR)**

Drill motor: RODIADRILL 1400 DWS

Drilling range: in concrete max. Ø 132 mm
in brickwork Ø 162 mm

Min. distance to wall:40 mm from drill hole centreMin. distance to corner:40 mm from drill hole centreThreaded adaptor:G 1/2" and 1.1/4" UNCRated input / output:2,000 Watt / 1,400 Watt2-speed transmission:1. Gear2. GearNominal speed:500 rpm1,050 rpm

Torque: 55 - 27 Nm
Charging rate: 8.5 A
Weight: Motor 6.7 kg
Clamping neck: Ø 60 mm

#### Ideal for difficult spaces



Dowel plate: Extremely small dimensions, for very tight spaces



Circular level: Quick and precise alignment of the drill stands



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

Model	$\sqrt[L]{\log L}$	No.
RODIACUT® 130 PRO set	14.2 <b>100</b>	0000089
with RODIADRILL drill motor 1800 DWS		
RODIACUT® 130 PRO set	14.1 <b>100</b>	0000092
with RODIADRILL drill motor 1400 DWS		
Drill stand RODIACUT® 130 PRO	7.2 <b>100</b>	0000088
RODIADRILL drill motor 1400 DWS	6.7	FF40160
Drill bits on 44		

#### Threaded adaptor: G 1/2" and 1.1/4" UNC!



## **Hand-Operated and Stationary Drilling**

#### RODIACUT® 170 PRO C / 170 PRO D

Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 200 mm









#### **Product Profile**

#### **APPLICATION AREA**

#### 4 Applications with just one unit:

Stationary wet drilling in (reinforced) concrete  $\varnothing$  10 - 172 mm Stationary dry drilling in masonry  $\varnothing$  32 - 172 mm Hand-operated wet drilling in (reinforced) concrete  $\varnothing$  10 - 82 mm Hand-operated dry drilling in masonry  $\varnothing$  32 - 200 mm

#### **KEY FEATURES**

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

## TECHNICAL DATA (DRILL STANDS)

**Drilling range:** w/o water collection ring: max. Ø 172 mm with water collection ring: max. Ø 132 mm

Drill motor adaptor: Ø 60 mm

170 PRO C 170 PRO D Length 470 mm 315 mm Width: 300 mm 180 mm Height: 860 mm 860 mm Hub: 525 mm 525 mm Weight: 13.1 kg 12.8 kg

#### **TECHNICAL DATA (DRILL MOTOR)**

Clamping neck:

Drill motor: **RODIADRILL 1800 DWS Drilling range:** in concrete max. Ø 172 mm Freehand: in masonry max. Ø 200 mm 40 mm from drill hole centre Min. distance to wall: 40 mm from drill hole centre Min. distance to corner: Threaded adaptor: G 1/2" and 1.1/4" UNC Rated input/output: 2,500 Watt / 1,800 Watt 2 speed transmission: 760 - 1,570 rpm Torque: 58 - 27 Nm Charging rate: 8.5 A Weight: 7.0 kg

Ø 60 mm



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

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

#### **Rubber transport wheels**

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

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

High-quality drill base



#### Drill angle adjustment

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

Quick adjustment for an exact

drilling position

## **Hand-Operated and Stationary Drilling**

#### CHARACTERISTICS 170 PRO C and 170 PRO D

#### Available with both drill stands:

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

#### **ADDITIONAL CHARACTERISTICS 170 PRO C**

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



Clean work in enclosed rooms

# Stainless steel handle Toolless quick change for the operating side, sturdy design Feed unit and 4x roll guides Universally applicable on RODIACUT® 130, 270 PRO and 400 PRO Fig. 170 PRO D Fig. 170 PRO C

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

Model	$\Delta_{kg}\Delta$	No.
RODIACUT® 170 PRO C complete	20.1	FF34171
RODIACUT® 170 PRO D complete	19.8	FF34170
RODIADRILL 1800 DWS	7.0	FF40180
Drill column RODIACUT® 170 PRO C	13.1	FF30171
Drill column RODIACUT® 170 PRO D	12.8	FF30170
Drill column 860 mm, Hub 525 mm	7.6	FF50978
Drill column 1335 mm, Hub 1000 mm	12.4	FF50981
Drill column 1835 mm, Hub 1500 mm	16.5	FF50982
Feed unit for RC 170 PRO	3.1	FF50977
Anchor foot for RC 170 PRO	3.3	FF50979

















Description		No.	Description		No.
RODIADRILL CERAMIC ECO	35	FF40150	RODIA DRY CLEANER 1200	53	FF35148
RODIADRILL 1800 DRY	33	FF40185	Water collection ring, hand-operated	52	FF35701
Pressurized water container 10 l	51	FF35026	Water collection ring, stationary (for FF30171)	52	FF35700
Vacuum pump RODIA-VAC	49	FF35200	Drill bits	44 - 48	

## **Stationary Drilling**

#### RODIACUT® 270 PRO C / 270 PRO D

Drill stand with dowel- or vacuum combination plate drill Ø 32 - 250 mm









#### **Product Profile**

#### **APPLICATION AREA**

#### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 250 mm Stationary dry drilling in masonry Ø 32 - 250 mm

#### **KEY FEATURES**

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

#### **TECHNICAL DATA (DRILL STANDS)**

**Drilling range:** w/o water collection ring: max. Ø 250 mm with water collection ring max. Ø 220 mm

**Drill motor adaptor:** Direct adaptor for feed unit

270 PRO C 270 PRO D Length: 520 mm 330 mm Width: 330 mm 220 mm Heiaht: 980 mm 980 mm Hub: 595 mm 595 mm Weight: 16.8 kg 16.5 kg

#### **TECHNICAL DATA (DRILL MOTOR)**

Drill motor:RODIADRILL 2400 PD-EDrilling range:in concrete max. Ø 250 mmMin. distance to wall:50 mm from drill hole centreMin. distance to corner:50 mm from drill hole centreThreaded adaptor:G 1/2" and 1.1/4" UNCRated input/output:3,000 Watt / 2,400 Watt3 speed transmission:300 - 600 - 1,120 rpm

 Torque:
 95 - 47 - 23 Nm

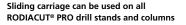
 Charging rate:
 14.9 A

 Weight:
 9.0 kg



#### 4x roll guides

Precise and low vibration operation, flexible use / module concept



Toolless quick mounting/demounting of drill motor on drill stand

#### Rubber transport wheels

Quick and easy transport on the building site

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

High-quality drill base



Drill angle adjustment

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



hole centre

#### **CHARACTERISTICS 270 PRO C AND 270 PRO D**

#### Standard with both drill stands:

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

#### **ADDITIONAL CHARACTERISTICS 270 PRO C**

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

# Stainless steel handle Toolless quick change for the operating side, sturdy design Feed unit Universally applicable on RODIACUT® 170 PRO and 400 PRO Fig. 270 PRO D



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

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

Model	$\Delta_{kg}\Delta$	No.
RODIACUT® 270 PRO C complete	25.8	FF34271
RODIACUT® 270 PRO D complete	25.5	FF34270
RODIADRILL 2400 PD-E	9.0	FF40210
Drill stand RODIACUT® 270 PRO C	16.8	FF30271
Drill stand RODIACUT® 270 PRO D	16.5	FF30270
Drill column 980 mm, Hub 595 mm	8.4	FF50985
Drill column 1385 mm, Hub 1000 mm	12.5	FF50988
Drill column 1885 mm, Hub 1500 mm	16.5	FF50989
Feed unit for RC 270 PRO	3.1	FF50984
Anchor base for RC 270 PRO	5.2	FF50986
Combination base for RC 270 PRO	7.7	FF50987
Angled support for RC 270 PRO anchor base	2.8	FF50990

#### **ACCESSORIES**





Fig. 270 PRO C













Description		No.	Description		No.
RODIADRILL 3000 PD	42, 43	FF40300	Vacuum set	49	FF35740
Pressurized water container 10 l	51	FF35026	RODIA DRY CLEANER 1200	53	FF35148
Vacuum pump RODIA-VAC	49	FF35200	Water collection ring, stationary (for FF30171)	52	FF35730
Distance plate 15 mm		FF35134	Extension	52	
Distance plate 20 mm		FF35139	Drill bits	44 - 48	

## **Stationary Drilling**

#### **RODIACUT® 400 PRO D**

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



#### **Product Profile**

#### **APPLICATION AREA**

#### 2 applications in one unit:

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

#### **KEY FEATURES**

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

#### **TECHNICAL DATA (DRILL STANDS)**

**Drilling range:** w/o water collection ring: max. Ø 500 mm

optional with distance plate

Weight: 28.4 kg Length: 460 mm Width: 260 mm Height: 1,100 mm Hub: 680 mm

#### **TECHNICAL DATA (DRILL MOTOR)**

RODIADRILL 3000 PD **Drill motor:** in concrete max. Ø 500 mm **Drilling range:** in masonry max. Ø 500 mm Min. distance to wall: 50 mm from drill hole centre Min. distance to corner: 50 mm from drill hole centre Threaded adaptor: G 1/2" and 1.1/4" UNC Rated input/output: 4,000 Watt / 3,000 Watt

3 speed transmission: 215 - 430 - 785 rpm Torque: 185 - 107 - 55 Nm

20.0 A Charging rate: Weight: 12.1 kg



#### 4x roll guides

Precise and low vibration operation, flexible use / module concept

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

Toolless quick mounting/demounting of drill motor on drill stand



\*Distance plates optional (No. FF35138)

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



Quick and easy transport on the building site



**Drill angle adjustments** Adjustable from -15° up

to +45° in 2.5° steps





## **Stationary Drilling**

No. FF50977

No. FF50984

No. FF50993

#### **Characteristics 400 PRO D**

#### Standard with both drill stands:

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

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

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

Toolless quick mounting/demounting of drill motor on drill stand

> Stable threaded

Fig. 400 PRO D

connection



#### Gear reduction 1:3

Reduces the contact pressure of the drill bit



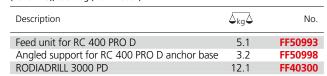
Toolless quick change for the operating side, sturdy design



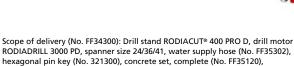
Exchangeable guide rail / exchangeable rack / motor mounting

Cost-saving spare parts

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







Model	$\Delta_{kg}\Delta$	No.
RODIACUT® 400 PRO D	40.5	FF34300
Drill stand RODIACUT® 400 PRO D	28.4	FF30030
Drill column 1100 mm, Hub 680 mm	11.7	FF50995
Drill column 1420 mm, Hub 1000 mm	16.1	FF50996
Drill column 1920 mm, Hub 1500 mm	21.4	FF50997

















Description		No.	Description		No.
RODIADRILL 2400 PD-E	40 - 41	FF40210	Distance plate 70 mm		FF35138
Submergable water pump RODIAPUMP	51	FF35029	RODIA DRY CLEANER 1200	53	FF35148
Pressurized water container 10 l	51	FF35026	Mounting articles	50	
Copper ring 1.1/4"	50	FF35190	Extensions	52	
Distance plate 50 mm		FF35131	Drill bits	44 - 48	
Distance plate 60 mm		FF35136			

#### **RODIA® Diamond Drill Bits**

#### **Space Welding**

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

#### **SPACE WELDING**

#### Wet and dry drilling with new technology:

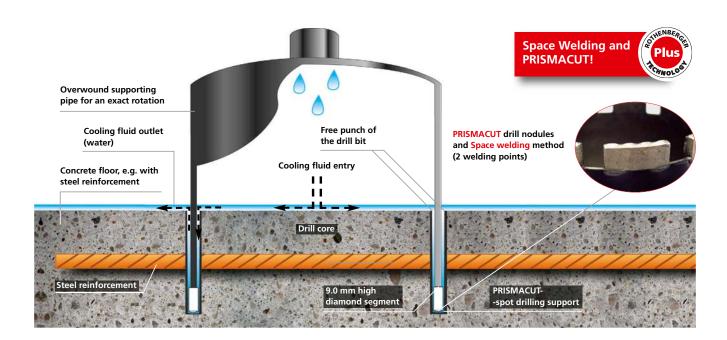
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space Welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20%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

#### **PRISMACUT**

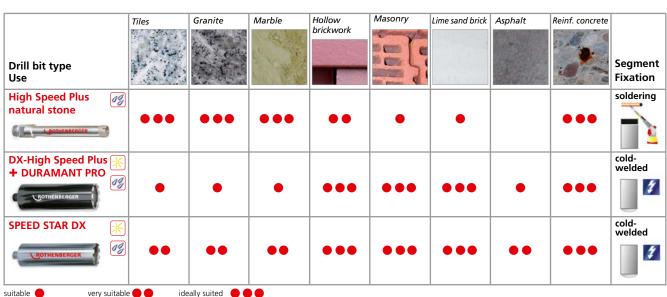
Four drill nodules on the diamond segment improve the drill behaviour and at the same time provides optimum water cooling.

#### **PRISMACUT**

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



#### Which Drill Bit for Which Material?



#### **RODIA® Diamond Drill Bits**

#### **High Speed Plus Natural Stone**

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

#### **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

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



#### **KEY FEATURES**

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

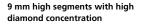
#### **TECHNICAL DATA**

#### G 1/2" connection

**Drill bits** Segment dimensions (L x W x H) Segment 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:  $\emptyset$  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



Extremely easy cutting, very long service life in granite tiles







Overwound drill bits

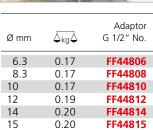
Balanced rotation reduces wear

Threaded adaptor G 1/2" Suitable for all other ROTHENBERGER drilling

machines







0.20

FF44816

16

Reinf. concrete

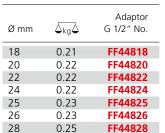


Masonry





Hollow brickwork



Granite









Green granite

Ø mm	$\sqrt[]{\log \lambda}$	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

#### Suitable for







Ø mm	$\sqrt[]{\log \lambda}$	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				

#### **RODIA® Diamond Drill Bits**

#### **DX-High Speed Plus Universal Drill Bits**

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

#### **Product Profile**

#### **APPLICATION AREA**

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

**Typical areas of application** are HVAC&R and electronic installations, old building renovations, building industry, airconditioning 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





1400/1800 DWS<sup>3</sup>

1800 DRY





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

Highest service life and universal application!



Hollow brickwork







Ø mm	$\sqrt[4]{\log \Delta}$	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

## Lime sand brick

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

Suitable for all other

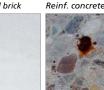
ROTHENBERGER drilling machines

Space welding

Allows wet and dry use

Overwound drill bits Balanced rotation reduces wear





Ø mm	$\Delta_{kg}\Delta$	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

## **Space Welding and** PRISMACUT!



#### TECHNICAL DATA

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

d 1/2 connection (500 min effective length)				
Drill bit	Segment	Segment dimensions (L x W x H)		
Ø 10 - 40 mm	1	19.3 x 2.5 x 9 mm		
Ø 42 - 62 mm	4 - 6	24.0 x 2.5 x 9 mm		
Ø 72 - 92 mm	7 - 8	24.0 x 2.8 x 9 mm		
Ø 102 - 132 mm	7 - 11	24.0 x 3.3 x 9 mm		
1.1/4" UNC conn	ection (430	mm effective length)		
Ø 20 - 62 mm	1 - 6	24.0 x 2.5 x 9 mm		
Ø 72 - 92 mm	7 - 8	24.0 x 2.8 x 9 mm		
Ø 102 - 152 mm	9 - 12	24.0 x 3.3 x 9 mm		
Ø 162 - 182 mm	12 - 14	24.0 x 3.8 x 9 mm		
Ø 200 - 300 mm	14 - 20	24.0 x 4.0 x 9 mm		

#### Special segment mix

Quicker drilling progress and extremely long service life

Extremely easy cut safe cuts in hand operated use





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		-

Ø mm	$\sqrt[]{\log \Delta}$	Adaptor 1.1/4" No.	Ø mm	$\sqrt[]{\log \lambda}$	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

**RODIA® Diamond Drill Bits** 

#### **SPEED STAR DX**

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

#### **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

# **Space Welding and** PRISMACUT!





TECHNICAL D	TECHNICAL DATA				
Drill bits	Segment	Segment dimensions (L $\times$ W $\times$ H)			
Ø 10 - 38 mm	1	16 x 3.0 x 7.0 mm			
Ø 40 - 48 mm	1 - 4	24 x 3.0 x 9.0 mm			
Ø 50 - 55 mm	5 - 6	24 x 3.5 x 9.0 mm			
Ø 56 - 72 mm	6 - 7	24 x 3.5 x 9.0 mm			
Ø 75 - 102 mm	7 - 8	24 x 3.5 x 9.0 mm			
Ø 107 - 142 mm	9 - 11	24 x 4.0 x 9.0 mm			
Ø 142 - 182 mm	11 - 14	24 x 4.0 x 9.0 mm			
Ø 182 - 250 mm	14 - 16	24 x 4.0 x 9.0 mm			
Ø 300 - 500 mm	16 - 26	20 x 5.0 x 9.0 mm			
Connection G 1/2": Effective length 400 mm					
Connection 1.1/4	I" UNC:	Effective length 500 mm			

# Durable (DURAMANT) PRISMACUT Extremely easy cutting, safe cut in hand-operated use



Balanced rotation reduces wear

#### **Extremely high** diamond concentration

Faster drilling progress

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

#### Suitable for





1400/1800 DWS<sup>\*</sup>





<sup>\*</sup> We recommend the optional extraction rotor when using as a dry drill bit

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

Suitable for all other ROTHENBERGER drilling machines













Ø mm	$\sqrt[4]{\log \lambda}$	Adaptor G 1/2" No.	Ø mm	$\sqrt[4]{\log \lambda}$	Adaptor G 1/2" No.
10	0.3	FF00610	52	0.9	FF00650
12	0.4	FF00612	56	1.2	FF00655
14	0.4	FF00614	62	1.2	FF00660
15	0.4	FF00615	66	1.3	FF00665
16	0.4	FF00616	72	1.4	FF00670
18	0.4	FF00618	76	1.5	FF00675
20	0.5	FF00620	82	1.6	FF00680
24	0.5	FF00624	87	1.7	FF00685
25	0.5	FF00625	92	1.9	FF00690
26	0.5	FF00626	95	2.0	FF00695
28	0.6	FF00628	102	2.1	FF00700
30	0.6	FF00630	108	2.3	FF00705
32	0.6	FF00632	112	2.4	FF00710
35	0.7	FF00635	117	2.5	FF00715
38	0.7	FF00638	122	2.6	FF00720
40	0.7	FF00640	127	2.8	FF00725
46	0.7	FF00645	132	2.9	FF00730

Ø mm	$\sqrt[4]{\log \lambda}$	Adaptor 1.1/4" No.	Ø mm	$\sqrt[]{\log \Delta}$	Adaptor 1.1/4" No.
20	0.5	FF00020	122	4.2	FF00120
25	0.6	FF00025	125	4.3	FF00125
30	0.7	FF00030	132	4.6	FF00130
40	1.2	FF00040	142	5.0	FF00140
46	1.4	FF00045	152	6.4	FF00150
52	1.6	FF00050	162	7.0	FF00160
56	1.7	FF00055	172	7.5	FF00170
62	1.9	FF00060	182	8.0	FF00180
66	2.1	FF00065	200	9.0	FF00200
72	2.3	FF00070	220	11.4	FF00220
76	2.4	FF00075	250	13.6	FF00250
82	2.6	FF00080	280	17.6	FF00280
87	2.8	FF00085	300	19.3	FF00300
92	3.0	FF00090	350	23.6	FF00350
102	3.4	FF00100	400	28.4	FF00400
108	3.6	FF00105	450	33.6	FF00450
112	3.8	FF00110	500	39.1	FF00500

#### **RODIA® Diamond Drill Bits**

#### **DURAMANT PRO Universal Drill Bits**

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

#### **Product Profile**

#### **APPLICATION AREA**

Wet drill bits for drilling in reinforced-concrete asphalt, as well as natural and artificial stone from Ø 10 - 500 mm

Dry drill bits for drilling in masonry, lime sand brick, poroton and other light building materials from Ø 32 -500 mm

#### **KEY FEATURES**

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

## **Space Welding and** PRISMACUT!





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

#### Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in hand-operated use







#### Suitable for





1400/1800 DWS\* 1800 DRY





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

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

Suitable for all other ROTHENBERGER drilling machines

#### **DURAMANT PRO** segments

Allows wet and dry use

#### Overwound drill bits

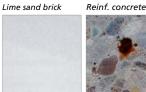
Balanced rotation reduces wear











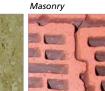


Adaptor



Ø mm

112





Adaptor

1.1/4" No.

Special segment composition

Adaptor

Faster drilling progress and extremely long service life

Ø mm	$\sqrt[]{\log \Delta}$	Adaptor G 1/2" No.
10	0.3	FF42610
12	0.4	FF42612
14	0.4	FF42614
15	0.4	FF42615
16	0.4	FF42616
18	0.4	FF42618
20	0.5	FF42620
22	0.5	FF42622
24	0.5	FF42624
25	0.5	FF42625
26	0.5	FF42626
28	0.6	FF42628
30	0.6	FF42630
32	0.6	FF42632
35	0.7	FF42635
38	0.7	FF42638
40	0.7	FF42640

Ø mm	∆kg∆	G 1/2" No.
46	0.8	FF42645
52	0.9	FF42650
56	1.2	FF42655
62	1.2	FF42660
66	1.3	FF42665
72	1.4	FF42670
76	1.5	FF42675
82	1.6	FF42680
87	1.7	FF42685
92	1.9	FF42690
95	2.0	FF42695
102	2.1	FF42700
108	2.3	FF42705
112	2.4	FF42710
117	2.5	FF42715
122	2.6	FF42720
127	2.8	FF42725
132	2.9	FF42730

FF42020	0.5	20
FF42025	0.6	25
FF42030	0.7	30
FF42035	0.8	35
FF42040	1.2	40
FF42045	1.4	46
FF42050	1.6	52
FF42055	1.7	56
FF42060	1.9	62
FF42065	2.1	66
FF42070	2.3	72
FF42075	2.4	76
FF42080	2.6	82
FF42085	2.8	87
FF42090	3.0	92
FF42100	3.4	102
FF42105	3.6	108

3.8

 $\Delta_{ka}\Delta$ 

		Adaptor
Ø mm	$\Delta_{kg}\Delta$	1.1/4" No.
122	4.2	FF42120
125	4.3	FF42125
132	4.6	FF42130
142	5.0	FF42140
152	6.4	FF42150
162	7.0	FF42160
172	7.5	FF42170
182	8.0	FF42180
200	9.0	FF42200
220	11.4	FF42220
225	12.5	FF42225
250	13.6	FF42250
280	17.6	FF42280
300	19.3	FF42300
350	23.6	FF42350
400	28.4	FF42400
450	33.6	FF42450
500	39.1	FF42500

FF42110

Water connection

## **Accessories Hand-Operated & Stationary Drilling**

#### **Galvano Drill Bit Set**

#### For drilling stoneware tiles Ø 6 - 83 mm

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

#### **KEY FEATURES**

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

## Centre drill support with suction cup

Variable adjustment of the drill dimensions up to  $\varnothing$  43 mm

#### Galvano drill

Ø 6 - 8 - 10 - 12 mm

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





Description	-0-	No.
Centre drill support up to	43 mm	FF35749
Centre drill support up to	83 mm	FF35750

#### **Vacuum Pump RODIA-VAC**

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

#### **Vacuum Sets**



#### **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 sideway guidance.

Description	$\sqrt[]{\log \Delta}$	No.
Quick Clamping Column	9.0	FF35015
Vacuum pump RODIA-VAC 230 V	20.0	FF35200
Vacuum set, RODIACUT® 130, 131 DWS, 170 C	1.1	FF35710
Spare foamed rubber for drill base	0.1	FF50007
Vacuum set RODIACUT® 202 DWS, 270 C	1.1	FF35740
Spare foamed rubber for drill base	0.1	FF50008
Sharpening stick (286 x 152 x 40 mm)	1.8	FF35135





## **Accessories Hand-Operated & Stationary Drilling**

#### **Concrete Fixing Set**

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





Description	$\Delta_{kg}\Delta$	No.
Concrete fixing set	1.90	FF35120
Drive-in anchor M12	0.04	FF35122
Threaded rod, B15 concrete set	0.20	FF35129
Threaded rod, B15 masonry	0.30	FF35130
Wet drill bit Ø 15 mm	0.20	FF44815
SDS-plus hammer drill Ø 15 - 160 mm	0.16	111429
Masonry fixing set	1.10	FF35121
Rawl anchor M 12	0.08	FF35126
Wet drill bit Ø 20 mm	0.22	FF44820
SDS-plus hammer drill Ø 20 - 300 mm	0.22	111449

#### **Masonry Fixing Set**

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



# **Special Diamond Drills for Tiles and Natural Stone**

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





#### Copper Rings 1.1/4"

#### **KEY FEATURES**

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

Description		ΔgΔ	No.
Copper Ring 1.1/4"	1	5	FF35190

# 2

## **Accessories Hand-Operated & Stationary Drilling**

#### **Thread Interfaces**

Between motor connection and drill bit







Description	$\Delta_{kg}\Delta$	No.
G 1/2" ext. thread onto 1.1/4" UNC ext. thread	0,5	FF35080
1.1/4" UNC int. thread onto G 1/2" int. thread	0,7	FF35095
Drill bit adaptor DD-BI on to G 1/2" + 1.1/4"	0,5	FF35091
Drill bit adaptor DD-BU on to G 1/2" + 1.1/4"	0,8	FF35092
Drill bit adaptor WÜRTH onto 1.1/4"	0,6	FF35101

#### **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.



Description	$\Delta_{kg}\Delta$	No.
Pressurized water container	5.50	FF35026
Submersible water pump RODIAPUMP	4.40	FF35029
Special water supply hose	0.20	FF35301
Water supply hose with "Aqua-stop"	0.20	FF35302



# **Accessories Hand-Operated & Stationary Drilling**



#### **Water Extraction Systems**

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

Description	$\sqrt{\log \Delta}$	No.
Water collection ring, stationary (up to Ø 132 mr	n)1.2	FF35700
Spare rubber membrane (for FF35700)	0.3	FF55131
Water collect. ring, hand-opd. (up to Ø 132 mm)	0.8	FF35701
Spare water collection ring discs (for FF35701)	0.2	FF35702
Adaptor for vacuum (FF35701)	0.1	FF35703
Water collection ring, stationary (up to Ø 200 mm	2.5	FF35730
Spare rubber membrane (for FF35730)	0.6	FF55201



#### **Extensions**

G 1/2" and 1.1/4" UNC

#### **KEY FEATURES**

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

Nominal length mm	$\sqrt[4]{\log \Delta}$	G 1/2" No.	∑ <sub>kg</sub> ∆	1.1/4" UNC No.
100	0.40	FF35040	1.00	FF35060
200	0.90	FF35045	2.00	FF35065
300	1.40	FF35050	3.00	FF35070
500	2.40	FF35055	5.10	FF35075





Description	$\sqrt[]{\log \Delta}$	No.
Extraction Rotor 1.1/4" UNC (G 1/2"-machine s	side) 1.0	FF40056
Centering Pin for extraction rotor 300 mm	0.3	FF03300
Centering Pin for extraction rotor 400 mm	0.3	FF03301
Adaptor for RODIADRILL 1800 DWS/DRY	0.1	FF35097
Centering tip "Quick-Out" ICW. FF35097	0.1	FF35096

#### **Centering Pin**

#### From Ø 90 up to 400 mm

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

#### **Extraction Rotor "RODIADUST"**

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

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

#### **Support Plates for Centering Pin**

#### From Ø 31 mm up to Ø 201 mm

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

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

Ø mm	ΔgΔ	No.	Ø mm
31	5	FF03308	111
41	8	FF03309	121
51	10	FF03310	131
61	13	FF03311	151
71	17	FF03312	161
81	18	FF03313	171
91	22	FF03314	181
101	44	FF03315	201

Ø mm	∆ <sub>g</sub> ∆	No.
111	50 <b>F</b>	F03316
121	55 F	F03317
131	58 F	F03318
151	77 <b>F</b>	F03319
161	80 F	F03320
171	85 F	F03321
181	100 F	F03322
201	120 F	F03323

## **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





Model	$\sqrt[]{\log \Delta}$	No.
RODIA DRY CLEANER 1200	10.8	FF35148
Folded filter (2 piece) for wet suction	1.0	FF55374
Fleece filter (5 piece) for dry suction	0.3	FF55388

Constant extraction power!
Automatic filter-cleaning function!

#### High cleaning efficiency



wide operating range
5 m long suction hose
and 8 m long AC power

cord

User comfort with a

#### **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	$\sqrt[]{\log \Delta}$	No.
RODIA CLEANER 1400	9.0	FF35210
Cartridge filter	1.0	FF55447
Paper filter (5 piece)	1.0	FF55448









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#### **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:  $\emptyset$  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



Various bends possible



TUBE BENDER (No. 766004016)



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	$\sqrt{\log \Delta}$		No.
Basic set (basic tool, back plates	1.00	1	24010
plastic case) 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 Segments** 

Model	<b>►</b> Size	$\sqrt{g}$	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:

Copper (soft) Ø 12 - 22 mm, 3/8 - 7/8" and aluminium: Copper (coated): Ø 12 - 18 mm, 3/8 - 5/8" Precision steel (soft): Ø 12 - 22 mm, 3/8 - 7/8" Stainless steel (thin-walled, soft): Ø 12 - 18 mm, 3/8 - 5/8"

#### **KEY FEATURES**

Safe transport

- 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



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)

possible at all levels

Model	$\sqrt[]{\log \lambda}$		No.
TB MAXI set 12 - 15 - 18 - 22 mm	3.5	1	023020X
TB MAXI set 12 - 14 - 16 - 18 - 22 mm	3.5	1	023021X
TB MAXI set 3/8 - 1/2 - 5/8 - 3/4 - 7/8"	3.3	1	023022X
TB MAXI set MSR	3.3	1	023090X
14 - 16 - 18 - 20 - 25 mm			
TB MAXI set MSR	3.3	1	023091X
14 - 16 - 18 - 20 - 26 mm			
Basic tool without back plate support	1.0	1	766100016
Back plate support	0.5	1	23015
without support segments			
Support segment R/L 10 - 25 mm	0.5	2	23008
Support segments R/L 12 - 22 mm	0.1	2	23047
Plastic carrying case	1.1	1	23097

Previous bending segments and support segments from earlier models are compatible!

Fig. TUBE BENDER MAXI Set

### **TUBE BENDER MAXI Bending Segments**

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



#### **TUBE BENDER MAXI MSR Set**

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

#### **Product Profile**

#### **APPLICATION AREA**

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



#### **KEY FEATURES**

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















Description	∑ <sub>g</sub> ∆	No.	Description	ΔgΔ	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 - 28 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



Size	mm	R Radius mm	<del>k—≯</del> mm J	$\sqrt[]{\log \Delta}$	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  $180^{\circ}$  of pipes made of soft copper, aluminium and precision steel Ø 10 - 18 mm (1/4 - 5/8")

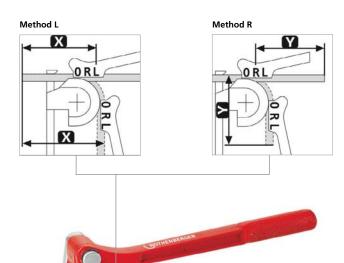
#### **KEY FEATURES**

- 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	$\sqrt[]{\log \lambda}$	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

#### Manual



Minimum size chart and bending radius display on measurement scale

**Accurate bending** 

#### **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

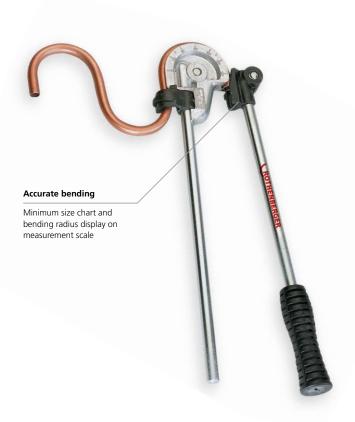
#### Method L- Determination of the length of L - Left:

- 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	$\sqrt{g}$	No.
MINIBEND	6 - 8 - 10 mm	420	25150
MINIBEND	1/4 - 5/16 - 3/8"	420	25151



#### **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

<b>►</b> Size	R Radius mm	k—≯ L mm	∑ <sub>g</sub> ∆	No.
6 mm	18	305	550	25130
10 mm	30	390	970	25132
12 mm	36	390	980	25133
14 mm	47	450	1,580	25134
15 mm	54	450	1,830	25135
16 mm	58	450	1,830	25136
18 mm	66	480	2,110	25137
1/4"	18	305	560	25140
5/16" / 12 mn	n 24	305	640	25131
1/2"	30	390	1,680	25142
5/8"	58	450	1,830	25136





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

#### **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

►O Size	ΔgΔ	No.
8 mm	70	25181
10 mm	80	25182
12 mm	160	25183
15 mm	220	25185
16 mm	220	25186



►O Size	ΔgΔ	No.
1/4"	80	25187
5/16"	70	25181
3/8"	90	25188
1/2"	130	25190
5/8"	220	25186

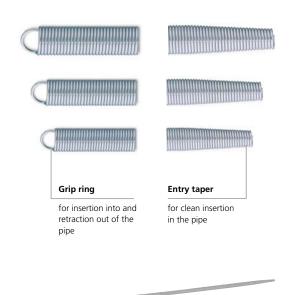
#### **MSR Internal Bending Springs**

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

#### **KEY FEATURES**

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

Model	<b>▶</b> ■ Bending sprin	<b>▶ □ •</b> g Pipe	∑g ∆	No.
MSR-internal-bending spring	g 6.0 mm	12.0 mm	90	25441
MSR-internal-bending spring	g 8.0 mm	14.0 mm	120	25442
MSR-internal-bending spring	g 10.0 mm	16.0 mm	150	25443
MSR-internal-bending spring	12.0 mm	18.0 mm	180	25444
MSR-internal-bending spring	g 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



Internal / External deburrer	27	1500000236
Description		No.

#### **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:

Copper (soft, semi-hard, hard

**thin-walled):** Ø 8 - 22 mm, 5/16 - 7/8"

Copper (coated, also

thin-walled): Ø 10 - 18 mm, 3/8 - 5/8"
Aluminium and brass: Ø 8 - 22 mm, 5/16 - 7/8"
Precision steel (also coated): Ø 10 - 22 mm, 3/8 - 5/8"
Seamless stainless steel: 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



#### **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 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	$\sqrt[]{\log \Delta}$	No.
ROBEND® H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	24500
ROBEND® H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	24501
ROBEND® H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	24502
ROBEND® H+W PLUS	15 - 18 - 22 mm	1.0	14.9	24505
ROBEND® H+W PLUS	1/2 - 5/8 - 3/4"	1.0	13.6	24503
ROBEND® H+W PLUS	1/2 - 5/8 - 7/8"	1.0	13.7	24504

#### **ROBEND® H+W PLUS Bender**

<b>►</b> ○	<b>-</b>	R		
Size	max mm	Radius mm	∆ <sub>g</sub> ∆	No.
8 mm	1.0	22	660	24508
10 mm	1.0	32	1,180	24510
12 mm	1.0	38	1,110	24512
14 mm	1.0	45	1,370	24514
15 mm	1.0	45	1,370	24515
16 mm	1.0	64	2,620	24516
18 mm	1.0	64	2,620	24518
22 mm	1.0	81	3,800	24522
5/16"	1.0	22	660	24508
3/8"	1.0	32	1,185	24551
1/2"	1.0	38	1,110	24552
5/8"	1.0	64	2,620	24516
3/4"	1.0	81	3,850	24519
7/8"	1.0	81	3,800	24522
ACCES	SORIES (addi	tional lever for	two-hand be	endina)

Lever (short) for bending formers Ø 8 mm / 3/8"

Lever for bending formers bigger than Ø 15 mm

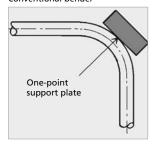
Lever for bending formers Ø 10 - 15 mm

## ROLUB Anti-Block Special Guide Shoe

<b>_</b>		
ize	∆ <sub>g</sub> ∆	No.
mm	20	25308
mm	20	25310
mm	30	25312
mm	30	25314
mm	30	25315
mm	50	25316
mm	50	25318
mm	90	25320
mm	90	25322
16"	20	25308
/8"	25	25310
/2"	30	25313
/8"	50	25316
/4"	90	25319
/8"	90	25322

#### Conventional bender

Bending spray 150 ml



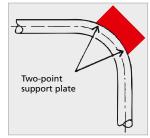
#### ROBEND® with ROLUB system

25075

25076

25078

25120

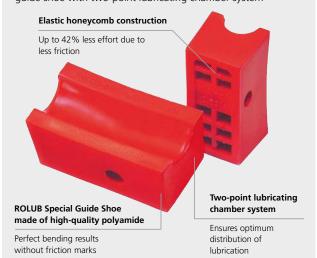


#### Accurate bending



### **ROLUB Anti-Block Special Guide Shoe**

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



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"

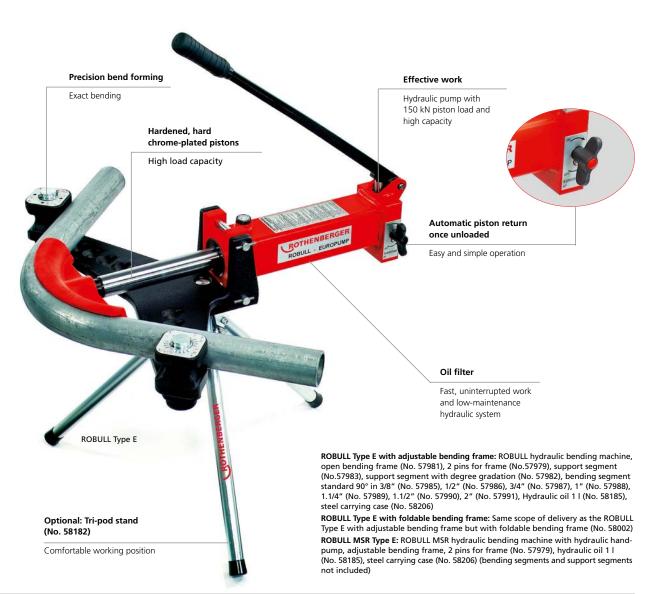
**ROBULL MSR Type E:** 

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



Model	Description	$\sqrt[]{\log \Delta}$		No.
ROBULL Type E	without accessories	16.8	1	057950X
ROBULL Type E	with adjustable bending frame and accessories (see above)	59.8	1	057966X
ROBULL Type E	with foldable bending frame and accessories (see above)	72.6	1	057961X
ROBULL MSR Typ E	without bending segments and support segments (see above)	54.0	1	57900

## **Manual Hydraulic**



## **ROBULL Type E Bending Segments**

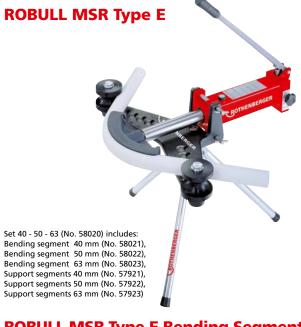
#### **Small bending radius**

inch	mm	Wall thickness max. mm	r mm	$\sqrt[]{\log \Delta}$	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 E Bending Segments**

#### Large bending radius

inch	mm	Wall thickness max. mm	r mm	$\sqrt[4]{\log \Delta}$	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 E Bending Segments**

<b>►</b> mm	Wall thickness max. mm	r mm	$\sqrt{\log \Delta}$	No.
40	2.35	138	1.2	58021
50	2.65	173	1.7	58022
63	2.65	218	2.3	58023
40 - 50 - 63	see above	see above	9.0	58020





















Model	$\overline{\triangle_{kg}\triangle}$	No.
ROBULL Type E		
Bending frame, adjustable	15.2	57981
Support segment for adjustable bending frame,	2.6	57982
with degree gradation (1 piece)		
Support segment for adjustable bending frame,	2.6	57983
without degree gradation (1 piece)		
Bending frame, foldable	12.5	58002
Support segment for foldable bending frame (1 piece)	2.2	58004
Locking pin	0.3	57979

Model	$\sqrt[]{\log \Delta}$	No.
ROBULL MSR Type E		
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
ROBULL Type E / ROBULL MSR Type E		
Hydraulic oil, 1 litre	1.0	58185
Steel carrying case	10.0	58206
Tripod stand	3.0	58182

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#### **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:** 

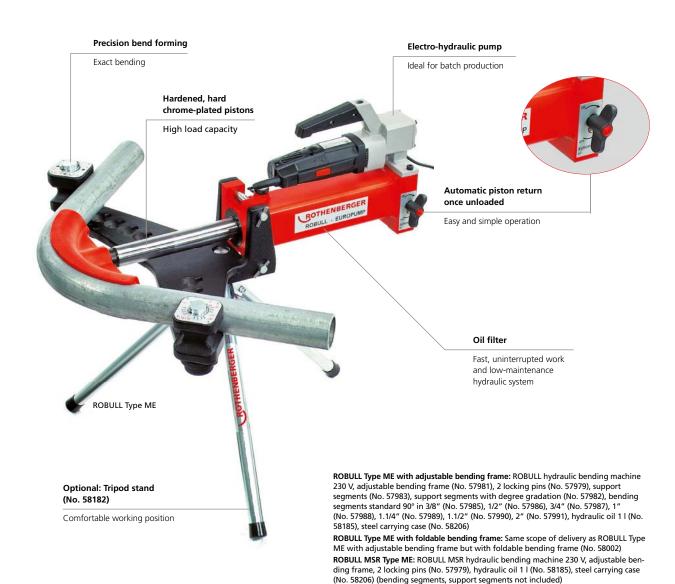
For accurate bending up to 90° on pipes made of:

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



Model	Description	$\sqrt[4]{\log \lambda}$		No.
ROBULL Type ME	without accessories	17.8	1	057969X
ROBULL Type ME	with adjustable bending frame and accessories (see above)	59.8	1	057973X
ROBULL Type ME	with foldable bending frame and accessories (see above)	72.6	1	057972X
ROBULL MSR Type ME	without bending segments and support segments (see above)	54.0	1	57915

#### **ROBULL Type ME**



## **ROBULL Type ME Bending Segments**

#### **Small bending radius**

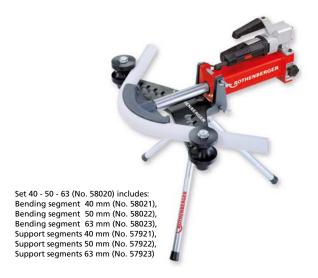
<b>▶</b> ○ <b>◄</b> inch	mm	Wall thickness max. mm	r mm	$\sqrt[]{\log \Delta}$	No.
3/8"	17.20	2.35	45	0.7	57985
1/2"	21.30	2.65	49	0.7	57986
3/4"	26.90	2.65	65	0.8	57987
1"	33.70	3.25	89	1.3	57988
1.1/4"	42.40	3.25	115	1.6	57989
1.1/2"	48.30	3.25	137	2.4	57990
2"	60.30	3.65	200	3.2	57991

## **ROBULL Type ME Bending Segments**

#### Large bending radius

inch	mm	Wall thickness max. mm	r mm	$\Delta_{kg}\Delta$	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**



## **ROBULL MSR Type ME Bending Segments**

<b>►</b> mm	Wall thickness max. mm	r mm	$\sqrt[]{\log \Delta}$	No.
40	2.35	138	1.2	58021
50	2.65	173	1.7	58022
63	2.65	218	2.3	58023
40 - 50 - 63	see above	see above	9.0	58020



















Model	$\sqrt[]{\log \Delta}$	No.
ROBULL Type ME		
Bending frame, adjustable	15.2	57981
Support segment for adjustable bending frame,	2.6	57982
with degree gradation (1 piece)		
Support segment for adjustable bending frame,	2.6	57983
without degree gradation (1 piece)		
Bending frame, foldable	12.5	58002
Support segment for foldable bending frame (1 piece)	2.2	58004
Locking pin	0.3	57979

Model	$\sqrt[]{\log \Delta}$	No.
ROBULL MSR Type ME		
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
ROBULL Type ME / ROBULL MSR Type ME		
Hydraulic oil, 1 litre	1.0	58185
Steel carrying case	10.0	58206
Tripod stand	3.0	58182

#### **ROBEND® 3000**

Portable, sturdy power bender for cold bending up to  $180^{\circ}$ , Ø 12 - 28 mm (1/2 - 1.1/8'')

#### **Product Profile**

#### **APPLICATION AREA**

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

Suitable for pipes made of:

Copper (hard, semi-hard and soft DIN EN 1057):

Ø 12 - 28 mm

Copper and precision steel

(coated): Ø 12 - 28 mm

Precision steel (soft

Pre-adjustment of the bending

**DIN 2391 / 2393 / 2394):** Ø 12 - 28 mm Threaded steel (**DIN 2440 / 2441):** Ø 3/8 - 3/4" **Seamless stainless steel (GW 541):** Ø 12 - 28 mm

Multi-layered composite pipe (MSR): wall thickness 1.0 - 1.2 mm

#### **KEY FEATURES**

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



Forged aluminium former with bending radius scale

Easy to use



Bending of pipes made of various materials possible



Seven-fold drive



Bending technology

and storage of fittings

Simplified work preparation, eliminates costs of purchase

Comfortable carry handle



ROBEND® 3000 with stand

Automatic switch-off when preset bending angle is obtained

Fast batch production possible





#### **ROBEND® 3000 Sets**

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



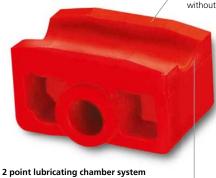




#### **ROLUB-Anti-block-System!**

ROLUB special guide shoe made out of high-quality polyamide

Perfect bending results without friction marks

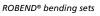


Optional: Tripod stand

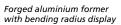


Ensures optimum distribution of lubrication

Fig. ROBEND® 3000 Set









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



Model	Description	Pipe type	$\sqrt[]{\log \lambda}$	No.
ROBEND® 3000 Set	15 - 18 - 22 mm	Cu, Fe, u.a.	24.12	025750X
ROBEND® 3000 Set	15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24.12	025705X
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 mm	Cu, Fe, u.a.	21.90	025709X
ROBEND® 3000 Set	15 - 22 - 28 mm	Cu, Fe, u.a.	21.10	25760
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24.10	025710X
ROBEND® 3000 Set	12 - 15 - 18 - 22 mm	Cu, Fe, u.a.	20.60	025700X
ROBEND® 3000 Set	12 - 15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	23.50	025703X
ROBEND® 3000 Set	1/2 - 5/8 - 3/4" - 7/8"	Cu, Fe, u.a.	19.60	025711X
ROBEND® 3000 Basic Unit	without bending seaments	Си Fe иа	13 00	025740X













Description	No.	Description	
Bending spray 150 ml	25120	Pipe cutter	10 - 24
Guide shoe axle	25743	Internal / External deburrer	27
ROBEND® carrying case, for 5 segments up to Ø 30 mm	25745	Hard soldering torch (SUPER FIRE 3 with MAPP®-GAS)	138
Tripod stand, foldable	25748	Brazing solder	169 - 171
ROBEND® 3000 bending sets can be found on 70			

#### **ROBEND® 3000 Bending Formers**

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



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

<b>►</b> Size	Wall thickness mm	Bending radius mm	$\sqrt[4]{\log \lambda}$	No.
12 mm	1.0	42	0.48	25612
14 mm	1.0	49	0.48	25614
15 mm	1.0	52	0.53	25615
16 mm	1.0	56	0.60	25616
18 mm	1.0	72	1.17	25618
20 mm	1.0	80	1.42	25620
22 mm	1.2	88	1.42	25622
28 mm	2.0	112	2.90	25628

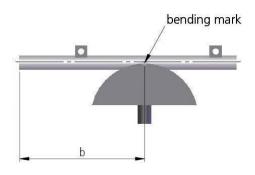
#### For copper pipe

Size	Wall thickness mm	Bending radius mm	$\Delta_{kg}\Delta$	No.
1/2"	1.2	45	0.53	25652
5/8"	1.2	56	0.60	762955300
3/4"	1.2	80	1.42	25619
7/8"	1.2	88	1.42	762955700
1"	1.5	112	2.90	25625
1.1/8"	1.6	112	2.90	25626

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

<b>►</b> ○ <b>◄</b> Size	Wall thickness mm	Bending radius mm	$\sqrt[]{\log \Delta}$	No.
1/2"	3.25	88	1.42	25684
3/4"	3.25	112	2.90	25685

## **Draw-bending**



#### **Symbols**

L1, L2 = Leg length= Lay out length

= Total length of the pipe piece = Distance / pipe end - wall = Distance wall - pipe middle  $L_{\mathsf{M}}$ = Minimum Length\* = Reserve Length\*

#### 45°-Arc



#### 90°-Arc



 $L = L_1 + L_2 - L_M$  $\mathsf{b} = \mathsf{L}_1 - \mathsf{L}_R$ 

#### **Calculation Examples TUBE BENDER MAXI**

#### **Specifications:**

Installation in corner areas

 $L_W = 1200 \text{ mm}$ 

 $A_W = 30 \text{ mm}$ 

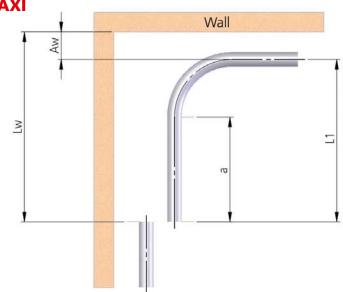
Pipe-Ø 12 mm, 90°-Arch

#### Sought after:

Leg length L<sub>1</sub> Applied size b

#### **Solution:**

Summary from the TUBE BENDER MAXI bending table



Leg length  $L_1 = L_W - A_W = 1200 - 30 = 1.170 \text{ mm}$ 

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 <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
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 <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 R mm	
12	35.0	0.8	10.0	7.5	35.0	-	
14	42.5	0.9	12.5	9.0	42.5	-	
15	48.5	1.1	14.0	10.5	48.5	-	
16	49.0	1.1	14.5	10.5	49.0	-	
18	74.0	1.7	22.0	16.0	74.0	-	
22	87.0	1.9	25.5	18.5	87.0	-	
3/8"	35.0	0.8	10.0	7.5	35.0	-	
1/2"	35.0	0.8	10.0	7.5	35.0	-	
5/8"	49.0	1.1	14.5	10.5	49.0	-	
3/4"	74.0	1.7	22.0	16.0	74.0	-	
7/8"	87.0	1.9	25.5	18.5	87.0	-	

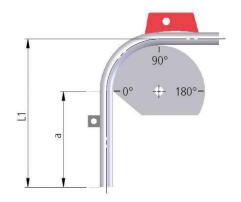
TUBE BENDER MAXI CT		at 45°		at 90°		at 180°	
Ø / Ws mm	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	
10 x 0,6	42.5	0.8	12.5	9.0	42.5	-	
12 x 0,6	49.0	1.1	14.5	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	-	

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

## **Bending**

## **Bending Tables**

#### **Pull-bending**



#### **Symbols**

L1, L2 = Leg length a = Lay out length

L = Total length of the pipe piece

 $L_W$  = Distance / pipe end - wall  $A_W$  = Distance wall - pipe middle

 $L_M$  = Minimum Length\*  $L_R$  = Reserve Length\*



#### 90°-Arc

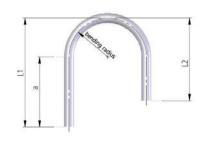
#### 180°-Arc



$$L = L_1 + L_2$$
  
 $a = L_1 - L_R$ 



$$L = L_1 + L_2 - L_M$$
  
 $a = L_1 - L_R$ 



$$\begin{split} L &= L_1 + L_2 + L_M \\ a &= L_1 - L_R \end{split}$$

#### **Calculation Examples ROBEND® 3000**

#### **Specifications:**

Installation in corner areas

L<sub>w</sub> = 1200 mm

 $A_W = 30 \text{ mm}$ 

Pipe-Ø 12 mm, 90°-Arc

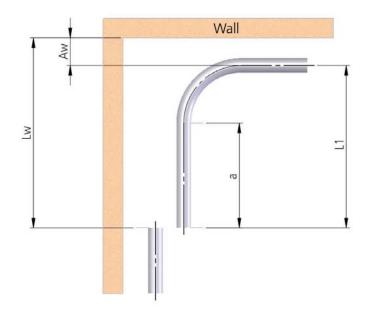
#### Sought after:

Leg length  $L_1$ 

Applied size a

#### Solution:

Summary from the ROBEND® 3000 bending table



Leg length

 $L_1 = L_W - A_W = 1200 - 30 = 1.170 \text{ mm}$ 

**Applied size** 

 $a=L_1$  -  $L_R$  = 1170 - 42 = 1.128 mm;  $L_R$  .. Tabular value

# **Bending**

# **Bending Tables**

H&V	V Plus	at	45°	at	90°	at 180°		
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		86	83	
7/0	01	30	-	63	40.0	00	03	
MIN	IBEND	at	45°	at	90°	at	180°	
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	
	Bender 180°		at 45°		at 90°		180°	
for Ø mm / inch	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ mm	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ mm	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ 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	
MULI	TIBEND	at 45°		at	90°	at 180°		
for Ø mm	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ mm	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ mm	Reserve length L <sub>R</sub> mm	Minimum length L $_{\rm M}$ 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	
	48.0 48.0	19.0 19.0	2.0 2.0	48.0 48.0	22.0 22.0	48.0 48.0	53.0 53.0	

ROBEND® 3000		at 45°		at 90°		at 180°		
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

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







# Bonding

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# **Expanding Manual**

#### **ROCAM® EXPANDER Power Torque**

For expanding, reducing and calibrating soft and semihard pipes Ø 8 - 42 mm (5/16 - 1.3/4"), as well as producing tapers

#### **APPLICATION AREA**

For efficient, fitting-free installation of pipes in sanitary heating,

Suitable for pipes made of:

max. wall thickness 1.6 mm

max. wall thickness 1.6 mm

max. wall thickness 1.0 mm











#### **Product Profile**

gas, refrigeration and air-conditioning systems

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"

Precision steel (soft): Ø 8 - 28 mm, 5/16 - 1.1/8"

Stainless steel (soft): Ø 8 - 22 mm, 5/16 - 7/8"

#### **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		$\Delta_{kg}\Delta$	No.
Expander tool (without expander heads) for expander heads up to 42 mm / 1.3/4"	1	1.0	12000





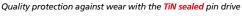
# **Expanding Manual**

#### **ROCAM® EXPANDER Power Torque Sets**

ROCAM® EXPANDER Power Torque sets include: Expander heads, ROCAM® EXPANDER Power Torque (No. 12000), internal and external deburrer (No. 11006), in a steel carrying case (No. 24022), plastic inlay (No. 11002)

ROCAM® EXPANDER Power Torque Sets Description		$\sqrt[L]{\log L}$ 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>







#### **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



#### **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

Model	∑ <sub>kg</sub> ∆	No.
POCAM® EVPANDED DE V without o	ypander heads 1 120	005



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



#### **ROLOCK EXPANDER Power Torque**

For expanding, reducing and calibrating soft and semihard 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

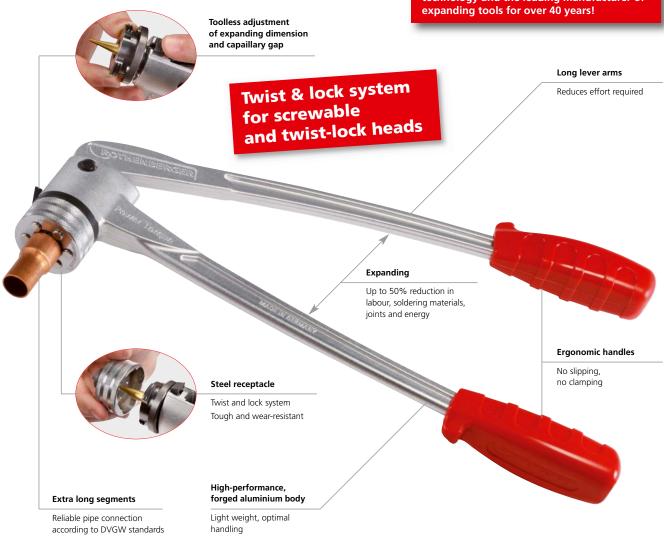
#### **KEY FEATURES**

- 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		$\Delta_{kg}\Delta$	No.
Expander tool (without expander heads)	1	1.0	12400
for expander heads up to 42 mm / 1.3/4"			

## **Expanding Manual**

#### **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 $\sqrt{\log \Delta}$ No. 12 - 15 - 18 - 22 mm 12500 12 - 15 - 18 - 22 - 28 mm 12503 33 10 - 12 - 16 - 22 - 28 mm 3.3 **12505** 12 - 14 - 16 - 18 - 22 mm 3.3 12509 10 - 12 - 14 - 16 - 18 - 22 mm 3.6 12511 10 - 12 - 15 - 16 - 18 - 22 - 28 mm 12537 3.6 12 - 14 - 16 - 18 - 22 - 28 - 32 mm 12538 3.7 3/8 - 1/2 - 5/8 - 3/4 - 1" 3.3 12517 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 3.6 **12518** 1/2 - 5/8 - 3/4 - 7/8 1 29 12521 12 - 16 - 18 - 22 - 28 mm 3.2 12522 1/2 - 5/8 - 7/8 - 1.1/8" 3.0 12524 12 - 15 - 18 - 22 - 28 - 35 - 42 mm 4.2 12526 1/2 - 3/4 - 1" 2.9 12535 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8" 12536 3.7 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8" 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	81	Expander adaptor type S	83
Expander heads type S / riveted expander heads	83	Brazing solder	169 - 171
Pipe cutter	10 - 21	High-Performance torch (SUPER FIRE 3 with MAPP®-GAS)	138 - 139
Internal / External deburrer	27	-	

#### **Product Profile**

#### **KEY FEATURES**

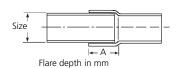
- 50% reduction in labour, soldering materials and soldered joints
- Depth of the flare is consistent with DVGW standards
- Guide guarantees a perfect centred position and uniform capillary gap
- Tough and long lasting with the hardened segments

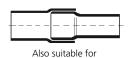
#### **Made in Germany!**

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





uneven pipes

#### Fits similar expanders from other brands as well!

#### Specially hardened segments

Tough and long lasting



#### Step at the end of the segments

Enables re-calibration of irregular pipes and fittings



#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

#### **Extra long segments**

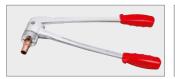
Depth of the flare is consistent with DVGW standards

<b>-</b> 0-	,	Wall thick	ness mm		А		
mm	Cu	Al	Fe	Inox	mm	ΔgΔ	No.
8	1.0	1.0	1.0	1.0	6.0	120	11008
10	1.0	1.0	1.0	1.0	10.0	120	11010
12	1.2	1.2	1.2	1.0	12.6	120	11012
14	1.2	1.2	1.2	1.0	12.6	120	11014
15	1.2	1.2	1.2	1.0	15.5	120	11015
16	1.2	1.2	1.2	1.0	15.5	120	11016
18	1.2	1.2	1.2	1.0	17.5	120	11018
20	1.2	1.2	1.2	1.0	17.5	140	11020
22	1.2	1.5	1.5	1.0	20.5	140	11022
28	1.5	1.5	1.5	-	18.5	390	11028
32	1.5	-	-	-	19.5	410	11032
35	1.6	-	-	-	19.5	430	11035
38	1.6	-	-	_	19.5	450	11038
40	1.5	_	_	_	19.5	470	11040
42	1.5	-	-	-	19.5	470	11042

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

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

#### Suitable for ROTHENBERGER Expander









Model		Model	
ROCAM® EXPANDER Power Torque	76	Electro-Hydraulic Expander Pistol H 2	88
ROMAX® EXPANDER Compact	85 - 86	COMBI KIT Expander / Tee-Extractor	90
Electro-Hydraulic Expander Pistol H 1	88		

# **Expanding Manual**

#### **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**

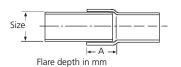
- 50% reduction in labour, soldering materials and soldered joints
- Depth of the flare is consistent with DVGW standards
- Guide guarantees a perfect centred position and uniform capillary gap
- Tough and long lasting with the hardened segments

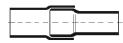
#### **Made in Germany!**

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





Also suitable for uneven pipes

Step at the end of the segments

# Twist & lock heads for ROLOCK EXPANDER Power Torque

#### Specially hardened segments

Tough and long lasting

# Enables re-calibration of irregular pipes and fittings Extra long segments Depth of the flare is consistent with DVGW standards

#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

-0-	,	Wall thick	ness mm		А		
mm	Cu	Al	Fe	Inox	mm	$\Delta_g \Delta$	No.
8	1.0	1.0	1.0	1.0	6.0	120	12408
10	1.0	1.0	1.0	1.0	10.0	120	12410
12	1.2	1.2	1.2	1.0	12.6	120	12412
14	1.2	1.2	1.2	1.0	12.6	120	12414
15	1.2	1.2	1.2	1.0	15.5	120	12415
16	1.2	1.2	1.2	1.0	15.5	120	12416
18	1.2	1.2	1.2	1.0	17.5	120	12418
20	1.2	1.2	1.2	1.0	17.5	140	12420
22	1.2	1.5	1.5	1.0	20.5	140	12422
28	1.5	1.5	1.5	-	18.5	390	12428
32	1.5	-	-	_	19.5	410	12432
35	1.6	_	_	_	19.5	430	12435
38	1.6	-	_	_	19.5	450	12438
40	1.5	_	_	_	19.5	470	12440
42	1.5	-	-	-	19.5	470	12442

		Wall thick	ness mm		Α		
inch	Cu	Al	Fe	Inox	mm	∆ <sub>g</sub> ∆	No.
5/16"	1.0	1.0	1.0	1.0	6.0	120	12408
3/8"	1.0	1.0	1.0	1.0	7.4	120	12452
1/2"	1.2	1.2	1.2	1.0	11.0	120	12453
5/8"	1.2	1.2	1.2	1.0	14.0	120	12454
3/4"	1.2	1.2	1.2	1.0	18.1	120	12455
7/8"	1.2	1.2	1.2	1.0	18.0	140	12456
1"	1.5	1.5	1.5	_	15.8	150	12457
1.1/8"	1.6	1.6	1.6	_	17.0	390	12458
1.1/4"	1.6	-	-	_	17.0	410	12459
1.3/8"	1.6	_	_	_	17.0	430	12435
1.1/2"	1.6	-	-	-	17.0	450	12438
1.5/8"	1.6	_	_	_	17.5	470	12462
1.3/4"	1.6	-	-	-	17.5	500	12463
Availabilit	y, deliver	time and	price of cu	ustom pro	ducts for o	ther pipe	

19.5 4/0 12442 diameters available upon request

Suitable for ROTHENBERGER ROLOCK EXPANDER Power Torque					
Model		Model			
ROLOCK EXPANDER Power Torque	78	COMBI KIT Expander / Tee-Extractor	90		



#### **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: (soft, semi-hard) Precision steel (soft): and Stainless steel per DVGW-GW541 Ø 22 - 67 mm, 1 - 2.1/2" max. wall thickness 2.5 mm Ø 22 - 54 mm, 1 - 2.1/8" max. wall thickness 1.5 mm

#### 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



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	► <b>O</b> Size	$\Delta_{kg}\Delta$	No.
EXPANDER A0 set	35 - 42 - 54 - 64 mm	8.12	11400
EXPANDER A0 basic unit		1 97	11004

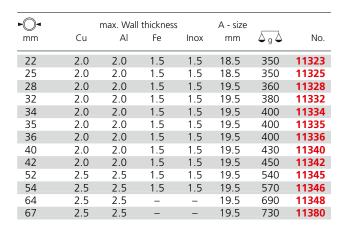


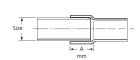
Fig. EXPANDER A0 Set

# **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

	inch	r Cu	nax. Wall Al	thickness Fe	Inox	A - size mm	ΔgΔ	No.
i	1"	2.0	2.0	1.5	1.5	18.5	350	11376
	1.1/8"	2.0	2.0	1.5	1.5	19.5	360	11358
	1.1/4"	2.0	2.0	1.5	1.5	19.5	380	11332
	1.3/8"	2.0	2.0	1.5	1.5	19.5	400	11335
	1.1/2"	2.0	2.0	1.5	1.5	19.5	430	11338
	1.5/8"	2.0	2.0	1.5	1.5	19.5	450	11362
	2"	2.0	2.0	1.5	1.5	17.0	540	11364
	2.1/8"	2.5	2.5	1.5	1.5	17.0	570	11346
	2.1/2"	2.5	2.5	-	_	17.0	690	11348

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

#### **Expander Adaptor Type S**

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





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

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

#### **Flanged Riveted Expander Heads**

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





#### Product Profile

#### **KEY FEATURES**

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

- Air-conditioning technology
- Auto manufacturing
- Industrial applications

<b>►</b> mm	<b>►</b> mm	outer dia Flange mm	Distance Flange pipe end mm	ΔgΔ	No.
15	1,5	18	4	110	11955
18	1,5	21	4	110	11958
22	1,5	25	6	120	11962
28	1,5	31	6	370	11968
35	1,5	38	6	400	11975
38	1,5	41	6	430	11978

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



# **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



►O- Size	$\sqrt[]{\log \Delta}$	No.
42 - 54 - 64 - 76,1 - 88,9 - 108 mm	4,2	11086
35 - 42 - 54 - 64 - 76 - 108 mm	3,9	11087
35 - 42 - 54 - 67 - 80 - 104 mm	3,9	11089
1.3/8 - 1.5/8 - 2.1/8 - 2.5/8 - 3.1/8 - 4.1/8"	4,2	11078
1.1/4 - 4"	3,8	11093

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 laving 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

#### **Product Profile**

#### **APPLICATION AREA**

Suitable for pipes made of:

Copper (soft, semi-soft) Ø 35 - 108 mm (1.3/8" - 4.1/8") max. wall thickness 2.5 mm Aluminium:

#### **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





#### **Made in Germany**

#### **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 230 V / 50 Hz Motor:

#### 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

Article available upon request\*!

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)



For a constant axial thrust

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

# **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

max. Ø 67 mm or 2.1/2" Precision steel (soft):

max. wall thickness 1 mm

max. Ø 15 mm Stainless steel:

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**

**Dimensions:** only 370 x 70 x 90 mm Weight: approx. 2.6 kg

Li-ion battery 14.4 V / 2.6 Ah Power supply:

Mains adaptor 230 V / 50-60 Hz

110 V on request

Working temperature:  $-10^{\circ}$  up to  $+60^{\circ}$  C



up to max. 1 mm wall thickness!

**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)

#### \* in comparison to ROTHENBERGER NiMh battery

#### 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



# **Expanding Electric**

#### **ROMAX® EXPANDER Compact Basic Sets**

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





#### **DUAL-POWER 14.4 or 230 Volt!**





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		$\sqrt[]{\log \Delta}$	No.
ROMAX® Expander Compact Basic Set I	expander heads standard	1	1.11	15714
ROMAX® Expander Compact Basic Set II	expander heads type S	1	1.11	15715
ROMAX® Expander Compact Basic Set III	expander heads type PE-X	1	1.11	15716
Expander heads / PE-X expander heads see	89			

#### **ACCESSORIES**













Description	No.	Description		No.
ROMAX® EXPANDER Compact replacement battery ROMAX® EXPANDER Compact charger 230 V	15418 15017	Internal / External deburrer Brazing (SUPER FIRE 3 mit MAPP®-GAS)	27 138 - 139	
ROMAX® EXPANDER Compact power supply Pipecutter	15037 15016	Brazing solder Plastic case with formed inlay	169 - 171	015016L

# **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

#### **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

Ø 8 - 110 mm, 5/16 - 4.1/4" max. wall thickness 3.0 mm

#### **KEY FEATURES**

- Individual modular design
- Industrial quality expansions

Precision and stainless steel:

Proper and efficient handling of material

#### **Made in Germany!**



#### **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





Industrial quality expansions

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	$\Delta_{kg}\Delta$	No.
Hydraulic System complete, without heads	36.0 33.1	13100 13002
Hydraulic Tool H 600 Foot pedal H 600 with 3 m cable	0.5	12013

# **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** Ø 22 - 67 mm, 1 - 2.1/2" (with adaptor No. 11007) 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	$\sqrt[]{\log \Delta}$	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: Ø 22 - 67 mm, 1 - 2.1/2" up to 2.5 mm wall thickness

Expander heads H 2: Ø 28 - 70 mm, 1.1/8 - 2.3/4"

Type 2 up to 2.5 mm wall thickness

Expander heads H 2: Ø 70 - 110 mm, 2.3/4 - 4.1/4"

Type 3 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	$\sqrt[]{\log \Delta}$	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

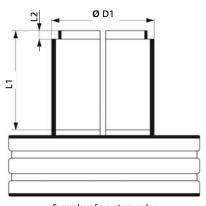




# Custom-Made Products\* Riveted Expander Heads H2

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!



Examples of a custom order



# 4

#### **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

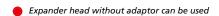


No. 12097 Expander adaptor for Expander Pistol H2

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

	<b>►</b> O⊲ max.	m	<b>►</b> ax. mm	$\Delta_{ka}\Delta$	No.
67 mm	and/or 2.				11007
ads					
	and/or 2.	1/2"	2,5	1.1	12097
	ads 67 mm	67 mm and/or 2. ads 67 mm and/or 2.	67 mm and/or 2.1/2" ads 67 mm and/or 2.1/2"	67 mm and/or 2.1/2" 2,0 ads	67 mm and/or 2.1/2" 2,0 0.6 ads 67 mm and/or 2.1/2" 2,5 1.1

	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	•	•		•	0	0	0
ROCAM® EXPANDER Power Torque	0	•		•	No. 12005	0	0
EXPANDER A0	0	0	•	0	0	0	0
EXPANDER A1	0	0	0	0	0	0	•
ROMAX® EXPANDER Compact	0	No. 15714	No. 15714  No. 15715	No. 15714	No. 15716	0	0
ROMAX® EXPANDER AC ECO MAXI	0	0	0	0	0	0	•
Expander Pistol H1	0	•		•	0	0	0
Expander Pistol H2  Similar to photo	0	0		0	0	•	0



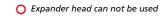


Fig.: Can be used with the appropriate adaptor (pictured)

#### **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**

- 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

#### **KEY FEATURES**

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



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

Model	► Description	$\sqrt{\log \Delta}$		No.
COMBI KIT	12 - 15 - 18 - 22 mm	4.4	1	011180X
COMBI KIT	12 - 14 - 16 - 18 mm	2.6	1	011186X
COMBI KIT	1/2 - 5/8 - 7/8 - 1.1/8"	2.8	1	011194X

COMBI KIT 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	<b>▶</b> Description	$\sqrt{\log}$		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



# **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





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

Model	► Description	$\sqrt{\log \Delta}$		No.
Tee-Extractor set 1.	2 - 15 - 18 - 22 mm	3.4	1	22100
Tee-Extractor set 1	2 - 15 - 22 - 28 mm	3.6	1	22101
Tee-Extractor set 1.	2 - 15 - 18 - 22 - 28 mm	3.9	1	22103
Tee-Extractor set 1	0 - 12 - 15 - 18 - 22 mm	3.5	1	22102
Tee-Extractor set 1.	2 - 14 - 16 - 18 - 22 mm	3.6	1	22109
Tee-Extractor set 1	0 - 12 - 14 - 16 - 18 - 22 mm	3.7	1	22111
Tee-Extractor set 12	2 - 15 - 18 - 22 - 28 - 35 - 42 mm	5.5	1	22126
Tee-Extractor set 1	5 - 22 - 28 mm	3.6	1	22127
Tee-Extractor set 1	/2 - 5/8 - 3/4 - 7/8"	3.4	1	22121
Tee-Extractor set 1	/2 - 5/8 - 7/8 - 1.1/8"	3.7	1	22124
Tee-Extractor set 1	/2 - 3/4 - 1"	3.3	1	22135



# **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

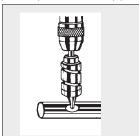
<b>►</b> mm / inch	<b>►</b> mm	Drill Ø mm	SW mm	∑ <sub>g</sub> ∆	No.
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
22	2.0	12	11	350	22022
28	2.5	15	11	470	22028
32	2.5	19	11	700	22032
35	2.5	22	11	700	22035
38	2.5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

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

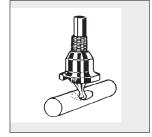
Hexagon

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

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

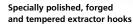


Insert extractor hook into the drilled hole and screw the bell firmly against the drill hole



#### Double V-block

Accurate and firm positioning for exact 90° branches



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")



<b>►</b> mm / inch	<b>►</b> mm	Drill-Ø mm	SW mm	∆ <sub>g</sub> ∆	No.
1"	2.5	14	11	470	22064
1.1/8"	2.5	15	11	480	22065
1.1/4"	2.5	19	11	700	22066
1.3/8"	2.5	22	11	700	22035
1.1/2"	2.5	22	11	700	22038
1.5/8"	2.5	26	11	900	22068
2"	2.5	30	19	1380	22050
2.1/8"	2.5	30	19	1380	22054
Accessories					
Socket 19 mm					F80053
Square cor	Square connection 3/4"				

#### **Spare Extractor Hooks**

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

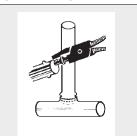


Note: For copper pipes (soft), the use of an extractor support is recommended! ( [2] 93)

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

# **Accessories Extracting Manual**

#### **Tee-Extractor Ratchet**

Chrome vanadium steel, fine toothed and right/left reversible



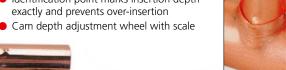


Model	<b>●</b> SW	ΔgΔ	No.
10 - 42 mm, 3/8 - 1.3/4"	11 mm	435	22081
54 - 70 mm, 2 - 2.1/8"	3/4"	1140	27181

#### **Extractor Cam Pincer**

#### **KEY FEATURES**

- Identification point marks insertion depth





<b>►</b> ○ mm	<b>►</b> inch	mm	$\sqrt[]{g}$	No.
12 - 42	1/2 - 1.5/8"	150	170	22080

#### **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	$\Delta_g \Delta$	No.
EVERCOOL	50 g	80	21549

#### **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



Model	<b>►</b> ○ <b>▼</b> mm	<b>►</b> ○ <b>-</b> inch	<b>●</b> SW	ΔgΔ	No.
UNIDRILL® 28	10 - 28	3/8 - 1.1/8"	11	110	21583
UNIDRILL® 42	10 - 42	3/8 - 1.5/8"	11	430	21575

#### **Extractor Support**

# **KEY FEATURES** Prevents deformation during extraction, especially for soft pipe material **Extractor support plates** Prevents deformation during extraction

<b>►</b> ○ <b>◄</b> Mainpipe	<b>▶</b> ○ <b>◄</b> Branchpipe	∆ <sub>g</sub> ∆	No.
22 mm	18 mm	250	22157
28 mm	22 mm	300	22158
1/2"	3/8"	120	22170
5/8"	1/2"	170	22153
3/4"	5/8"	250	22172
7/8"	3/4"	250	22157
1.1/8"	1"	300	22158



#### **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

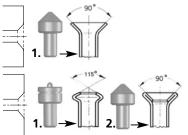
# Formation of the various flares made possible with the appropriate flaring attachments

#### E- contour, simple flare:

Standard flaring contour

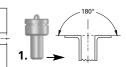
#### D-contour, double flare:

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



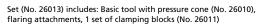
#### 180° flares:

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









Description	<b>►</b> mm	$\Delta_{kg}\Delta$	No.
DB 10 set	4.75 - 5 - 6 - 8 - 9 - 10 mm	2.64	26013
Flaring attac	hments 4.75 / 5 mm	0.20	26001
Flaring attac	hments 6 mm	0.20	26002
Flaring attac	hments 8 mm	0.20	26003
Flaring attac	hments 9 mm	0.20	26004
Flaring attac	hments 10 mm	0.20	26005



Description	<b>►</b> mm	ΔgΔ	No.
Pressure cone		20	26010
Clamping spindle		90	26015
Flaring spindle		300	26016
Distance bolt		30	26017
Set of clamping bloc	cks (2 pc.) for	190	26011
Pipes 4,75 - 5 - 6 - 8	3 - 9 - 10 mm		

### **Flaring**

#### **ROFLARE REVOLVER**

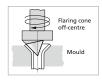
#### Revolver reeling flaring tool

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  $\varnothing$  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

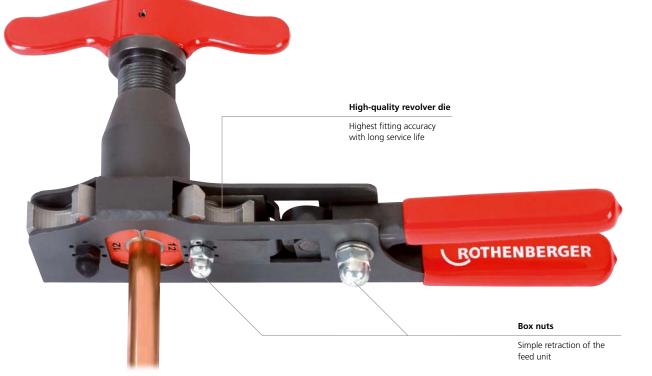




E-contur single flare

#### Adaptor attachment

For ratchet & electric drive



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 (in blister pack)	1000000230
Set, imperial with ROTRAC 28 PLUS CHROM	1000000231
Limited Edition (in blister pack) Metric, Ø 6, 8, 10, 12, 16, 18 mm	1000000222
(in blister pack)	1000000222
Imperial, Ø 1/4 , 5/16, 3/8, 1/2, 5/8, 3/4" (in blister pack)	1000000223

Compact design enables use in confined spaces



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



#### **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



Flare cone rotates off-centre in needle bearings

Controlled expanding and shaping of the pipe end without tearing

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

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

# Flaring cone off-centre Mould

**Square connection** 





E-contur single flare

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

No. 222401, No. 222402,

No. 222403

Pipe will not slip



#### **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 selfcentring pipe clamp for all diameters
- Controlled flaring without tearing, forming perfect surfaces
- Hardened flare cone with special geometry

# Flaring cone centre Mould 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	<b>►</b> mm	►O¬ inch	$\Delta_{g}\Delta$	No.
Set EB	4 - 16 mm	3/16 - 5/8"	900	222601

### **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	<b>►</b> ◯ <b>⊸</b> mm	$\sqrt[]{\log \Delta}$	No.
Flaring / Bending set	4,75 - 5 - 6 - 8 - 9 - 10	5.5	26020



#### . .

#### **ROTORQUE AIRCON / REFRIGERATION**

#### Step-less torque wrench

#### **Produkt-Profil**

#### **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	$\Delta_{kg}\Delta$	No.
ROTORQUE AIRCON	1.5	1000000224
ROTORQUE REFRIGERATION	1.4	1000000225

#### Connection 9 x 12



#### 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



 $\label{fig:rotorque} \textbf{Fig. ROTORQUE REFRIGERATION torque wrench}$ 

#### **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. 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

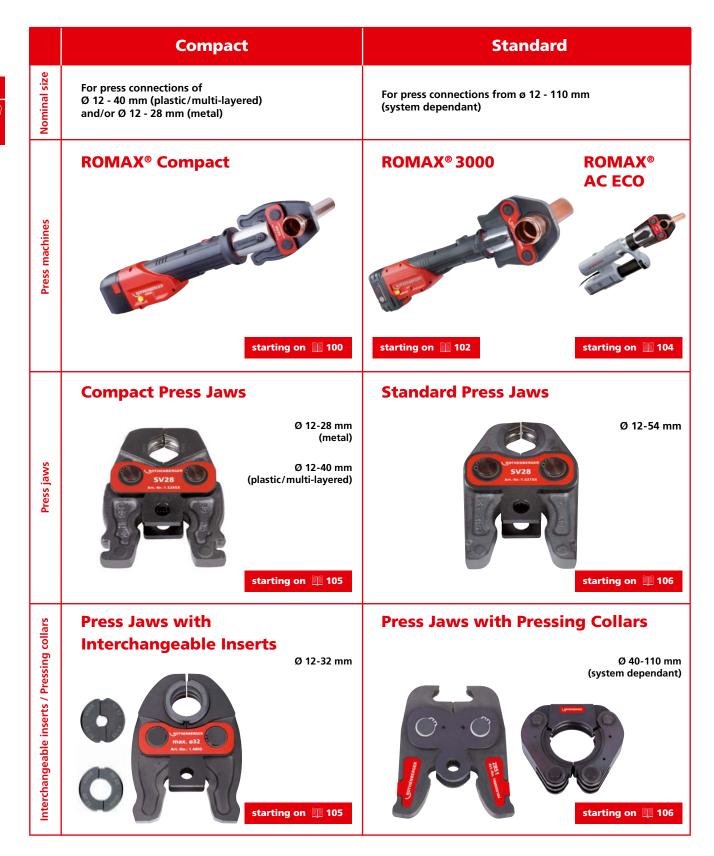
Model	$\sqrt[4]{\log \Delta}$	No.
Torque wrench set, 7 piece	3.5	175001

# **System Overview Pressing Technology**

#### **ROMAX® Press Machines - Made in Germany**

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

#### **ROTHENBERGER Pressing Technology Overview**





# **System Overview Pressing Technology**

#### **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

**ROMAX® AC ECO** 

**ROMAX® 3000** 

19-21 kN for 10,000 press cycles

32-34 kN for 10,000 press cycles

32-34 kN for 20,000 press cycles



No accidental release, since a 180° rotation is required

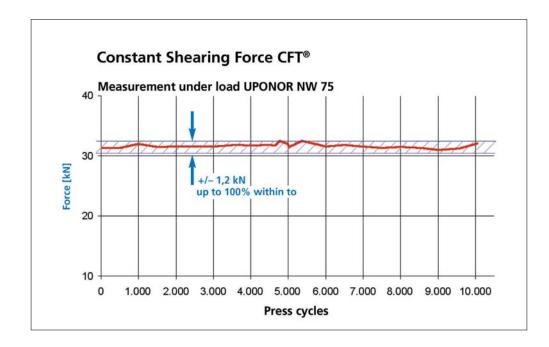
Safety lock



#### Safe operation with the emergency stop switch

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





#### **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:

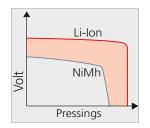
- Control of the battery charge status
- Safety start-inhibitor when the battery is too low
- LED display of the service interval and any error messages

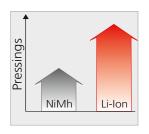
#### **ROTHENBERGER Li-Ion Technology**

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 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

#### **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

#### **Made in Germany**

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

#### **TECHNICAL DATA**

**Dimension:** 400 x 70 x 90 mm

**Weight:** ca. 2.6 kg (without press jaw)

Piston force / hub: 19 kN / 30 mm Nominal size: Ø 12 - 28 mm (metal)

Ø 12 - 40 mm (plastic/multi-layer)

**Press jaw fixture:** 270° rotation

**Power supply:** Li-ion battery 14.4 V / 2.6 Ah

Main adaptor 230 V / 50 - 60 Hz Main adaptor 110 V on request

Operating temperature:  $-10^{\circ}$  C up to  $+60^{\circ}$  C

**Pressings:** up to 140 with 28 mm stainless steel

#### **PRESSING TOOLS**

**Press jaws:** ROTHENBERGER Compact press

jaws starting on page 105

 $\textbf{Interchangeable press jaws:} \ \ \mathsf{ROTHENBERGER} \ \mathsf{Interchangeable}$ 

press jaws starting on page 105













\* compared to ROTHENBERGER NiMH batteries









# **Press Machines Compact**

#### **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)

# OTHENBEACH All ROMAX® Compact have a Li-ion battery!

#### **Made in Germany**



Fig. Power supply (No. 15037)

#### 5 m cable length

Large operating radius



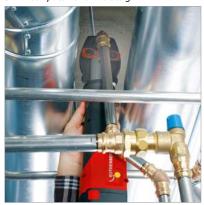
**DUO-POWER 14.4 V or 230 V** 

Fig. ROMAX® Compact Set SV

Workbench function with stable supporting surface



Slim – compact wand-like design



Work above head



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

#### **ACCESSORIES**

Model	No.
ROMAX® Compact spare battery (14.4 V / 2.6 Ah, Li-lo ROMAX® Compact charger (230 V)	n) <b>15418 15017</b>
ROMAX® Compact main adaptor (230 V),	
can be used in lieu of the battery	15037
Plastic carrying case, empty	015016L
Press jaws, interchangeable press jaws starting on 105	













#### **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

#### **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

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

#### **Light**

The extremely low weight, as well as the balanced weight distribution, ensure fatigue-free use even in continuous use

#### **Made in Germany**

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

#### **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 28 mm stainless steel), and/or 90 pressings (with 54 mm stainless steel) with each charge

#### Practical design

The compact, wand-like design allows pressings even in confined spaces





Safety lock

is required



No unintentional opening

because 180° rotation











#### 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

Powerful motor Fast pressings in approx. 5 seconds

# LED display

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

> Light weight and balanced weight distribution

> > Fatique-free and ergonomic use even over long periods of time

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

#### For easy operation even in confined spaces

Press jaw fixture can be rotated 270°









**Emergency stop switch** 

Immediate interruption of the

feed and retraction of the piston

OTHENBERGER

<sup>\*</sup>system dependant

#### **Press Machines Standard**

#### **TECHNICAL DATA**

**Dimensions:** 445 x 125 x 75 mm

Weight: approx. 3.6 kg (without press jaws)

**Piston force/-hub:** 32 kN / 40 mm

Nominal size: Ø 12 - 110 mm (system dependant)

**Press jaw fixture:** 270° rotation

**Power supply:** Li-ion battery 18 V / 3 Ah

Main adaptor 230 V, 50 - 60 Hz, Main adaptor 110 V on request

Operating temperature: -10° C up to +60° C

**Pressings:** Up to 160 with 28 mm stainless steel

Up to 90 with 54 mm stainless steel

#### **PRESSING TOOLS**

**Press jaws:** ROTHENBERGER standard press jaws,

compatible with many other manufacturers

starting on page 106

Pressing collars: ROTHENBERGER pressing collars starting

on page 106



Fig. ROMAX® 3000 set with press jaws

#### High energy density

More pressing per charge, light weight 1)

#### 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



Very long shelf-life

#### Light

#### Fast







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

Model	Description	Press jaws mm		$\sqrt[]{\log \lambda}$	No.
ROMAX® 3000 Set Basic	in plastic carrying case with Li-ion battery and charger (with	nout press jaws)	1	9.8	15800
ROMAX® 3000 Set SV	with press jaws type SV (Viega, et al.), with Li-ion battery	15 - 22 - 28	1	14.5	15840
ROMAX® 3000 Set TH	with press jaws type TH (Henco, et al.), with Li-ion battery	16 - 20 - 26	1	14.5	15845
ROMAX® 3000 Set U	with press jaws type U (UNICOR, et al.), with Li-ion battery	16 - 20 - 25	1	14.5	15850
ROMAX® 3000 Set M	with press jaws type M (Mapress, et al.), with Li-ion battery	15 - 22 - 28	1	14.5	15855

#### **ACCESSORIES**

Model	No.
ROMAX® 3000 Li-ion battery 18 V / 3 Ah	15810
ROMAX® 3000 charger for 110-230 Volt	15811
ROMAX® 3000 main adaptor 230 Volt	15812
Plastic carrying case, empty	15816
Press jaws, pressing collars starting on 106	

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









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

#### **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

#### **Made in Germany**

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

#### **TECHNICAL DATA**

**Dimensions:** 415 x 180 x 80 mm

Weight: approx. 4.5 kg (without press jaw)

**Piston force/-hub:** 32 kN / 40 mm

Nominal size: Ø 12 - 110 mm (system dependent)

**Press jaw fixture:** 270° rotation

**Power supply:** 230 V / 50-60 Hz, 110 V on request

#### **PRESSING TOOLS**

**Press jaws:** ROTHENBERGER standard press jaws,

compatible with many other manufacturers

starting on page 106

**Pressing collars:** ROTHENBERGER Pressing collars starting

on page 106





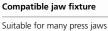








No unintentional opening because a 270° rotation is necessary



**270° rotatable jaw fixture**For easy use in confined spaces

Emergency stop switch



5 m cable length

Large operations radius



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





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		$\Delta_{kg}\Delta$	No.
ROMAX® AC ECO Set Basic I	in plastic carrying case	(without press jaws)	1	8.9	15705
ROMAX® AC ECO Set M	Set Basic I with press jaws type M (Mapress, et al.)	15 - 22 - 28	1	13.4	15750
ROMAX® AC ECO Set SV	Set Basic I with press jaws type SV (Viega, et al.)	15 - 22 - 28	1	13.4	15740
ROMAX® AC ECO Set TH	Set Basic I with press jaws type TH (Henco, et al.)	16 - 20 - 26	1	13.4	15730
ROMAX® AC ECO Set U	Set Basic I with press jaws type U (UNICOR, et al.)	16 - 20 - 25	1	13.4	15760

#### ACCESSORIES

Model	No.
Plastic carrying case, empty	F81664
Press jaws, pressing collars starting on 106	









<sup>\*</sup>system dependant

# **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**

#### Precision-manufactured contours

For optimum and reliable pressings

**SV28** 

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

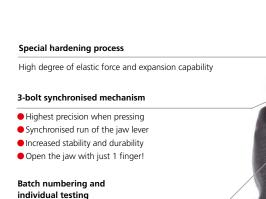
Suitable for all press machines with a constant axial thrust of **19 kN** and compatible press jaw fixture

#### 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



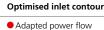
material and press contour

Secures the high quality standard of

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



Press jaw overview starting on 107



Less wear and tear

max. ø32

# 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  $\emptyset$  16 - 32 mm

# Combine various interchangeable inserts with only one press jaw!

# ROTHENBERGER

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

#### **Made in Germany**

# 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 iaw 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	Interchangeable inserts set TH*	16 - 20 - 26 - 32 mm	14895

<sup>\*</sup>Can only be used with interchangeable pressing jaw No. 014800X!

# **Press Jaws & Pressing Collars Standard**

#### **Press Jaws Standard**

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

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for system conforming pressing of fittings up to Ø 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 107

#### Precision-manufactured contours

For optimum and reliable pressings

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

**Made in Germany** 

Suitable for all press machines with a constant axial thrust of 32 - 34 kN and compatible press jaw fixture

#### Permanent holt

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

#### Long-term Corrosion protection

Optimum for heavy-duty field operation

#### **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)

Using the pressing collar



Gripping the pressing collar with intermediate iaws



#### Limited weight

Power-saving work for any length of time

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

#### Long-term corrosion protection

Optimum for heavy-duty field

#### Special hardening process

High degree of elastic force and expansion capability

#### **Made in Germany**

#### 2-joint technology

Simplifies use even in tight or over-head situations

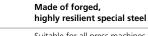
#### **Precision-manufactured contours**

For optimum and reliable pressings

#### Special hardening process

High degree of elastic force and expansion capability

Fig. Pressing collar M54



Suitable for all press machines with a constant, axial thrust of 32 - 34 kN and compatible press jaw fixture

#### 3-bolt synchronised mechanism

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

Fig. Intermediate iaw ZBS1

Pressing collar sets include: Pressing collars according to the table, intermediate jaws ZBS1 (No.1000000104), plastic carrying case (No.1500000782)

No. 1000000107 Pressing collar set SV in plastic carrying case press jaw ZBS1 / SV42 - 54 1000000110 Pressing collar set M in plastic carrying case press jaw ZBS1 / M42 - 54 Pressing collar set TH in plastic carrying case press jaw ZBS1 / TH40 - 50 1000000116 Pressing collars overview starting on 107

Optimised inlet contour

Adapted power flow

Less wear and tear





# **Press Jaws Standard Set**

#### **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

# BOTHENBERGER

#### **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		$\sqrt[4]{\log \lambda}$	No.
M 15 - 18 - 22 - 28 mm M 42 - 54 mm SV 15 - 18 - 22 - 28 mm SV 42 - 54 mm G 16 - 20 - 26 - 32 mm	1 1 1 1	9.3 11.8 9.3 9.5 11.4	015062X 015081X 015060X 015080X 015068X

Model		$\sqrt{\log \Delta}$	No.
TH 16 - 20 - 26 mm	1	7.9	015063X
VP 16 - 20 - 25 - 32 mm	1	9.4	015072X
Plastic jaw case, empty	1	1:	500000782

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. 1000000104 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZBS2 No. 1000000123 for (U Ø 75, 90, 110 mm)
Α			Metal / NE-M	etal	
	A1/2"	<u> </u>	_	015222X	
	A3/4"	_	_	015223X	
	A1"	_	_	015224X	
	A11/4"	_	_	015225X	
	A11/2"	_	_	015226X	
	A2"	_	_	015227X	
M	M12	015151X	_	015101X	
	M15	015152X	_	015102X	
	M18	015153X	_	015103X	
	M22	015154X	_	015104X	
	M28	015155X	_	015105X	
	M35	_	_	015106X	
	M42	_	_	015107X	100000108
	M54	_	_	015108X	100000109
V / SV	V/SV12	015261X	_	015211X	
	V/SV14	015269X	_	015219X	
	V/SV15	015262X	_	015212X	
	V/SV16	015260X	_	015220X	
	V/SV18	015263X	_	015213X	
	V/SV22	015264X	_	015214X	
	V/SV28	015265X	_	015215X	
	V/SV35	_	_	015216X	
	V/SV42	_	_	015217X	100000105
	V/SV54	_	_	015218X	100000106
R(H)			PEX / Multila	ver	
	R12	_	14863	015339X	
	R14	015370X	14864	015330X	
	R16	015371X	14865	015331X	
	R17	015378X	14866	015333X	
	R18	015379X	14867	015334X	
	R20	015374X	14868	015335X	
	R25	015380X	14707	015338X	
	R26	015376X	14708	015336X	
	R32	015377X	14709	015337X	

 $Further\ information\ at\ www.rothenberger.com$ 



# **Bonding**

# **Press Jaws Program Overview**

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. 1000000104 for (SV, M, TH, U 0 40, 42, 50, 63 mm), ZB52 No. 1000000123 for (U 0 75, 90, 110 mm)
RFz			PEX / Multi-la	nyer	
	RFz12	_	14822	1000000173	
	RFz16	015180X	14823	015161X	
	RFz18		100000124		
	RFz20	015181X	14824	015162X	
	RFz25	015182X	14825	015163X	
	RFz26		1000000125		
	RFz32	015183X	14826	015164X	
TH	TH14	015395X	14842	015321X	
	TH16	015385X	14843	015322X	
	TH18 TH20	015398X 015389X	14844 14845	015323X 015324X	
	TH25	015399X 015399X	14846	015325X	
	TH26	015399X 015391X	14847	015325X 015326X	
	TH32	015391X 015393X	14848	015320X 015327X	
	TH40	015401X		015327X 015328X	1000000111
	TH50	—	_	——————————————————————————————————————	1000000111
	TH63	_	_	_	1000000113
THG	THG32	1000000236	_	1000000235	1000000
THT	THT32	015393H	_	015329X	
U	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		<del>_</del>	<del>_</del>	1000000119
	U75 U90	<u>=</u>	<u> </u>	<u> </u>	1000000120 1000000121
	U110		_	_	1000000121
RC	RC26	015277X	14837	015271X	100000122
VP	VP14	015530X	14882	015230X	
	VP16	015531X	14883	015231X	
	VP20	015532X	14884	015232X	
	VP25	015533X	14885	015233X	
	VP32	015534X	14886	015234X	
В	B3/8"	_	<u> </u>	015251X	
	B1/2"	_	_	015252X	
	B5/8"		_	015253X	
	B3/4"	_	_	015254X	
	B1"	_	_	015255X	
BE	B11/4" BE16	015291X	_	015256X 015392X	
БЕ	BE20	015291X 015292X	_	015392X 015394X	
	BE20 BE26	015292X 015293X	_	015394X 015396X	
	BE32	015293X 015294X	_	015397X	
CO	CO12	— — — — — — — — — — — — — — — — — — —	14852	015235X <sup>1)</sup>	
	CO16	_	14853	015236X <sup>1)</sup>	
	CO20	_	14854	015237X <sup>1)</sup>	
	CO25	_	14855	015238X <sup>1)</sup>	
G	G16	015362X	_	015302X	
	G20	015364X	_	015304X	
	G26	015366X	_	015306X	
	G32	015367X	_	015307X	
	G40	015368X	<del>-</del>	015308X	
HA	HA16	015580X	_	015280X	
	HA20	015581X	_	015281X	
	HA26	015582X	_	015282X	
	HA32	015583X	_	015283X	
	HA40	_	_	015284X	

Further information at www.rothenberger.com,  $^{\rm 1)}$  Only available upon request



# **Press Jaws Program Overview**

	Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	ANBO C-Press	APE Raccordi a pressare	BAMPI BALPED, BALPEX	Blansol Barbie easy press	Blansol Barbi multipress	Broen BALLOFIX PRES	BUCCHI tech MP	CO.E.S. Coesklima	COMAP Sudo-Press Multiskin	COMAP Sudo-Press Cu	Comisa Multi layer pipe	DALPEX LaserMulti Dalpex	EMPUR PEXPRESS	eurotherm, MULTISTRATO, Euro 2000	F.B.Q. BARONIO, BQ pres	Fimisol, HAKAPRES, HAKA, GERODUR	Fränkische, alpex F50	Frabo Pressfitting	Gabo, Gabopress H+5	GAROS
M	M12 M15	015151X 015152X	015101X 015102X		•					•														
	M18	015153X	015103X		•					•														
	M22	015154X	015104X		•					•														
	M28 M35	015155X	015105X 015106X																					
	M42		015107X		•																			
V / SV	M54 V12	015261X	015108X 015211X		•																			
V / 3V	SV14	015261X 015269X	015211X 015219X											•					•			•		
	SV15	015262X	015212X							•				•					•			•		
	SV16 SV18	015260X 015263X	015220X											•					•			•		
	SV 18	015263X 015264X	015213X 015214X							•									•					
	SV28	015265X	015215X											•					•			•		
	SV35		015216X 015217X											•					•			•		
	SV42 SV54		015217X 015218X																•					
G	G16	015362X	015302X																					
	G20	015364X	015304X																					
	G26 G32	015366X 015367X	015306X 015307X																					
	G40	015368X	015308X																					
HA	HA16	015580X	015280X																					
	HA20 HA26	015581X 015582X	015281X 015282X																					
	HA32	015583X	015283X																					
D (II)	HA40		015284X	44000																				
R (H)	R12 R14	015370X	015339X 015330X	14863 14864																•				
	R16	015371X	015331X	14865					•											•	•			
	R17	015378X	015333X	14866																•				
	R18 R20	015379X 015374X	015334X 015335X	14867 14868					•											•	•			
	R25	015380X	015338X	14707					•															
	R26 R32	015376X 015377X	015336X	14708																•	•			
RFz	RFz12	U133//X	015337X 1000000173	14709 14822				•	•											•	•			
		015180X	015161X	14823				•																
		015181X	015162X	14824				•																
	RFz25 RFz32	015182X 015183X	015163X 015164X	14825 14826				•																
TH	TH14	015395X	015321X	14842		•	•						•			•	•						•	•
	TH16 TH18	015385X 015398X	015322X 015323X	14843 14844		•	•				•		•		•	•	•	•			•		•	•
	TH20	015398X 015389X	015323X 015324X	14845		•	•				•				•	•	•	•			•			•
	TH25	015399X	015325X	14846																			•	
	TH26 TH32	015391X 015393X	015326X 015327X	14847 14848		•	•				•		•		•	•	•	•			•		•	•
	TH40	015401X	015327X 015328X	14040									•			•					•		•	
THG		1000000236	1000000235																					
THT U	THT32 U14	015393H 015351X	015329X 015311X	14832									•											
J	U16	015351X	015311X	14833								•									•			
	U18	015353X	015313X	14834								•												
	U20 U25	015354X 015355X	015314X 015315X	14835 14836								•									•			
	U32	015357X	015315X	14838								•									•			
- D.G	U40	015358X	015318X	4								•								•				
RC VP	RC26 VP14	015277X 015530X	015271X 015230X	14837 14882																				
VP	VP16	015531X	015231X	14883																	•			
	VP20	015532X	015232X	14884																	•			
	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																	•			
Further information					OTL	CNIDE	DCE!	D - 44				c	vario			- Car	/							

 $Further\ information\ at\ www.rothen berger.com$ 





# **Press Jaws Program Overview**

NATION AND ADDRESS OF THE PARTY	Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Subsorty in combination with interchangeable Jaws No. 014800X	Mepla	+GF+ PRESS FIT Niro San	Giacomini, Giacoflex, Giaco Therm	HAGE DOMINOX	Harden 2000, Polypex 2000	VDF	efix	HIDROTEC KLIMATEC	tema, ato	Hs System, Heizung	Hs System, Sanitär	IBP>B <pre>B<pre>press Gas</pre></pre>	ste	JA-PRES	IPALPEX (Industry of Plastic and Access	quapres	Jaraflex-presssystem	Jupiter, Heizsysteme	KOHLER, InoxPress
	Nominal Size	Press Jav No.	Press Jav and RON No.	Interchanges Press Jaws Compact No. Use only in comb with interchange	Geberit Mepla	+GF+ PR	Giacomi Giaco T	HAGE D	Harden 2	Henco PVDF	Herz pipefix	HIDROT	Hitec Sistema, Multistrato	Hs Syste	Hs Syste	IBP>B <pre>pr</pre>	Mi Woeste	IPA, IPANA-PRES	IPALPEX Plastic a	Jäger, Aquapres	Jaraflex	Jupiter,	KOHLER
M	M12 M15	015151X 015152X	015101X 015102X														•						
	M18	015152X 015153X	015102X 015103X			•		•						•			•						•
	M22	015154X	015104X			•		•									•						•
	M28 M35	015155X	015105X 015106X			•		•									•						•
	M42		015107X					•															•
V / SV	M54 V12	015261X	015108X 015211X			•		•								•							•
• / 50	SV14	015269X	015219X			•										•							
	SV15	015262X	015212X			•										•							
	SV16 SV18	015260X 015263X	015220X 015213X			•										•							
	SV22	015264X	015214X			•										•							
	SV28 SV35	015265X	015215X 015216X			•										•							
	SV42		015217X			•										•							
G	SV54	045262V	015218X 015302X			•										•							
G	G16 G20	015362X 015364X	015302X 015304X		•																		
	G26	015366X	015306X		•																		
	G32 G40	015367X 015368X	015307X 015308X		•																		
НА	HA16	015580X	015280X																				
	HA20	015581X	015281X																				
	HA26 HA32	015582X 015583X	015282X 015283X																				
	HA40	0133037	015284X																				
R (H)	R12 R14	015370X	015339X 015330X	14863 14864																	•		
	R16	015371X	015331X	14865											•						•		
	R17	015378X	015333X	14866																	•		
	R18 R20	015379X 015374X	015334X 015335X	14867 14868											•						•		
	R25	015380X	015338X	14707																			
	R26 R32	015376X 015377X	015336X 015337X	14708 14709											•						•		
RFz	RFz12	0133777	1000000173	14822																			
	RFz16	015180X	015161X	14823																			
	RFz20 RFz25	015181X 015182X	015162X 015163X	14824 14825																			
	RFz32	015183X	015164X	14826																			
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843			•		•	•	•		•					•	•		•		
	TH18	015398X	015323X	14844			•		•	•	•		•					•	•		•		
	TH20	015389X	015324X	14845			•		•	•	•		•					•	•		•		
	TH25 TH26	015399X 015391X	015325X 015326X	14846 14847			•		•	•	•		•					•	•		•		
	TH32	015393X	015327X	14848							•		•					•			•		
THG	TH40	015401X 1000000236	015328X 1000000235				•				•							•	•		•		
THT	THT32	015393H	015329X						•										•				
U	U14	015351X	015311X	14832 14833																			
	U16 U18	015352X 015353X	015312X 015313X	14833								•										•	
	U20	015354X	015314X	14835								•										•	
	U25 U32	015355X 015357X	015315X 015317X	14836 14838								•										•	
	U40	015357X 015358X	015317X 015318X	. 1030																•		•	
RC	RC26	015277X	015271X	14837																			
VP	VP14 VP16	015530X 015531X	015230X 015231X	14882 14883																			
	VP20	015532X	015232X	14884																			
	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																			
	VFJZ	013334A	013234A	14000																			

 $Further\ information\ at\ www.rothen berger.com$ 



# **Press Jaws Program Overview**

	Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	LAVAGRUND, LAVAPRESS	Mair Heiztechnik, Gomafix	Mapress Edelstahl / Gas	Mark KG, polymark	MEGARO HAKAPRESS	MULTITHERM- PRESSSYSTEM	NEUTHERM, MEKUPRESS	Nupi MultiNupi	Nussbaum, Cupress, Cupress G, Optipress	Nussbaum, Optiflex Plus	O.M.T. Heizungssystem	Oventrop, Cofit	Pavitherm, MULTISTABIL	PIPELIFE RADOPRESS	POLYSAN Press-System	Prandelli, MULTYRAMA	PRASKI BAVARIA-press	Raccorderie Metalliche Inoxpres, Steelpres	remo	RIQUIERA A SERTIR
M	M12 M15	015151X 015152X	015101X 015102X				•															•		
	M18	015153X	015103X				•															•		
	M22 M28	015154X 015155X	015104X 015105X				•															•		
	M35	0131337	015106X				•															•		
	M42		015107X				•															•		
V / SV	M54 V12	015261X	015108X 015211X				•															•		
	SV14	015269X	015219X																					
	SV15 SV16	015262X 015260X	015212X 015220X											•										
	SV18	015263X	015213X											•										
	SV22	015264X	015214X											•										
	SV28 SV35	015265X	015215X 015216X																					
	SV42		015217X											•										
G	SV54 G16	015362X	015218X 015302X											•										
G	G20	015362X	015302X 015304X																					
	G26	015366X	015306X																					
	G32 G40	015367X 015368X	015307X 015308X																					
НА	HA16	015580X	015280X													•								
	HA20 HA26	015581X 015582X	015281X 015282X													•								
	HA32	015582X	015282X													•								
	HA40		015284X													•								
R (H)	R12 R14	015370X	015339X 015330X	14863 14864		•			•											•			•	
	R16	015371X	015331X	14865		•			•		•				•					•			•	
	R17	015378X 015379X	015333X 015334X	14866 14867					•														•	
	R18 R20	015379X 015374X	015334X 015335X	14868		•			•		•				•					•			•	
	R25	015380X	015338X	14707																				
	R26 R32	015376X 015377X	015336X 015337X	14708 14709		•			•		•				•								•	
RFz	RFz12	0133777	1000000173	14822																				•
		015180X	015161X	14823																				•
		015181X 015182X	015162X 015163X	14824 14825																				•
	RFz32	015183X	015164X	14826																				
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843	•			•		•							•	•	•		•			
	TH18		015322X	14844						•							•	•	•					
	TH20	015389X	015324X	14845	•			•		•							•	•	•		•			
	TH25 TH26	015399X 015391X	015325X 015326X	14846 14847	•			•		•							•	•	•		•			
	TH32	015393X	015327X	14848	•			•										•	•		•			
THG		015401X 1000000236	015328X 1000000235		•													•	•		•			
THT		015393H	015329X																					
U	U14	015351X	015311X	14832																				
	U16 U18	015352X 015353X	015312X 015313X	14833 14834								•												
	U20	015354X	015314X	14835								•												
	U25 U32	015355X 015357X	015315X 015317X	14836 14838								•												
	U40	015357X 015358X	015317X 015318X	1-1030					•		•	•								•				
RC	RC26	015277X	015271X	14837								•												
VP	VP14 VP16	015530X 015531X	015230X 015231X	14882 14883										•										
	VP20	015532X	015232X	14884										•										
	VP25 VP32	015533X	015233X	14885										•										
Further information		015534X	015234X	14886	OTU	ENIRE	DOF	D - tt		أبسا				•		Cont	,							

 $Further\ information\ at\ www.rothen berger.com$ 





# **Press Jaws Program Overview**

		Nominal Size	Press Jaws Compact No.	Press Jaws Pressiner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	Roth Sistema Rothapress	Roth-Roth Rohr- installationssysteme	SANHA Pressfittings, NiroSan Presssystem	Schlösser, Armaturen EUROPRESS SYSTEM	SCHÜTZ EHT Ropress	Seppelfricke Distribuzione MTSD	Seppelfricke System- technik SST Delphi Press	SIKO TYPRO Tyrotherm	Simplex SiRoCon Cu / E	Simplex SiRoCon PPSU H	Simplex SiRoCon PPSU TH	SST-Rolltec Delphi-Press	STS Systemtechnik	System PREXTO	THERMAGAS Espace Express	THERMOLUTZ Acular, Rapid	THERMOVAL, THERMOSMART	Tiemme, Serie PA / PG	Tiemme, Cobrapress
	M	M12	015151X	015101X				•																
		M15 M18	015152X 015153X	015102X 015103X				•						•					•				•	
		M22	015154X	015104X				•						•					•				•	
		M28	015155X	015105X				•						•									•	
		M35 M42		015106X 015107X				•						•										
		M54		015107X				•						•									•	
	V / SV	V12	015261X	015211X				•																
		SV14 SV15	015269X 015262X	015219X 015212X				•																
		SV15	015262X	015212X				•			•													
		SV18	015263X	015213X				•			•													
i		SV22	015264X	015214X				•			•													
		SV28 SV35	015265X	015215X 015216X																				
		SV42		015217X				•			•													
		SV54		015218X				•			•													
	G	G16 G20	015362X 015364X	015302X 015304X																				
		G26	015366X	015304X																				
		G32	015367X	015307X																				
	110	G40	015368X	015308X																				
	НА	HA16 HA20	015580X 015581X	015280X 015281X																				
		HA26	015582X	015282X																				
		HA32	015583X	015283X																				
	D (H)	HA40 R12		015284X 015339X	14063																			
	R (H)	R14	015370X	015339X 015330X	14863 14864		•														•			
		R16	015371X	015331X	14865										•						•			
		R17	015378X	015333X	14866		•														•			
		R18 R20	015379X 015374X	015334X 015335X	14867 14868		•								•									
		R25	015374X	015333X	14707		•																	
		R26	015376X	015336X	14708										•									
	RFz	R32 RFz12	015377X	015337X	14709		•								•									
	KFZ	RFz12	015180X	1000000173 <b>015161X</b>	14822 14823																			
		RFz20	015181X	015162X	14824																			
		RFz25	015182X	015163X	14825																			
	TH	RFz32 TH14	015183X 015395X	015164X 015321X	14826 14842					•		•	•				•	•		•		•		•
		TH16	015385X	015321X	14843	•			•	•		•	•			•	•	•		•		•		•
		TH18	015398X	015323X	14844	•				•			•				•	•				•		
		TH20 TH25	015389X 015399X	015324X 015325X	14845 14846	•			•	•		•	•			•	•	•		•		•		•
		TH26	015391X	015325X	14847				•	•		•	•			•	•	•		•		•		•
		TH32	015393X	015327X	14848				•	•		•				•	•	•		•		•		
	THG	TH40	015401X 1000000236	015328X 1000000235						•		•					•	•		•				•
	THT	THT32	015393H	015329X																				•
	U	U14	015351X	015311X	14832																			
		U16	015352X	015312X	14833																			
		U18 U20	015353X 015354X	015313X 015314X	14834 14835																			
		U25	015355X	015314X	14836																			
		U32	015357X	015317X	14838																			
	RC	U40 RC26	015358X	015318X	14837																			
-	VP	VP14	015277X 015530X	015271X 015230X	14837																			
		VP16	015531X	015231X	14883																			
		VP20	015532X	015232X	14884																			
		VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																			
L		V1 32	0 13334A	013234A	14000																			

 $Further\ information\ at\ www.rothen berger.com$ 



# **Press Jaws Program Overview**

Nominal Size  Nominal Size  Press Jaws Compact No.  Interchangeable Press Jaws Compact No. No. Unich Nonination with interchangeable jaws No. 014800X  TKM Fellingsbro TKM Fellingsbro TKM Press Ulnich VARIOFLEX HAKA-PRESS UPONOR UNIPIPE, UNICORE, Airpipe	Vescal, Metalplast Viega Profipressm profipress G, profipress Therm Viega sanpress, sanpress, Sanpress, Sp. U. O. Viega Sanfix FOSTA, P. P. U.S. Viessmann VSH CU-press, CU-press Gas Watts MTR Art press Wavin FUTURE 1/2, TIGRIS TIGRIS Alupex / Blue WEA PLASTIC, WEA WEM WINKLE WMKS WKS WKS WKS WKS WKS WKS WKS WKS WKS W
M M12 015151X 015101X M15 015152X 015102X	
M18 <b>015153X 015103X</b>	
M22 015154X 015104X M28 015155X 015105X	
M35 <b>015106X</b>	i i i i i i i i i i i i i i i i i i i
M42 <b>015107X</b> M54 <b>015108X</b>	
V / SV V12 015261X 015211X	
SV14 015269X 015219X	
SV15	
SV18 <b>015263X 015213X</b>	
SV22 015264X 015214X SV28 015265X 015215X	
SV35 <b>015216X</b>	• •
SV42 015217X SV54 015218X	
G G16 015362X 015302X	
G20 015364X 015304X	
G26	
G40 <b>015368X 015308X</b>	
HA16 015580X 015280X HA20 015581X 015281X	
HA26 <b>015582X 015282X</b>	
HA32 <b>015583X 015283X</b> HA40 <b>015284X</b>	
<b>R (H)</b> R12 <b>015339X 14863</b>	
R14 015370X 015330X 14864 • • •	
R16	•
R18 <b>015379X 015334X 14867</b> • •	
R20 015374X 015335X 14868 • • • • • • • • • • • • • • • • • •	
R26 <b>015376X 015336X 14708</b> • • •	•
R32 015377X 015337X 14709 • • • • • • • • • • • • • • • • • • •	•
RFz16 015180X 015161X 14823	
RF220 015181X 015162X 14824	
RFz25 015182X 015163X 14825 RFz32 015183X 015164X 14826	
TH TH14 015395X 015321X 14842	• • •
TH16	
TH20 <b>015389X 015324X 14845</b>	• • •
TH25	
TH32 <b>015393X 015327X 14848</b>	
TH40 015401X 015328X THG THG32 1000000236 1000000235	
THT THT32 015393H 015329X	
U U14 015351X 015311X 14832	
U16	
U20 <b>015354X 015314X 14835</b>	
U25	
U40 <b>015358X 015318X</b> • •	i i
RC RC26 015277X 015271X 14837 VP VP14 015530X 015230X 14882	
VP VP14 015530X 015230X 14882 VP16 015531X 015231X 14883	•
VP20 015532X 015232X 14884	
VP25 015533X 015233X 14885 VP32 015534X 015234X 14886	

 $Further\ information\ at\ www.rothen berger.com$ 





# **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

Long lever

Optimum force transfer

# **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

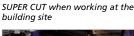






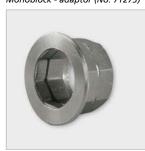
Convenient, lockable reversal of the ratchet direction





Easy operation in hard-to-reach places

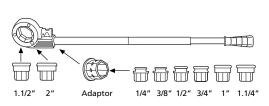
Monoblock - adaptor (No. 71273)



# **Precision Dies**

Made of high quality tempered steel Extremely long service life

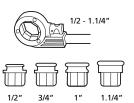
> With ratchet handle 1/4" - 2" the attachment of the 1/4" - 1.1/4" die head results with the use of the





# **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)



Lever arm No. 6240021

Model	Size	$\Delta_{kg}\Delta$	No.
BSPT R	1/2" - 3/4" - 1" - 1.1/4"	5.1	070781X

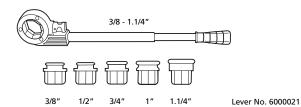






# **SUPER CUT - Sets Ø 3/8 - 1.1/4"**

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



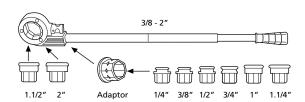
Model	Size	$\Delta_{kg}\Delta$	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	070790X
BSPT R	1/2" - 3/4" - 1"	4.2	070780X





# 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	$\Delta_{kg}\Delta$	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	1	
Die head	5 1/4 - 2"	122
Dies	1/4 - 2"	122
Cutting f	luid	123
Pipe roug	hing wrench	133









# **SANI KIT**

# Tool set in sturdy plastic carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing

# **Product Profile**

# **APPLICATION AREA**

**Cutting:** up to Ø 1.1/4" Thread cutting: up to Ø 1"

up to Ø 1.1/4"

Assembly, screwing, loosening, sealing of thread connections:

# **Professional!**



# **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

# **Corner Pipe Wrench Super S**

Slim, s-shaped jaw

Secure guiding of the cutter Firm grip wheel on the pipe

# **SUPER CUT** Ratchet Threader

With SUPER CUT ratchet handle 1.1/4"

Perfect alignment

Small outer octagon, BSPT R 1/2 - 3/4 - 1"

Precise thread cutting to approved standards

# **Water Pump Pliers Type SP**

With heavy duty box joint, chrome vanadium steel, drop-forged, tempered

Long service life

Polished head and joint

Firm grip even with heavy-duty use

# **SANI KIT**

# Tool carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing

# The ideal installation set!

SANI KIT when working at the building site with RONOL®



**10-part set** (No. 70600) includes: SUPER CUT ratchet threader 1.1/4" (No. 070840X), quick-change die heads BSPT R 1/2" (No. 070823X) - 3/4" (No. 070824X) - 1" (No. 070825X), steel pipe cutter SUPER 1.1/4" (No. 70040), water pump pliers type SP 10" (No. 70528), corner pipe wrench 1" (No. 070122X) as well as teflon tape (No. 855360), in plastic carrying case

Description	$\sqrt[]{\log \Delta}$	No.
SANI KIT Tool set	8.2	70600





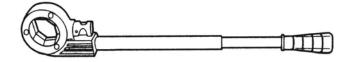
# 4

# **SUPER CUT Ratchet Arm**

With offset adaptor



Direct seating for die heads	via adaptor for die heads	Handle	$\sqrt[]{\log \Delta}$	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"	122
Dies	1/4 - 2"	122
Cutting flu	uid	123
Pipe rough	ning wrench	133









# **SUPERTRONIC® 1250**

Power threader Ø 1/4 - 1.1/4"

For quick and effortless production of precise and reliable thread connections to approved standards

# **Product Profile**

## **APPLICATION AREA**

For threading of

**BSPT** right: Ø 1/2 - 1.1/4" Ø 1/4", 3/8" Optional: (not included in set) Ø 1/4 - 1.1/4" NPT:

## **KEY FEATURES**

- Ideal for confined spaces (corners, shafts)
- Sturdy and light, even with heavy-duty use
- Compact gear housing with excellent overall size
- High power transmission, quiet running with long service life
- Tough, rugged and durable
- Weight reduction and easy handling









## **KEY FEATURES**

- Die can be used in both directions (left, right)
- Stable speed by forward and reverse motion

# **TECHNICAL DATA**

Threading speed: 15 - 20 min<sup>-1</sup> Rapid reverse speed: 27 min<sup>-1</sup> 800 Watt Performance: **Current:** 230 V/110 V Weight: 4.9 kg

**Dimensions:** 456 x 168 x 76 mm



# Compact design, only 4.9 kg, ideal for portable operation



# Small head shape (11 cm)







# **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)





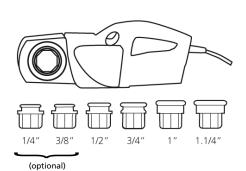
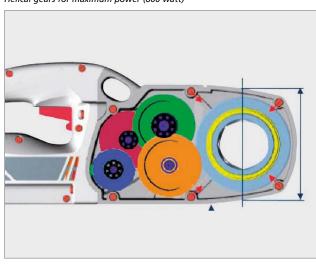




Fig. SUPERTRONIC® 1250 Set (No. 71450)

Model	Description	$\sqrt[4]{\log \Delta}$		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	on	
Die hea	ds 1/4 - 2"	122
Dies	1/4 - 2"	122
Cutting	fluid	123
Pipe rou	ighing wrench	133











# **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



Easy insertion of the die heads



Use with roll grooving tool ROGROOVER



ROFIX adaptor (No. 71271)



High reduction gears



# **SUPERTRONIC® 2000 Set**

Sets include: SUPERTRONIC® 2000 with pipe clamp (No. 71280), ROFIX-Adaptor (No. 71271), and precision die heads, complete in plastic carrying case (No. 071274X)

# Can also be used in combination with a roll grooving tool!



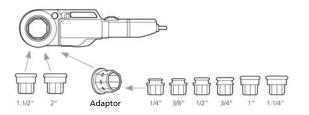




Fig. Similar, SUPERTRONIC® 2000 Set

Description	Model	$\sqrt[]{\log \Delta}$		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	n	
Die head	ds 1/4 - 2"	122
Dies	1/4 - 2"	122
Cutting	fluid	123
Pipe rou	ahina wrench	133









# **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

No.
070821X
070822X
070823X
070824X
070825X
070826X
070842X
070843X

NPT	No.
1/4"	070907X
3/8"	070908X
1/2"	070912X
3/4"	070913X
1"	070914X
1.1/4"	070915X
1.1/2"	070849X
2"	070850X

# **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.
1/4"	070831X
3/8"	070832X
1/2"	070833X
3/4"	070834X
1"	070835X
1.1/4"	070836X
1.1/2"	070869X
2"	070870X

NPT	No.
1/4"	070916X
3/8"	070917X
1/2"	070918X
3/4"	070919X
1"	070920X
1.1/4"	070921X
1.1/2"	070945X
2"	070946X

# **ROFIX Adaptor**

Fits small external octagonal die heads from  $\emptyset$  1/4" up to 1.1/4"

• Easy insertion of the die head with tension ring locking





Description	$\Delta_{kg}\Delta$	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

 $\textbf{For threading} \ \text{of all materials including stainless steel} \\$ 

**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	$\sqrt[b]{\log \Delta}$		No.
RONOL® Spray can	600 ml	0.75	12	65008
	5 l	5.20	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. SVGW tested (Reg. No. 9908-4126)

**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	$\sqrt[]{\log \Delta}$		No.
RONOL® SYN Spray can	600 ml	0.75	12	65013
RONOL® SYN Canister	51	5.20	4	65015







# **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**

- Quick and reliable threading, trimming, deburring, and grooving
- Effortless and comfortable transport with the light, navigable working carriage, which also serves as workbench
- Complete pre- and post-processing of pipe
- Easy to maintain machine design
- Die head Type R (automatic with integrated oil feed)
- Portable transport frame (standard)

## **TECHNICAL DATA**

Original RIDGID<sup>1)</sup> threading

dies can optionally be used!

ROTHENBE

 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

# 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



Reduced oil consumption, oil coating in pipe interior is avoided

Geared oil pump with filter system and adjustable fluid qualities

Constant oil flow quantities

Amply dimensioned large plastic shavings collection trough

Easy to clean

1) RIDGID® is a registered trade mark of the Emerson Electric Co., St. Louis, USA





# **ROPOWER® 50 R**



Automatic die head with integrated oil supply



Increased safety

High mobility



Thread roughing



Cost-effective production of grooves



Model	Volt		$\Delta_{kg}\Delta$	No.
ROPOWER® 50 R with automatic die head:				
BSPT R 1/2 - 3/4", 1-2"	230 V	1	88.5	56050
BSPT R 1/2 - 3/4", 1-2"	110 V	1	88.5	56045
BSPP R 1/2 - 3/4", 1-2"	230 V	1	88.5	56057
Collapsible Stand ROPOWER® 50 R		1	19.2	56051
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	70074
Supporting bolt for transport frame (contents 4 pieces)			0.7	56049
Supporting legs (contents 4 pieces)			5.0	56488

**ACCESSORIES** 

Description		No.
Cutting fluid	123	
Automatic die heads	128	
Dies	128	
NIPPLE MAX	133	
Pipe roughing wrench	133	56500
ROGROOVER 1-6"	134	56505













# **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"

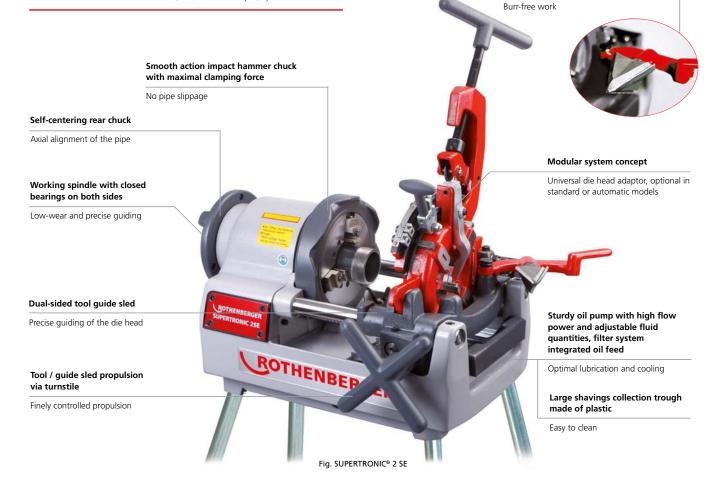
BSW: Ø 3/8 - 2"

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

### Internal deburrer, snap in, 3-blade



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







# **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	$\Delta_{kg}\Delta$	230 V	110 V
with Standard Die Head	68	56150	56120
BSPT R 1/2 - 3/4", 1 - 2" with Automatic Die Head	68	56175	56125
BSPT R 1/2 - 3/4", 1 - 2"			



SUPERTRONIC® 2 SE	230 V	110 V
Deburrer without holder 2 SE	56198	56198
Supporting legs (contains 4 pieces)	56488	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 WattSpeed:33 m-1Weight, 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. 56066), SS threading dies 2 - 3" (No. 56489), safety foot switch (No. 56335), supporting legs (No. 56491), tool

SUPERTRONIC® 3 SE	$\Delta_{kg}\Delta$	230 V	110 V
with Standard Die Head BSPT R 1/2 - 3/4", 1 - 2", 2 - 3"	100	56250	56253
with Automatic Die Head BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 3"	100	56255	56254



SUPERTRONIC® 3 SE	$\Delta_{kg}\Delta$	230 V	110 V
Deburrer without holder 3 SE		56199	56199

# **SUPERTRONIC® 4 SE**

## Compact threader Ø 1/2 - 4"

SUPERTRONIC® 4 SE with Automatic Die Head

# **TECHNICAL DATA**

 $\begin{tabular}{lll} \textbf{Motor strength:} & 1,750 \ \text{Watt} \\ \textbf{Speed:} & 22 \ / \ 50 \ \text{m}^{-1} \\ \textbf{Weight, with die heads:} & 120 \ \text{kg} \\ \end{tabular}$ 

**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	$\Delta_{kg}\Delta$	230 V	110 V
with Automatic Die Head	120	56465	56475
BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4"			
Deburrer Blade 4 SE		56200	56200
Transport Frame for 3 and 4 SE	25	57050	



# **Threading Electric**



# **Precision Die Heads**

For machine types ROPOWER® 50 R, PANDA, PISET, SUPERTRONIC® 2 S, 2 SE, 3 S, 3 SE, 4 S, 4 SE

## **Product Profile**

## KEY FEATURES

## Standard die heads

- Time saving with a simple and quick change of the threading dies
- User friendly with the locking positioning which eliminates complicated calibration
- Longer life of the dies with the integrated lubrication
- Guaranteed consistent cutting oil film on the pipe surface



## **Product Profile**

## **KEY FEATURES**

# Automatic die heads

- Simple and clear operation with the quick-adjustment thread sizes
- 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 123)!

## 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**

					8	) R	C® 2 SE	C <sub>®</sub> 3 SE	C® 4 SE
	Die h	eads	٦	Γhreading die	es	50	Ĭ		
Thread type	Size	No.	Size	No. SS-Steel	No. HSS-Steel stainl. steel/ Inox pipe	ROPOWER®	SUPERTRONIC®	SUPERTRONI	SUPERTRONI
Automatic	die heads	suitable f	or RIDGID <sup>1)</sup> th	reading die	es	æ	S	S	S
BSPT R	1/4 - 2"	56052	1/4-3/8" 1/2-3/4" 1-2"	56369 056370X 056371X	56379 56380 N/A	• • •			
NPT	1/4 - 2"	56053	1/4-3/8" 1/2-3/4" 1-2"	56372 56373 56374	N/A N/A N/A	•			
Automatic	die heads	suitable f	or ROTHENBE	RGER threa	ding dies				
BSPT R	1/2-2"	56266	1/2-3/4" 1- 2"	56003 56007	56235 56236		•		•

BSPT R	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			•
NPT	1/2-2"	56271	1/2-3/4"	56111	56180	•		
			1-2"	56112	56181			
	2.1/2-3"	56268	1-2" 2.1/2- 3"	56112 56295	56181 56183	•	•	

# **ROTHENBERGER standard / manual die heads**

BSPT R	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			•

NPT	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			•	•

BSPP	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		•	•

RZM	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	•	•	•	

Metric	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

BSPT R	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





# **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:

BSPT right: Ø 1/2 - 4"

NPT: Ø 1/2 - 4"

BSPP: Ø 1/2 - 4"

Metric: Ø 12 - 52 mm

## **KEY FEATURES**

## Standard Die Head

Precision pipe cutter, driven on both sides, with review panel, 5-blade deburrer

Precise cutting and deburring

 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

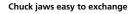
Operational hour counter

Motor control light

# **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



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

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	$\Delta_{kg}\Delta$	230 V	110 V
with Standard Die Head	133	57070	57071





# 4

No.

57010

56335

110 V

# **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	$\Delta_{kg}\Delta$	230 V
with Standard Head	216.00	57100
Transport stand, full rubber tyres	24.20	57105



# **ACCESSORIES**

















Description	$\sqrt[4]{\log \Delta}$		No.	Description	$\sqrt[]{\log \Delta}$	No.
Safety foot switch, 230 V	2.36	133	56335	Pipe roughing wrench	1.15	56500
Cutting fluid		123		Deburrer up to 2", conical with 5 blades	1.20	57011
High-performance die heads		132		Deburrer up to 4", bladed with 2 blades	0.70	57111
Precision dies		132		Replacement cutting wheel for pipe cutter	0.04	57110
NIPPLE MAX		133		Transport stand, full rubber tyres	24.20	57105

# **High-Performance Die Heads**

For CLASSIC 22 A and RHINO 4"

For pipe threads  $\varnothing$  1/8 - 4" and for bolt threads  $\varnothing$  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 QUADMATIC



Model AUTOMATIC

Die head		also suitable	AM 30	00 PR	COLLINS CLASSIC	COLLINS RHINO		
thread type	Cutting range	for dies	Standard	Auto	Standard	Standard	$\Delta_{kg}\Delta$	No.
BSPT UNIQUAD *	1/8 - 2"	BSPP 1/8 - 2"	•	0	•	•	5.1	57015
		M 6 - M 52 mm						
BSPT QUADMATIC	* 2.1/2 - 4"	BSPP 2.1/2 - 4"				•	17.9	57016
BSPT Automatic *	1/2 - 2"	BSPP 1/2 - 2"	0	•	0	0	4.8	57017
NPT UNIQUAD *	1/8 - 2"		0	0	0	0	4.9	57018
NPT Automatic *	1/2 - 2"		0	0	0	0	5.1	57019
○ = 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	Thread	for	$\overline{\Box}$	
size	per inch	die head	∆ <sub>g</sub> ∆	No.
HSS - Thread	ing Dies, BSI	PT right with pivot		
1/8"	28	57015	660	57020
1/4 - 3/8"	19	57015	660	57021
1/2 - 3/4"	14	57015 + 57017	630	57022
1 - 2"	11	57017	590	57025
2.1/2 - 4"	11	57016	2,800	57024
HSS - Thread	ing Dies, BSI	PT left		
1 - 2"	11	57015	590	57082
HSS - Thread	ing Dies, NP	Т		
1/8"	27	57018	460	57060
1/4 - 3/8"	18	57018	460	57061
1/2 - 3/4"	14	57018 + 57019	460	57062
1 - 2"	11	57018 + 57019	460	57063
HSS - Thread	ing Dies, BSI	PP		
1/8"	28	57015	460	57030
1/4 - 3/8"	19	57015	460	57031
1/2 - 3/4"	14	57015 + 57017	460	57132
1 - 2"	11	57015 + 57017	460	57133
2.1/2 - 3"	11	57016	2,300	57134
3.1/2 - 4"	11	57016	2,300	57135

Thread type size	Thread pitch	for die head	∆ <sub>g</sub> ∆	No.
HSS - Threadi	ing Dies, met	ric		
8 mm	1.25	57015	690	57032
10 mm	1.50	57015	670	57033
12 mm	1.75	57015	660	57034
14 mm	2.00	57015	650	57035
16 mm	2.00	57015	650	57036
18 mm	2.50	57015	640	57037
20 mm	2.50	57015	640	57038
22 mm	2.50	57015	590	57039
24 mm	3.00	57015	620	57041
27 mm	3.00	57015	600	57042
30 mm	3.50	57015	580	57043
33 mm	3.50	57015	580	57044
36 mm	4.00	57015	560	57055
39 mm	4.00	57015	560	57045
42 mm	4.50	57015	500	57046
45 mm	4.50	57015	450	57056
48 mm	5.00	57015	450	57057
52 mm	5.00	57015	450	57058

# **Accessories Threading**

# **Pipe Supporting Column**

Adjustable height, from 780 up to 1,200 mm with ball track. Maximum carrying capacity 120 kg





Model	Height / mm	$\Delta_{kg}\Delta$	No.
For pipes up to 6"	780 - 1,200	5.8	56047

# **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	$\Delta_{kg}\Delta$	No.
3 step, with emergency stop switch, 230 Volt	2.5	56335

# Pipe Roughing Wrench 3/8 - 2"

Wrench made of forged steel, with hardened rolls. Consistent, thread-saving roughing of the entire area



Model



Pipe Roughing Wrench	335	1.15	56500
Replacement roughing rolls (3 pc.)		0.30	56501

# **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

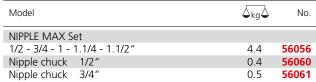






Set (No. 56056) includes: Nipple chuck 1/2" (No. 56060), 3/4" (No. 56061), 1" (No. 56062), 1.1/4" (No. 56063), 1.1/2" (No. 56064), steel carrying case (No. 26410)

**CROTHENBERGER** 



Model	$\sqrt[]{\log \Delta}$	No.
Nipple chuck 1"	0.7	56062
Nipple chuck 1.1/4"	0.8	56063
Nipple chuck 1.1/2"	0.9	56064
Nipple chuck 2"	1.2	56065





# **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	$\sqrt{\log \Delta}$		No.
ROGROOVER for SUPERTRONIC® 2000	14.5	1	56509
ROGROOVER for ROPOWER® 50 R, SC 2 SE, REX 2	" 14.5	1	56505
ROGROOVER for SUPERTRONIC® 3 SE and REX 3"	14.5	1	56506
ROGROOVER for SUPERTRONIC® 4 SE	14.5	1	56507
ROGROOVER for Ridgid 300	16.0	1	56504
ROGROOVER for REX 4"	14.5	1	56508

# Extremely light: 12 kg!



Model	No.
Support rail 2"	56510
Support rail 3"	56511
Support rail 4"	56512
Seating adaptor SUPERTRONIC®	56514
Pressure roller set 1" for ROGROOVER	56521
Pressure roller set for ROGROOVER 1.1/4 - 1.1/2"	56522
Pressure roller set for ROGROOVER 2 - 6"	56523
Tripod workbench	70751

# 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
- ½" ratchet for both adjustment

# **TECHNICAL DATA**

Working range: 1 – 12" (324 mm)

Pipe wall-thickness: 1 – 6" SCHL10 + SCHL40

4 – 6" SCHL40 8 – 12" SCHL10

Weight: 12.0 kg

**Depth gauge:** 2 distance plates included **Dimensions:** 2 10 mm x 210 mm x 210 mm



Model	$\Delta_{kg}\Delta$		No.
Hand Roll Groover 2 - 6"	12.0	1	1000000212
Roller-SET 1"	0.59	1	1000000720
Roller-SET 1.1/4 - 1.1/2"	0.62	1	1000000721
Roller-SET 2 - 6"	1.00	1	1000000850
Roller-SET 4 - 6"	2.48	1	1000000722
Roller-SET 8 - 12"	2.70	1	1000000723

# Application on tripod workbench



Fixture for stabiliser



# **ROGROOVER 2 - 12"**

Electro-hydraulic rolling groover for steel pipes Ø 2 - 12" (60 - 324 mm) for rolling of grooves on thin-walled and standard steel pipes

# **Product Profile**

# APPLICATION AREA

Sprinkler systems, installations, larger heading units, industrial use and mining

## **KEY FEATURES**

- Sturdy hydraulic-pump with precisely formed grips for ideal handling
- Compact and very stable machine design
- Powerful yet quiet motor
- Fine adjustment for groove depth and regulation

# **TECHNICAL DATA**

**Working range:** 2 - 12" (60 - 324 mm)

Pipe wall-thickness:3 - 10 mmWeight:129 kg

 Dimensions:
 920 x 460 x 960 mm

 Current:
 230 / 240 V, 50 / 60 Hz

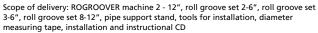
 Power:
 1,100 W

 Speed:
 23 U/min.

 Max. working pressure:
 8,000 kg



Model	$\Delta_{kg}\Delta$		No.
ROGROOVER 2 - 12"	129.0	1	1000000087
Roll Groove set 2 - 6"	1.5	1	887307000
Roll Groove set 3 - 6"	2.2	1	887308000



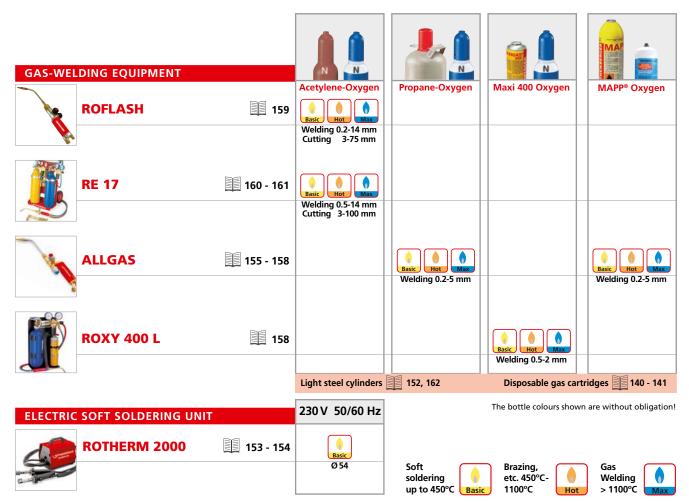
Model	$\Delta_{kg}\Delta$		No.
Roll Groove set 8 - 12"	2.4	1	887309000
Pipe support stand	29.0	1	1500000133
Diameter measuring tape	0.05	1	1500000134

# **Application Overview Soldering & Welding**

	cation Table sting according to application a	ıreas	PAME	OPAN	WIGAS'	MIGAS	
CARTRI	DGE SOLDERING UNITS		No services	MARERO			
	SUPER FIRE 3	138 - 139	MAPP®-Gas  Basic Hot  Ø 35 Ø 28	Propane  Basic  Ø 22	Maxigas	Multigas	Supergas
The state of the s	POWER FIRE COMPACT	140	Basic Hot Ø 28 Ø 22	Basic Ø 22			
	ROFIRE Swivel Pro	140	Ø 42 Ø 18 Ø 64 Ø 28	Masic Hot Hot 942 Ø 18 Ø 64 Ø 28			
	ROFLAME PIEZO	140					Basic Ø 22
	ROFIRE® PIEZO / ROFIRE® / EASYFIRE	141			Basic Hot Ø22 Ø15	Basic Hot Ø22 Ø15	
101.03			Disposable g	gas cartridges	142 - 143	3	
Soft soldering to 450°C	450°C - 1100°C Hot	Gas Welding > 1100°C		N			
ACETY	LENE AND PROPANE TORCHES		A	cetylene		Propane / Bu	tane
30	AIRAC®	148	Ba	Hot 54 Ø 35			
A.	ROCOLT HANDY PIEZO	144 - 145				Basic Ho	
1	AIRPROP®	146				Basic Ho	
	TURBOPROP	147				Ø 54 Ø 2	ot
	ROOFING-Set	151				Basic	
No.	MULTI 300	150				Basic	
	MULTI MOBILE	149				Basic	
			Light steel cy	ylinders 📜 15	52, 162		

# 4

# **Application Overview Soldering & Welding**



# **Soldered Joints**

Material	Required Hard Solder	Melting Range	Working Temperature	Standard
Copper-Copper	S 34 Cu / S 34 Cu U S 94 / S 94 XN / S1 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 1044
Copper-Carbon Steel	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 1044
Copper-Brass	S 94 / S 94 XN / S1 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 1044
Brass-Carbon Steel	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 1044
Brass-Brass	S 94 / S 94 XN S 1 (not standardised) S 2 / S 5 S 15	710 °C - 880 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
Carbon Steel-Carbon Steel	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 1044

# **Cartridge Brazing**

# **SUPER FIRE 3**

# Ergonomic HEAVY-DUTY brazing unit up to Ø 28 mm

For soft soldering, brazing and other applications such as loosening of colour or shrinking of hoses

# **Product Profile**

## **APPLICATION AREA**

**Brazing:** up to Ø 28 mm (with flame reflector in a

wind protected environment)

Soft soldering: up to Ø 35 mm

### **KEY FEATURES**

- Versatile for use in all positions (360°)
- Rapid heat-up, less 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

"Twist 'N' Load": 5 different nozzles for different applications

# **SUPER FIRE 3 Nozzles**

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

# "Twist 'N' Load"



Soft soldering in heating installation



High flame temperature through cyclone swirl

ROTHENBERGER

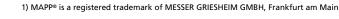


Brazing in gas installation



Hard soldering in refrigeration





# **Cartridge Brazing**

# Pin-point Nozzle (460 °C):



For fine soldering; precise and stable flame

# Standard Nozzle (700 °C):

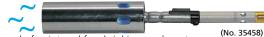
(No. 35456) For soft soldering and other jobs with lower heat application; precise, powerful and stable flame

Cyclone Nozzle (950 °C):



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®1) 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®1) Set

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



No 35436



No 35432

# **ACCESSORIES**





1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main

ROTHENBERGER-ROLOT







Model		Model	
Welding blanket	165	External brush for copper pipe	165
Internal brush for copper pipe	165	ROVLIES®	165
Solder	167 - 171	Soft-soldering paste ROSOL	167

# **Cartridge Brazing / Soft Soldering**

# **POWER FIRE Compact**

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

# **APPLICATION AREA**

7/16" FU Coupling: 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®1) Gas)
- Compact and 45% lighter (compared to POWER FIRE)

Model No.

POWER FIRE Compact set (torch, MAPP®1) Gas) 35424 POWER FIRE Compact, EU-handle 30813



# **ROFIRE Swivel PRO Piezo Cyclone**

# Cyclone burner with Piezo ignition

Coupling: 1" US / 7/16" EU Brazing: up to Ø 18 mm Soft soldering: up to Ø 42 mm



ROFIRE SWIVEL PRO Cyclone Piezo EU 35015 ROFIRE SWIVEL PRO Cyclone Piezo US 35016

# **ROFIRE Swivel PRO** Cyclone

# Cyclone burner

Coupling: 1" US / 7/16" EU Brazing: up to Ø 18 mm Soft soldering: up to Ø 42 mm



Model

ROFIRE SWIVEL PRO Cyclone EU 35013 ROFIRE SWIVEL PRO Cyclone US 35014

# **ROFIRE Swivel PRO** Twin

# Twin cyclone burner

No. 35424

Coupling: 1" US / 7/16" EU Brazing: up to Ø 28 mm Soft soldering: up to Ø 64 mm



Model

No.

ROFIRE SWIVEL PRO Twin EU 35011 ROFIRE SWIVEL PRO Twin US 35012

No.

# **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

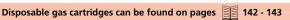


No.

ROFLAME PIEZO 1800 °C (w/o gas cartridge C 200) 750

1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main

















# **Cartridge Soft Soldering**

# **ROFIRE®**

# ECONOMY soft soldering unit up to Ø 22 mm

# **APPLICATION AREA**



# **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	$\Delta_g \Delta$	No.
ROFIRE® 1800 °C set (torch, Multigas 300)	760	35428
ROFIRE® 1800 °C handle		35506





# **ROFIRE® PIEZO**

# CLASSIC soft soldering unit Ø 22 mm

Powerful soldering unit for CU-brazing joints up to  $\varnothing$  15 mm and soft soldering up to  $\varnothing$  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	∆ <sub>g</sub> ∆	No.
ROFIRE® PIEZO set (torch, Multigas 300)	760	35429
ROFIRE® PIEZO handle		35556



# **EASY FIRE**

# ECONOMY soft soldering up to Ø 22 mm

High performance torch with Piezo ignition

# APPLICATION AREA Coupling: 7/16" EU Brazing: up to Ø 15 mm Soft soldering: up to Ø 22 mm

# **KEY FEATURES**

- Piezo ignition
- Precise adjustment of the torch flame
- Suitable for Multigas 300

Model	ΔgΔ	No.
EASY FIRE set (torch, Multigas 300)	730	35553
EASY FIRE torch without gas		35552



# **Cartridge Brazing**

# MAPP®1) Gas

# Special gas mix for high-performance soldering work

Flame temperatures up to 2,700 °C and 35 % faster than propane

# **Product Profile**

# **KEY FEATURES**

Contains no BUTADIEN Poses no health risks

- Extremely high flame temperature, utmost burning performance and guaranteed short working times
- Guaranteed constant top torch performance

# **KEY FEATURES**

- Easy to use
- Increased user safety through the sandwich valves and aluminium mono-block cylinder
- Longer periods of use

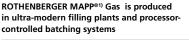
## 7/16" Sandwich valve

Increased safety



Less weight compared to conventional steel cylinders (228g empty)

Easy to use



Guaranteed constant top torch performance

Special gas mixture with outstanding flame characteristics

Extreme flame temperatures, utmost torch performance and guaranteed short working times OTHENBERGE

UN3161 PROPEN-Gemis

# MAPP®1) Gas

Special gas mixture researched by ROTHENBERGER



Fig. MAPP®1) Gas

Model	Contents		No.
MAPP®1) gas cartridge	750 ml	12/360	035551-A
Languages: DE, GB, FR, ES, IT,	PT		
MAPP®1) gas cartridge	750 ml	12 / 360	035551-B
Languages: DK, NL, SE, FI, FR, RU			
		12 / 360	035551-C
Languages: CZ, PL, HU, BG, TR, GR			
Burners can be found starting on 138			

1) MAPP® is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main

# MAPP®1) 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

# **Packaging Profile**

	/	
Model	MAPP®1) Gas	$\exists$
No.	035551-A	
EAN Code	4004625355510	
Product size (mm) (W x H)	80 x 285	
Contents (ml)	750	
Weight (g)	410	
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









GASDEPO	
del	Multigas 300
	035510-A/-B
N Code	4004625355107
duct size (mm) (W x H)	65 x 260
ntents (ml)	600
ight (g)	332
it ner PII /////	2/

Model	Maxigas 400
No.	035570-A/-B
EAN Code	4004625355701
Product size (mm) (W x H)	65 x 260
Contents (ml)	600
Weight (g)	352
Unit per PU 👑	24
PU per layer / palette	9
Layer per palette	3
Units per palette	648
Number of palettes per truckload	60
Units per truckload	38,880
Palette weight (kg)	195
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	405 x 272 x 264

Model	Multigas 300
No.	035510-A/-B
EAN Code	4004625355107
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

# **Propane Gas**

Gas cartridges for flame temperatures up to 1,900 °C. With EU coupling 7/16"



# C 200 Supergas

Pierceable butane cartridge with propane contents, also for working at low temperatures. Manufactured according to EN 417







Model	Propane Gas 2000
No.	035546-A/-B/-C
EAN Code	4004625355466
Product size (mm) (W x H)	80 x 285
Contents (ml)	750
Weight (g)	450
Unit per PU ‴	12
VPE pro Lage / Palette	8
Layer per palette	3
Units per palette	288
Number of palettes per truckload	60
Units per truckload	17,280
Palette weight (kg)	198
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	320 x 295 x 250





Model	C 200 Supergas
No.	035900-A/-B
EAN Code	4004625359006
Product size (mm) (W x H)	90 x 95
Contents (ml)	314
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)	251
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	405 x 272 x 264

# **ROCOLT HANDY PIEZO Set**

Professional brazing system with quick-change torch

Three torch nozzles for different applications

# **Product Profile**

# **APPLICATION AREA**

up to Ø 18 mm **Brazing:** up to Ø 32 mm Soft soldering: Warming-up: up to Ø 60 mm

# **KEY FEATURES**

- Three torch nozzles for different applications
- Reliable PIEZO ignition for up to 30,000 ignitions
- Increased safety with the hose failure protection













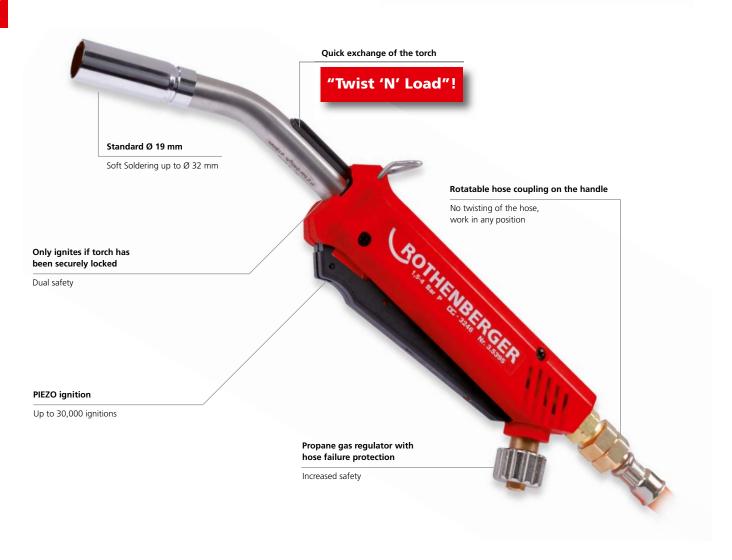


# **KEY FEATURES**

- No twisting of the hose, work in any position
- Tool-free nozzle exchange with the fast "Twist 'N' Load" system

# **TECHNICAL DATA**

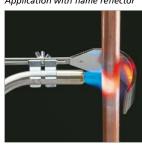
Coupling: G 3/8" left Handle: Plastic, with screws **Burner:** Brass / stainless steel







Application with flame reflector



Brazing



Soft soldering





# 4

# **ROCOLT HANDY PIEZO Set**

8-part set (No. 35390) includes: ROCOLT handle (No. 35395), standard torch 19 mm (No. 35378), cyclone torch (No. 35398), pressure reducer including rotatable hose failure protection (No. 35356), propane hose 3 m (No. 35383), flame reflector 65 mm (No. 31043), ROVLIES® (No. 45268), plastic carrying case (No. 30898)



Model	$\Delta_{kg}\Delta$	No.
ROCOLT HANDY PIEZO Set	1.5	35390
ROCOLT HANDY Handle	0.3	35395



# ROCOLT HANDY PIEZO Standard Torch

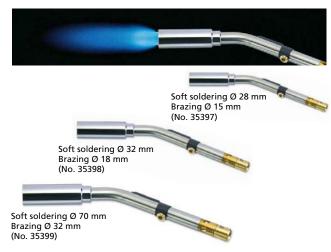
Standard torch with extremely short, bundled flame for low consumption. Ideal burner for brazing, soft soldering, warming up, annealing, hardening, etc.





# 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.



Model	Torch Ø mm	∆ <sub>g</sub> ∆	No.	Model	Torch Ø mm	∑ <sub>g</sub> ∆	No.
PIEZO Standard Torch	19	150	35378	PIEZO Cyclone Torch	14	180	35397
				PIEZO Cyclone Torch	19	150	35398
				PIEZO Cyclone Torch	25	120	35300

#### PIEZO Cyclone Torch **ACCESSORIES** ROTHENBERGER-ROLOT Model Model External brush for copper pipe Welding blanket 165 165 Internal brush for copper pipe 165 **ROVLIES®** 165 Soft-soldering paste ROSOL Solder 167 - 171

# **AIRPROP®**

Propane high-performance torches for brazing up to Ø 22 mm and soft soldering up to Ø 54 mm

For brazing and soft soldering of copper and steel pipes up to 2,000 °C without oxygen, as well as warming up, shrinking and flame cleaning















# **Product Profile**

#### **KEY FEATURES**

- Bundled, concentrated and hot flame with the built-in gas turbine in brazing torch
- Absolutely gas-tight with the optimised valve technology
- Gas-saving operation with the smooth-running economy valve
- Fast burner exchange without tools

#### **TECHNICAL DATA**

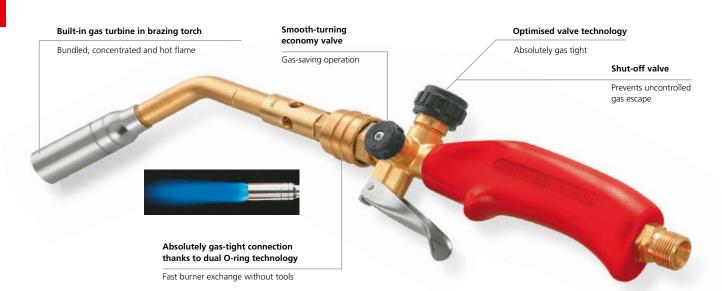
Self-induced air: Torch:

Turbine and combustion chamber

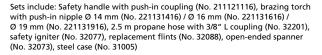
Surface treated.

chromed brass

Hose coupling: G 3/8" L







Model	$\Delta_{kg}\Delta$	No.
AIRPROP® Brazing set without propane regulator AIRPROP® Brazing set with propane regulator (as in set (No. 31092) but with regulator	2.8 3.1	31092 31091
(No. 32081) (W 21.8 L – G 3/8 L)) Flame cleaning torch 20/50 mm	0.2	30922



# AIRPROP® brazing burner with threaded coupling

Ø mm	⊢L mm	g/h 2 bar	kWh – kcal – BTU	$\sqrt{g}$	No.
14 mm	140	125	1.60 – 1,375 – 5,465	95	30913
16 mm	145	180	2.30 - 3,300 - 7,885	100	30914
19 mm	170	300	3.84 - 3,300 - 13,115	130	30915
22 mm	171	400	5.12 - 4,400 - 26,195	145	30916

# AIRPROP® brazing burner with push-in nipple coupling

Ø mm	L mm	g/h 2 bar	kWh – kcal – BTU	Δgδ	No.
14 mm	140	125	1.60 – 1,375 – 5,465	95	221131416
16 mm	145	180	2.30 - 3,300 - 7,885	100	221131616
19 mm	170	300	3.84 - 3,300 - 13,115	130	221131916
22 mm	171	400	5.12 – 4,400 – 26,195	145	221132216



# **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**

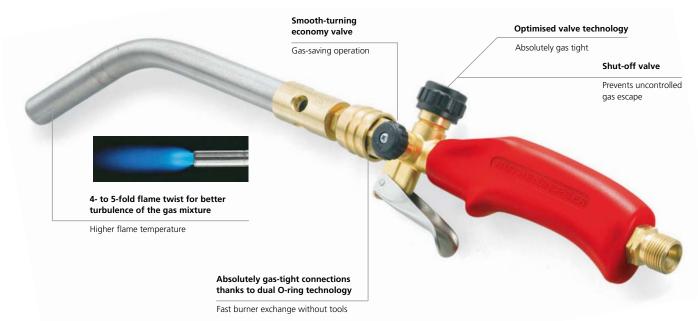
- High flame temperature due to turbine with increased oxygen self-induced air and 4- to 5-fold flame chamber
- Fast burner exchange without tools
- Gas-saving operation with the smooth-running economy valve
- Shut-off valve prevents uncontrolled gas escape

# TECHNICAL DATA

Self-induced air: Turbine and combustion chamber
Torch: Surface treated, chromed brass

Hose coupling: G 3/8" L







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" L coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

Model	$\sqrt[4]{\log \lambda}$	No.
TURBOPROP set without propane regulator	2.8	31090
TURBOPROP set with propane regulator	3.1	31094
(as in set (No. 31090) but with regulator		
(No. 3.2081E) (W 21.8 L – G 3/8 L))		
TURBOPROP set with propane regulator	3.1	31037
(as in set (No. 31090) but with regulator		
(No. 3.2083) (POL 7/8 L – G 3/8 L))		
TURBOPROP set with propane regulator	3.1	31036
(as in set (No. 31090) but with regulator		
(No. 32084) (W 20 x 14 L – G 3/8 L))		



# TURBOPROP brazing torch with push-in nipple coupling

Ø mm	L mm	g/h 2 bar	kWh – kcal – BTU	ΔgΔ	No.
10 mm	165	70	1.89 - 770 - 3,050	70	31031
12 mm	175	110	1.41 - 1,210 - 4,815	90	31032
15 mm	195	180	2.30 - 1,980 - 7,855	110	221031500
18 mm	230	240	3.07 - 2,640 - 10,485	160	221031800
24 mm	270	450	5.75 - 4,950 - 19,640	230	31035

# **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





# **AIRAC® Safety Handle**

Safety handle with economy, regulating and shut-off valve, threaded coupling M  $16 \times 1$ , hose coupling G 3/8" L

Model	ΔgΔ	No.
Safety handle	290	211541116
Repair kit for shut-off valve, complete	10	30101
Repair kit for regulating valve, complete	10	30102
Repair kit for economy valve, complete	10	30103



# **AIRAC® Brazing Torch**

Made of surface-handled brass, stable and concentrated flame

Model	Pipe Ø	∆ <sub>g</sub> ∆	No.
Bend with nut (150 mm)		80	35110
Size 2	12 - 15	40	35022
Size 3	18 - 22	50	35023
Size 4	28 - 35	70	35024



# **MULTI MOBILE Set**

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

# **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

Professional soft soldering with maximum mobility and safety!

**Cartridge Soft Soldering** 

#### **TECHNICAL DATA**

Copper piece temperature: 600 °C **Heat effect:** 945 W Ignition: Piezo Consumption: 75 g/h at 2 bar Handle diameter: 50 mm Weight incl. copper piece and cartridge: 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	ΔgΔ	No.
Copper piece, hammer shape	250	1000000514
Copper piece, pointed shape	245	1000000512

Model		No.
MULTI MOBILE Set		1000000390
Multigas 110 gas cartridge	12	1500000459

# **MULTI 300 Propane Soft Soldering Kit**

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

# **Product Profile**

#### **KEY FEATURES**

- For all types of fine soldering in the areas of electronics and telecommunications
- For working with lead (gutters, laminations and roof edging, ventilation shafts, etc.)

# **TECHNICAL DATA**

Propane handle with heat insulated wooden grip Rotatable air / rotary valve for the adjustment of an especially fine flame Rotatable hose coupling M10 x 1 L With longer ball spindle and dual spring control Favourable working pressure with 1.5 bar



Fig. Similar

Model	$\Delta_{kg}\Delta$	No.
MULTI 300 / Kit A without propane regulator MULTI 300 / Kit A with propane regulator		35486 35489
(No. 242206000)		
MULTI 300 / Kit B	9	35488

















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**



No. 35486



















Description	$\sqrt[4]{g}$	No.	Description	$\sqrt{g}$	No.
Soft soldering iron with handle, iron torch,	940	520849	Copper Head 250 g pointed	270	32099
Iron Holder, wind protector, copper head			Copper Head 350 g flat	370	32075
Soft soldering iron with handle, iron burner,	570	520840	Soft soldering torch size 5, Ø 17 mm, M 15 x 1	70	520856
Iron Holder, wind protector, without copper hea	ad		Soft soldering burner size 7, Ø 20 mm, M 15 x 1	120	520857
Handle with hose coupling M 10 x 1 L	300	520850	Steel case	3390	35487
Iron Burner with coupling M 15 x 1	70	520865	Torch spanner	60	35530
Iron Holder with foot	100	520866	Safety igniter with rolling file	60	32077
Wind protector	100	520867	Replacement flints, tin with 5 pieces	15	32088
Copper Head 250 g flat	270	32098			

# **Cylinder Soft Soldering**

# **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.

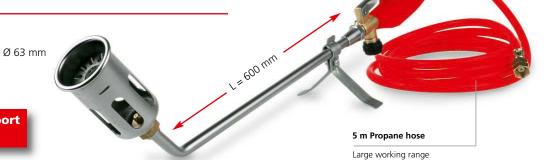
# **KEY FEATURES**

- Large working range with 5 m propane hose
- Efficient use even in adverse weather conditions with the
- High-performance burner with flame stabiliser chrome plated with a reinforced edge
- Burner support



600 mm burner tube Burner support





**Burner support** included!

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. 215111216), 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		No.
ROOFING-Set	1,920	30954
ROOFING-Set	1,960	030955X
(as 30954, with Piezo ignition)		
ROOFING-Set	2,300	30957
(as 30954, with pressure regulator 30925)		
Burner support	60	252010000

# **Extensions**

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



<b>L</b> mm	∑ <sub>g</sub> ∆	No.	<mark>⊩ L</mark> mm	∆ <sub>g</sub> ∆	No.
100	90	231010000	350	190	233510000
200	120	232010000	600	290	236010000

# **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	mm	g/h 2 bar	kWh – kcal – BTU	Δgδ	No.
45	102	2500	32.00 - 27,500 - 109,280	240	32045
51	112	3800	48.60 - 41,800 - 165,970	270	32051
63	138	6700	85.70 – 73,700 – 292,670	440	32063
close	ed				
45	102	2500	32.00 – 27,500 – 109,280	240	223214500
51	112	3800	48.60 - 41,800 - 165,970	270	223215100
57	126	5500	70.35 – 60,500 – 240,257	350	223215700
63	138	6700	85.70 - 73,700 - 292,670	440	223216300



# **Accessories Cylinder Brazing / Soft Soldering**

# **Safety Propane Handles**

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

Model	$\Delta_g \Delta$	No.
Safety Propane handle with push-in coupling	350	211121116
Safety Propane handle with M 14x1 coupling	290	211111116
Repair kit with shut-off valve, complete	10	30101
Repair kit with regulating valve, complete	10	30102



# **Propane Regulators**

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

Inlet	Outlet	Working pressure Bar	Perform ance kg/h	n-	No.
W 21.8 x 1/14" L	G 3/8" L	0.5 - 4.0	8	240	32081
G 3/8" L	G 3/8" L	0 - 6	8	200	242206000
W 21.8 x 1/14" L	G 3/8" L		8	230	30925



# **Propane Hoses**

Top quality, DIN / DVGW tested, with strong inlay, durable and flexible, mounted with sleeves and nuts in middle (DK 6) or high-pressure (DK 30) versions

m	Inlet	Outlet		Interior-Ø mm Wall thickness		No.
2 2 5				4.0 x 3.5 4.0 x 3.5		30927 32201
5	G 3/8" L	G 3/8" L	DK 30		730	33310



# **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	Pe Outlet	erforman kg/h	ce Push button	ΔgΔ	No.
G 3/8" L	G 3/8" L	10	blue	130	35925



# **Refilling Adaptor**

For refilling 0.5 propane cylinders from 3.5 or 11 kg propane cylinders, brass with guide pin

Inlet	Outlet	ΔgΔ	No.
W 21.8 x 1/14" L	G 3/8" L	160	32207



# **Propane Lightweight Steel Cylinder**

With cylinder valve, TÜV tested, according to TRG

Model	Outlet	Contents	$\sqrt{\log \Delta}$	No.
Small cylinder, 0.5 kg with foot	G 3/8"	empty	2.75	33079
Protective collar for 33079				35636
Cylinder 5 kg, with foot and cap		filled	12.60	31081
W 21 8 x 1/14" I				



With 0.5 kg cylinder protective collar included in delivery



No. 31081

# **Electric Soft Soldering**

# **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

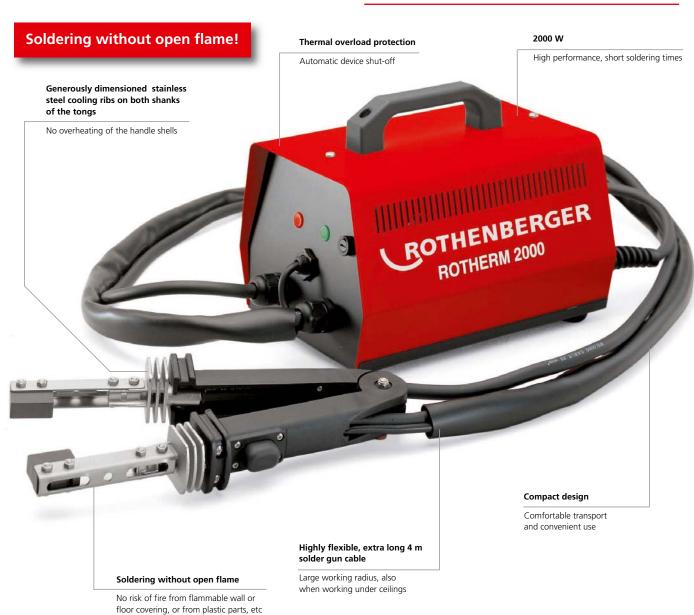
# **TECHNICAL DATA**

Power: 2000 Watt Soldergun cable: 4 m

**Dimensions (L x W x H):** 260 x 190 x 200 mm

Weight: 10.5 kg





# **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)

4

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

Steel case

Model



ROTHERM 2000 Soft soldering set

ROTHERM 2000 Soft soldering unit

Simple replacement of electrodes and electrode holders

 $\Delta_{kg}\Delta$ 

17.8

13.6

3.5

230 V

36702

36700

36715

50/60 Hz



## **ACCESSORIES**















Model	No.	Model	
Flat electrode (pair)	36721	ROVLIES®	165
Flat electrode with holder (pair)	36711	External brush for copper pipe	165
Rod electrodes (pair)	36720	Soft soldering flux	167
Rod electrodes with holder (pair)	36710	Solders	167
		Internal brush for copper pipe	165

# **ALLGAS 2000 Set**

# Mobile soldering and welding torch

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







# **Product Profile**

# APPLICATION AREA

Soldering range: up to 2.5 mm material thickness

Welding range: 0.2 - 5 mm Suitable for use with: Oxy-Acetylene

Propane and oxygen CNG and oxygen Town gas and oxygen

# **KEY FEATURES**

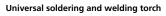
- For use with all conventional gases and cylinder oxygen
- Practically complete emptying of gas cylinders (money-saving)
- Super compact for working in confined spaces
- Efficient and economical professional use

#### Low gas pressure of only 0.2 bar

Practically complete emptying of gas cylinders (money saving) for use with all conventional gases and cylinder oxygen

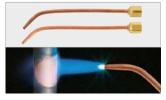
Super compact for working in confined spaces

Small, very light handle (280 g)



For use with all conventional gases and cylinder oxygen

#### Flexible pipe welding attachments



Dispersion nozzle for warming up

Safe and quick



Efficient and economical professional use

**Economical** 

**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)

GOTHENBERGER

Model	Coupling oxygen	Coupling fuel gas	ΔgΔ	No.
ALLGAS 2000 Set			3,100	35300
Handle ALLGAS 2000	G 1/4" R	G 3/8" L	280	35303
Mixing nozzle with union	nut		40	35304

Welding tips, Welding attachments				
Size	Welding range mm	$\triangle$ g $\triangle$	No.	
Welding tip size 1	0.2 - 1.0	10	35305	
Welding tip size 2	1.0 - 2.0	10	35306	
Welding tip size 3	2.0 - 3.0	10	35307	
Welding tip size 4	3.0 - 4.0	10	35308	
Welding tip size 5	4.0 - 5.0	10	35309	
Dispersion nozzle for warm	ing up	20	35311	
Welding tip holder, can be	used as a spanner	20	35312	
Flexible welding tip size 1	2.0 - 3.0	40	35313	
Flexible welding tip size 2	4.0 - 5.0	40	35314	
Coupling / union nut, size 1	14	10	35315	
Further accessories can be fo	ound on 162			





Fig. ALLGAS 2000 Set



# **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 1,150 °C Working temperature:

# Transport safety according to DIN EN 962, **BGV D34, GGVSE und TRG 280!**

**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	$\sqrt{\log \Delta}$	No.
ALLGAS 2000 PS 0.5 / 2 Set Carrying frame without accessories	21.4 10.3	35655 35629
Further accessories can be found on 162		















# Carrying comfort



Safety devices included



# **ALLGAS 2000 Welding Tips**

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

Size	Welding range mm	$\Delta_g \Delta$	No.
Welding tip size 1	0.2 - 1.0	10	35305
Welding tip size 2	1.0 - 2.0	10	35306
Welding tip size 3	2.0 - 3.0	10	35307
Welding tip size 4	3.0 - 4.0	10	35308
Welding tip size 5	4.0 - 5.0	10	35309
Dispersion nozzle for warming	j up	20	35311
Welding tip holder, can be use	ed as a spanner	20	35312



Welding Tips, Nozzle thread M8 X 1



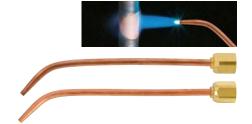






# **Flexible Pipe Welding Attachments**

Size	Welding range mm	$\Delta_g \Delta$	No.
Flexible welding tip size 1	2.0 - 3.0	40	35313
Flexible welding tip size 2	4.0 - 5.0	40	35314
Coupling / union nut, size 14		10	35315



# **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 saftety 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**

Gas:

MAPP® -gas with oxygen

(disposable) over 3,100 °C

Flame temperature: Working temperature: 1,300 °C

# Accessories included in the set



# 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

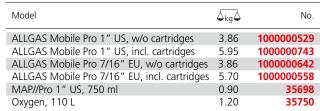
# High quality rubber hoses

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

# Welding and brazing torch

MAPP®1) and oxygen Flame temperature above 3,100 °C

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





# **ALLGAS 2000 PS 0.5 / 2 Basic**

# Portable fitter's brazing equipment

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



The bottle colours shown are without obligation!











#### 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. 35364), 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. 3538), 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	$\Delta_{kg}\Delta$	No.
ALLGAS 2000 PS 0.5 / 2 Set	14.4	35651
Further accessories can be found on 162		

# **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



The bottle colours shown are without obligation!















# 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. 35678), 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. 35691), o'.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	$\Delta_{kg}\Delta$	No.
ROXY 400 L Set	10.80	035780X
ROXY welding handle Profi	0.01	35580
Hose Set (3 m without handle)	0.95	35785
ROXY micro-nozzle adaptor	0.01	35585
ROXY micro-nozzle for 1-1.2 sheet metal	0.04	263005700
ROXY micro-nozzle for 0.7-0.9 sheet metal	0.06	263005800
ROXY micro-torch 0.4 mm	0.01	35695
ROXY micro-torch 0.5 mm	0.02	35696
ROXY micro-torch 0.6 mm	0.02	35697
ROXY micro-torch 0.3 mm	0.01	35712
ROXY micro-torch 0.7 mm	0.01	35713

# **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	$\Delta_{kg}\Delta$	No.
ROFLASH Set	4.2	513300











#### Exchange of the welding tip

Can be used with all types of gas

Cutting oxygen valve with spring-lever

Enables one-handed use for spray-free cutting, etc.



# **ROFLASH Handle**

# Welding kit handle

#### **KEY FEATURES**

- The new monoblock valves enable the precise adjustment and accurate control of the flame
- Comfortable one-handed use with the v-formed valve arrangement

Model	$\sqrt{g}$	No.
ROFLASH Handle	434	513010



# **ROFLASH Spring-lever Cutting Attachment**

# **KEY FEATURES**

• The solid torch nozzle is made from forged brass and can withstand the highest thermal demands and also enables use under extreme conditions, maintenance-free monoblock valve

Model	$\sqrt{g}$	No.
ROFLASH spring-lever cutting attachment ROFLASH cutting tips 3 - 6 mm	582 97	513310 513330
ROFLASH cutting tips 6 - 20 mm	97	513331
ROFLASH cutting tips 20 - 75 mm	98	513332



# **ROFLASH Welding Attachments / Welding Tips**



Model	$\sqrt{g}$	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	$\sqrt{g}$	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

# **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!

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 m (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), 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), dualtelescoping transport trolley (No. 35354), 5 m dual-hose package A / S (No. 35222), heating nozzle 3 - 100 mm (No. 35339), steel case (No. 35800)

Model	$\Delta_{kg}\Delta$	No.
RE 17 Three-gas System AMS 5/5	50	35400

360°

# 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









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 m (No 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 3-100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), 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		$\sqrt{\log \Delta}$	No.
RE 17 Three-gas Syst	em AMS 5 + 10	23	35403

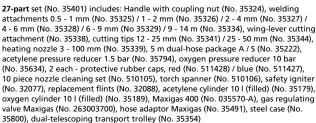
360°

# 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!



Model	$\sqrt[4]{\log \Delta}$	No.
RE 17 Three-gas System AMS 10/10	66	35401
RE 17 as in 35401, cutting range 3.0 - 25 mm	65	35798

The bottle colours shown are without obligation!





Fine (360°) (Max











# **Three-Gas Welding**

# **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 3 - 25 mm (No. 35341), Heating nozzle 3 - 100 mm (No. 35339), Nozzle cleaning set, 10 piece (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35800)

► Nominal size	$\Delta_{kg}\Delta$	No.
RE 17 Pipe welding set	4.3	35479
RE 17 Pipe welding set	4.8	35480
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) /		
25-50 mm (No. 35344), without flexible pipe-we	lding	
tips 2-4 mm (No. 35347) / 4-6 mm (No. 35348)		
Steel case RE 17 (empty)	1.70	35800
RE 17 handle with burner coupling nut	0.47	35324
Coupling: oxygen G 1/4" R, gas G 3/8" L		



No. 35324

# 4

# **RE 17 Welding Attachments**

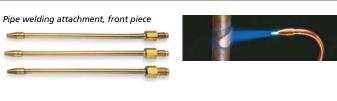
	Welding range mm	ΔgΔ	No.
Welding attachment	0.5 – 1	140 <b>3</b>	5325
Welding attachment	1 – 2	150 <b>3</b>	5326
Welding attachment	2 – 4	170 <b>3</b>	5327
Welding attachment	4 – 6	190 <b>3</b>	5328
Welding attachment	6 – 9	220 <b>3</b>	5329
Welding attachment	9 – 14	260 <b>3</b>	5334



# **RE 17 Pipe Welding Attachment, Flexible**

# Pipe welding attachment, Flexible copper tips complete

Welding range mm	ΔgΔ	No.	Welding range mm	∑ <sub>g</sub> ∆	No.
			1 - 2	40	35475
2 - 4	140	35347	2 - 4	40	35476
4 - 6	150	35348	4 - 6	50	35477



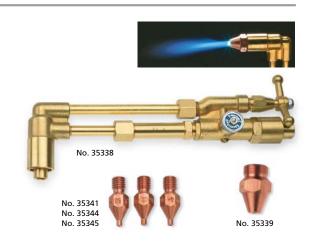


# **RE 17 Wing-lever Cutting Attachment**

Model	ΔgΔ	No.
Cutting attachment without tips	820	35338

# **RE 17 Cutting Tips and Heating Nozzle**

Model	Cutting range mm	$\sqrt{g}$	No.
Cutting tip	12 - 25	10	35341
Cutting tip	25 - 50	20	35344
Cutting tip	50 - 100	20	35345
Heating nozzle	3 - 100	50	35339





# **Oxy-Acetylene Hoses**

Top quality in accordance with DIN 8541, with strong inlay, durable and flexible, rubber, mounted with sleeves and nuts



# **Oxygen Hoses**

L		Inter	nal Ø x wall thick	ness	
m	Inlet	Outlet	mm	$\Delta_{kg}\Delta$	No.
2.5	G 1/4" R	G 1/4" R	6.0 x 3,5	0.5	35210
5	G 1/4" R	G 1/4" R	6.0 x 3.5	1.1	33311
10	G 1/4" R	G 1/4" R	6.0 x 3.5	1.9	33314

# **Acetylene Hoses**

m	Inlet	Inter Outlet	rnal Ø x wall thick mm	ness $\sqrt{\log \lambda}$	No.
2.5	G 3/8" L	G 3/8" L	6.0 x 3.5	0.5	35203
5	G 3/8" L	G 3/8" L	6.0 x 3.5	1.1	33312
10	G 3/8" L	G 3/8" L	6.0 x 3.5	1.9	33315

# **Dual Hoses A/S**

	m	Coupling Oxygen	Coupling Ir Outlet	nternal Ø x wall thickness Oxygen / Acetylene	$\Delta_{kg}\Delta$	No.
ĺ	2.5	G 1/4" R	G 3/8" L	6.0 x 3.5	0.9	35221
	5	G 1/4" R	G 3/8" L	6.0 x 3.5	2.0	35222
	10	G 1/4" R	G 3/8" L	6.0 x 3.5	3.8	35223
	40*	G 1/4" R	G 3/8" L	6.0 x 3.5	9.1	35230

<sup>\*40</sup> m hose without sleeves and nuts

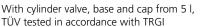


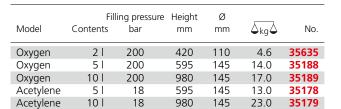
Included in delivery for steel cylinders without cap, protective bracket



The bottle colours shown are without obligation!

# **Lightweight Steel Cylinders, filled**









# **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	$\Delta_{kg}\Delta$	No.
Transport Trolley for 5 / 10 l acetylene / oxygen cylinders	8.9	35354
Conversion kit for adaption of Propane 0.5 kg / oxygen 5 l and 10 l cylinders		35342

# **Cylinder Pressure Reducer**

Rugged pressed brass construction with large pressure gauge **according to DIN 8549** (Ø 63 mm), with shut-off and safety valves, one-stage design **according to DIN 8546** with test mark

Cylinder contents bar	Working pressure bar	Inlet	Outlet	$\Delta_{kg}\Delta$	No.
Oxygen 0 - 315 / 200	0 - 16 / 10	G 3/4"	G 1/4" R	1.4	35634
Acetylene 0 - 40	0 - 2.5/1.5	G 3/4"	G 3/8" L	1.6	35794



# **Blowback Prevention**

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

Model	ax. Operating pressure	Coupling- thread	∑g ∆	No.
Handle-mounted, oxygen	25 bar	G 1/4" R	90	540320
Handle-mounted, acetylene	1.5 bar (Ace)	G 3/8" L	110	540321
	5 bar (prop	ane/CNG)		
Reducer-mounted, oxygen	20 bar	G 1/4" R	150	540360
Reducer-mounted, acetylene	1.5 bar (Ace)	G 3/8" L	160	540365
	4 bar (prop	ane/CNG)		
Reducer-mounted, oxygen	20 bar	G 1/4" R	120 1	000000633
Reducer-mounted, fuel gas	1.5 bar (Ace)	G 3/8" L	120 <b>1</b>	000000631
	5 bar (prop	ane/CNG)		
Handle-mounted, oxygen	20 bar	G 1/4" R	100 1	000000764
Handle-mounted, fuel gas	1.5 bar (Ace)	G 3/8" L	100 1	000000762
_	4 bar (prop	ane/CNG)		



# **Protective Guard for Pressure Reducer**

Impact protection, rugged steel construction, mounts on connection coupling

Model	Colour	$\Delta_g \Delta$	No.
For oxygen pressure reducer For acetylene pressure reducer	blue	820	35146
	yellow	820	35140

# **Protective Rubber Cap**

With slot, open

Model	Farbe	$\Delta_g \Delta$	No.
For oxygen pressure reducer For acetylene pressure reducer	blue	50	511427
	red	50	511428



# **Oxygen Refilling Bend**

Suitable for all 0.67l, 2l, 3l, 5l, 10l, 20l and 50l bottles up to 200 bar

Model	ΔgΔ	No.
max. 200 bar, cylinder coupling G 3/4"	360	35199



# **Safety Igniters**

Powerful spark, wear-free hard alloy friction surface

Model	$\Delta_g \Delta$	No.
Safety Igniter with rolling file	60	32077
Replacement flints, tin with 5 pieces	15	32088





No. 32077 No. 32088





# **Hand-held Welding Mirror**

Model	∑ <sub>g</sub> ∆	No.
Steel wire handle with clamp / ball joint	280	540850
Spare steel mirror	50	540851

# **Magnet Welding Mirror**

Model	ΔgΔ	No.
With flexible metal tube / ball joint	450	540855
Spare steel mirror	50	540851



# **Nozzle Cleaner**

Model	$\sqrt[]{g}$	No.
10 piece, in folding case	20	510105



# **Torch Spanner**

M	odel	$\Delta_g \Delta$	No.
W	ith 11 SW	210	510106



# **Soldering Flux and Container for Hydrochloric Acid**

Model	$\Delta_{g}\Delta$	No.
With screw cap retaining band	40	530250



# **Salmiakstone**

Model	LxWxH		$\sqrt{g}$	No.
Pressed	65 x 45 x 40 mm	1	15	530310



# **Soapstone Marker**

Model	LxWxH		$\sqrt[]{g}$	No.
White, heat-resistant	100 x 10 x 10 mm	10	30	561550



# **Welding Goggles DIN EN 166**

With thermal glasses as per DIN EN 169



Model	Glass	ΔgΔ	No.
Nylon safety goggles	A 4	60	540620
, , , , ,	A 5	60	540621
	clear, non-splintering	60	540622
Replacement glass (pair)	A 4	30	540625
	A 5	10	540626
	clear, non-splintering	30	540627
Screw-ring safety goggles	A 4	90	540640
	A 5	90	540641
Replacement glass (Ø 50 mm)	A 4	30	540675
	A 5	10	540676

No. 540640

# **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			ΔgΔ	No.
ROVLIES®	1(10)		80	45268
ROVLIES® counter display		36(10)	2,180	045268D





# **Internal Brushes for Copper Pipe**

For fast cleaning of the soldering surface, rugged plastic handle

<b>►</b> mm	∑ <sub>g</sub> ∆	No.	mm	ΔgΔ	No.
8	60	854179	16	120	854184
10	70	854180	18	120	854185
12	80	854181	22	140	854186
14	90	854182	28	140	854187
15	100	854183	35	160	854188



# **External Brushes for Copper Pipe**

For fast cleaning of the soldering surface, tough housing

<b>►</b> mm		No.	► mm		No.
	4 g 4	INO.		<b>4</b> g <b>4</b>	INO.
8	80	854189	16	130	854194
10	90	854190	18	140	854195
12	100	854191	22	150	854196
14	110	854192	28	160	854197
15	120	854193	35	170	854198



# **Hand Wire Brushes**

Model	Numbers of rows	∆ <sub>g</sub> ∆	No.
Standard steel	3 rows	130	561351
Standard steel	4 rows	130	561352



# **Welding Blanket**

Flame and heat resistant up to 1,000° C

- Permanent heat resistance up to 900° by direct flame contact and molten slag
- Good formability, long service life, asbestos-free and poses no health hazard
- Bonded edges



Thickness: 1.4 mm Weight: 1,000 g/m²



Model	LxWxH	∑ <sub>g</sub> ∆	No.
Welding Blanket	330 x 500 mm	300	31050

# **Flame Reflectors**

- Made of high-quality stainless steel
- Protects surrounding materials
- Better heat utilisation, saves time and energy





Model	Width mm	Adaptor Ø mm	$\sqrt{g}$	No.
65 / 15	65	8 – 15	100	31042
65 / 22	65	15 – 22	100	31043

# **Bonding**

# **Accessories Soldering & Welding**

# **Fitting Soft Solder to DIN EN**

Standard	Solder composition			Suitable for soft solde	Recommended heat source		
type according to DIN EN 29 453	in weight %	range °C	Pipe Material	Fittings material	Recommended Flux according to DIN EN 29454	Cartridge burner, heat resistant soldering unit, Propane / induced-air	
S -Sn97Cu3	Sn 97 %, Cu 3 %	230 - 250°	Copper	Copper, gunmetal, brass	Part 1 - 3.1.1, 3.1.2, 2.1.2 or ROSOL 3	burner, Acetylene / induced-air burner, Larger pipe diameters above 28 mm	
S -Sn97Ag3	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	with propane / oxygen burner with dispersion nozzle	

# **Standard Solder according to DIN EN**

Standard	Solder	Melting	Working	Suitable	e for installation t	echnology brazing	Recommended	Recommended heat source
type according to DIN EN 1044	composition in weight %	range °C	temperature °C	Pipe Material	Fittings material	Flux	Flux according to DIN EN 29454	
CP 203	P 5.9 - 6.5 / Cu rest	710 - 880°	730°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	
CP 105	Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	Contribute to the MADDRIL Con
CP 104	Ag 4.0 - 6.0 / P 5.7 - 6.3 / Cu rest	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	Cartridge torch with MAPP®1) Gas, Propane / induced-air torch, Acetylene / induced-air torch, Larger pipe diameters above 28 mm with propane / oxygen torch with
CP 102	Ag 14.0 - 16.0 / P 4.7 - 5.3 / Cu rest	650 - 800°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	
AG 106	Ag 33 - 35 / Cu 35 - 37 Sn 1.5 - 2.5 / Zn rest	630 - 730°	710°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	F-SH 1 or LP 5	dispersion nozzle
AG 104	Ag 44 - 46 / Cu 26 - 28 Sn 2.5 - 3.5 / Zn rest	640 - 680°	670°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	F-SH 1 or LP 5	

# **Soldered Joints**

Material	Required Hard Solder	Melting Range	Working Temperature	Standard
Copper-Copper	S 34 Cu / S 34 Cu U S 94 / S 94 XN / S1 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 1044
Copper-Carbon Steel	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 1044
Copper-Brass	S 94 / S 94 XN / S1 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 1044
Brass-Carbon Steel	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 1044
Brass-Brass	S 94 / S 94 XN S 1 (nicht genormt) S 2 / S 5 S 15	710 °C - 880 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
Carbon Steel-Carbon Steel	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 1044

<sup>1)</sup> MAPP  $^{\! \circ}$  is a registered trademark of MESSER GRIESHEIM GMBH, Frankfurt am Main



# **Fittings Solders**

Fitting Solder 1 S

for use with ROSOL 1 S fittings solder paste

Quality soft solders 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

Quality soft solder S-Sn97Aq3, melting range 221 °C - 240 °C,

Description

250 g coil

250 g coil

 $\Delta_{\mathsf{q}}\Delta$ 

270

270

No.

45252

45250







# Fitting Solder 3

Solder wire Ø

2 mm

3 mm

Quality soft solder, S-Sn97Cu3, melting range 230 °C - 250 °C, for use with ROSOL 3 fittings solder paste

Solder wire Ø	Description	ΔgΔ	No.
2 mm	250 g coil	270	45257
3 mm	250 g coil	270	45255





# **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







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	∑ <sub>g</sub> ∆	No.
ROSOL 1 S in plastic bottle 250 g	270	45220

# **ROSOL 3**

# Fittings solder paste

Quality soft soldering flux, metal content: S-Sn97Cu3, only for use with fittings solder 3

Model	$\Delta_g \Delta$	No.
ROSOL 3 in plastic bottle 250 g	270	45225

# 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.

Model	ΔgΔ	No.
Fittings Soft Solder Flux in plastic tube 35 ml	45	45266









# KEY FEATURES

 Ideal for capillary soldering with copper pipe installation in sanitary and heating systems

High-quality safety solder material with silver-phosphorus content, guaranteed according to DIN EN 1044, CP 105

- Matched precisely to the inner pipe diameters of expanded sockets and fittings according to EN 1254
- Complete wetting of soldering gaps

**Hard Solder Rings S 2** 

- Particularly efficient working through precise solder quantity
- No preparatory or re-work of the soldered joint

#### **TECHNICAL DATA**

**Alloy (weight %):** Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest **Melting range:** 650 °C - 810 °C

Joinable materials: Copper, gunmetal, brass, bronze Use of flux with: Gunmetal, brass, bronze with

hard solder paste LP 5

Package size: 250 g plastic bag



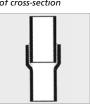
Simple insertion







Simply heat, no dripping, no reduction of cross-section



Outside Ø mm	approx. Content rings	ΔgΔ	No.
Hard solder rings S 2, Ø 12 m	m 395	260	40512
Hard solder rings S 2, Ø 14 m	m 268	260	40514
Hard solder rings S 2, Ø 15 m	m 244	260	40515
Hard solder rings S 2, Ø 16 m	m 228	260	40516
Hard solder rings S 2, Ø 18 m	m 186	260	40518
Hard solder rings S 2, Ø 22 m	m 106	260	40522
Hard solder rings S 2, Ø 28 m	m 79	260	40528



# **Hard Solder Paste LP 5**

Flux for hand soldering at working temperatures above 600 °C, according to DIN EN 1045 - 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	$\sqrt[]{g}$	No.
LP 5 in plastic bottle 160 g	180	40500



# **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	$\sqrt[]{g}$	No.
HKM in plastic bottle 160 g	180	35611



# Flux Brush

Description	Width mm	Length mm	$\Delta_{\alpha}\lambda$	No.
Flux Brush	13	140	20	530261

420 1000000133

# **Accessories Soldering & Welding**

# **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



# 4

# ROLOT® S 94 CP 203

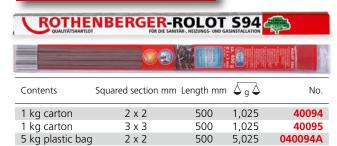
Quality hard solder **guaranteed according to DIN EN 1044**, due to low phosphorus content, the solder has a wide melting range, and gives soldered joints with increased strength. Standard solder for normally-stressed copper pipe installation, especially for capillary soldering with copper pipe installation without fittings

# **TECHNICAL DATA**

Alloy (weight %): P 5.9 - 6.5 Cu rest Melting range:  $710 ^{\circ}$  C  $-880 ^{\circ}$  C Working temperature:  $730 ^{\circ}$  C

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with LP 5

# **Guaranteed according to DIN EN 1044!**



500

# **ROLOT® S 94 XN CP 203**

Quality brazing solder, **guaranteed according to DIN EN 1044**, due the special manufacturing method it has excellent flow characteristics, uniform melting for perfect soldered joints, capillary and air-tight active, ideal for capillary gap soldering in sanitary, heating and gas installation

## **TECHNICAL DATA**

Alloy (weight %): P 5.9 - 6.5 Cu rest Melting range:  $710 ^{\circ}$ C  $-880 ^{\circ}$ C Working temperature:  $730 ^{\circ}$ C

Joinable materials: Copper, gunmetal, brass, bronze
Flux required with: Gunmetal, brass, bronze with LP 5

# **Guaranteed according to DIN EN 1044!**

2 x 2

400 g blister



Contents	Squared section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	040097X

# ROLOT® S 1

Special quality brazing solder, not standardised, **similar to DIN EN 1044**, for normally-stressed copper pipes systems, also for gap soldering for copper pipe installations without fittings

# TECHNICAL DATA

**Melting range:** 710 °C – 880 °C

Working temperature: 730 °C

Joinable materials: Copper, gunmetal, brass, bronze
Flux required with: Brass, gunmetal, bronze LP 5

# ROTHENBERGER-ROLOT \$1

Contents	<b>▶</b> ○	Length mm	ΔgΔ	No.
1 kg carton	2	500	1,025	40102



# **ROTHENBERGER-ROLOT S2**

# ROLOT® S 2

Special quality hard solder, not standardised, similar to DIN EN 1044, with low silver content, matched to normally-stressed copper pipe system, ideal for capillary gap soldering

Contents	Square mm	Length mm	$\sqrt{g}$	No.
1 kg carton	2 x 2	500	1,025	40202
400 g blister	2 x 2	500	420	1000000135

# **TECHNICAL DATA**

Melting range: 710 °C - 820 °C

720 °C Working temperature:

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP 5

#### Guaranteed according to DIN EN 1044!

# **ROTHENBERGER-ROLOT 52**



Contents	Square mm	Length mm	$\Delta_g \Delta$	No.
1 kg carton	2 x 2	500	1,025	40212
1 kg carton	3 x 3	500	1,025	40213
400 g blister	2 x 2	500	420	1000000134

#### **ROLOT® S 2 CP 105**

Silver / phosphorus safety hard solder, guaranteed according to DIN EN 1044, for higher-stressed copper pipe systems, ideal for capillary soldering in sanitary, heating and gas installations

# **TECHNICAL DATA**

Alloy (weight %): Ag 1.5 – 2.5 / P 5.9 – 6.5 / Cu rest Melting range: 650 °C - 810 °C

710 °C Working temperature:

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5



# **ROLOT® S 5**

Particularly high quality hard solder, not standardised, similar to DIN EN 1044, with low silver content, ideal for capillary and joint soldering in sanitary, heating and gas installations

Contents	Square mm	Length mm	∑g ∆	No.
1 kg carton	2 x 2	500	1,025	40502
400 g blister	2 x 2	500	420	1000000137

# **TECHNICAL DATA**

710 °C – 820 °C Melting range:

720 °C Working temperature:

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

## Guaranteed according to DIN EN 1044!



Contents	Square mm	Length mm	∑ <sub>g</sub> ∆	No.
1 kg carton	2 x 2	500	1,025	40005
400 g blister	2 x 2	500	420	1000000136

# ROLOT® S 5

# **CP 104**

High-quality silver/phosphorus safety hard solder, guaranteed according to DIN EN 1044, for higher-stressed copper pipe systems, ideal for capillary and joint soldering in sanitary, heating and gas installations

# **TECHNICAL DATA**

Alloy (weight %): Ag 4 – 6 / P 5.7 – 6.3 / Cu rest

650 °C - 810 °C Melting range:

Working temperature: 710 °C

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

# ROLOT® S 15 CP 102

Particularly high quality silver hard solder, **guaranteed according to DIN EN 1044**, especially for capillary-gap soldering subject to high thermal and mechanical alternating loads in HVAC systems, as well as demanding sanitary and gas installations

Guaranteed according to DIN EN 1044!



#### **TECHNICAL DATA**

**Alloy (weight %):** Ag 14.0 – 16.0 / P 4.7 – 5.3 / Cu rest

Melting range: 650 °C − 800 °C Working temperature: 710 °C

Working temperature: 710 °C

Joinable materials: Copper, gunmetal, brass, bronze

Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

Contents	Square mm	Length mm	∆ <sub>g</sub> ∆	No.
1 kg carton	2 x 2	500	1,025	40015

# Silver Hard Solders Ag 106 S 34 Cu / S 34 Cu U flux-covered

Free of cadmium, quality silver hard solder guaranteed according to DIN EN 1044, plain (\$ 34 Cu) or flux-covered according to DIN EN 29454 F-SH 1(\$ 34 Cu U), universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C

# Guaranteed according to DIN EN 1044!





# TECHNICAL DATA

Melting range:

Flux required:

**Alloy (weight %):** Ag 33.0 – 35.0 / Cu 35.0 – 37.0

Sn 1.5 – 2.5 / Zn rest 630 °C – 730 °C

Working temperature: 710 °C

Joinable materials: Steel, malleable cast iron, copper,

gunmetal, copper and nickel alloys for S 34 Cu generally with hard solder

paste LP 5

Contents	mm	ΔgΔ	S 34 No.	S 34 U No.
100 g plastic bag	2	110	44910	44915
250 g plastic bag	2	260	44911	44916
1000 g plastic bag	2	1,010	44912	44917

# Silver Hard Solders Ag 104 S 45 Cu / S 45 Cu U flux-covered

Free of cadmium, quality silver hard solder, guaranteed according to DIN EN 1044, plain (S 45 Cu) or flux-covered according to DIN EN 29454 F-SH 1 (S 45 Cu U), universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C

# Guaranteed according to DIN EN 1044!





Contents	mm	ΔgΔ	S 45 No.	S 45 U No.
100 g plastic bag	2	110	45050	45055
250 g plastic bag	2	260		45056
1000 g plastic bag	2	1,010	45052	45057

# **TECHNICAL DATA**

**Alloy (weight %):** Ag 44.0 – 46.0 / Cu 26.0 – 28.0

Sn 2.5 – 3.5 / Zn rest 640 °C – 680 °C

Melting range: 640 °C Working temperature: 670 °C

Joinable materials: Steel, malleable cast iron, copper,

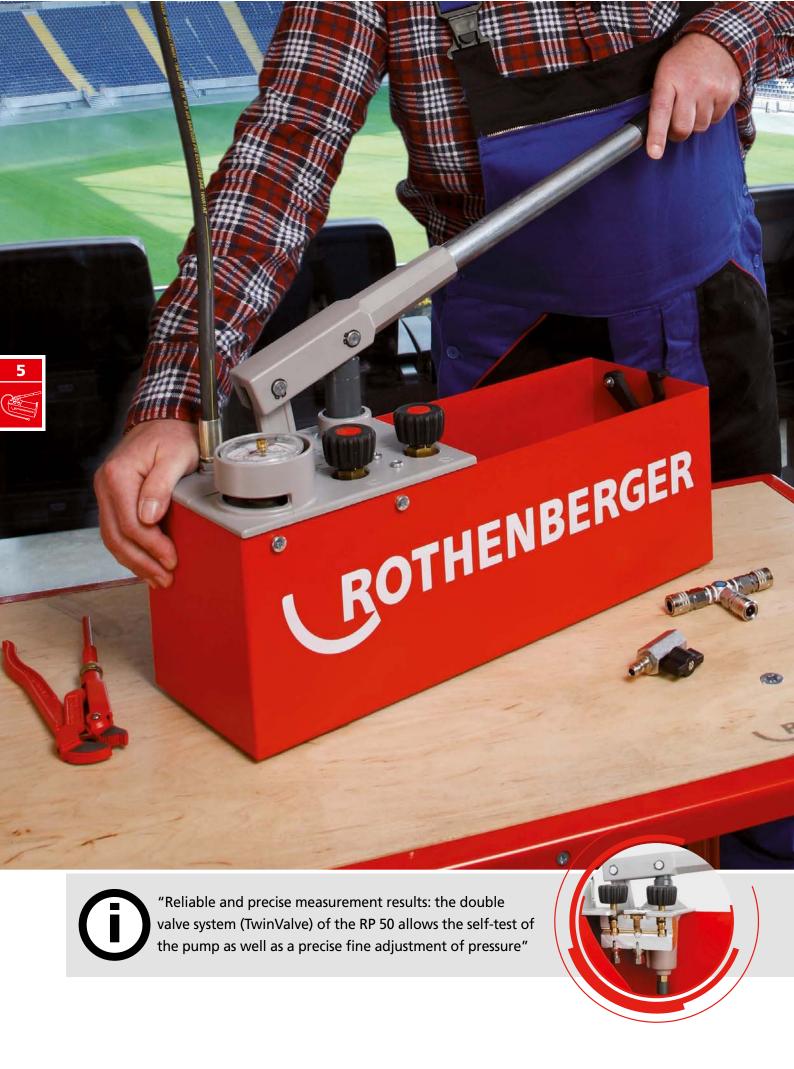
gunmetal, copper and nickel alloys,

stainless steel

**Flux required:** for S 45 generally with hard solder

paste LP 5







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# **Overview Testing Pumps**

# up to 60 bar

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

# Manual precision testing pump, 0 - 60 bar

- The classic testing pump: precise and safe
- Scaling pressure gauge 1 bar
- Scaling pressure gauge 0.1 bar expandable up to a maximum pressure of 16 bar
- Container: Steel Duramant® coated or stainless steel

Volume: 12 lWeight: 8 kg

175







# **RP PRO III**

# Self-priming electrical testing pump, 0 - 40 bar

- Saves time and effort, automatic filling and testing
- Scaling pressure gauge 1 bar
- Liquid supply self-priming or using a pressure source
- Weight: 16 kg







up to 30 bar

up to 40 bar

# **RP 30**

# Manual testing pump, 0 - 30 bar

- Simple, light and handy, for all common uses in residential construction
- Scaling pressure gauge 1 bar
- Container: ABS-plastic
- Volume: 4.5 l
- Weight: 4.5 kg







# **TP 25**

# Manual testing pump, 0 - 25 bar

- Small and robust, for daily use at the building site
- Scaling pressure gauge 1 bar
- Container: Steel Duramant® coated
- Volume: 7 l
- Weight: 4,6 kg









# **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 to 0.1 bar is possible!



# **Product Profile**

#### **APPLICATION AREA**

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers (up to 60 bar). Expansion possible with an extra fine scaling pressure gauge (0.1 bar) for testing up to 16 bars

# **KEY FEATURES**

- A drag indicator displays the preset pressure so that a loss of pressure in the system can be detected easier
- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Especially precise reading as needed: finely scaled (scaling 0.1 bar) pressure gauge available separately
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Type 50-S: Weather and cold-resistant steel container with **DURAMANT** coating
- Type 50-S INOX: high-quality corrosion resistant stainless steel tank

## **TECHNICAL DATA**

Tank capacity:

Testing and pressure range: 0 - 60 bar, with 1 bar steps

0 - 860 psi, with 20 psi steps

0 - 6 MPa, with 0.1 MPa steps

**Hub suction capacity:** approx. 45 ml / stroke

12 I

Dimensions (L x W x H): 720 x 170 x 260 mm

Connection: R 1/2"

Container RP 50-S: Steel, DURAMANT® coated

Container RP 50-S INOX: 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



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

No. 60203

ROTHENBERGER

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



ACCESSORIES								
Model	∆ <sub>g</sub> ∆		No.	Model	ΔgΔ		No.	
Maintenance package Double nipple 1/2" to 3/4"	0.1 0.1	1	60201 60999	High pressure hose with 1/4"-1/2" connection Extra 16 bar pressure gauge with drag indicator R1/4	490 " 100	1	R6112500 61316	

# **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 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**

Flow Rate:

**Testing and pressure range:** 0 - 40 bar, with 1 bar steps

0 - 570 psi, with 20 psi steps

375 x 290 x 300 mm

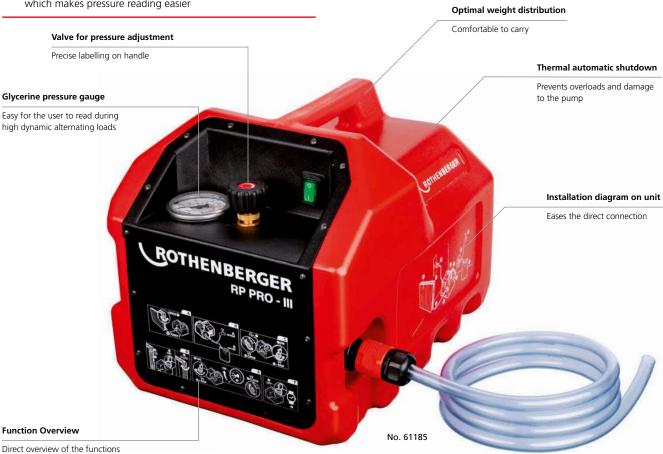
0 - 0.1 MPa steps max. 6 l / min

Dimensions (L x W x H): 375 x 2 Connection: R 1/2"

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

110 V / 50 - 60 HZ

**Performance:** 1.3 kW **Container:** ABS-plastic



Model	$\Delta_{kg}\Delta$	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 Testing hose with R 1/2" connection Extra pressure gauge	0.5 0.4 0.8	V12	61001 102000 61187
Maintenance package RP PRO III in scope of delivery			61186

# **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







Model	Pressure range	$\Delta_{kg}\Delta$			No.
TP 25 Testing Pump	up to 25 bar	4.6	1	4	60250
Maintenance package TF	25		1		60251

# **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	$\sqrt[]{\log \Delta}$			No.
Testing pump RP 30 Testing hose	up to 30 bar	4.5 0.4	1	4	61130 R6112500

# **ROTEST® GW 150/4**

Analogue testing device for gas and water connections using air as the medium

# DIN -Norm



#### **Product Profile**

#### **APPLICATION AREA**

Analogue testing unit for the implementation of the following tests:

**Gas:** Load and leakage test for newly installed gas lines in accordance with DVGW - TRGI worksheet G600

(April 2008)

Leakage test from propane liquid gas lines /

low-pressure liquid gas lines

Adjustment of the duct pressure on atmospheric

burners and forced-air burners

Testing of the appliance connection pressure on

gas appliances

Water: Pre-testing and testing of newly installed drinking

water lines in accordance with DIN 1988 (TRWI)

#### **KEY FEATURES**

- Quick and precise pressure reading over water column without electronic
- Testing time and pressures in accordance with DVGW - TRGI and TRWI clearly arranged on unit cover
- Sturdy unit: High reliability when used on the building site

#### **TECHNICAL DATA**

**Pressure gauge:** 4 bar **Water column:** 150 mbar

**Testing accuracy:** Water column 0.1 mbar

(Reading accuracy in accordance with TRGI)

Pressure gauge 0.1 bar (Display range 0 - 4 bar)

# 

#### Legible scaling

Continuous scaling up to 150 mbar

#### Measurement chart in unit

Testing times and testing pressure from lawmakers at a glance

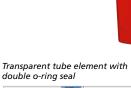


Inspection glass
Water level control



Testing scale up to 150 mbar on transparent extending tube element







# Foam inlay

High transport safety and protection of the components

## Compact measuring station

Designed to serve in real-life situations through quick, exact gas pressure measurements

Model in combination with basic unit	$\sqrt[]{\log \Delta}$	No.
with 5 test plugs and supply end cap (with No. 1-14, 16-17)	7.6	61700
with 5 test plugs without supply end cap (with No. 1-5, 7-14, 16-17)	7.3	61701

# **Testing & Leak Detection Testing of Gas & Water lines**

# **Set Components**

Description	ET	$\sqrt{g}$	No.
Connecting hose	0	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	0	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	1	100	351257
Adaptor 1/2"		50	61067

4, 7 up to 10 without picture



# **Gas Test Plug / Adaptor**

buitable for	gas lines up to 1	.5 bar			
Model	Steel exterior pipe Ø inch	Copper exterior		$\overline{\lambda}$	No.
iviouei	pipe Ø iricii	pipe w min	raits-ivo.	△ g △	INO.
Conical sha	ape with pneuma				
Size 0	3/8 - 1/2"	15 - 18	<b>1</b>	45	351260
Size 1	1/2 - 1"	22 - 28	<b>⊕</b>	80	351261
Size 2	3/4 - 1.1/4"	35 - 42	4	125	351262
Size 3	1.1/4 - 2"	54 - 64	<b>1</b>	175	351263
	Steel exterior	Copper exterio			
Model	pipe Ø inch	pipe Ø mm	Parts-No.	∆g∆	No
	shape with pneu				
Size 1	3/4"	22	•	60	351271
Size 2	1"	28	<b>U</b>	75	351272
	Steel exterior	Copper exterio	or		
Model	pipe Ø inch	pipe Ø mm	Parts-No.	$\Delta_g \Delta$	No
Conical sha	ape with hose co	upling			
Size 0	3/8 - 1/2"	15 - 18	18	200	351220
Size 1	1/2 - 1"	22 - 28	19	300	351221
Size 2	3/4 - 1.1/4"	35 - 42	20	300	351222
Size 3	1.1/4 - 2"	54 - 64	<b>3</b>	400	351223
	Steel exterior	Copper exterio	or		
Model	pipe Ø inch	pipe Ø mm	Parts-No.	$\Delta_g \Delta$	No
Conical sha	ape with 2 ball va	alves			
Size 1	1/2 - 1"	22 - 28	22	260	351231
Size 2	3/4 - 1.1/4"	35 - 42	23	420	351232
Size 3	1.1/4 - 2"	54 - 64	24	700	351233
	Steel exterior	Copper exterio	or		
Model	pipe Ø inch	pipe Ø mm	Parts-No.	$\triangle$ g $\triangle$	No
	ape with 1 ball va				
Size 0	3/8 - 1/2"	15 - 18	<b>2</b> 5	200	351225
Size 1	1/2 - 1"	22 - 28	26	350	351226
Size 2	3/4 - 1.1/4"	35 - 42	27	390	351227
Size 3	1.1/4 - 2"	54 - 64		600	351228

Adaptor/cut-off valve with pn. connection

**290 351265** 



# **DIN** -Norm



# **Product Profile**

# **APPLICATION AREA**

Testing balloon and accessories for the leakage testing of ground water piping using air in accordance with **DIN EN 1610 and DIN 1986, part 30**. Suitable for nominal diameters of 65 to 250 mm



#### **KEY FEATURES**

- Handy set: One testing and sealing balloon for the most common pipe diameters (included in set are diameters 75 - 150 mm, additional balloons available in accessories)
- Easier positioning of the balloon, even in hard to reach places using various push and filling rod sizes
- Body material is made out of aluminium and eases the positioning of the testing balloon through the pipe system
- Sturdy balloons made of natural rubber are temperature, use and waste water resistant. If the balloon becomes damaged, a simple repair is possible

#### **TECHNICAL DATA**

**Maximum operating pressure:** 15 bar **Push rod length:** 10 m

# **DIN EN 1610**

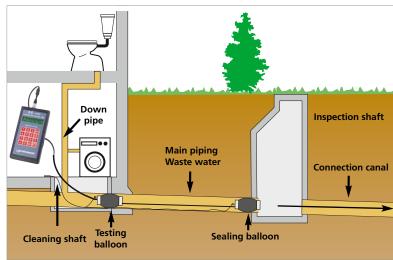
1.5 million km underground piping alone in Germany are waiting for testing (Source: DWA)

A new field for certified HVAC craftsmen: The DIN EN 1610 requires leakage testing with water or air for all ground pipe no later than 2015 (varies per region)

House connection sets in use



Connection example: House connection test set with ROTEST® GW Digital V2.3 USB



11-part House Connection Test Set (No. 61340) includes: sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 61359), filling hose (No. 61365), test valve, filling valve (No. 61367), push rod (No. 61380), holding rope (No. 61368), upright pump with pressure gauge (No. 61369), plastic case (No. 61370), cover (No. 91123), plastic case inlay for upright pump (No. 91122)

Model	$\Delta_{kg}\Delta$		No.
House Connection Test	7.8	1	61340

Ø Testing/Sealing balloon	Testing balloon No. Sealing balloon No.	
65 - 100	61358	_
75 - 150	61359	61352
90 - 250	61360	61353

### **Testing & Leak Detection**

### **Leak Detection on Gas Lines**

#### **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	Contents	$\Delta_g \Delta$		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!









#### **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 %</li>
- Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site
- Optical display of battery status

#### **TECHNICAL DATA**

**Detects:** Natural gas, propane, butane, methane, acetone,

alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel, paint thinner,

naptha, toluene

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

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



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

Model	$\Delta_{ m kg}\Delta$	No.
ROTEST® Electronic 3	1.5	66080





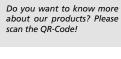


# Freezing

Freezing Electric
Pipe Freezing Systems
Freezing with Gas
Pipe Freezing Systems

184 - 186

187



#### **ROFROST® TURBO 1.1/4"**

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

# TÜV SERVICE





#### **Product Profile**

#### **APPLICATION AREA**

Maintenance, repair and expansion work in sanitary and heating installations

**Copper pipes:** Ø 10 - 42 mm ROFROST® TURBO 1.1/4"

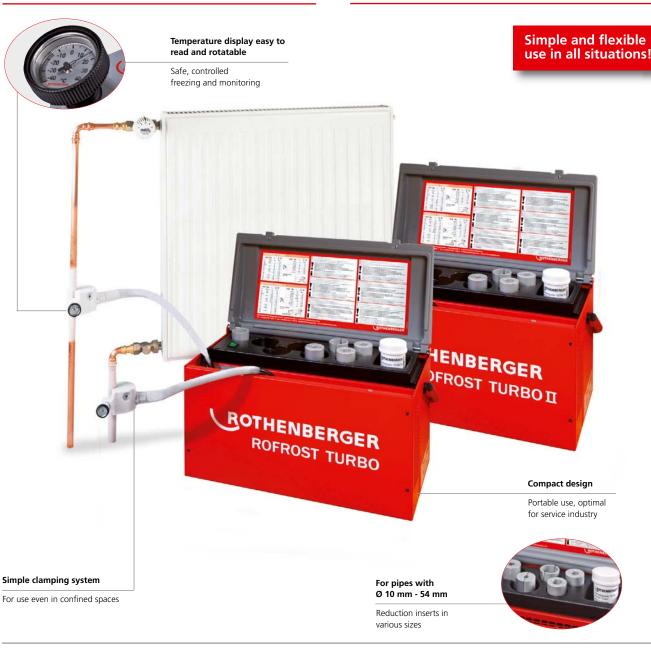
Ø 3/8 - 1.3/8" ROFROST® TURBO 1.1/4"

**Steel pipes:** Ø 1/4 - 1.1/4" ROFROST® TURBO 1.1/4"

Plastic pipes, as well as multi-layered composite pipes

#### **KEY FEATURES**

- Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen
- Reduction inserts in various sizes for all common pipe diameters
- With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem
- The use of heat conductive paste guarantees an optimum icing.
   It prevents air pockets between the freezing clamps and pipe.
   The pipe does not need to be sprayed with water



Model  $\frac{230 \text{ Volt}}{\sqrt{\log \lambda}}$  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

62200

Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII

62230

additional sets upon request



# **Freezing Electric**

#### **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

Copper pipes: Ø 10 - 54 mm ROFROST® TURBO 2"

Ø 3/8 - 2.1/8" ROFROST® TURBO 2"

Ø 1/4 - 2" ROFROST® TURBO 2" Steel pipes:

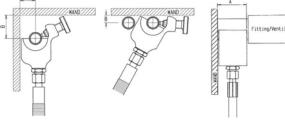
Plastic pipes, as well as multi-layered composite pipes

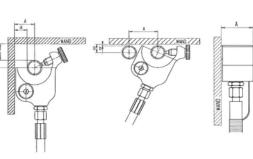
#### **KEY FEATURES**

- Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen
- Reduction inserts in various sizes for all common pipe diameters
- With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water

#### Space requirements for freezing clamps Space requirements for freezing clamps **ROFROST® TURBO 2" ROFROST® TURBO 1.1/4"** A <sub>min</sub> = 37 mm B <sub>min</sub> = 45 mm A <sub>min</sub> = 27 mm A <sub>min</sub> = 57 mm $B_{min} = 17 \text{ mm}$ $B_{min} = 13 \text{ mm}$ A $_{min}$ = 52 mm B <sub>min</sub> = 37 mm Use on vertical pipes Use on pipes Use on vertical Use on vertical pipes Use on vertical Use on pipes pipes on walls wall fitting / valve in corners pipes on walls wall fitting / valve Fitting/Ventil







Excellent overall size for working close to walls or on floors



Can also be used with parallel running pipes and in confined



Trouble-free use near walls. only 52 mm contact surface on pipe required



Anti-kink, diffusion proof monotube system with plastic capillary pipes guarantees high flexibility and uninterrupted operation

Fitting/Ventil



Model	$\sqrt[]{\log \Delta}$	230 Volt 50/60 Hz
ROFROST® TURBO 2" with reduction inserts size A, E, F, G (see ROFROST® reduction insert overview)	25.6	62203
ROFROST® TURBO 2" with reduction inserts size II, III, V, VII, A, E, F, G (see ROFROST® reduction insert overview)	25.8	62206
Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII		62230
additional sets upon request		

### **Freezing Electric**

#### **ROFROST® TURBO Reduction Inserts**









#### **ROFROST® TURBO 1.1/4"**

Reduction in	nsert ►O-		<b>-</b>		
Size	Nominal size Cu	Nominal size Cu	Nominal size Fe	∆ g ∆	No.
Size I	10 mm	3/8"	1/8"	190	62217
Size II	12 mm	1/2"	-	180	62211
Size III	14/15 mm	-	1/4"	170	62212
Size IV	16 mm	5/8"	-	170	62219
Size V	18 mm	-	3/8"	165	62213
Size VI	20 mm	3/4"	-	155	62224
Size VII	22 mm	7/8"	1/2"	145	62214
Size VIII	-	1"	-	125	62226
Size IX	28 mm	-	3/4"	110	62215
Size X	-	1.1/8"	-	90	62227
Size XI	32 mm	1.1/4"	-	80	62221
Size XII	35 mm	1.3/8"	1"	65	62216

#### **ROFROST® TURBO 2"**

Reduction in Size	nsert ►○◀ Nominal size Cu	► Nominal size Cu	► Nominal size Fe	ΔgΔ	No.
Size A	28 mm	-	3/4"	190	62231
Size B	-	1.1/8"	-	180	62232
Size C	32 mm	1.1/4"	-	170	62233
Size D	35 mm	1.3/8"	1"	170	62234
Size E	42 mm	-	1.1/4"	165	62235
Size F	-	-	1.1/2"	155	62236
Size G	54 mm	2.1/8"	-	145	62237

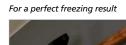
The reduction insert size E, 42 mm serves as an adaptor piece for fitting ROFROST® TURBO 1.1/4" reduction inserts size I – size XII

#### **ROFROST® Heat Conductive Paste**

Heat conductive paste enables fully automatic freezing without spraying!



No. 62291





Description		ΔgΔ		No.
ROFROST® Heat Conductive Paste	150 ml	130	1	62291

# **Freezing with Gas**

#### **ROFROST® Dry Ice Set**

Freezing unit for the freezing of pipes up to 2" without electricity

#### **Product Profile**

#### **APPLICATION AREA**

Maintenance, repair and expansion work in sanitary and heating installation. No electrical connection required!

#### **KEY FEATURES**

- Flexible use, freezing possible without electricity!
- Because of the low temperature (up to -79° C) the dry ice enables a faster freezing as every other electrical freezing unit that uses refrigerant
- Piping up to 2" can be frozen with just one unit
- Freezer heads made out of extremely cold-resistant special plastic

#### **TECHNICAL DATA**

Copper pipes: Ø 10 mm - 60 mm

Ø 1/2 - 2.1/8"

Steel pipes: Ø 1/8 - 2"

Plastic pipes, as well as plastic composite pipes

19-part set (No. 65030) includes: 2 handles with feed valves (No. 65032), 2 high pressure hoses (No. 65033), 10 pairs of freezer heads (2 for each pipe dimension), stopper for one-sided freezing (No. 65049), wrench (No. 65045), internal hexagonal screwdriver (No. 65046), T-piece (65034), Plastic carrying case (65031)

for Copper pipes		for Steel pipes		
Ø mm	Ø inch			No.
10 - 60	1/2 - 2.1/8"	1/8 - 2"	4.9	65030

#### **ROFROST® Freezer Heads**

Size	for Cop Ø mm	pper pipes Ø inch	for Steel pipes Ø inch	ΔgΔ	No.
1	10 - 12	1/2"	1/8"	60	65035
2	14 - 15	-	1/4"	60	65036
3	16 - 18	5/8"	3/8"	70	65037
4	22	3/4 - 7/8"	1/2"	70	65038
5	28	1.1/8"	3/4"	110	65039

#### Set without carbon dioxide bottles!









Size	for Copp Ø mm	oer pipes Ø inch	for Steel pipes Ø inch	ΔgΔ	No.
6	35	1.3/8"	1"	110	65040
7	42	1.5/8"	1.1/4"	210	65041
8	-	-	1.1/2"	210	65042
9	54	2.1/8"	-	250	65043
10	60	_	2"	250	65044

#### **ROFROST® Handy**

The fast, portable freezing system for copper pipes Ø 15 - 28 mm and steel pipes 1/4 - 3/4"

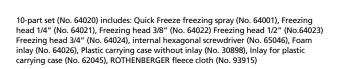
#### **Product Profile**

#### **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









Model	$\sqrt[4]{g}$	No.
ROFROST® Handy	2,400	64020
Quick Freeze Freezing Spray	500	64001







# **Inspection & Locating**

system Overview Video Inspection	190 - 191
/ideo Inspection	
ROSCOPE® i2000 Overview	192 - 193
ROSCOPE® i2000 App	194
Inspection Module for ROSCOPE® i2000	195 - 196
Locating Module for ROSCOPE® i2000	197
ROCAM® Pipe Inspection Camera	198 - 200
Accessories for ROCAM® Pine Inspection Camera	201



## **System Overview Video Inspection**

#### ROSCOPE® i2000

Modular system for inspection of pipes and hollow spaces

#### **KEY FEATURES**

- Photos and videos can be easily stored on the SD card
- Various modules for different pipe dimensions and cable lengths
- Module TEC and Module 25/16 have self-leveling pictures
- Module ROLOC PLUS for precise locating of the camera head



### Which ROSCOPE® system for which application area?



1 Module TEC Cable length / range: 0.9 m Working range: hollow spaces Page 195



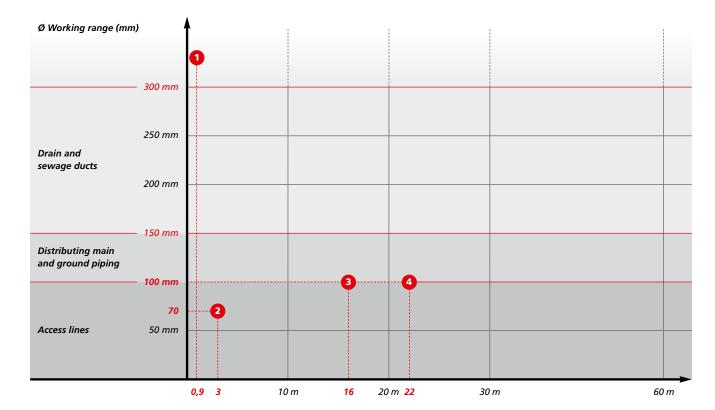
2 Module 20/3
Cable length / range: 3 m
Working range: up to Ø 70 mm



3 Module 25/16 Cable length / range: 16 m Working range: up to Ø 100 mm Page 196



4 Module 25/22 Cable length / range: 22m Working range: up to Ø 100 mm Page 195



Cable length / range (m)

## **System Overview Video Inspection**

#### **ROCAM®**

#### Camera for the inspection of pipes

#### **KEY FEATURES**

- Professional documentation with protocol file and data recording
- Self-leveling picture
- Recording of videos and photos
- Can be used immediately, no mounting of the reel is necessary
- Fits various pipe diameters
- ROCAM® 3 Multimedia with an integrated transmitter for the precise locating of the camera head



## Which ROCAM® for which application area?



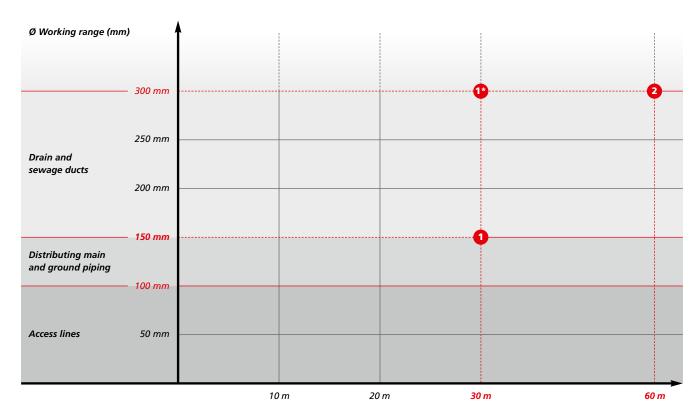
1 ROCAM® 3 Multimedia Cable length / range: 30 m Working range: up to Ø 150 mm (\*Can be optionally used with the SL-40 camera head up to Ø 300 mm) Page 198



2 ROCAM® Plus Cable length / range: 60 m Working range: up to Ø 300 mm Page 200



ROCAM® 3 Multimedia with removable control unit



Cable length / range (m)



### **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**

#### **APPLICATION AREA**

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.

#### **KEY FEATURES**

- User-friendly touchscreen monitor and simple menu guidance
- Easy data transfer for subsequent processing
- Audio recording and playback possible without further equipment
- USB charging function









#### **TECHNICAL DATA**

3.5" Touchscreen (color) Display:

Video format:

Picture format: JPEG, 640 x 480 pixels Mini-USB, AV-Out, SD-card slot Connection: Power supply: Li-ion battery 3.7 V / 4.2 Ah

### Compatible connection Previous ROTHENBERGER modules Versatile and can be used user-friendly! ROTHENBERGER WiFi Easy data transfer to mobile devices 640 x 480 pixel resolution (JPEG) **Ergonomic handling** SD-card slot Function keys arranged closely together Memory space for audio, video and image data Integrated microphone Slip-free handle Integrated speaker For comfortable and effort saving For audio playback operation - even over long periods of time **Powerful Li-ion battery** For an extra long battery life and short charging times



#### ROSCOPE® i2000 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



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**

#### 5 different modules for the ROSCOPE® i2000 basic unit

- With the Module Micro 5.5/1 you have access to the tightest spaces, for example in engine compartments
- Hollow space inspection with self-leveling picture with the Module TEC
- Inspection of pipes up to Ø 100 with Module 25/16 or 25/22
- Waterproof pipe module for pipe inspection in 90° bends from Ø 40 mm

#### **Module 25/16**



**Module 25/22** 



Module 20/3



**Module TEC** 



Module Micro 5.5/1



#### For Locating: ROLOC PLUS

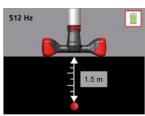
Positioning module for sondes

#### **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

Camera head is 1.5 m deep





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







#### ROSCOPE® i2000 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**

Compatibility: iOS 5.1 or newer, Android 4.0 or even newer models

#### Live Image



**Editing Display** 



Album



Album

Picture and Video Recording

Settings / Notes

**Editing** 

Change to edit settings

- Color palette
- Pen and Rubber

- Right-angle, Circle, Arrow





Inspection of basin drains

**Available for iOS** and Android!











Inspection of hollow spaces



Camera head with high-performance LEDs



#### **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**

**Display:** 3.5" Touchscreen (color) (technical data

about basic unit available on page 192)

Camera head: Ø 17 mm, self-leveling and waterproof,

with 4 LED lights

**Brightness:** 100 LUX (0.5 m)

Cable length: 0.9 m

**Power supply:** Li-ion battery 3.7 V / 4.2 Ah

Weight: 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	1500000696
Module TEC (without basic unit)	1	69601
Extension TEC 1.8 m	1	1500000010
Set (hook, magnet, mirror)	1	69615
Module 20/3	1	69385
Module Micro 5.5/1	1	69376



Inspection of rain downpipes



Inspection from floor drains



#### ROSCOPE® i2000 Module 25/22

High-performance camera for the inspection of pipes from  $\emptyset$  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**

Camera head:

**Display:** 3.5" Touchscreen (color) (technical data

about basic unit available on page 192) Ø 25 mm, waterproof, with 8 LED lights

**Brightness:** 100 LUX (0.5 m)

Cable length: 22 m Cable diameter: 5.5 mm

**Power supply:** Li-ion battery 3.7 V / 4.2 Ah

Weight: 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	1000000860
1 Module 25/22 (without basic unit)	1	69603
Guide skid for Module 25/16 and 25/22	1	74629



#### 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
- 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 192) Ø 25 mm, self-leveling and waterproof,

Camera head: with 4 extra bright LED lights

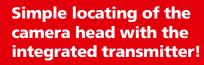
**Brightness:** 125 LUX (0.5 m)

Cable length: 16 m Cable diameter: 8.5 mm Frequency: 512 Hz

Power supply: Li-ion battery 3.7 V / 4.2 Ah,

2 AA batteries (transmitter)

Weight: 3.9 kg



Easy data transfer

to mobile devices

Integrated transmitter For the precise locating of the camera head

### 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)



Guide skid for Module 25/16 and 25/22

Self-leveling camera head Picture is always upright, no loss of orientation

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

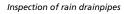
No. 74629

#### Rubberized base

Stable stand without slipping and damaging the surface

#### Inspection of access line







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

1000000842 ROSCOPE® i2000 Module 25/16 + Module TEC

Module 25/16 (without basic unit) 1500000052 Guide skid for Module 25/16 and 25/22 74629





#### 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**

3.5" Touchscreen (color) (technical data Display:

about basic unit available on page 188)

Frequencies: 512 and 650 Hz, 33 kHz active/passive,

50/60 Hz passive

Power supply: Li-ion battery 3.7 V / 4.2 Ah **Dimensions:** 95 x 32 x 30 cm (operating mode)

67 x 32 x 9 (transportation mode)

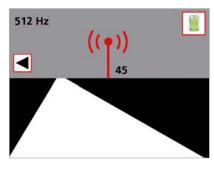
Weight: 1.4 kg



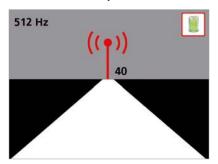
Scope of delivery ROSCOPE® i2000 Module ROLOC PLUS (No. 1000000065): ROSCOPE® i2000 basic unit, Module ROLOC PLUS; Module TEC, charger, plastic carrying case

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

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



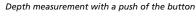
Target is in the running direction. No correction is necessary

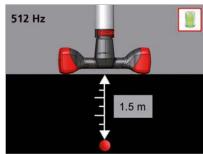


Locating module is included with the ROSCOPE® i2000 basic unit!

> Also for use with **ROCAM® 3 multimedia**







#### **ROCAM® 3 Multimedia**

Inspection camera for pipes from Ø 70 up to 150 mm and/or from Ø 150 up to 300 mm. With integrated transmitter for the precise locating of the camera head

#### **Product Profile**

#### **KEY FEATURES**

- Removable monitor unit for working in confined spaces
- Recording of photos and videos
- Protocol file

Protection against splash water (IP65) For use in wet, dirty surroundings and easy, fast cleaning

Strong push cable

Ø 7 mm, 30 m long

Precise and reliable

camera guidance in

pipe and duct

- Data recording with the keyboard
- Audio commentary of the inspection is possible
- Precise determination of the camera head distance with the digital meter counter fade-in on display

#### **TECHNICAL DATA**

**Display:** 10.4" TFT LCD colour display, removable **Camera head:** Ø 30 mm (standard) with 25 LED lights,

Ø 40 mm (optional) with 36 LED lights,

self-leveling and waterproof

**Brightness:** 175 LUX (0.5 m), camera head Ø 30 mm

666 LUX (0.5 m), camera head Ø 40 mm

Cable length: 30 m Cable diameter: 7 mm

**Power supply:** NiMH battery 12 V / 6 Ah

Weight: 18 kg

BOTHENBERGER

Simple locating of the camera head with the integrated transmitter!

Removable control unit with 10.4" TFT LCD colour display

Simple use in hard to reach places

Recording of photos and videos

Simple documentation of the inspection on a USB stick

Digital meter count fade-in

Precise determination of the camera head distance



Integrated transmitter

For the precise locating of the camera head

Mechanical self-leveling of the picture

Picture is always upright, no loss of orientation



attaching various camera heads

Model

ROCAM® 3 Multimedia 30 mm ROCAM® 3 Multimedia 40 mm 1500000118

1500000116





### **Inspection & Locating**

### **Video Inspection**

#### Removable control unit

#### Makes working in tight spaces easier

- The camera base does not need to be near the user since all
  of the control elements such as recording, playback or LED
  regulation are integrated in the compact control unit
- Photos and videos of the inspection can be saved on the USB stick and immediately played back with just a push of a button
- The 10.4" TFT LCD colour display offers optimum conditions for a quick and simple analysis of the observations

#### ROCAM® 3 Multimedia with removable control unit



#### **ROCAM® Camera Heads**

Camera heads made of high-quality materials for professional inspection of pipes from Ø 70 up to 300 mm

#### **Product Profile**

#### **KEY FEATURES**

#### **Excellent brightness:**

- The ROCAM® camera head Ø 30 mm has over 25 ultra bright LED lights, that effortlessly illuminate pipes up to Ø 150
- The camera head can be mounted with a Ø 40 mm camera head for larger pipe diameters

#### Pressure tight screw slip-ring connection:

- Pressure tight connection (3 bar) between camera head and push cable
- High resistance to shock and impact
- Quick and toolless exchange of the camera heads
- No burden from electrical connections

#### High flexibility and resistant:

- Flexible spring provides 90° curveablity in pipes up to Ø 70 mm when enough stability is provided
- Pressure tight up to 3 bar with the stainless steel casing
- Scratch and impact resistant with the sapphire glass objective

#### **KEY FEATURES**

#### Mountable transmitter:

- Optional 33 kHz transmitter can be used to determine the length of the camera head (90° from Ø 70)
- In small pipe diameters the transmitter can also be used without the camera head to determine the course of the pipe without a visual inspection

#### TECHNICAL DATA

Camera head: Ø 30 mm with 25 LED lights

Ø 40 mm with 36 LED lights self-leveling and waterproof

**Brightness:** 175 LUX (0.5 m), camera head Ø 30 mm

666 LUX (0.5 m), camera head Ø 40 mm



Model

Camera head Ø 30 mm Camera head Ø 40 mm 1500000123 1500000122

No.

Drassura tight serous dia ring

### Always an upright picture!





Pressure tight screw slip-ring



High flexibility and durability



Mountable transmitter





#### **ROCAM® Plus**

Inspection camera with battery and mains operation for pipes from Ø 25 up to 300 mm

## 230 V



#### **Product Profile**

#### **APPLICATION AREA**

Camera system for cost-effective inspection and damage analysis over long distances with self-leveling camera head and optional data archiving per ATV

#### **KEY FEATURES**

- Powerful, self-leveling camera head
- Precise and reliable guidance of the camera in pipe and drains
- Curve flexibility 90° starting from 40 mm with the Mini Module 1.4 (as standard included)
- Conserves battery: saves energy with the automatic shut-off
- Mobile and battery operation up to 2.5 hours, 12 V adaptor with on-board charger
- Precise determination of the camera head distance with the digital meter count fade-in on display
- Excellent contrast and sharp, continuously adjustable light intensity of the diodes

#### **KEY FEATURES**

- For the documentation of the inspection on video
- Direct data exchange with laptop / PC, etc., possible

#### **TECHNICAL DATA**

Weight:

**Display:** 5.6" TFT LCD colour display **Camera head:** Ø 40 mm, **self-leveling** and

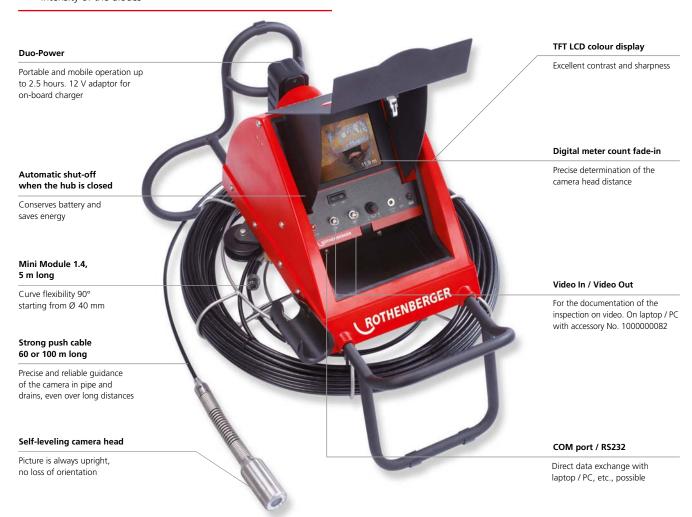
waterproof, with 35 LED lights

Brightness: 666 LUX (0.5 m)
Cable length: 60 or 100 m
Cable diameter: 7.5 mm

Frequency: 33 kHz (optional)

Power supply: NiMH battery 12 V / 3 Ah or Mains operation 100-240 V / 50-60 Hz

starting at 20 kg



#### \*69740 and 69840

Model	Description	$\sqrt[]{\log \lambda}$	<b>a</b>	No.
ROCAM® Plus with meter counter	60 m cable length	20	1	69725
ROCAM® Plus with meter counter	60 m cable length, with PC keyboard and professional drain software	21	1	69740
ROCAM® Plus with meter counter	100 m cable length	25	1	69825
ROCAM® Plus with meter counter	100 m cable length, with PC keyboard and professional drain software	26	1	69840

### **Accessories Inspection Cameras**

### **Rolling Skids**

Recommended for distances from 30 m

#### APPLICATION AREA

Rolling skids RS40/150 for pipe diameters Ø 150 - 200 mm Rolling skids RS40/200 for pipe diameters Ø 200 - 300 mm

#### **KEY FEATURES**

- Optimized view of the pipe section
- Less pushing resistance with the fully rubberized wheels



Model	$\Delta_{g}\Delta$		No.
For camera heads Ø 40 mm:			
Rolling skids Ø 150 mm	700	1	69118
Rolling skids Ø 200 mm	700	1	69119

#### **Brush Attachments**

To improve the overview in pipes from Ø 100 - 200 mm

#### **APPLICATION AREA**

Brush attachment  $\it \varnothing$  100 for use in pipe  $\it \varnothing$  100 - 150 mm Brush attachment  $\it \varnothing$  150 for use in pipe  $\it \varnothing$  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 attachement spiral feather (rear) Brush attachement camera head (front)

\*Use with guide skid No. 69112 / 1500000817

Model	∑ g ∆		No.
Brush attachment Ø 100*	200	1	69113
Brush attachment Ø 150*	300	1	69117

# Rolling Skids ROCAM® 3 Multimedia and ROCAM® Plus

For centring of the camera head in pipes for a better overview and illumination

#### **APPLICATION AREA**

Guide skid for pipe diameters Ø 70 - 150 mm Guide skid with brush attachment for pipe diameters Ø 70 - 200 mm

#### **KEY FEATURES**

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens





No. 69112 / 1500000817

No. 69111 / 1500000120

Model	ΔgΔ		No.
For camera heads Ø 30 mm:			
Guide skid for Ø 150 mm	200	1	1500000120
Guide skid for brush attachments	200	1	1500000817
For camera heads ø 40 mm:			
Guide skid for ø 200 mm	200	1	69111
Guide skid for brush attachments	200	1	69112

### Battery and Charger ROCAM® 3 Multimedia and ROCAM® Plus

#### **KEY FEATURES**

- Extend the mobile operation spare battery
- No unintentional release of the battery, battery lock with click mechanism
- External battery charger, independent charging of the battery, higher mobility

#### **TECHNICAL DATA**

Battery:12 V / 3 or 6 Ah NiMhRunning time:up to 2.5 hoursCharger / charging time:12 V / 1-1.5 Std.





No. 69570

No. 69575

Model	$\sqrt[]{g}$		No.
ROCAM® Plus NiMH battery 12 V / 3 Ah	800	1	69570
ROCAM® Plus charger 12 V	750	1	69575
ROCAM® 3 M. NiMH battery 12 V / 6 Ah	800	1	1500000121







# Flushing & Pipe Cleaning

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### **Flushing**

#### **ROPULS Flushing Compressor**

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

### 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

Large LED display for flow rate amounts and metering impulse, membrane keyboard with program selection keys





#### **TECHNICAL DATA**

Pipe connection:

Max. pipe diameter:

DN 50 / 2"

Max. flow rate:

5 m / h

7 bar

Max. water pressure:

Max. water temperature:

Safety class:

Oil deposition rate:

P 22

99.9%

**Particle retention rate:** 0,3 μm compressor

Max. operating pressure:8 barMotor rating:1.5 kWPower supply:230 V - 50 HzDimensions (H x W x D):630 x 380 x 340 mm



Ideal for removing deposits from floor heating!

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

Description	$\Delta_{kg}\Delta$	No.
ROPULS flushing compressor with hoses	28	1000000145



#### **ROPULS ROCLEAN®**

On the water access side of the ROPULS flush compressor is a pressure regulator. This holds the pressure of the fresh water supply at constantly 2 bar and guarantees a constant metered dose. The ROCLEAN® injector is attached to the water exit side. The injector constantly meters the bottle contents and safeguards the system being clean

ROCLEAN® injector with compressed air hose



Pressure regulator 2 bar





### **Cleaning and Preservation with ROPULS ROCLEAN®**

## Cleaning chemicals for radiator heating systems



For cleaning incrustations and tough deposits. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



## Cleaning chemicals for surface heating systems



For cleaning of deposits and bio films. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



#### Preservative for radiators and surface heating systems



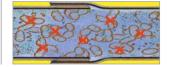
Maintains the cleaned condition and protects the system. One bottle is sufficient for 100 I system volume.



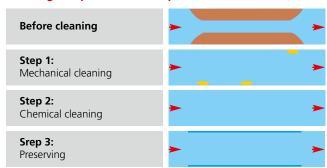
## Disinfection of drinking water systems



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



#### Cleaning and preservation steps:



Description	Colour Code	$\sqrt[]{\log \lambda}$		No.
ROCLEAN® injector		1.1	1	1000000190
Pressure regulator 2 bar		0.3	1	1500000203
Chemical cleaning:				
- Radiator heating syste	ms 🛑	6.3	6	1500000200
- Surface heating systen	ns 🛑	6.3	6	1500000201
Preservative	•	6.3	6	1500000202
Disinfection		6.3	6	1500000157

#### **ROCAL 20 / ROMATIC 20**

Decalcifying pump with flow direction change

# 230 V

#### **RANGE OF USE**

For the quick decalcifying of heat exchangers, water pipes, water tanks, heat and cooling systems

**Product Profile** 

#### **KEY FEATURES**

- With the help of the flow reversal (change of the direction of flow) even very hard calcifications and deposits can be loosed
- 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

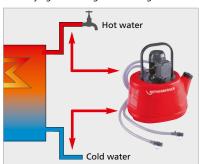
#### **TECHNICAL DATA**

Connection: R 1/2" Tank volume: 15 l Power supply: 230 V 50 Hz 150 Watt Motor rating: Volume flow: 40 I / min. Delivery height: 10 m

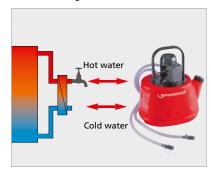




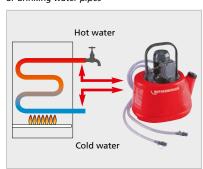
Decalcifying of drinking water storage tanks



Decalcifying of fresh water stations and exter-



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	$\Delta_{kg} \Delta$		No.
ROCAL 20	6	1	61100
ROMATIC 20	6	1	61190

#### **ROCAL Acid Multi / Plus**

Decalcifying chemical for use with ROCAL 20, **ROMATIC 20** 

#### **RANGE OF USE**

#### **ROCAL Acid Multi**

For the safe decalcification of all common\* 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

\*please see table below









	ROCAL Acid Multi	<b>ROCAL Acid Plus</b>
Copper	•	•
Steel	•	
Stainless steel	•	0
Aluminium	•	0
Brase	•	0
Plastic	•	0

suitable Ounsuitable

#### **Neutralizer Powder**

**Neutralizes ROCAL Acid Plus / ROCAL Acid Multi** 

#### **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.

- 30 g per 1 l of water
- 300 g per 10 l of water







No. 61115

No. 61120

Description	$\sqrt[]{\log \Delta}$		No.
ROCAL Acid Multi	5	1 4	1500000115
ROCAL Acid Multi	10	1 2	1500000116
ROCAL Acid Multi	30	1	1500000117
ROCAL Acid Plus	5	1 4	61105
ROCAL Acid Plus	10	1 2	61106
ROCAL Acid Plus	25	1	1500000914
Neutralizer powder	1	1 5	61115
Neutralizer powder	10	1 2	61120

#### **ROSOLAR PUMP / ROSOLAR PUMP PLUS**

#### Solar filling pump

#### **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 (  $H \times B \times T$  ): 49 x 51 x 76 cm

**Container volumes:** 30 l

Hoses: Length: 2 x 3 m Connections: 1/2"

Heat resistant: up to 100°C

Description No.

ROSOLAR PUMP (with centrifugal pump) 1500000135 ROSOLAR PUMP PLUS (with impeller pump) 1500000136

#### Height-adjustable telescopic grip (76 - 110 cm)



## **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

Quick - Compact - Handy!

#### **KEY FEATURES**

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

#### Single-cast main body

Withstands the heaviest loads



Flexible, in all directions

**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!

Adaptor long

No. 72073

No. 72071

Model	$\sqrt[]{\log \Delta}$			No.
ROPUMP® SUPER PLUS	2.00	1	4	072070X
with 2 Adaptors (long, short)				
Adaptor long	0.66	1		72071
Adaptor short	0.16	1		72072
Adaptor wide	0.40	1		72073

#### Short adaptor



Long adaptor



#### **ROPUMP®**

Force pump cleaner according to the airpump principle with water pressure Various areas of application Dissolves obstructions in drains, basins, showers, bathtubs, etc.

### **Product Profile KEY FEATURES** Small and handy Compact and effective $\Delta g \Delta$ Model No. ROPUMP® with flexible socket 500 71991

#### **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



Model	$\sqrt[]{\log \Delta}$			No.
ROSPI® 6 H+E Plus 4.5 m ROSPI® 8 H+E Plus 7.5 m ROSPI® 10 H+E Plus 10.0 m For spare spirals see 229	3.5	1	2	72090 72095 72005

#### Manual operation



### 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)

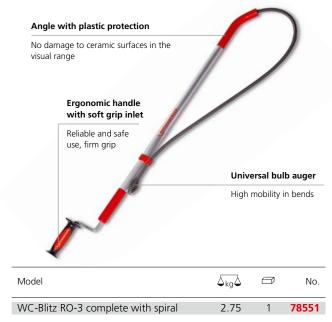
Model	$\Delta_{kg}\Delta$		No.	
ROPOWER® HANDY complete	1.7	1	71975	
ACCESSORIES				
Manual crank	0.4	1	71976	
ROPOWER® PROFILE CABLE w/o plastic core	1.2	1	72494	

#### **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



### 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



Model	$\sqrt[]{\log \Delta}$		No.
Manual drain cleaner Type 3 S, complete Spare spiral Ø 13 mm x 15 m	17.50 7.00	1	72003 72016
Cross-blade cutter Ø 35 mm	0.04	1	72176
Separating pin  Further Ø 16 mm tools can be found on	0.01	1	72100

#### ROSPI® R 36 Plus





Electrical drain cleaning unit, batterypowered or standard, Ø 20 - 75 mm

Ideal for small jobs in the kitchen, bathroom or toilet

#### **KEY FEATURES**

- Clean use and sturdy construction Closed plastic container for spiral, impact-resistant and
- Safe grip and operation even at high speed Extra long handle with soft grip inlay



Model	$\Delta_{kg}\Delta$		No.
ROSPI® R 36 Plus 18 V battery version	6.6	1	72520
Spare high-performance battery	0.7	1	72516
ROSPI® R 36 Plus standard version	4.7	1	72525
Battery charger unit + AC adaptor	1.0	1	72513
For spare spirals see 229			

### **Pipe Cleaning Electric**

#### **ROSPIMATIC**

#### Electrical pipe and drain cleaning machine up to Ø 50 mm

Powerful and quick removal of tough obstructions in access lines with the one-of-a kind spiral forward and reverse system without changing the rotational direction

#### **Product Profile**

#### **KEY FEATURES**

- Switch between forward and reverse under full-load without the need to change the motor rotational direction is possible, which makes obstruction removal faster
- The spiral drive can be combined with 3 different cleaning tools, more efficient operation
- Spiral locking mechanism with torque control enables an optimal reverse of the spiral
- Enclosed spiral container prevents contamination by reversal of the spiral
- The flexible ceramic protective hose prevents unwanted damage and scratches on high-quality ceramic

#### **TECHNICAL DATA**

Application range: 20 - 50 mm

Spiral with inner-core &

**Bulb auger:** Ø 8 mm x 7.5 m **Dimensions (without spiral):** 560 x 200 x 320 mm

Weight (with 8 mm spiral): 5 kg Rating: 630 W Speed: 0 - 950 min-1

#### Closed plastic spiral container

Protects the surrounding from dirt





With bulb-auger



With coupling for various tools

(accessories, retrofitable)



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	78576
Spiral 8 mm / 7.5 m with steel core	1	72413
Spiral 8 mm / 7.5 m with coupling and core	1	72425
Tool set (4 piece)	1	72942
ROSPIMATIC protective hose with cover	1	72542

#### Fast removal of obstructions



For additional accessories see 218



## **Pipe Cleaning Electric**

### **Powerful ROTHENBERGER Portable Machines for the Professional**









#### **Product Profile**

#### **SYSTEM CHARACTERISTICS FOR ALL PORTABLE MACHINES**

#### R 550, R 600, R 650, R 750

- Easy to transport, ideal for mobile use
- Safe and kink-free guidance of the spiral, clean use
- Stable, torsion-resistant and optimised weight
- Robust and light

#### CENTRE-LOCK

jaw clamp system



## **Flushing & Pipe Cleaning**

## **Pipe Cleaning Electric**

Type of pipe	Connecting pipes	Distributing main connecting pipes	Down connecting pipes	Mains pipes	Municipal pipe network
Spiral Range of use	Ø 8 mm up to DN 50	Ø 10 mm up to DN 75	Ø 16 mm up to DN 100	Ø 22 mm up to DN 150	Ø 32 mm up to DN 200
R 550	•	•	0	-	-
R 600	•	•	0	0	_
R 650	•	•	0	0	_
R 750	_	_	•	0	0

O Direct attachment • Adaptor magazine/collet



#### **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**

For pipe diameters: Ø 20 - 100 mm

Direct attachment: Ø 16 mm spirals

With adaptor magazine: Ø 8 mm and 10 mm

**Max. working length:** 40 m with Ø 16 mm S-spirals

10 m with Ø 8 and 10 mm spirals

 Rating:
 440 W (Power input)

 Voltage:
 230 / 110 / 115 V, 50 Hz

 Speed:
 583 min-1, RH and LH drive

Weight: 16.0 kg



Model	$\sqrt[]{\log \Delta}$	230 V	110/115 V
R 550 including guide hose	16.0	72686	72631
Tool sets and accessories starting on	218		

# Dra For mui



Model	$\Delta_{kg}\Delta$	230 V	110/115 V		
R 600 including guide hose	20.9	72687	72632		
Tool sets and accessories starting on 218					

#### **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

For pipe diameters: Ø 20 - 150 mm With direct attachment: Ø 22 and 16 mm spirals

With adaptor magazine: Ø 8 und 10 mm

**Max. working length:** 60 m with Ø 22 mm S-spirals 50 m with Ø 16 mm S-spirals

50 m with  $\emptyset$  16 mm S-spirals 10 m with  $\emptyset$  8 and 10 mm spirals

 Rating:
 690 W (Power input)

 Voltage:
 230 / 110 / 115 V, 50 Hz

 Speed:
 467 min-1, RH and LH drive

Weight: 20.9 kg

# Please pay attention to system characteristics / advantages on pages 216/217

#### R 650

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### **Product Profile**

#### **APPLICATION AREA**

Perfectly suited for rough use and in extreme working conditions: Quiet operation and powerful cleaning action, even when cutting through roots or grinding out cement and lime deposits

#### **KEY FEATURES**

- Dual motor performance (cp. R 600)\*
- Flexible with drive lever that can be fitted on the side
- Direct up take of 22 mm and 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 65 m, with Ø 22 mm S-spiral

#### **TECHNICAL DATA**

For pipe diameters: Ø 20 - 150 mm

Direct attachment: Ø 22 und 16 mm spirals

With adaptor magazine: Ø 8 mm and 10 mm

Max. working length: 65 m with Ø 22 mm S-spirals

55 m with  $\varnothing$  16 mm S-spirals 10 m with  $\varnothing$  8 and 10 mm spirals

 Rating:
 1,350 W (Power input)

 Voltage:
 230 / 110 / 115 V, 50 Hz

 Speed:
 623 min<sup>-1</sup>, RH and LH drive

Weight: 22.8 kg



Model	$\sqrt[]{\log \Delta}$	230 V	110/115 V		
R 650 including guide hose	22.8	72688	72633		
Tool sets and accessories starting on 218					

#### **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**

Rating:

Voltage: Speed:

For pipe diameters: Ø 20 - 200 mm

With direct attachment: Ø 32 and 22 mm spirals

With clutch jaw: Ø 16 mm

**Max. working length:** 80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals

55 m with Ø 16 mm S-spirals 1,400 W (Power input) 230 / 110 / 115 V, 50 Hz 467 min<sup>-1</sup>, RH and LH drive

Weight: 33.5 kg



Model	$\sqrt[]{\log \Delta}$	230 V	110/115 V	
R 750 including guide hose	33.5	72689	72634	
Tool sets and accessories starting on 218				

#### **ROSPEED 3F**

High-performance pipe cleaning innovation for pipes Ø 50 - 125 mm, automatic spiral feed. Ideal for use inside buildings

### **Product Profile**

#### **APPLICATION AREA**

By return of the spiral, the pipe contamination stays in the drum unlike the 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:
  - 1. Scrubbing
  - 2. Pulsating
  - 3. Final cleaning
- Simple cleaning of the drum with, for example, a steam cleaner

#### **TECHNICAL DATA**

For pipe diameters: Ø 50 - 125 mm With direct attachment: Ø 16 mm

Max. working length: 15 m up to 30 m expandable

Rating: 250 W 270 - 340 min-1, Speed: 3 Step adjustable

Weight: 47.5 kg



Clear and easy control of the 3 cleaning functions



parallel layer winding, remains balanced

Clamping mechanism with T-groove coupling

For secure lengthening or shortening of the spiral



ATC- Automatic Torque Control -One-of-a-kind automatic rpm control protects spiral and motor!

#### Toolbox is included in delivery

Immediately ready-to use

#### Stainless steel grip

Easy to extend and pack away

Cleaning plug on the back side of the drum

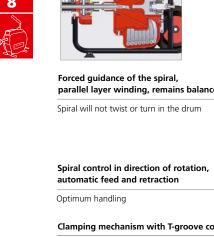
Easy cleaning of the drum

#### With 6 professional tools to get started

- Straight Auger
- Bulb Auger
- Retrieving Auger
- Chain-spinning Head
- Cross-blade cutter, serrated
- Spiral Sawtooth Cutter

Set (No. 72960) for Standard 16 mm includes: Basic machine, straight auger (No. 72161), bulb auger (No. 72163), retrieving auger (No. 72162), chain-spinning head (No. 072185F), cross-blade cutter, serrated (No. 72176), spiral sawtooth cutter (No. 72166), separating pin (No. 72100), guide hose (No. 72540), ROWONAL spray (No. 72142), plastic carrying case

Model	$\sqrt[4]{\log \lambda}$	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
ROSPEED 3F (230 V) with additional	62.5 1	19077
spiral and basket		





Included in delivery

### **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**

For pipe diameters: Ø 50 - 250 mm For drain cleaning spirals: Ø 22 and 32 mm

Max. working length:80 m with Ø 32 mm S-spirals70 m with Ø 22 mm S-spirals

Rating: 1.4 kW (1.9 HP) RH / LH rotation

Weight: 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,  $\frac{1}{2}$ 

Model	$\sqrt[4]{\log \Delta}$	230 V / 50 Hz
R 80 basic machine	52.0	72585

#### **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

For pipe diameters: Ø 50 - 250 mm For drain cleaning spirals: Ø 22 and 32 mm

**Max. working length:** 100 m with Ø 32 mm S-spirals

70 m with Ø 22 mm S-spirals 1.4 kW (1.9 HP) RH / LH rotation

Weight: 57 kg



Includes: Basic machine, grease gun (No. 855156), Allen key (No. 321515), open-ended spanners (No. 310450)

Model	$\Delta_{kg}\Delta$	230 V / 50 Hz
R 100 SP basic machine	57.0	72610

#### R 140 B

Rating:

#### 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

For pipe diameters: Ø 100 - 600 mm For drain cleaning spirals: Ø 32 mm For rods: Ø 6 mm, 3/4"

Max. working length: 100 m with 32 mm-spirals

140 m with rod

**Rating:** 4.8 kW (6.6 HPS), petrol engine

**Motor:** RH / LH rotation **2 gear reversible drive speed:** 160 - 600 min<sup>-1</sup>

Weight: 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. 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 new (No. 72350), forked cutter Ø 85 (No. 72781), forked cutter Ø 112 (No. 72782), tool box (No. FF60185), operating instructions (machine, motor, gears)

Model	$\sqrt[]{k_{ m g}}$	No.
R 140 B basic machine	97.00	72970
R 140 B with rod and to	ool set 108.50	72971

## **Accessories Pipe Cleaning Electric**





No. 72538

No. 72536



No. 72638





No. 72563

#### **Clutch Jaws**

For machine type	For spirals Ø	$\sqrt[4]{\log \Delta}$	No.
R 550			
(from Serial No. 411542)	16 mm	0.1	72538
(up to Serial No. 411541)	16 mm	0.1	72536
R 600/650			
(from Serial No. 409001)	16 and 22 mm	0.3	72638
(up to Serial No. 409000)	16 and 22 mm	0.3	72666
R 750	22 and 32 mm	0.4	72563
R 80/100 SP	22 mm	0.4	72561
R 80/100 SP	32 mm	0.3	72562







#### **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 $\emptyset$	max. spiral length	$\Delta_{kg}\Delta$	No.
R 550	8 and 10 mm	10 m	1.3	72511
R 600/650	8 mm	10 m	1.8	72514
R 600/650	10 mm	10 m	1.8	72515



#### **Clutch Jaws for R 750**

For machine type	For spirals $\varnothing$	$\sqrt[]{\log \Delta}$	No.
R 750	16 mm	0.3	72915



Ensures safe, kink-free spiral feed





With precision quick coupling

#### **Spiral Guide Hoses**

Prevents contamination and damage

Model	For machine type	For spirals Ø	length	$\sqrt{\log \Delta}$	No.
FS 16	R 550/ROSPEED 3F	16 mm	2 m	1.1	72540
FS 22	R 600/650	22 mm	4 m	2.8	72541
FS 32	R 750/80/100 SP	32 mm	4 m	4.1	72559



#### **Ceramic Protection Hose**

- For the protection of ceramic
- With adjustable holding clamp

For spirals	length	$\Delta_{kg}\Delta$	No.
Ø 8, 10, 16 mm	540 mm	0.4	72705



#### **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	$\sqrt[]{\log \Delta}$	No.
R 550 - R 600 - R 650 - R 750	3.0	58182

### **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	$\sqrt{\log \Delta}$	No.
Spiral Retrieving Device	3.7	72135



#### **Telescoping Guide Tubes**

 No twisting: For safe spiral guidance in manholes and manhole covers

Description	Extended length	n m Type	$\sqrt[]{\log \Delta}$	No.
For spirals Ø 16, 22 mm For spirals Ø 22, 32 mm		2 pieces 3 pieces		72130 72131





#### **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



Description	∆ <sub>g</sub> ∆	No.
Guide Gloves left, leather Guide Gloves right, leather	190 190	72120 72121
Guide Gloves (pair), rubber	160	1500000439

#### **ROWONAL Care and Rust Remover**

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal and disinfection







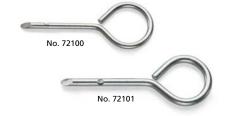
,		
4	No.	72140

Description	Contents	∑g ∆	No.
Spray can	0.2	220	72142
Plastic canister	5.0 l	5,100	72140
Manual sprayer, empty	0.5 l	90	72141

#### Separating Pin

• For disconnecting spirals and spiral tools

Model	$\Delta_g \Delta$	No.
For spirals / tools with Ø 16 mm	20	72100
For spirals / tools with Ø 22 and 32 mm	30	72101
For spirals / tools with Ø 8 mm	15	72102



#### **Spiral Baskets**

- Safe storage combined with convenient transport
- Perfectly suited for cleaning and preservation

Model	Spiral length max.	$\Delta_{kg}\Delta$	No.
For spirals / tools with Ø 16 mm	34.5 m	1.3	72110
For spirals / tools with Ø 22 mm For spirals / tools with Ø 22, 32 m	22.5 m nm 22.5 m	1.6 2.3	72112 72111





## **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



#### Sufficient connecting coil

Spare couplings can be mounted easily



Flexible, depending on use

Simple coupling of spirals and tools

Insertion taper



#### 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	•	0	0	0
SMK-Spiral	•	0	•	0
S-Spiral	0	•	0	0
S-SMK-Spiral	0	•	•	0
ROPOWER PROFILE	0	•	•	•

O not suitable

suitable



### **Pipe Cleaning Spirals**

#### **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



**50% more cleaning power** when used with the spiral tools

<b>►</b> mm	Core	<b>▶</b> ○ <b>◄</b> inch	<b>L</b> m	$\sqrt[]{\log \Delta}$	No.	
16	•	5/8"	2.3	1.3	72490	
Safety T-groove couplings can be found on 229						

#### **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**

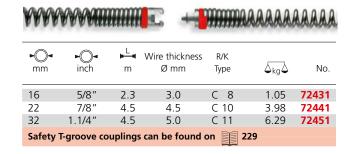
- Self locking connection of spiral and coupling: With increased stress on the spiral, the torque pressure on the spiral end is increased and is transferred with 100% surface coverage onto the coupling.
- Safety ring made out of flexible and self-binding material: With increased stress the ring will 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





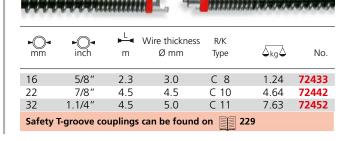
#### **Standard Spirals**

 Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



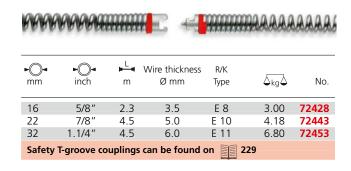
#### **SMK-Spirals**

- 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



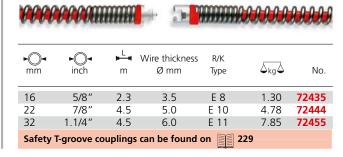
#### S-Spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling



#### 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



### Flushing & Pipe Cleaning

### **Drain Cleaning Tools**

# With Lock Ring!

#### **Examples of Use**

#### Tool expertise from ROTHENBERGER

Application areas for ROTHENBERGER high-performance drain cleaning tools with T-groove secure couplings

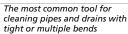
#### Suitable for all ROTHENBERGER drain cleaning spirals with

- 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**









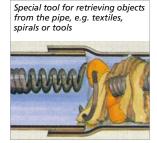
#### **Retrieving Auger**



### **Cross-blade Cutter, serrated**











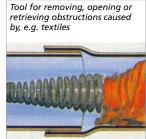
#### **Funnel Auger**



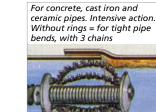












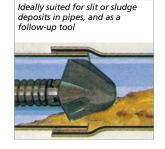




### **Carbide-tipped Cutters**

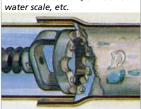












### **Spiral Sawtooth Cutter**

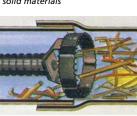


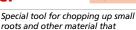




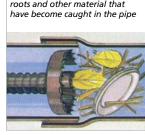
**Two-way Root Cutter** 

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	<b>►</b> mm	<del>L</del> mm	Working range mm	$\sqrt{g}$	No.
16 / 5/8"	28	500	40 - 75	220	72158
22 / 7/8"	40	500	50 - 100	464	72208
32 / 1.1/4"	50	500	75 - 250	818	72323

#### **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	mm	Working range mm	ΔgΔ	No.
16 / 5/8"	16	110	40 - 75	60	72161
22 / 7/8"	22	210	75 - 100	170	72221
32 / 1.1/4"	32	220	100 - 250	350	72321

#### **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	<b>▶</b> mm	<mark>L</mark> mm	Working range mm	ΔgΔ	No.
16 / 5/8"	32	110	50 - 100	80	72165
22 / 7/8"	55	185	110 - 150	280	72222
32 / 1.1/4"	60	195	100 - 250	500	72322

#### **Bulb Auger, short**

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions



Coupling mm / inch	<b>►</b> mm	<mark>⊩_</mark> mm	Working range mm	∆g ∆	No.
16 / 5/8"	28	115	40 - 75	70	72163
22 / 7/8"	40	180	75 - 100	220	72263
32 / 1.1/4"	50	220	75 - 250	490	72363

#### **Retrieving Auger**

 Special tool designed with a claw for retrieving textiles, tools, spirals, etc.



Coupling mm / inch	<b>►</b> mm	mm	Working range mm	√g Å	No.
16 / 5/8"	35	55	50 - 75	35	72162
22 / 7/8"	45	100	75 - 150	110	72203
32 / 1.1/4"	65	125	75 - 250	240	72325

#### **Drop-head Auger**

• Ideal for particularly tight pipe bends, branches and small-diameter drain downpipes



Coupling mm / inch	mm	<b>L</b> mm	Working range mm	ΔgΔ	No.
16 / 5/8"	24	83	50 - 75	60	72159
22 / 7/8"	37	125	60 - 100	180	72264

#### Hardened spring steel blades!



#### **Four-blade Cutter**

- For cutting through and removing tough obstructions
- For the removal of sludge deposits
- Ideal with S-spirals

Coupling mm / inch	<b>►</b> O	<b>L</b> mm	Working range mm	ΔgΔ	No.
16 / 5/8"	40	40	50 - 75	30	72154
16 / 5/8"	30	40	50 - 75	20	72164



#### **Grease Cutter**

Coupling mm / inch	<b>►</b> ○ <b>▼</b> mm	<mark>⊩ L</mark> ⊲ mm	Working range mm	ΔgΔ	No.
16 / 5/8"	25	35	40 - 75	30	72169
16 / 5/8"	35	45	50 - 75	40	72170
16 / 5/8"	45	56	60 - 100	50	72171
22 / 7/8"	45	60	60 - 125	80	72234



#### **Spade Head Cutter**

Curved special tool for silt and sludge deposits

Coupling mm / inch	<b>►</b> mm	<mark>⊩ L ⊲</mark> mm	Working range mm	ΔgΔ	No.
22 / 7/8"	65	65	100 - 150	150	<b>72261 72360</b>
32 / 1.1/4"	65	70	100 - 150	250	



#### **Spiral Sawtooth Cutter**

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

Coupling mm / inch	mm	<mark>⊩</mark> mm	Working range mm	ΔgΔ	No.
16 / 5/8"	35	25	50 - 75	40	72166
22 / 7/8"	45	40	75 - 100	100	72229
32 / 1.1/4"	65	55	75 - 100	210	72329

- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK spirals!



#### **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	<b>►</b> ○	<mark>⊩ L</mark> mm	Working range mm	∑g ∆	No.
16 / 5/8"	25	35	50 - 75	30	72175
16 / 5/8"	35	45	50 - 75	40	72176
16 / 5/8"	45	56	75 - 100	65	72177
16 / 5/8"	55	60	100 - 125	80	72178
22 / 7/8"	45	60	100 - 125	90	72275
22 / 7/8"	65	60	100 - 150	190	72276
22 / 7/8"	75	80	100 - 150	220	72277
32 / 1.1/4"	45	60	100 - 125	140	72374
32 / 1.1/4"	65	70	100 - 150	260	72375
32 / 1.1/4"	90	100	125 - 200	490	72376
32 / 1.1/4"	115	120	150 - 250	640	72377

#### **Chain-spinning Heads**

Without ring, with smooth chain

#### **KEY FEATURES**

Coupling mm / inch

16 / 5/8"

16 / 5/8"

22 / 7/8"

16 / 5/8"

22 / 7/8"

- For cleaning greasy and incrusted pipes
- Surface-preserving cleaning or ceramic and plastic pipes

Chain-spinning Heads without ring and without spikes

Working range

50 - 125

100 - 125

100 - 150

60 - 125

80 - 130

∆ g ∆

160

530

270

710

No.

72185

72284

72187

72289

120 **072185F** 

• Without ring: improved manoeuvrability in bends



No. 72284

## Improved mobility!



### **Chain-spinning Heads with Spikes**

155

170

#### **KEY FEATURES**

Intensive cleaning action

Without ring, with 2 chains

Without ring, with 4 chains

30

30

50

40

60

- 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



Better alignment in horizontal pipe position!

Ideal for final cleaning!

#### Chain-spinning Heads with ring and spikes

Coupling mm / inch	mm	mm	Working range mm	Δgδ	No.
16 / 5/8"	30	160	70 - 125	320	72182
22 / 7/8"	65	170	100 - 125	1,060	72285
22 / 7/8"	75	170	100 - 150	1,110	72286
32 / 1.1/4"	75	220	100 - 125	1.700	72341

#### Without ring, with 2 or 4 chains and spikes

Coupling mm / inch	mm	Morking range mm mm mm		√ <sub>g</sub> ∆	No.			
Without ring,	with 2 ch	ains						
16 / 5/8"	30	155	50 - 125	160	72186			
22 / 7/8"	50	170	100 - 150	860	72278			
32 / 1.1/4"	70	220	100 - 150	1,350	72347			
Without ring,	with 4 ch	ains						
16 / 5/8"	40	155	75 - 125	280	72188			
22 / 7/8"	60	170	100 - 150	880	72299			
32 / 1.1/4"	80	220	100 - 200	1,460	72348			



No. 72278



No. 72188



#### **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	$\Delta_g \Delta$	No.
16 / 5/8"	25	straight	35 - 50	70	72191
16 / 5/8"	30	straight	50 - 75	80	72193
22 / 7/8"	30	straight	50 - 75	90	72291
22 / 7/8"	45	pointed	60 - 100	320	72295
32 / 1.1/4"	45	straight	60 - 100	240	72392
32 / 1.1/4"	55	pointed	70 - 100	400	72396
32 / 1.1/4"	80	straight	100 - 200	530	72398

#### **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	<mark>⊢∟</mark> mm	Working range mm	∑ <sub>g</sub> ∆	No.
22 / 7/8"	76	100	100 - 150	230	72250
22 / 7/8"	100	100	125 - 150		72251
32 / 1.1/4"	76	100	120 - 200	260	72350
32 / 1.1/4"	100	100	125 - 200		72351
Spare blade	76	-	-	90	72258
Spare blade	100	-	-	120	72259

### **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	72265
22 / 7/8"	90	85	125 - 200	290	72266
32 / 1.1/4"	65	80	100 - 125	290	72365
32 / 1.1/4"	90	90	125 - 200	330	72366
32 / 1.1/4"	150	130	200 - 300	550	72367
Spare cutter	65	-	-	120	72270
Spare cutter	90	-	-	150	72271

#### **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.
4 Blade				
16 / 5/8"	50 - 75	25	42	72168
16 / 5/8"	50 - 75	35	80	72172
16 / 5/8"	75 - 100	55	144	72173
22 / 7/8"	100 - 125	35	126	72207
22 / 7/8"	100 - 125	55	198	72223
22 / 7/8"	100 - 150	75	438	72224
22 / 7/8"	100 - 150	95	634	72226
32 / 1.1/4"	100 - 125	55	228	72324
32 / 1.1/4"	100 - 150	75	468	72326
8 Blade				
22 / 7/8"	125 - 150	90	1025	72227
22 / 7/8"	125 - 150	115	1225	72228
32 / 1.1/4"	125 - 200	95	1108	72327
32 / 1.1/4"	150 - 200	115	1256	72328



#### **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 ( $\overline{No}$ . 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) 72936



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), chainspinning 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) 72938



Set (No. 72940) includes: PVC-case (No. 55016), separating key 22 mm (No. 72101), retrieving auger 32 mm (No. 72325), serrated forked cutter 32 mm (No. 72350), bulb auger 32 mm (No. 72363), two-way root cutter 32/90 mm (No. 72366), cross-blade cutter 32/45 mm (No. 72374), cross-blade cutter 32/90 mm (No. 72376), chain-spinning heads 32 mm with 2 chains with spikes (No. 72347), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model No.

32 mm Tool Set L (R 750) 72940

#### **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), crossblade cutter 16 mm (No. 72175)

Model No.

16 mm Tool Set S (R 550, R 600, R 650) 72937

#### **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.

72939 22 mm Tool Set S (R 600, R 650, R 750)

#### **Tool Set S**

Ø 32 mm, 4 pieces







Set (No. 72941) includes: Separating key 22 mm (No. 72101), straight auger 32 mm (No. 72321), bulb auger 32 mm (No. 72363), cross-blade cutter 32 mm (No. 72375)

No.

32 mm Tool Set S (R 750) 72941

#### Spiral Sets

5 x 16 mm spiral in basket (5 spirals á 2.3 m)

5 x 22 mm spiral in basket (5 spirals á 4.5 m)

4 x 32 mm spiral in basket (4 spirals á 4.5 m)



Model	R 550	R600	R650	R750		No.
16 mm Standard	0	0	0	•	1	72060
16 mm SMK	0	0	0	•	1	72061
16 mm S	0	0	0		1	72062
16 mm S-SMK	0	0	0	•	1	72063
22 mm Standard	-	0	0	0	1	72040
22 mm SMK	-	0	0	0	1	72041
22 mm S	-	0	0	0	1	72042
22 mm S-SMK	-	0	0	0	1	72043
32 mm Standard	-	-	-	0	1	72530
32 mm SMK	-	-	-	0	1	72531
32 mm S	-	-	-	0	1	72532
32 mm S-SMK ○ = direct attachn	- nent •	- = with	- n clutch <sub>.</sub>	jaw	1	72533

# With Lock Ring! Plus

#### **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	$\Delta_{kg}\Delta$	No.
Standard 16 mm	with standard spirals	12.0	072945X







Set (No. 072956X) includes: Spiral basket 16 mm (No. 72110),  $5 \times 16$  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),  $5 \times 22$  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	$\Delta_{kg}\Delta$	No.
Standard 16-22 mm SMK 16-22 mm	with standard spirals with SMK spirals		072956X 072967X

#### **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	$\Delta_{kg}\Delta$	No.
Standard 22 mm	with standard spirals	24.0	072955X

### **Spiral and Tool Sets**

Standard Ø 32 mm









Set (No. 072962X) includes: Spiral basket 32 mm (No. 72111),  $5 \times 32$  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	$\Delta_{kg}\Delta$	No.
Standard 32 mm	with standard spirals	37.0	072962X

### **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 stench tap

mm	Wire Ø	Length	Туре	Steel core	Use for for ROSPI®	$\sqrt[b]{\log \Delta}$	No.
6.4	2 mm	4.5	-	-	R 6	0.8	72522
8	2 mm	7.5	C 1	-	R 8-R36	1.8	72412
8	2 mm	7.5	C 1 - IC		R 8-R36	2.3	72413
8	2 mm	10.0	-	-	R 8-R36	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 *with	2.5 mm T-groove	7.5 couplin	- g	•	R 10 - R 36	2.9	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	Δgδ	No.
Extension piece	16 mm	22 mm	140	<b>72461 72460</b>
Reducing piece	22 mm	16 mm	150	
Extension piece	22 mm	32 mm	320	72463
Reducing piece	32 mm	22 mm	330	72462

#### Extension piece



No. 72460	

Reducing piece

### **Safety T-Couplings**

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
positive 20 72150 40 72210 100 72310 negative 20 72151 40 72211 100 72311 for S and S SMK spirals positive 20 72152 40 72212 100 72312 negative 20 72153 40 72213 100 72313 for ROPOWER profile cable positive 20 72156 40 100	Description	∑ <sub>g</sub> ∆		$\sqrt{g}$		ΔgΔ	32 mm 7/8"
negative     20     72151     40     72211     100     72311       for S and S SMK spirals     positive     20     72152     40     72212     100     72312       negative     20     72153     40     72213     100     72313       for ROPOWER profile cable       positive     20     72156     40     100	for Standa	ard and S	MK spirals				
for S and S SMK spirals           positive         20         72152         40         72212         100         72312           negative         20         72153         40         72213         100         72313           for ROPOWER profile cable           positive         20         72156         40         100	positive	20	72150	40	72210	100	72310
positive 20 <b>72152</b> 40 <b>72212</b> 100 <b>72312</b> negative 20 <b>72153</b> 40 <b>72213</b> 100 <b>72313 for ROPOWER profile cable</b> positive 20 <b>72156</b> 40 100	negative	20	72151	40	72211	100	72311
negative 20 <b>72153</b> 40 <b>72213</b> 100 <b>72313 for ROPOWER profile cable</b> positive 20 <b>72156</b> 40 100	for S and	S SMK sp	irals				
for ROPOWER profile cablepositive207215640100	positive	20	72152	40	72212	100	72312
positive 20 <b>72156</b> 40 100	negative	20	72153	40	72213	100	72313
	for ROPO	<b>NER</b> profi	ile cable				
negative 20 <b>72157</b> 40 100	positive	20	72156	40		100	
	negative	20	72157	40		100	

#### For repairing broken spirals!





No. 72210 No. 72211 for S and S SMK spirals



No. 72212 No. 72213

### Flushing & Pipe Cleaning

### **High-Pressure Drain Cleaning**

### **High-Pressure Drain Cleaner**

Soiled pipes are flushed using the high-pressure system with up to 200 bar. At the start of cleaning, a cleaning hose is introduced into the pipe. Water is then flushed through the pipe at a pressure dependant on the level of soiling - until the pipe is completely clean.

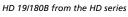
For the removal of the obstructions and possible deposits there are a number of different nozzles that can be used eg. quattro 3-sided nozzle, the rotating nozzle or the grenade nozzle. Working with these special cleaning nozzles, in addition to water pressure, enables a quiet, quick and precise procedure.

Even the hardest incrustations are loosened and flushed away — without the need for chemicals. By controlling the high-pressure unit with the remote control, the operator can continue working without any interruption.

High-pressure cleaning is an efficient and cost-effective solution for obstructions in ground pipes, for soil and rain water as well as for pipes that transport grease, and for the removal of roots. This method is therefore used for land drainage, gutters, courtyard drainage, rainwater downpipes, rainwater canals, etc.



Efficient and cost-effective solution for obstructions in ground pipes!





ROJET® 30/130 from the ROJET® series



ROJET® 40/100 from the ROJET® series



### **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 Ø 40 - 150 mm, max. 20 m HD 13 / 100 for pipe: HD 17 / 190 for pipe: Ø 40 - 200 mm, max. 40 m HD 19 / 180B for pipe: Ø 40 - 200 mm, max. 40 m

#### **HD 11/90**

Self-priming compact unit from Ø 40 - 150 mm up to 20 m length



### Ø 150 mm







#### **Product Profile**

#### **KEY FEATURES**

- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

#### **TECHNICAL DATA**

Max. operating pressure: 90 bar **Electric motor:** AC supply Pump delievery: 11 l/min 1.5 kW Rating: 20 m Max. working length: Speed: 1,400 min-1

Scope of delivery: HD 11 / 90 (No. 76008), 10 m special high-pressure hose with couplings (No. 72810) and pipe cleaning nozzle (No. 76053)

Model 230 V/50 Hz High-pressure pipe cleaning unit HD 11 / 90 29.5 76008

#### **Product Profile**

#### **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 delievery: 13 l/min 2.3 kW Rating: 20 m Max. working length: Speed: 1,400 min-1

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  $\Delta_{\text{kg}}\Delta$ 

High-pressure pipe cleaning unit HD 13/100 76020



190 bar high-pressure cleaner with three-phase motor

Ø 200 mm





#### **Product Profile**

#### **KEY FEATURES**

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

#### **TECHNICAL DATA**

Max. operating pressure: 190 bar Electric motor: Three phase Pump delivery: 17 l/min Rating: 5.0 kW 2,800 min-1 Max. working length: 40 m Speed:

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)

 $\Delta_{kg}\Delta$ 400 V/50 Hz Model

High-pressure pipe cleaning unit HD 17 / 190 50.0

#### **Product Profile**

#### **KEY FEATURES**

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

#### **TECHNICAL DATA**

76070

Max. operating pressure: 180 bar Rating: 8.1 kW Pump delivery: 19 l/min Speed: 1,800 min-1 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  $\sqrt{\log \Delta}$ No. 76090 High-pressure pipe cleaning unit HD 19 / 180 B 78.5

#### Accessories HD 11/90



Model	$\sqrt[]{\log \Delta}$	No.
Flexible, high-pressure hose with R 1/4" coupling,	DN 6	
Length 10 m	2.50	72810
Length 20 m	4.50	72812
Pipe cleaning nozzle, R1/4", stainless steel	0.04	76053
excl. forward jet spray, 4 holes, Ø 25 x 22 mm		
incl. forward jet spray, 5 hole, Ø 25 x 22 mm	0.04	76063
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77503
Cleaning lance with wide-angle nozzle	1.30	76073
for surface cleaning		
Spare wide-angle nozzle	0.01	76082
Injector suction pipe for cleaning agent,	0.05	76067
only for use with cleaning lance, length 1.2 m		
Water suction hose	0.20	76066
for intake from containers, length 3.0 m		

#### Accessories HD 13/100 - 17/190 - 19/180



Model	$\Delta_{kg}\Delta$	No.
Flexible, high-pressure hose with R 1/4" coupling		
Length 10 m, NW 6 (HD 13/100, HD 17/190)	2.50	72810
Length 20 m, NW 6 (HD 13/100, HD 17/190)	4.50	72812
Length 40 m, NW 8 (HD 17/190, HD 19/180 B)	10.70	72820
Pipe cleaning nozzles R1/4", stainless steel	0.04	76089
excl. forward jet spray, 4 hole, Ø 25 x 22 mm		
incl. forward jet spray, 5 holes, Ø 25 x 22 mm	0.04	76065
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77506
Cleaning lance with wide-angle nozzle	1.30	76068
for surface cleaning		
Spare wide-angle nozzle	0.01	76088
Injector suction pipe for cleaning agent	0.05	76067
only for use with cleaning lance, length 1.2 m		
Water suction hose, length 3.0 m	0.20	76066
for intake from containers		

### **High-Pressure Drain Cleaning**

#### **ROJET®**

#### **High-Pressure Cleaning Units**

#### **Professional cleaning units**

Innovative cleaning technology that is established on the market. User-friendly construction with an optimum ratio between power density and operational pressure for the best cleaning results. Available in many variations and versions

#### **KEY FEATURES**

- Suitable for mounting in or on different vehicle types Free vehicle choice
- Prevents the pump from over speeding Speed limiting
- Drain cleaning for pipe diameters from 40 mm Mobile hose reel for small pipe diameters available
- Independent operation from vehicle engine Low maintenance costs and service times, separate engine, no auxiliary drive required
- Container design ROJET can be installed in different vehicles at any time

#### **KEY FEATURES**

#### High service level

12-month warranty on motor, pump and hydraulics, guaranteed spare parts service due to series production. Clear differentiation of guarantees for cleaning unit and vehicle manufacturer.

- Low maintenance, long service life of motor, pump and hydraulics
  - High-quality design, solid construction
- Permits the use of a lance

E.g. for cleaning surfaces, exterior walls, courtyards, vehicles, etc., built-in pressure selection valve

#### **ROJET® 30/130**

High-pressure cleaning unit for pipes from Ø 40 - 200 mm

#### **Product Profile**

#### **TECHNICAL DATA**

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

Stainless steel reel, rotatable water High-pressure reel: coupling, manual operation

Stainless steel real, rotatable water

Filling reel:

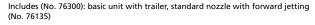
coupling, manual operation

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. 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	$\sqrt[]{\log \Delta}$	No.
ROJET 30/130 basic unit without trailer ROJET 30/130 basic unit with trailer Nozzle set 30 / 130	200 290 6.5	76301 76300 76462
For other extras/optional equipment, please see t	he table on	236





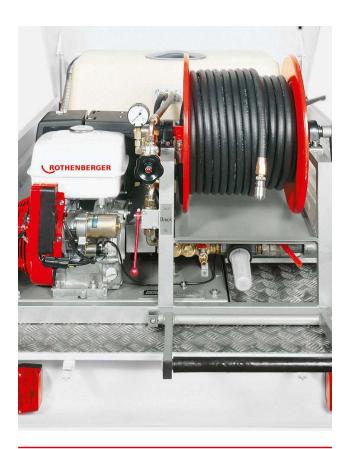


### Flushing & Pipe Cleaning

### **High-Pressure Drain Cleaning**

#### **ROJET® 40/100**

High-pressure cleaning unit for pipes Ø 40 - 200 mm



#### **Product Profile**

#### **TECHNICAL DATA**

Main frame: Profiled steel, hot-galvanised

**Engine:** 4-stroke petrol engine, 1 cylinder air cooled,

electric starter, automatic speed control, rating 9.5kw (13HP), Normal fuel

Pump: 3-plunger type, delivery 40l/min at 100 bar

Starter battery: 12 Volt/36 Ah Plastic, 200 Liter Water tank:

6 litre Fuel tank:

High-pressure reel: Handwheel, hinge

High-pressure hose: DN 12, length 50 m, coupling R1/2" **Dimensions:** 1,200 x 1,000 x 700 mm (L x B x H)

Weight: approx. 200 kg

**Equipment:** Water filter, glycerine pressure gauge,

pressure switch valve, safety valve, standard

nozzle, anti-freeze suction

 $\Delta_{kg}\Delta$ Model No. ROJET® 40/100 200 76100 Nozzle set 40/100 76463 includes: nozzle holder (No. 76309), standard nozzle with forward jetting (No. 76141), grenade nozzle (No. 77632), rotary nozzle (No. 77622), Quattro nozzle (No. 77612) For other extras/optional equipment, please see the table on 236

#### **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 Hydraulic drive, continuously adjustable

Large High-pressure reel: with HD hose DN 19, length 80 meters

Small

Filling reel:

Weight:

Hydraulic drive, continuously adjustable High-pressure reel: with HD hose DN 12, length 80 meters Manual operation, with filling hose DN19, length 50 meters

Plastic, 800 l. Other sizes available

Water tank:

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 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

Model  $\Delta_{kq}\Delta$ No. ROJET® 130/160 76485 For other extras/optional equipment, please see the table on 236



# 3

### **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**

Main frame: Profiled steel, hot-galvanised, partially coated

reel supports, fitted

Motor: Petrol engine 15 KW / 17 KW, diesel engine

37 KW / 42 KW, E-Start, automatic speed

control

**Pump:** 3-plunger pump, delivery 50-100 l/min at

120-200 bar

**Starter battery:** 12 Volt / 36 Ah **High-pressure reel:** Hydraulic reel gear

High-pressure hose: 50/120 - 85/160 DN 12, length: 80 m,

100/150 and 100/200 DN 16, length: 80 m

**Filling reel:** Manual and hydraulic (optional)

**Filling hose:** DN 19, length: 50 m

Water tank: Plastic, ROJET 50/120 and 60/140,

capacity 400 litres, ROJET 85/160 - 100/200,

capacity 800 litres, other sizes available

**Equipment:** 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	$\sqrt[4]{\log \Delta}$	No.
ROJET® 50/120 Basic	420	76540
ROJET® 60/140 Basic	440	76541
ROJET® 85/160 Basic	800	76542
ROJET® 100/160 Basic	810	76543
ROJET® 100/200 Basic	810	76544



Model	$\sqrt[]{\log \Delta}$	No.
ROJET® 50/120 Comfort	450	76320
ROJET® 60/140 Comfort	470	76321
ROJET® 85/160 Comfort	820	76322
ROJET® 100/160 Comfort	830	76323
ROJET® 100/200 Comfort	830	76324

## **Flushing & Pipe Cleaning**

## **High-Pressure Drain Cleaning**









No. 76302

#### **ROJET®**

#### **Optional equipment**

Remote control and other optional equipment is available, please see table below!

ROJET®		30/130	40/100	50/120	85/160	130/160
				60/140	100/160	
	No.				100/200	
Water tank						
800 litres	76220	n/a	•	•*	S	S
1,000 litres	76221	n/a	•	•*	•	•
Remote control						
Cable, 6-functions	76226	n/a	n/a	•	•	
Radio, 6-functions	76302	n/a	n/a	•	•	•
Cable, Radio	76331	n/a	n/a	•	•	•
Working spot lights	76200	n/a	n/a	•	•	•
Base frame	76232	n/a	n/a	•	•	•
Base frame:	Necessary wh	en wheelhouse di	stance is less than	1.2 meters		
Aluminium floor	76228					
Autom. filling stop	76210	n/a	•	•	•	•

Explanation: n/a = not applicable,  $\bullet$  = additional charge, S = standard, F = possible without additional charge \* Only for ROJECT 50/120 long version (Type L)



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### **Accessories High-Pressure Pipe Cleaning**

#### **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	$\sqrt[4]{\log \lambda}$	No.
For ROJET® 30/130	R 1/2"	30 x 50	0.12	76135
For ROJET® 40/100	R 1/2"	30 x 50	0.12	76141
For ROJET® 50/120	R 1/2"	30 x 50	0.12	76137
For ROJET® 60/140	R 1/2"	30 x 50	0.12	77606
For ROJET® 85/160	R 1/2"	30 x 50	0.12	76152
For ROJET® 130/150	R 1/2"	30 x 50	0.12	76488
For ROJET® 130/150	R 3/4"	40 x 60	0.16	76406

#### **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	$\sqrt[]{\log \Delta}$	No.
For ROJET®	30/130	R 1/2"	30 x 50	0.55	77621
For ROJET®	40/100	R 1/2"	30 x 50	0.55	77622
For ROJET®	50/120	R 1/2"	30 x 50	0.55	77623
For ROJET®	60/140	R 1/2"	30 x 50	0.55	77626
For ROJET®	85/160	R 1/2"	30 x 50	0.55	77624
For ROJET®	100/150	R 1/2"	30 x 50	0.55	77566
For ROJET®	130/150	R 1/2"	30 x 50	0.55	76492
For ROJET®	130/150	R 3/4"	40 x 110	0.72	76427

#### **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	$\Delta_{kg}\Delta$	No.
For ROJET®	30/130	R 1/2"	30 x 50	0.11	77611
For ROJET®	40/100	R 1/2"	30 x 50	0.11	77612
For ROJET®	50/120	R 1/2"	30 x 50	0.11	77613
For ROJET®	60/140	R 1/2"	30 x 50	0.11	77616
For ROJET®	85/160	R 1/2"	30 x 50	0.11	77614
For ROJET®	100/150	R 1/2"	30 x 50	0.11	77565
For ROJET®	100/200	R 1/2"	30 x 50	0.11	77530
For ROJET®	130/150	R 1/2"	30 x 50	0.11	76489
For ROJET®	130/150	R 3/4"	40 x 70	0.14	76410

#### **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	$\sqrt[b]{\log \lambda}$	No.
For ROJET® 30/130	R 1/2"	60 x 95	0.136	77631
For ROJET® 40/100	R 1/2"	60 x 95	0.136	77632
For ROJET® 50/120	R 1/2"	60 x 95	0.136	77633
For ROJET® 60/140	R 1/2"	60 x 95	0.136	77636
For ROJET® 85/160	R 1/2"	60 x 95	0.136	77634
For ROJET® 100/200	R 1/2"	60 x 95	0.136	76172
For ROJET® 130/150	R 1/2"	60 x 95	0.136	76490
For ROJET® 85/160 R 3	/4" - R 1/2"	70 x 105	0.177	76193
For ROJET® 100/200 R 3	/4" - R 1/2"	70 x 105	0.177	76179
For ROJET® 130/150 R 3	/4" - R 1/2"	70 x 105	0.177	76416

## **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	$\Delta_{kg}\Delta$	No.
For ROJET®	30/130	R 1/2"	70 x 120	2.95	76170
For ROJET®	40/100	R 1/2"	70 x 120	2.95	76157
For ROJET®	50/120	R 1/2"	70 x 120	2.95	77643
For ROJET®	60/140	R 1/2"	70 x 120	2.95	76233
For ROJET®	85/160	R 1/2"	70 x 120	2.95	77644
For ROJET®	100/150	R 1/2"	70 x 120	2.95	76234
For ROJET®	100/200	R 1/2"	70 x 120	2.95	76161
For ROJET®	130/160	R 1/2"	70 x 120	2.95	76235
For ROJET®	130/160	R 3/4"	100 x 160	3.84	76236

#### **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 $\sqrt[]{kg}$	No.
Rotor trench nozzle ROJET® 50/120	R 3/4-R 1/2" 3.4	76453
Rotor trench nozzle ROJET® 60/140	R 3/4-R 1/2" 3.6	77666

#### **Nozzle Assortment**

#### **Professional nozzle sets for ROJET**

The nozzle assortment that is arranged for the professional, ensures a wide range of use and guarantees effective cleaning



Example for ROJET 40/100. Satz No. 76463

Model	Coupling	$\sqrt{\Delta_{kg}}$	No.
For ROJET® 30/130	R 1/2"	5.10	76462
For ROJET® 40/100	R 1/2"	5.10	76463
For ROJET® 50/120	R 1/2"	5.10	76464
For ROJET® 60/140	R 1/2"	5.10	77650
For ROJET® 85/160	R 1/2"	5.10	76465
For ROJET® 100/150	R 1/2"	5.10	76466
For ROJET® 100/200	R 1/2"	5.10	76470
For ROJET® 130/160	R 1/2"	5.10	76495
For ROJET® 130/160	R 3/4"	6.63	76467
Nozzle holder	50 x 370	1.28	76309
for nozzle assortment with 5 x 1/2"			

### **High-pressure Cleaning Lance**

The built-in ROJET® pressure selection valve enables use with a cleaning lance

- Complete with R 1/2" threaded coupling
- Flat jet nozzle insert for channel, surface and component cleaning. Included in delivery





Model	$\sqrt[]{\log \Delta}$	No.
For ROJET® 40/100 - 50/120 - 30/130 For ROJET® 85/160 For ROJET® 100/200	0.28 3.10 3.20	76187 76189 76166
For ROJET® drain cleaning units please see 233		

## **Accessories High-Pressure Pipe Cleaning**

#### **High-Pressure Hose**

- Highly flexible
- Complete with couplings



Nominal diameter mm	Coupling	<b>L</b> ⊸ m	$\Delta_{kg}\Delta$	No.
8	R1/4"	40	9.4	72820
13	R1/2"	50	20.0	76130
13	R1/2"	80	52.0	76131
16	R1/2"	80	67.0	76119

#### **Deflector Rollers**

The use of deflector rollers reduces the wear and tear of high-pressure hoses and therefore extends the service life and helps to minimise costs



Model	$\sqrt[4]{\log \Delta}$	No.
For bottom manhole edge	6.2	77500
For bottom manhole edge	5.0	77501

### **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







Model	$\sqrt[]{\log \Delta}$	No.
HD-Coupling R1/2". with 6 m spiral hose	5.50	76191

#### **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



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	$\Delta_{kg}\Delta$	No.
Hose reel, complete with hose	26.5	76118
Hose reel, inlet 1/2" with hose	17.0	76160
40 m high-pressure hose DN 8, R 1/4" coupling	9.40	72820
Drain cleaning nozzle R 1/4", without forward jetting	0.04	76055
Drain cleaning nozzle R 1/4", with forward jetting	0.04	76065
Rotating nozzle R 1/4", 45°	0.08	77506







# ROWELD® Plastic Pipe Welding

Cutting	
Cutting / Chamfering Tool	242 - 24
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Socket Welding Unit / Heating Plates	245 - 24
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#### **ROCUT® 110 / ROCUT® 160**

Cutting and chamfering tool for right-angled cutting and chamfering (15°), Ø 32 - 160 mm

#### **Product Profile**

#### **APPLICATION AREA**

Suitable for thin and thick-walled PVC, PE, PP, PEX, PB and PVDF pipes, as well as sound-insulated drain pipes. Utmost precision in a single operation

#### **KEY FEATURES**

- Only one tool required for cutting, chamfering and deburring
- Extremely long service life with optimum cutting geometry
- Special accessories for PE, PP, PEX, PB and sound-insulated pipes



#### **KEY FEATURES**

- Uniform chamfering of the entire pipe circumference
- Continuously adjustable pipe clamping pressure
- Integrated internal deburrer is stored in the handle
- Pipe cutting also possible without chamfering, as cutter blade shaft can be mounted with 180° offset

#### **TECHNICAL DATA**

**ROCUT® 110:** Ø 32 - 110 mm **ROCUT® 160:** Ø 110 - 160 mm



ROCUT® 110 Set (No. 55035) / (No. 55037) includes: ROCUT® 110 (No. 55020), internal deburrer (No. 55018), clamping set 50, 75 and 110 mm, with standard cutter blade shaft and cutter blade insert (No. 55029), cutter wheel (No. 54950) (for sound-insulated pipes), plastic carrying case (No. 55016), with Set (No. 55037) is No. 55029 not included



ROCUT® 160 Set (No. 55063) includes: ROCUT® 160 (No. 55030), internal deburrer (No. 55018), 2 clamping sets, cutter blade shaft with copying and, HM cutter blade insert (No. 55019), plastic carrying case (No. 55017)



ROCUT® 160 with cutter blade





(No. 54950) (special accessories)

ROCUT® 110 with cutter wheel



Model	Working range Ø mm	$\sqrt[]{\log \lambda}$	No.
ROCUT® 160 set	110, 125, 160	5.6	55063

Handheld operation



Working range Ø mm  $\Delta_{kg}\Delta$ Model No. 55035 ROCUT® 110 set 50, 75, 110 3.9 ROCUT® 110 set 58, 78, 110 3.9 55037 for sound-insulated pipes

#### **ACCESSORIES**

Model	ΔgΔ	No.
Cutter blade for internal deburrer	10	21652
Plastic carrying case for ROCUT® 110	850	55016
Plastic carrying case for ROCUT® 160	1,400	55017
Internal deburrer with blade	150	55018
You'll find clamping jaw sets on 243		









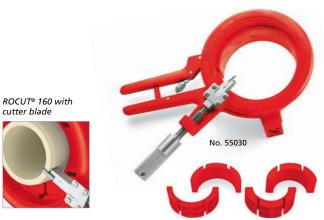


#### **ROCUT® 110**

#### Basic unit Ø 32 - 110 mm

For use with clamping sets Ø 32 - 100 mm, without internal deburrer, with standard cutter blade shaft and cutter blade (No. 55029)

Model	mm	$\Delta_g \Delta$	No.
Basic unit ROCUT® 110	110	2,450	55020
Clamping set*	100	110	55048
Clamping set*	90	150	55021
Clamping set*	80	170	55047
Clamping set*	78	180	55062
Clamping set*	75	210	55022
Clamping set*	63	220	55023
Clamping set*	58	230	55013
Clamping set*	56	270	55024
Clamping set*	50	290	55025
Clamping set*	40	300	55027
Clamping set*	32	330	55026
* Clamping set (1 set = 2 semi-circula	r segment	s)	



### **ROCUT® 160**

#### Basic unit Ø 110 - 160 mm

Cutter blade shaft with automatic copying and cutter blade (No. 5.5019), for use with clamping sets  $\varnothing$  110 - 140 mm, without internal deburrer

Model	mm	$\sqrt{g}$	No.
Basic unit ROCUT® 160	160	3,450	55030
Clamping set*	140	180	55031
Clamping set*	125	250	55032
Clamping set*	110	310	55033
* Clamping set (1 set = 2 semi-circular	segments	)	





## HM Cutter Blade Inserts ROCUT® 110 and ROCUT® 160

Model	Cutting depth mm	$\Delta_g \Delta$	No.
Cutter blade shaft with	7.5	110	54960
Automatic copying and HM cu	tter blade inserts		
Cutter blade shaft with	12.5	120	54961
Automatic copying and HM cu	tter blade inserts		
Spare HM cutter blade insert for	or 7.5	10	55029
Cutting and chamfering 15°			
Spare HM cutter blade insert for	or 12.5	20	55019
Cutting and chamfering 15°			











#### **Cutter Wheels**

#### ROCUT® 110 and ROCUT® 160

Model	Cutting depth mm	ΔgΔ	No.
Cutter blade shaft with Cutter wheel (No. 55074)	16.0	130	54950
Spare cutter wheels (2 pcs.)	8.6	10	055053D
Spare cutter wheels (3 pcs.)	13.0	20	055054D
Spare cutter wheels (2 pcs.)	16.0	20	055074D

#### **ROCUT® UKS 160 / 355**

High-performance orbital circular saw Ø 160 - 355 mm

#### **Product Profile**

#### **APPLICATION AREA**

For cutting of plastic pipes made of PE, PP and PVC For use on the building site or in the workshop

#### **KEY FEATURES**

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

#### **TECHNICAL DATA**

Voltage: 230 V 50 / 60 Hz
Power: 1,750 W
Outer pipe diameters: 160 mm - 355 mm
Wall thickness pipe: 8 mm - 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





Model	$\Delta_{\text{kg}}\Delta$	No.
ROCUT® UKS 160 / 355, complete with HM saw blade (No. 55505), without trans		1000000532
Spare HM saw blade 180 x 30 mm with spacer	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



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

#### **KEY FEATURES**

- Can be easily adjusted anywhere at the pipe
- Robust blade made of stainless steel

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

Model	$\Delta_{kg}\Delta$	No.
For ROCUT XL 125 For ROCUT XL 225 For ROCUT XL 315	0.7	00793 00794 00795

### **Socket Welding**

#### ROWELD® P 125

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

#### **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	<b>►</b> mm	Control Model	$\sqrt[]{\log \lambda}$	230 V 50/60 Hz
P 125	1,300	16 - 125	electronically	3.10	55321
P 125 Set	1,300	63 - 125	electronically	17.05	55546



Heating spigots / Heating sockets



Adaptor plate



#### **Heating Spigots / Heating Sockets**

Model	$\sqrt[]{\log \Delta}$	No.	Model
16	0.06	55585	40
17	0.06	55586	50
18	0.08	55587	63
19	0.08	55588	75
20	0.08	55589	90
25	0.10	55590	110
32	0.17	55591	125

_			
	Model	$\sqrt[]{\log \Delta}$	No.
	40	0.26	55592
	50	0.37	55593
	63	0.60	55594
	75	0.89	55595
	90	1.33	55596
	110	2.07	55597
	125	2.33	55598

115 V

110 V

#### **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 elemen Ø mm	t Control Model	$\Delta_{kg}\Delta$	230 V 50/60 Hz	110/115 V 50/60 Hz
500	120/45°	electronically	1.80	55518	55517
800	200	electronically	3.25	55316	55851
1,500	300	electronically	5.35	55317	55854
Table mou	nting clamp		0.45	55524	55524

ACCESSORIES					
Model	$\sqrt[4]{\log \lambda}$	No.	Model	$\sqrt[4]{\log \Delta}$	No.
Table mounting clamp for P 125 Adaptor plate for butt welding ROWELD® P 125	0.45 Ø 160 mr		Floor stand for ROWELD® P 125 cs) non-stick Teflon coating	0.44 1.15	55539 55536

#### **ROWELD® P 63 S-6 Sword**

Socket welding unit Ø 20 - 63 mm

#### **Product Profile**

#### **APPLICATION AREA**

Socket welding unit for use with heating spigots and heating sockets Ø 20 - 63 mm with three simultaneously usable combinations for welding sockets, pipes and fittings up to  $\varnothing$  63 mm

#### **KEY FEATURES**

Increased flexibility and combination options for every day use

Isolator prevents heat

Efficient heat protection

transport to the case

- Long service life and according to DVS regulations
- All important information at a glance

3 holes for mounting heating spigots

Increased flexibility and combination

Heating spigots and heating bushes (Ø 20 - 63 mm) with high quality PTFE-anti-stick-covering

Long service life and according to

DVS regulations

and heating bushes

options for every day use

Safe operation with the temperature control as per DVS regulations







#### **KEY FEATURES**

- Light and handy for fatigue-free use
- Simple to use even in confined spaces
- Floor stand is available at all times

#### **TECHNICAL DATA**

800 W Power:

Model: Thermostatic or electronically controlled

Pipe diameter: For sockets, pipes and fittings

from Ø 20 - 63 mm Voltage: 230 V, 50 / 60 Hz 110 / 115 V, 50 / 60 Hz

> **Control lamps for controls** and intervals

All important information at a glance

Temperature selector switch for electronic temperature control and monitoring

> Process safety thanks to temperature control according to DVS

Automatic overheat protection

Unit safety

**ROTHENBERGER** 

Heating plate with an especially narrow sword form

Simple to use even in confirmed spaces

Unit has an integrated and retracable floor stand

Floor stand is always available when needed



### **Socket Welding**

#### **ROWELD® P 63 S-6 Sword Set**

P-63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws and table mounting clamp in plastic carrying case



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	$\sqrt[]{\log \Delta}$	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	053889X
P 63 S-6 set	20, 25, 32	800	electronically	4.30	053890X	053886X
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	053891X	053887X
P 63 S-6 single unit		800	thermostatic	1.78	053897X	
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	ΔgΔ	No.
20	80	53511
25	100	53512
32	170	53513

Working range Ø mm	ΔgΔ	No.
40	260	53514
50	370	53515
63	600	53516

### **Hot Gas Welding**

#### ROWELD® Quick S / WG 1600 E

## 230 V

#### **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







Model	$\Delta_g \Delta$	230 V 50 / 60 Hz
ROWELD® WG 1600 E complete	700	55780
with 5 mm tubular nozzle (No. 55769)		

#### **Nozzles and Accessories for Quick S and WG 1600E**



Model Part	:-No.	mm	ΔgΔ	No.
Universal tubular nozzle	0	5.0	40	55769
Wide slot nozzle, angled	2	20.0	50	55778
Wide slot nozzle	€	40.0	60	55779
Speed nozzle for round welding rod	4	3.0	20	55773
Speed nozzle for round welding rod		4.0	20	55774
Speed nozzle for round welding rod		5.0	20	55775
Triangular speed nozzle for profiled welding ro	d 😉	5.0	20	55776
Triangular speed nozzle for profiled welding ro	d	7.5	20	55777
Tacking nozzle	6		20	55772
Shrinkage reflector	7		60	55783

Model	Part-No.	$\langle g \rangle$	No.
Pressure roller, 45 mm for overlap welding of sheets	8	210	55816
Universal scraper set for preparing welded seams (consisting of handle, triangular, hea	<b>9</b> art	210	53380
and multi-shaped blades)			
Phillips screwdriver for nozzle mounting	10	40	73152
Heating plate 1,500 Watt	•	80	55800
Spare carbon (1set = 2 pcs.) for Quick S		10	55793
Reinforced plastic pipe 3 m (f. WG 1600 E)	<b>D</b>	350	55782
Steel case for ROWELD® HG 1600 E	4	1,400	55799

Microprocessor

### **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 180 V - 280 V **Tolerance:** 40 Hz - 70 Hz Frequency: 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

120 x 160 x 77 mm **Dimensions:** 

Welding cable: 3 m

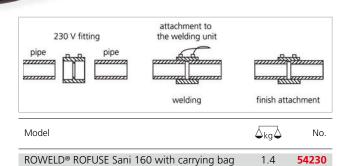
# Controlled welding unit with automatic temperature compensation Clear, digital display Visual monitoring of the welding process ROFUSE Impact-resistant casing (IP 54) Robust 3 m welding cable Large operating radius

#### Carrying bag



Easy to transport





### **Electro-Fusion Welding**

#### **ROWELD® ROFUSE**

Universal electro-fusion welding unit Ø 1,200 mm ROFUSE basic and ROFUSE II up to Ø 315 mm



#### **Product Profile**

#### **APPLICATION AREA**

For PE- and PP fittings from < 48 V, up to Ø 1,200 mm

#### **KEY FEATURES**

- Data input with the barcode scanner is possible with all ROFUSE units. With ROFUSE+, ROFUSE Print+ and ROFUSE basic 48V, manual data input is also possible
- Simple data transfer via USB port with Rofuse Print+, serial port with the ROFUSE basic 48 V
- Welding monitoring system

#### **ROWELD® ROFUSE / ROFUSE+**

 Display 4 x 20, characters with 5 mm font size and LED illumination

#### **TECHNICAL DATA**

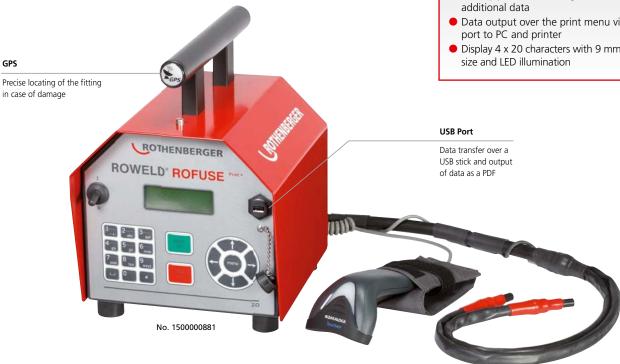
Input voltage: 230 V Frequency: 50 Hz - 60 Hz Output voltage: 8 V - 48 V **Protection rating:** IP 54 Barcode scanner: Yes

ROFUSE/ROFUSE+: Logging:

ROFUSE 48 V basic: 500 records **ROFUSE Print+:** 10.000 records **ROFUSE II:** 300 records

#### **ROWELD® ROFUSE Print+:**

- Automatic logging for 10.000 welds
- Tracing form: Commission No., ISO welder code, pipe code, 2 fittings code and
- Data output over the print menu via USB
- Display 4 x 20 characters with 9 mm font





< 48 V Fitting







Connection to welding machine



Completed joint



110V versions on request

Description	Frequency	Input voltage	$\sqrt[4]{\log \Delta}$	No.
ROWELD® ROFUSE basic 48 V2	40 - 70 Hz	180 - 280 V	16.0	1500000856
ROWELD® ROFUSE II	45 - 55 Hz	210 - 250 V	25.0	355000016
ROWELD® ROFUSE V2	40 - 70 Hz	180 - 280 V	16.0	1500000857
ROWELD® ROFUSE+ V2	40 - 70 Hz	180 - 280 V	16.0	1500000858
ROWELD® ROFUSE Print+ V2	40 - 70 Hz	180 - 280 V	16.0	1500000859
ROWELD® ROFUSE Print+ GPS V2	40 - 70 Hz	180 - 280 V	16.0	1500000881
Aluminium transport case (not for ROFUSE II)			3.1	54054

## **Electro-Fusion Welding**

### **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	53240	
Size II	110 - 500 mm	53250	

#### **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	53200
Squeezing device hydraulic	75 - 180 mm	53210
Squeezing device hydraulic	160 - 225 mm	53220

### 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	53251
Double clamp adjustable	40 mm	53252
Double clamp adjustable	50 mm	53253
Double clamp adjustable	63 mm	53254
Double clamp short	75 mm	53255
Double clamp short	90 mm	53256
Double clamp short	110 mm	53257
Double clamp short	125 mm	53258
Double clamp short	140 mm	53259
Double clamp short	160 mm	53260
Double clamp short	180 mm	53261
Double clamp short	200 mm	53262
Double clamp short	225 mm	53263
•		

#### **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	53272
Quad clamp	90 mm	53273
Quad clamp	110 mm	53274
Quad clamp	125 mm	53275
Quad clamp	140 mm	53276
Quad clamp	160 mm	53277
Quad clamp	180 mm	53278
Quad clamp	200 mm	53279
Quad clamp	225 mm	53280
Rounded clamp	25 mm	53281
Rounded clamp	32 mm	53282
Rounded clamp	40 mm	53283
Rounded clamp	50 mm	53284
Rounded clamp	63 mm	53285

#### **ROWELD® P 110**

Plastic pipe welding machine Ø 20 - 110 mm

#### **Product Profile**

#### **APPLICATION AREA**

For butt welding of pipes and fittings made of PE, PP, PB and PVDF. Particularly suited for installation work and for work in confined spaces - also in pipe networks

#### **KEY FEATURES**

- Production of segmented bends possible
- Precise pressure adjustment
- Single and double-sided trimming possible









#### **KEY FEATURES**

- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

#### **TECHNICAL DATA**

Pipe diameter: Ø 20 - 90 mm (SDR 41 - SDR 7.25)

Ø 20 - 110 mm (SDR 41 - SDR 11) Weight: 8.5 kg

450 mm total length Size:





#### 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	$\sqrt[4]{\log \lambda}$	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

## **Butt Welding**

#### **ROWELD® P 110 Basic Machine**

Model	$\sqrt[4]{\log \Delta}$	No.
ROWELD® P 110 basic machine	6.8	55787
with table mounting bracket		



## **Basic Clamping Set 110 mm**

Model	$\sqrt[4]{\log \Delta}$	No.
For wide/pipe joints (1 set = 2 clamps)	2.5	55807
For narrow/fitting joints, left (1 clamp)	1.0	55808
For narrow/fitting joints, right (1 clamp)	1.0	55809





#### **Reducer Clamping Inserts Wide**

Each set includes 4 aluminium half-shells

►O mm	$\Delta_{kg}\Delta$	No.
20	1.9	55318
25	1.9	55126
32	1.8	55125
40	1.7	55124
50	1.7	55123

►O mm	$\Delta_{kg}\Delta$	No.
56	1.6	55122
63	1.4	55121
75	1.6	55120
90	1.1	55119





#### **Reducer Clamping Inserts Narrow**

Each set includes 4 metal half-shells

►O⊲ mm	$\Delta_{kg}\Delta$	No.
20	0.6	55319
25	0.6	55134
32	0.5	55133
40	0.5	55132
50	0.5	55131

<b>►</b> mm	$\sqrt{\log \Delta}$	No.
56	0.5	55130
63	0.5	55129
75	0.4	55128
90	0.3	55127





#### **Manual Trimmer Unit**

Model	$\sqrt[L]{\log L}$	No.
With machine holder	1.90	55826
Spare blade (1 set = 2 blades)	0.05	55152



## **Heating Plate**

With non-stick Teflon coating, 180 x 130 mm, 800 Watt

Model	$\sqrt[4]{\log \lambda}$	230 V 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled	2.6	55324	55918
Table clamp	0.7	55524	55524











#### **Flange Adaptor Clamping Unit**

For centred welding of flanges

Model	$\sqrt[]{\log \Delta}$	No.
Flange adaptor clamping unit	1.50	55199
Steel carrying case (540 x 345 x 355 mm)	14.20	55832
Allen key SW 6	0.03	321216
Allen key SW 8	0.05	321218







#### **ROWELD® P 160 SANILINE**

Plastic sanitary pipe welding machine from Ø 40 - 160 mm

#### **Product Profile**

#### **APPLICATION AREA**

For butt welding of PP, PB and PVDF pipes and fittings, especially suitable for 45° branches and tight elbows. For use on building sites or in the workshop

#### **KEY FEATURES**

- Versatile for difficult situations with the removable heating plates
- Secure clamping of pipes, fittings, tight 45° branches and 90° elbows
- Protects against unintentional starting and derailing of the trimmer unit
- Precise pressure adjustment











#### **KEY FEATURES**

- Minimum drag force
- 40% higher stability with simultaneously optimised force distribution
- All common sanitary installation fittings can be clamped

#### **TECHNICAL DATA**

**Pipe diameter:** Ø 40 - 110 mm (SDR 41 - 7.25)

Ø 40 - 140 mm (SDR 41 - 11) Ø 40 - 160 mm (SDR 41 - 17.6)

 Weight:
 34.4 kg

 Heating plate:
 800 W

 Trimmer unit:
 1,050 W



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)

Working range Ø mm	Temperature control	$\sqrt[4]{\log \Delta}$	230 V 50 Hz	110/115 V 50 Hz
40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	54000	54001
	Ømm	Ø mm Temperature control 40, 50, 63, 75, 90, 110, 125, 160 electronically	$ \emptyset \text{ mm} $ Temperature control $ \overline{\Delta_{\text{kg}}} \overline{\Delta} $ 40, 50, 63, 75, 90, 110, 125, 160 electronically 57.4	Ø mm         Temperature control         ෮kg ↓         50 Hz           40, 50, 63, 75, 90, 110, 125, 160         electronically         57.4         54000

## **Butt Welding**

# **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	$\sqrt[4]{\log \Delta}$	230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 160 SANILINE Basic machine	34.4	54005	54006

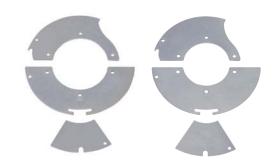


#### **Reducer Clamping Inserts**

Set includes: Reducer inserts (4 half-shells), pipe supports

Nominal size	$\Delta_{kg}\Delta$	No.
40	1.6	54083
50	1.6	54084
56	1.6	54085
63	1.6	54086
75	1.6	54087

Nominal size	$\sqrt[]{\log \Delta}$	No.
90	1.6	54088
110	1.7	54089
125	1.5	54090
140	1.5	54091



#### **Trimmer Adaptor** (special accessories)

 $\emptyset$  40 - 75 mm for trimming 45° branches, replaceable blades

Model	$\sqrt[]{\log \Delta}$	No.
Trimmer attachment for 45° branches Ø 40 - 75 r	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  $\varnothing$  160 mm

Model		$\sqrt[]{\log \Delta}$	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  $\varnothing$  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

Working range Ø mm	$\sqrt[]{\log \Delta}$	No.
40, 50, 63, 75, 90	11.20	54080
110, 125, 160		
rt sub-frame	11.30	54015
	20.00	56051
er inserts	2.32	54020
er SW 17 DIN 894	0.05	310411
375  mm (Set = 2  black	des) 0.10	55685
rimmer adaptor	0.01	55686
// 115 V / 110 V	1.92	55316 / 55851
ide 75 mm Set = 2 bla	ades 0.05	55684
	40, 50, 63, 75, 90 110, 125, 160 It sub-frame ser inserts er SW 17 DIN 894 575 mm (Set = 2 black rimmer adaptor //115 V/110 V	40, 50, 63, 75, 90 11.20 110, 125, 160 It sub-frame 11.30 20.00 er inserts 2.32 er SW 17 DIN 894 0.05 5 75 mm (Set = 2 blades) 0.10 rimmer adaptor 0.01











#### ROWELD® P 250 A

Plastic pipe welding machine Ø 40 - 250 mm

# 230 V





#### **Product Profile**

#### **APPLICATION AREA**

For use on building sites and in the workshop. Particularly suited for sanitary installations, drain pipe laying as well as chimney reconditioning with PVDF liners

#### **KEY FEATURES**

- Versatile for difficult situations with the removable heating plates
- Protects against unintentional starting and derailing of the trimmer unit
- Single and double-sided trimming possible
- Warp-resistant for minimum drag and low pressure transfer loss

#### **KEY FEATURES**

- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

#### **TECHNICAL DATA**

Pipe diameter: Ø 40 - 110 mm (SDR 41 - SDR 7.25) Ø 40 - 125 mm (SDR 41 - SDR 11)

Ø 40 - 200 mm (SDR 41 - SDR 17.6) Ø 40 - 225 mm (SDR 41 - SDR 26) Ø 40 - 250 mm (SDR 41 - SDR 33)

Weight: 36.4 kg Trimmer unit: 450 W 1,200 W **Heating plate:** 

Electric, high-torque safety trimmer unit (450 watt) locks into place in the working position

Protects against unintentional starting and derailing

Mechanical stop adjustable from both sides

Single and double-sided trimming possible



Reliable, warp-resistant transfer of the welding pressure

plus pipe supports

plus pipe supports and Ø 160 mm set with reducer inserts for Ø 40 - 140 mm

> 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

Working range 230 V 110/115 V Model Ø mm Temperature control  $\Delta_{kg}\Delta$ 50 Hz 50 Hz

ROWELD® P 250 A Set 40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250 electronic 55796 ROWELD® P 250 A basic machine 36.1 55768 55738





#### **ROWELD® P 250 A Set Basic machine with trimmer unit**

carrying case for reducer and support fork inserts

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

#### **Basic Clamping Set**

Set includes: 2 basic clamps and 2 support forks



►O mm	$\Delta_{kg}\Delta$	No.
250	10.10	55717

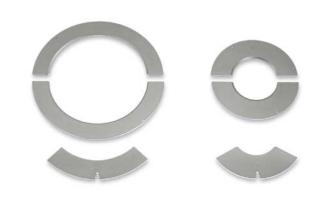


## **Reducer Clamping Insert Set**

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)

►O mm	$\sqrt[]{\log \Delta}$	No.	<b>-</b> O
32	1.89	55753	110
40	1.89	55752	114
50	1.81	55751	125
56	1.83	55750	140
63	1.75	55749	180
75	1.68	55748	200
90	1.50	55747	22!

$\sqrt[4]{\log \Delta}$	No.
1.26	55746
1.20	55745
1.06	55744
0.80	55743
2.46	55721
2.03	55718
1.41	55719
	1.26 1.20 1.06 0.80 2.46 2.03



## **Heating Plate**

Non-stick Teflon coating. Ø 300 mm, 1,500 Watt

Model	$\sqrt[]{\log \lambda}$	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 re	ed 25.00	55759	55759
Steel carrying case	2.82	54020	54020



## **Plastic Pipe Welding**

## **Butt Welding**

#### **ROWELD® hydraulic concept "Made in Germany"**

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	BOTHENBERGER  Type Premium	BOTHENBERGER  Type Premium CNC
Temperature control	•	•	•
Pressure reading analogue	•	_	<del>_</del>
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.

<b>WORKING RANGE</b>		
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**

**Automatic logging:** 10,000 logs **Data output:** USB interface

Languages: DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR,

HU, SL, SK, RU, BG, futher languages available

upon request

Welding monitoring: Optically with colour indication for welding

pressure, welding temperature, welding times, as well as acoustical and optical for user actions

**Logging:** in accordance to DVS

Welding standards: DVS, further standards available upon request,

manual entry of welding parameters is possible



#### **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 quidelines 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



#### **TECHNICAL DATA**

**Automatic logging:** 10,000 logs **Data output:** USB interface

Languages: DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR,

HU, SL, SK, RU, BG, futher languages available

pon request

Welding monitoring: Optically with colour indication for welding

pressure, welding temperature, welding times, as well as acoustical and optical for user actions

**Logging:** in accordance to DVS

**Welding standards:** DVS, further standards available upon request, manual entry of welding parameters is possible

With CNC Funktion: 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)



#### **ROWELD® P 315 W / P 315 W CNC**

Heating plate butt welding machine Ø 90 - 315 mm

#### **Product Profile**

#### **APPLICATION AREA**

- High-performance butt welding machine for single and serial production in the workshop
- For butt welding of PE, PP and PVDF pipes and fittings from
- Universal machine for pipe/pipe, pipe/fitting, pre-sealing strip
- Perfect for the prefabrication of pipe elbow segments and T-pieces

#### **TECHNICAL DATA**

**Electrical Hydraulic unit:** 400 W

230 V / 400 V, 50/60 Hz

**Electrical Trimmer unit:** 700 W

3,000 W, 400 V, 50/60 Hz **Heating plate:** 

P 315 W complete: 523 kg Weight: P 315 W Basic: 385 kg

P 315 W CNC complete: 523 kg P 315 W CNC Basic: 385 kg





# 400 V

#### **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**

- Reliable, warp-resistant transfer of the welding force and exact control of the welding pressure
- Long-lasting heating plate according to DVS, CEN and ISO guidelines
- Workshop welding machine, et.al with rotatable tools for the manufacture of pipe elbows on each side up to 22.5°, as well as the possibility of series production of segments

#### **TECHNICAL DATA**

Electric-hydraulic unit: 2,250 W

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





# **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	digital	
			Heating belt 75 W		
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® Manual welding extruder**

Scope of delivery: 1 welding shoe, 1 set air jets, 1 unit stand, tool set

Description	$\Delta_{kg}\Delta$	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







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## **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

#### **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



















R410A

R22

R134a

R407C

R404A

#### **TECHNICAL DATA**

Weight: 17 kg
Final Vacuum: 1 x 10-2 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

# ROTHENBERGER ROKLIMA MULTI 4F AFF: Compared to the second of the secon

#### 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

#### Shock-resistant low pressure and high pressure gauges for various refrigerants



Secure storage of all accessories



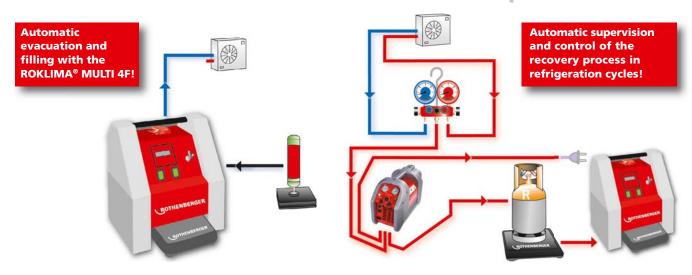
Pressure hoses: 2.5 m long with shut-off valve



Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces



## **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	$\sqrt[]{\log}$		No.
ROKLIMA® MULTI 4F	17.0	1	1000000138
Reducer pieces 1/4" SAE F - 5/16" SAE	M 0.1	1	170016

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





## **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

#### Sturdy plastic rolling case (Fig. similar)

with high measurement precision

Precise weighing of refrigerants

Simple and comfortable transport with ample room for accessories and small parts Ø 6 - 35 mm pipes to length Bottle adaptor for 1 kg and 2 kg refrigerant bottles for connection to the scale Secure mounting of the bottle ROTHENBERGER during charging 2 x analogue manifolds (with ROCADDY 120) 2-stage high vacuum pump For evacuation and removal of all moisture residue in refrigeration systems during installation per DIN 8975 **ROCOOL 600** Automatic calculation of superheat and subcool. Optionally upgradable through attachment of a vacuum probe and a reading out function Electronic digital scale up to 120 kg Mini tube cutter and (with ROCADDY 120 Digital)

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. 170508), pressure hose set 5/16" SAE each 1.500 mm with ball valve for R410A (150000030), pressure hose set 1/4" SAE each 1.500 mm with ball valve for R22, R134a, R407C (No. 150000028), ROSCALE 120 (No. 173004), 1x adaptor 3/8" SAE F –  $\frac{1}{4}$ " SAE M (No. 089401), 2x adaptor (5/16" SAE F –  $\frac{1}{4}$ " SAE M with valve trigger (No. 259007), adaptor 5/16" SAE M –  $\frac{1}{4}$ " SAE F (No. 170016)), bottle connection ¼" (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)

Performance  $\triangle_{kq} \triangle$ Model No. R410A R134a R407C R404A **ROCADDY 120** 42 I / min 19 100000057 with 2 analogue manifolds

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 –  $\frac{1}{2}$ " with valve trigger (No. 259007), 1x 5/16" SAE M –  $\frac{1}{2}$ " SAE F (No. 170016), 1x bottle connection  $\frac{1}{2}$ " (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)

pipe cutter

For cutting Ø 6-35 mm

Performance  $\triangle_{kq} \triangle$ Model No. R410A R407C R404A **ROCADDY 120 Digital** 42 I / min 18 100000058 with digital manifold



## **Refrigeration Circuit Control**

#### **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**

ROTHENBERGER

4 10P

Pressure display: bar, psi, Kpa, MPa

°C, °F Temperature display:

Vacuum display: Micron, mbar, mmHg, Pa, mTorr

Power source: 9 V battery, 550 mAh Screen size: 4.1/3" / 11 cm Pressure measurement range: -1 up to 60 bar

Precision (at 22°C):  $\pm$  0,5 % fs Temperature measurement range: -50°C to +200°C -10°C to +50°C Working temperature:

4x 1/4" SAE Connections:

12h (device), 96h (red box) Max. recording time:

> An absolute all-rounder due to the unique modular system!

> > Connection for the temperature sensor T2

Green and red LEDs An optical signal is displayed

overpressure

data at a PC

For automatic measurement of subcool data

once an adequate vacuum level

is reached or leakage in the system and also a warning of

Connection of the Red Box

and independent read out of

To record data for up to 96 hours

#### 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 1/4" SAE

3-way function: Evacuation and filling without changing a hose

#### Y-connections 1/4" SAE

A connection and sealing plug in one. Simple transport of hoses when not in operation

data viewer software, carry case



diameter of up to Ø 32 mm

Temperature sensor for a pipe

External vacuum probe for very precise measurement of the vacuum



Scope of delivery (No. 1000000539): Red box, data viewer software, connection cable, external power supply

No.

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

Set with 1 temperature sensor (in the blister) 1000000569 1000000570 Set with 2 temperature sensors (in the case) Set with 2 temperature sensors, red box, 1000000572

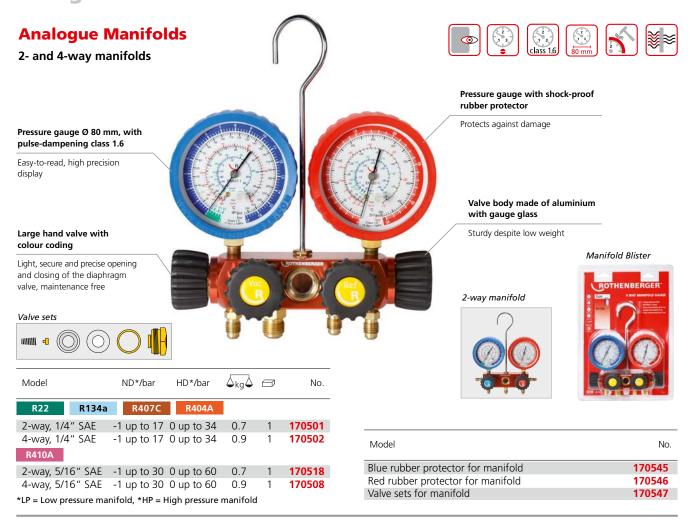
data viewer software (in the case)

No.

Red box, software, connection cable, 1000000539 external power supply Temperature sensor 1000000540 Vac Probe 1000000541



**Refrigeration Circuit Control** 



#### **Manifold Sets**

#### Manifold sets and pressure hoses

2-way manifold (for 170600 and 170607) 4-way manifold (for 170601, 170606, 170602 and 170608)



















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				$\Delta_{kg}\Delta$	No.
2-way "S	itandard"				
R22	R134a	R407C	R404A		
Manifold s	set 2-way "S	Standard"		2.7	170600
R410A					
Manifold s	set 2-way "S	Standard"		2.7	170607
4-way "S	tandard"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way I '	'Standard"		2.8	170601
R410A					
Manifold s	set 4-way I '	'Standard"		2.8	170606
4-way "P	lus"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way II	"Plus"		2.8	170602
R410A					
Manifold s	set 4-way II	"Plus"		2.8	170608
Plastic car	ry case			1.4	171505

No. 170602

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant

**Refrigeration Circuit Control** 

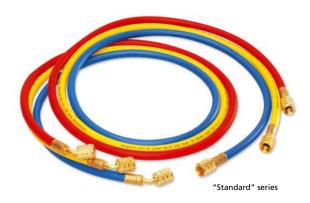
#### **3-piece Pressure Hose Sets**

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



#### Pressure hose from the series "Standard"

Model	Connection	<del>k →</del> L mm		No.
Vacuum Hose	3/8" SAE	1,500	1	1500000032
R22 R134a	R407C R4	104A		
Set of 3 pressure hoses	1/4" SAE	1,500	1	1500000024
Pressure hose yellow	1/4" SAE	1,500	1	1500000025
R410A				
Set of 3 pressure hoses	5/16" SAE	1,500	1	1500000026
Pressure hose yellow	5/16" SAE	1,500	1	1500000027









#### Pressure hose from the series "Plus" with ball valve

Model		Connection	<del>k→</del> L mm		No.
R22	R134a	R407C	R404A		
Set of 3 p	ressure hoses	1/4" SAE	1,500	1	1500000028
Pressure h	ose yellow	1/4" SAE	1,500	1	1500000029
R410A					
Set of 3 p	ressure hoses	5/16" SAE	1,500	1	1500000030
Pressure h	ose 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

Droc	14	Profi	

#### 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. 170518), 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	$\sqrt[]{\log \Delta}$		No.
Tool Set Climate I	2.3	1	170604
Tool set Climate II	2.4	1	170605





R134a R407C

No. 170604





## **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

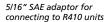




Ideal for split air-conditioning units and heat pumps!









Bottle adaptor for connecting 950 cm³ 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 e	external <b>259007</b>

## **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**

- Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds
- Simple determination of the refrigerant concentration
- Adjustment of the sensor tips zero measurement point for simple detection of the leak
- Exact and quick locating of the leak
- Easy accessibility of even hard to reach leaks

#### **TECHNICAL DATA**

Leak status: LED display Sensor length: 30 cm

Leak detection rate: 3 g/a within 3 seconds

280 g Weight:

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



ROTHENBERGER

#### 7 different sensitivity levels

7 LEDs

Exact and fast location of the leak

**RESET** - button

Suitable for all common CFC, HFC and HCFC!

Adjusts to the sensor tip zero point setting for simple leak location





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







#### **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

#### **Ergonomic handle**

Light, compact and easy to transport



1/4" SAE standard connection with adaptors for 5/16" SAE and 3/8" SAE

Protects the integrated components



Optimal positioned viewing glass and oil drains for simple draining of the oil

service life

\*(only with ROAIRVAC 1.5 and 3.0)



Practical: operating instructions always within view







#### **ROAIRVAC Serie**

Two-stage rotary vane pump for evacuation in accordance with DIN 8975

Туре	ROAIRVAC 1.5	ROAIRVAC 3.0	ROAIRVAC 6.0	ROAIRVAC 9.0
No.	170061	170062	170063	170064
Pumprating	1.5 CFM / 42 l/min / 2.5 m³/h	3.0 CFM / 85 I/min / 5.1 m <sup>3</sup> /h	6.0 CFM / 170 l/min / 10.2 m <sup>3</sup> /h	9.0 CFM / 255 l/min / 15.3 m³/h
Vacuum stages	2	2	2	2
Final-vacuum	25 micron / 0.034 mbar	25 micron / 0.034 mbar	25 micron / 0.034 mbar	25 micron / 0.034 mbar
Motor rating	190 W / 1720 r/m	250 W / 1720 r/m	375 W / 3440 r/m	750 W / 3440 r/m
Voltage	230 V	230 V	230 V	230 V
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Connections	1/4"	1/4"	1/4"	1/4"
with adaptor	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M
Oil capacity	250 ml	330 ml	330 ml	590 ml
Weight	9.0 kg	10.7 kg	11.5 kg	17.0 kg
Pressure gauge Ø	50 mm	50 mm	50 mm	80 mm
Measuring unit	mbar / Mpa	mbar / Mpa	mbar / Mpa	mbar







ROAIRVAC 3.0 (85 l/min)



ROAIRVAC 6.0 (1701/min)

Mineral oil is included in all pump deliveries



ROAIRVAC 9.0 (255 Ilmin)



Scope of delivery ROAIRVAC: Vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	$\sqrt[4]{\log \Delta}$	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 9.0	255 l/min	17.0	170064
Mineral oil, 1 litre			169200

ROAIRVAC - vacuum pump in use with the digital manifold ROCOOL 600







## **Recovery & Filling**

#### **ROREC**

#### Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants









#### **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**

Suitable for: all refrigerants of the type CFC-HCFC-HFC

Capacity: gaseous: 0.26 kg / min

fluid: 1.85 kg / min Push/Pull: 6.22 kg / min

**Electrical Data:** 230 V / 50 - 60Hz

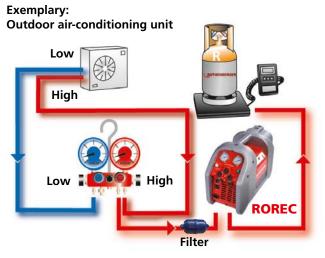
Power: 370 W High pressure switch: 38.5 bar

**Dimensions:** 490 x 244 x 353 mm

Weight: 17 kg



#### **Recovery of Refrigerant**



Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories on the back



Model	Connected Load	$\sqrt[]{\log \Delta}$		No.
ROREC Filter	370 W	17.0 0.12	1	168605 168713

## **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

# 1 3









#### **TECHNICAL DATA**

Suitable for:all refrigerants type CFC-HCFC-HFCCapacity:gaseous:0.52 kg / min

fluid: 3.70 kg / min
Push/Pull: 9.95 kg / min

Electrical Data: 230 V / 50 - 60Hz

**Power:** 730 W **High pressure switch:** 38.5 bar

**Dimensions:** 490 x 244 x 353 mm

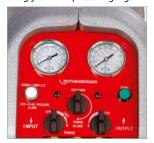
Weight: 19 kg

#### Oil-free 2-piston compressor Very high suction performance Also ideal for large facilities! with maintenance free operation Control lamp Thermal switch When green: Process is over Protects the unit from unit will turn off automatically overheating When red: The system pressure is too high unit will turn off automatically Light and compact plastic casing Simple use Simple transport and use Controlled dosage of the refrigerant supply PURGE function Emptying of refrigerant residue in the unit (self-cleaning mode) 4-pole motor

## Simple and precise reading with the glycol filled pressure gauge

Removable cable

Prevents cable damage





Practical storage compartment for

Model	Connected Load	∆kg∆		No.
ROREC PRO	730 W	19.0	1	168606
Filter		0.12	1	168713

#### ROREC PRO in use



Increased torque and service life



## **Recovery & Filling**

#### **Refrigerant Recycling Bottles**

Empty, welded press gas bottles for collection of used refrigerant, volume: 14.5 litre, maximum filled weight: 10 kg, double connection valve for gaseous and fluid removal with dip pipe for standing bottle. With 2-way fill / disposal valve, bottle label and complete ADR papers. Colour is without obligation. Collection and disposal only possible in Germany



#### **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

Model			No.
R407C Refrigerant R407C in cardboard pa	ackagir	ng	
1   steel bottle 1/4" SAE	1	12	170913
2   steel bottle 1/4" SAE	1	6	170931
R410A Refrigerant R410A in cardboard pa	ackagir	ng	
1   steel bottle 5/16" SAE	1	12	170912
2   steel bottle 5/16" SAE	1	6	170932



## **Recovery & Filling**

#### **ROSCALE 120**

#### Electronic refrigerant scale

Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg

## BOTH E MOCENCER



#### **Product Profile**

#### **KEY FEATURES**

- Resolution of 5 g enables very precise filling
- Weight capacity sufficient for all common refrigerant bottles
- Cable connection enables comfortable use in every situation
- Bottle adaptor for connecting small refrigerant bottles (1 I and 2 I bottles)
- Refrigerant bottles of all sizes have enough space
- Large LCD display for comfortable reading of the result
- Simple use

#### **TECHNICAL DATA**

 Weight capacity:
 120 kg or 264 lbs

 Accuracy:
 +/- 0,5%

 Resolution:
 5 g / 0,2 oz.

Working temperature:  $-10^{\circ}$  C up to  $+49^{\circ}$  C / 14 up to  $+120^{\circ}$  F

**Connection:** 1/4" SAE for 1-2 lit. bottles

**Battery:** 9 V

**Platform size:** 230 x 230 x 53 mm

Weight: 3.28 kg



**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	S Volume	No.
Sanifresh (contains 12 bottles)	1 1(12) 400 ml	85800

#### **Bottle Connection and Adaptors**

#### For refrigerant bottles

For use with new refrigerant bottles on existing equipment



Model	No.
Adaptor, 1/4" connection	173205
Adaptor, 5/16" connection	173204
Adaptor, W21.8 x 1/4" SAE M connection	170950
with seal for 2 I sized bottles	
Adaptor, 1/4" SAE M - 3/8" SAE F connection	89501
Adaptor, 3/8" SAE M - 1/4" SAE F connection	89503
Adaptor, 1/4" SAE F - 5/16" SAE M connection	170016
Adaptor, 1/4" SAE M - 5/16 SAE F connection	259007
with valve trigger	

#### **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** 









## **8 piece set** (No. 1750.01) includes: spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

Fix with torque urgently necessary!

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	$\sqrt[]{\log \Delta}$	No.
Torque wrench set, 7 piece	3.5	175001

Accessories

#### **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	<mark>⊩∟</mark> mm	Clamping width up to mm	∑ <sub>g</sub> ∆	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





## **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, Temperature** 

#### **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: °C x 1.8 +32 = °F Conversion from °F in °C: (°F-32): 1.8 = °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	-273	-460	80	27	-60	-51
						-112	-80
						-460	-273

#### **Common threads**

UNF-Thread	SAE-Thread	Outer diameter (max. mm)	Internal diameter (min mm)	Lodes per inch	Increment (mm)
7/16" - 20	1/4"	11.079	9.738	20	1.270
1/2" - 20	5/16"	12.667	11.328	20	1.270
5/8" - 18	3/8"	15.839	14.348	18	1.411
3/4" - 16	1/2"	19.012	17.330	16	1.588
7/8" - 14	_	22.184	20.262	14	1.814
7/8" - 14	5/8"	22.184	20.262	14	1.814
1" - 14	3/4"	25.357	23.437	14	1.814
11/16" - 14	-	26.947	25.024	14	1.814
11/8" - 12	_	28.529	26.284	12	2.117
11/4" - 12	7/8"	31.704	29.459	12	2.117
13/8" - 12	-	34.877	32.634	12	2.117
11/2" - 12	1	38.052	35.809	12	2.117





# **General-Purpose Tools**

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**General Aids & Tool Bags** 





316 - 317

## **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



#### 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

Curve-Shape-Design: especially ergonomic

3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 2"



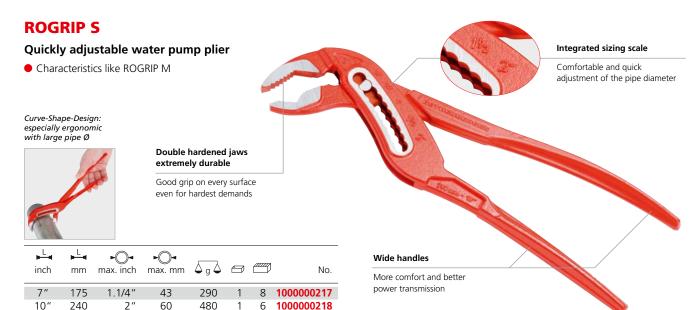


inch	⊫ L mm	<b>►</b> max. inch	<b>►</b> max. mm	ΔgΔ			No.
7"	175	1.1/4"	43	280	1	6	1000000213
10"	240	2"	60	460	1	6	1000000214



30% more gripping capacity!\*

#### **Pliers**



#### **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

inch

16"

440

max. inch

3.1/2"

max. mm

102

 $\triangle$  g  $\triangle$ 

1400

No.

1 1000000328

#### **TECHNICAL DATA**

**Chrome vanadium steel** tempered, drop forged with heavy-duty box joint

Polished head and joint

Double hardened jaws, extremely durable

# Enourmos gripping width of 3.1/2" - reliable grip during application



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

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"



#### **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





## **Pliers**

#### **Water Pump Pliers Type SPK**

#### **KEY FEATURES**

Features similar to type SP, additionally with plastic covered handles







Increased safety:
Plastic covered handles!



inch	<b>L</b> mm	<b>►</b> ○ <b>◄</b> max. inch	<b>►</b> ○ <b>⊲</b> max. mm	ΔgΔ			No.
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" Cc	ounter d	isplay			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**

- Completely relieves the joint screw with relief-milled grooves
- No slipping of the joint possible
- Absolutely firm fit in every open position
- Easy, smooth adjustment
- Induction hardened teeth for a long service life
- Crush and clamp guard prevent injuries
- Plastic covered handles



inch	mm	<b>►</b> ○ <b>⊲</b> max. inch	<b>►</b> ○ <b>⊲</b> max. mm	ΔgΔ	<i>(1111</i> )	No.
9.1/2"	245	1.1/2"	48	330	6	70591
12"	300	2"	60	560	6	70592
16"	420	4"	114	1,150	6	70593







## **General-Purpose Tools**

## **Pliers**

#### **Sets for Professionals**

Practice-oriented set of pipe wrenches and pipe cutter





**3-part set** (No. 070130X) includes: Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), 2" (No. 070124X)

4-part set (No. 070135X) includes:

Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

3-part set (No. 070140X) includes:

Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

Model	$\Delta_{kg}\Delta$		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
Set 1 - 1.1/2" + Wapu SP 10"	2.7	1	070140X
Tool bag "Trendy"	1.8	1	402311

#### **ACCESSORIES**





Description	$\sqrt{g}$		No.
Spare cutter wheel for TC 35 CU	100	1(5)	070017D

288

# 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





•	<b>○</b> - inch	mm	max. inch	max. mm	$\sqrt{g}$			No.
1.	/2"	22	10"	250	400	1	18	070121X
1	11	34	12"	300	810	1	18	070122X
1	.1/2"	48	16"	420	1.440	1	16	070123X

inch	mm	max. inch	max. mm	ΔgΔ			No.
2"	60	20"	540	2.440	1		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	$\sqrt{g}$			No.
1/2" 1"	22 34	10" 12"	250 300	370 740	1	6	070131X 070132X

inch	mm	max. inch	max. mm	$\sqrt{g}$		No.
1.1/2 <i>"</i>	48	16"	420	1.340	1	070133X
2 <i>"</i>	60	20"	540	2.400		070134X

# Pipe Wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled







inch	mm	max. inch	max. mm	ΔgΔ			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	$\Delta_g \Delta$		No.
3"	89	24"	640	3.400	1	70113
4"	114	36"	750	5.600	1	70114

# **Pliers**

# One Handed Pipe Wrench "HEAVY DUTY"

#### **KEY FEATURES**

- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of Ø using scale on hook
- Wearing parts replaceable:
   Hook and heel jaw can be purchased separately
- Monoblock cast body with high strength, double T profile, forged jaw and hook, fine polished, teeth set against turning direction, induction hardened, tempered and non-slip adjustment screw







US-Norm GGG-W-651 Type II Class A!

⊾_ inch	<u>L</u> mm	inch	mm	$\sqrt{\log \Delta}$		No. pliers	No. hook	No. 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!



inch	n mm	inch	mm	$\Delta_{kg}\Delta$		No. pliers	No. hook	No. 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!



inch	mm	inch	mm	$\Delta_{kg}\Delta$			No. pliers	No. 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



# **Pliers**

# 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

inch	<b>L</b> mm	►O⊲ inch	mm	ΔgΔ	8	No. pliers	No. hook	No. jaws
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

inch	mm	inch	<b>►</b> mm	$\sqrt[4]{g}$		No. pliers	No. hook	
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

m	<b>○</b> • ax. inch	<b>►</b> max. mm	<mark>⊩ L ⊲</mark> inch	<mark>⊩∟</mark> mm	√ <sub>g</sub> ∆			No.
	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

- 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

► <b>○</b> ⊲ max. inch	<b>►</b> max. mm	jaws width mm	<mark>⊩L</mark> mm	$\sqrt[4]{\log \lambda}$	No. pliers	No. jaws
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	$\sqrt{kg}$	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

# **Pliers**

# Fittings Wrench 90°

Special chrome vanadium steel, steel forged

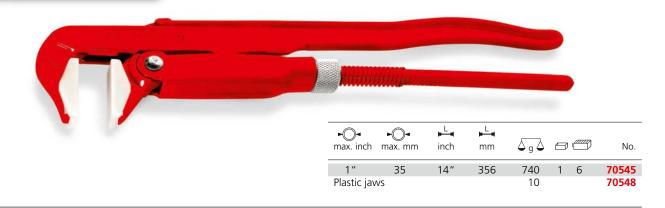
#### **KEY FEATURES**

- 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!



# **Fitting Key**

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces





Model	<mark>⊩L</mark> mm	Clamping width ar mm	nd depth mm	ΔgΔ	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



- Secure and gentle grip on valuable fittings without damaging polished surfaces
- ullet Optimum grip is ideal for plastic screw joints up to  $\emptyset$  62 mm (siphon)



Model	inch	mm	<b>►</b> ○ <b>¬</b> max. mm	<b>▶</b> ○ <b>◄</b> min. mm	ΔgΔ	No.
SANIGRIP	10"	250	80	14	270	70415
SANIGRIP PL	10"	250	62	14	280	70416
Plastic jaws (	oair) foi	r Sanigrip	PL		10	70417

# **Pliers**

# **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



inch	<mark>⊩_</mark> mm	Jaw width mm	ΔgΔ	No.
10"	250	4 -16	490	70250



# **Pipe Welding Grip Pliers**

Chrome vanadium steel, nickel-plated, hardened jaws made of chrome vanadium steel

- For safe, central clamping of pipes and round material aligned during welding work
- Reliable 3-point support, for steel pipes up to Ø 3"
- U-shaped clamping jaws allow enough room for welding
- With leverage and quick-release lever, adjustable and lockable

inch	<mark>⊩_</mark> mm	Jaw width mm	ΔgΔ	No.
11"	280	95	840	70257



# **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

Model	<b>►</b> O⊲ mm	inch	$\sqrt[4]{\log \lambda}$	No.
EASYGRIP	20-160	3/4"	1.0	55075
Spare strap EASYGRIP			0.1	55076



# **Strap and Fittings Wrench**

Made of aluminium special alloy, with replaceable nylon strap

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)

inch	<b>►</b> mm	inch	mm	$\sqrt{g}$	No.
3"	89	12"	300	280	70240
Spare stra	o 3"			20	70268
8"	220	12"	300	290	70241
Spare stra	p 8"			30	70269





# **Installation Wrenches**

# **UNI Stepped Key Set**

For installation and removal of heating valve nipples, tank connectors and short tap extensions. Chrome vanadium steel, hardened, nickelplated, square drive 1/2"

#### **Product Profile**

#### **KEY FEATURES**

- Universally applicable: cam, internal hexagonal and 12-edged driver, size 3/8 - 1/2 - 3/4 - 1" and other sizes in between
- No canting of nipples and screw connections with the special stepped key design
- Combination key allows installation and removal of heating nipples, tank connections and short tap extensions
- ▶ 1/2" Ratchet makes installations quick and easy







Model	ΔgΔ		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



**KEY FEATURES** 

**Express Spanner** 



# **Express Spanner**

Chrome vanadium steel, drop forged, chrome-plated



 With the smallest of ratchet angles, fine-toothed, R/L switchable, 12-edged, flat offset

**Ring Ratchet 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)



Spanner width	for	hanger bolts Size	<mark>⊩</mark> mm	$\sqrt{g}$	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

# **Ring Ratchet Express Spanner**









# **Installation Wrenches**

# **Bolt Driver**

Bolt driver M6, M8, M10, M12 with 1/2" ratchet connector

#### **KEY FEATURES**

- Without damage to the screw thread, for express and hanger bolts
- Easy loosening of the screw with the integrated ball seat

**4-part set** (No. 26164) includes: Bolt Driver M6 (No. 26160), M8 (No. 26161), M10 (No. 26162), M12 (No. 26163), steel carrying case

Model	<u>L</u> mm	ΔgΔ	No.
Set M6 - M8 - M10 - M12 Bolt driver M 6	35	650 70	26164 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

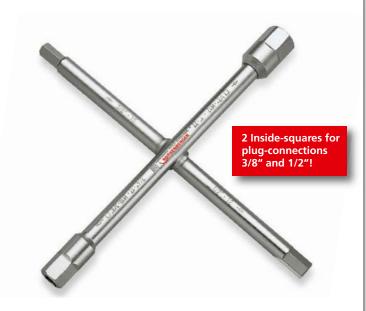
# **Sanitary Four Way Key**

**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 M6 for hanger bolts (wash basin fittings)



Model	Dimensions mm	∆ <sub>g</sub> ∆	No.
Sanitary Four Way Key with	220 x 220	610	351043
10 functions			



Model	Dimensions mm	√g Å	No.
Sanitary Four Way Key	200 x 200	530	351044
multifunctional			





# **Installation Wrenches**

# **ROFIX SANISET Profi**

#### Installation tool



ACID Sames Art. 6s. 7.3300

ROTHENBERGER

CONTENSE AGER

No. 73200



# 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	$\Delta_{g}\Delta$	No.
ROFIX SANISET Profi	9	)-10-11-12-13-14	1,500	73202
ROFIX SANISET		9-13	900	73200
Bolt Driver tool				
M8/M10		215	120	73201
RO-QUICK 2-Adaptor		90	40	73206
Special extension size	9	185	50	73210
Special extension size	10	185	50	73209
Special extension size	11	185	50	73208
Special extension size	12	185	50	73212
Special extension size	13	185	50	73213
Special extension size	14	185	50	73214

# **RO-QUICK**

### Valve key

Release valve holder and key for eccentric and standard valves





# **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	<b>⊢</b> mm	$\sqrt[4]{g}$	No.
RO-QUICK Set			70439
RO-QUICK Valve Key	120	300	70414
Adaptor	75	70	70413



# **Installation Wrenches**

# **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°!



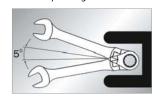


7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	$\sqrt{g}$		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





No.



Model

Fix with torque urgently necessary!

 $\Delta_{kg}\Delta$ 

8 piece set (No. 1750.01) includes: spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

Torque wrench set, 7 piece		3.5	175001
Pipe-Ø	Spanner width	J	ocking 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

### **ROTURN**

# Combined ring / open-ended spanner

Chrome vanadium steel, polished and high shine chrome-plated



- Loosening of up to 70% of damaged hexagonal screws with hexagonal open end and ridged profile
- Ergonomically optimised: Pressure on the flat side of spanner makes work easier



Protects the hand





8 part set (No. 70475) includes: ROTURN 10 - 11 - 13 - 14 - 16 - 17 - 19 - 22 mm,

Model	$\sqrt{\log \Delta}$		No.
ROTURN spanner set, 8 pieces	1.7	1 12	70475



# **Installation Wrenches**

# **ROCLICK Key**

Chrome vanadium, head black atramentized



Model	Key width mm	<mark>⊩∟</mark> mm	ΔgΔ	No.
ROCLICK Key 10	10	134	80	70420
ROCLICK Key 11	11	137	80	70419
ROCLICK Key 12	12	137	80	70421
ROCLICK Key 13	13	137	90	70422
ROCLICK Key 14	14	140	90	70423

#### **KEY FEATURES**

- With the spring mechanism the harder the pressure, the more firmer the grip
- Self-ratcheting effect when turning back
- Fast extraction and loosening of screws
- Suitable especially for screws on pipes, cables and rods



Model	Key width mm	<del>L</del> mm	$\sqrt{g}$	No.
ROCLICK Key 16	16	184	130	70424
ROCLICK Key 17	17	184	140	70425
ROCLICK Key 19	19	188	188	70426
ROCLICK Key 21	21	230	230	70427
ROCLICK Key 24	24	240	240	70418

# **Ring Spanner**

Chrome vanadium steel, drop forged, chrome-plated



Model	<mark>⊨ L</mark> mm	ΔgΔ			No.
Spanner Set 7 pieces		3,500	1		70281
10 x 11	200	120	1	36	70270
12 x 14	230	200	1	36	70271
13 x 17	250	280	1	36	70272

# **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	<u>L</u> mm	∑ <sub>g</sub> ∑			No.
15 x 16	260	320	1	36	70273
19 x 22	310	440	1	36	70274
24 x 27	360	700	1	36	70276
30 x 32	410	990	1	36	70277

# **Adjustable Wrench**

Chrome vanadium steel, drop forged, chrome-plated and polished



Size inch	mm	Clamping width up to mm	ΔgΔ	No.
4"	120	16	80	70440
6"	160	20	100	70441
8"	210	25	220	70442

# **KEY FEATURES**

Precise operation: Smooth-running and robust roller with minimum play in the sliding guides



Size inch	mm	Clamping width up to mm	Δgδ	No.
10"	250	29	390	70443
12"	300	34	660	70444
15"	380	44	1,170	70445

# **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



<mark>L →</mark> mm	inch	Clamping width mm	Clamping width inch	ΔgΔ	No.
160	6"	SW 9-17	1/8" - 3/8"	80	70220
200	8"	SW 14 - 28	1/4" - 3/4"	200	70221

# **Enormous leverage!**

	mm	inch	Clamping width mm	Clamping width inch	$\sqrt{g}$	No.
Ī	255	10"	SW 16 - 33	3/8" - 1"	340	70222
	310	12"	SW 22 - 42	1/2" - 1.1/4"	520	70223

# **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

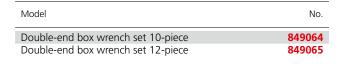
# 12-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



Chrome vanadium steel, chrome-plated DIN 3113

8x8, 9x9, 10x10, 11x11, 13x13,14x14, 17x17, 19x19 mm







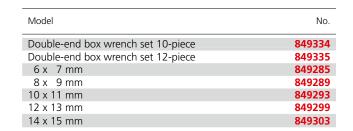
# **Double-end Box Wrench Set**

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.
16 x 17 mm	849306
18 x 19 mm	849308
20 x 22 mm	849311
21 x 23 mm	849313
24 x 27 mm	849317
25 x 28 mm	849319
30 x 32 mm	849323





# **Screwdrivers**

# **EUROLINE®**

**Screwdrivers** 

# (€

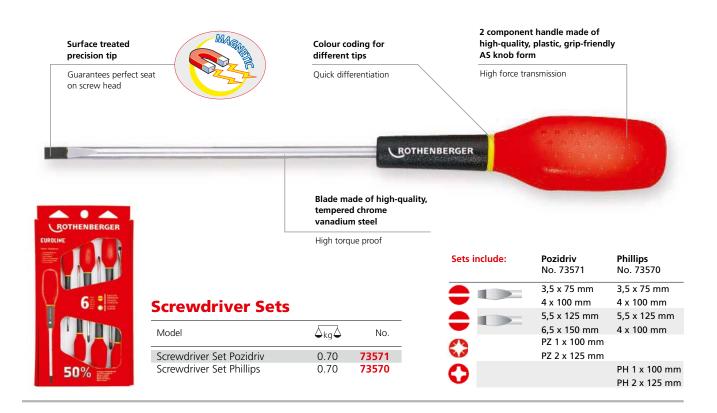
#### **Product Profile**

#### **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







Slot Screwdriver

# **ROBIT**

# 10-piece bit set

With magnet holder and front tip



Model	No.
ROBIT bit set (10-piece)	73670

80

98

80

73152 73153

73161

73162

Phillips

Phillips

Pozidriv

Pozidriv

PH 1 x 100

PH 2 x 125

PZ 1 x 100

PZ 2 x 125

# **Screwdrivers**

# **EUROLINE® IMPAKT**

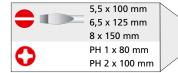
Screwdriver with continuous, strengthened blade

#### **Product Profile**

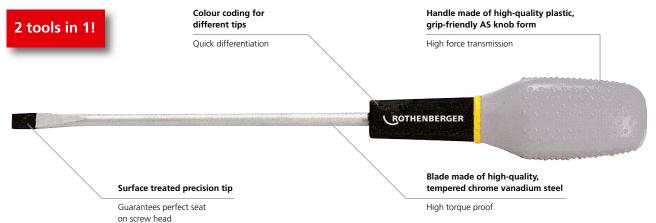
#### **KEY FEATURES**

 One-piece, strengthened blade with metal cap allows directed hammer blows, for example loosening stuck screws

#### Set (No. 73575) includes:







#### Constant strenghtened 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	ΔgΔ	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	$\sqrt[4]{g}$	No.
VDE Screwdriver Set, includes:	680	323126
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-teste	r	







# **Installation Aids**

# **ROCHECK**

#### Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

#### **KEY FEATURES**

- With horizontal and head levels
- One side with 1/2" external screw thread

# **Precise Installation!**



# **ROCHECK**

#### Spirit level for standard distances



Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

#### **KEY FEATURES**

• For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm

# **Exact Adjustment!**

#### Exact installation by assembling jig for braces



4-part set (No. 70667) includes: Spirit level for angled valves 200 mm (No. 70661), Spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

Model	ΔgΔ	No.
ROCHECK Set in steel case	2.260	70667
ROCHECK spirit level for angled valves 200 mm	220	70661
ROCHECK spirit level for standard distances 300 m	nm 260	70665

# **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	$\sqrt[4]{\log \Delta}$	No.
9-part set	1.25	854390



# **Installation Aids**

# **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		ΔgΔ	No.
RODOKIT Set RODOKIT Basic Tool		1.170 230	70980 70981
Cone adaptor		100	70992
Dimensions	ΔgΔ	Cutter	Adaptor
12 mm	10	70982	70986
15 mm	10	70983	70987
16 mm	10	70984	70988
18 mm	10	70985	70989





With rust-free steel cutter for high-quality armature!



# **Tap Reseating Tool**

For exact re-cutting of worn tap seats from leaky spigots

Prod	uct	Drofi	ما

- 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	<b>▶</b> inch	$\sqrt{g}$	No.
Basic Tool with cutter	3/8" - 1"	350	70970
3/8"-1/2"-3/4"-1" in Box			
Basic Tool with cutter	3/8" - 1"	980	70974
3/8"-1/2"-3/4"-1"			
and each with 3 seals in steel comp	artment		
Basic Tool with cutter	1/4" - 1"	1.060	70972
1/4"-3/8"-1/2"-3/4"-1"			
and each with 3 seals in steel box			
Basic Tool without cutter		250	70950
Water-tap valve seat cutter			70951
Spare cutter	1/4"	10	70976
Spare cutter	3/8"	10	70954
Spare cutter	1/2"	10	70955
Spare cutter	3/4"	20	70956
Spare cutter	1"	30	70957











# **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° = 0.5 mm / m

<b>L</b> mm	↓ g ↓	No.
300	190	255030
400	260	255040
500	320	255050
600	340	255060
800	520	255080
1,000	640	255100
1,200	820	255120

# **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	ΔgΔ	No.
ROMATIC	3	16	120	77396
ROMATIC	5	19	230	77397
Flexible ruler	2		100	252100

# **Basin Nut Wrench**

Special chrome vanadium steel, drop forged, very tough

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation









Clamp	oing range	<u> </u>	$\overline{}$			
mm	inch	mm	△ g △			No.
10 - 32	3/8" - 1.1/4"	235	475	1	40	70228



# **Installation Aids**

# **Telescopic Basin Nut Wrench**

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation



Clamp mm	ing range inch	<mark>⊩ L ⊲</mark> mm	Δgδ	No.
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"- 21/2"	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



<u>L</u> inch	<mark>⊩ L</mark> mm	Sheet thickness mm	∑g ∆	No.
10"	250	1.0	450	71095

# **Tower Pincers / Concreter's Nippers**

Special forged steel, slim head, polished, long plastic covered handles



inch	<mark>⊫ L</mark> ⊲ mm	Clamping width mm	√ <sub>g</sub> √	<i>ann</i>	No.
9"	225	22	330	6	70118
10"	250	26	440	6	70119

# **Basin Nut Wrench**

Special chrome vanadium steel, drop forged, coated with adjustment screw



Model	<mark>L</mark> mm	$\sqrt{g}$	No.
Basin Nut Wrench	270	580	351050

# **ROBOLT Bolt Cutter**

Effortless cutting of construction steel up to 1300 N/mm² (HRC 40), gate steel, concrete steel types I, II, III, IV, pre-stressed concrete steel and steel wire



<mark>⊩</mark> mm	<mark>L ⊲</mark> inch	Cutting perform 490 N/mm²	nance Ø mm 1300 N/mm²	$\sqrt{\log \Delta}$	No. Robolt	No. head
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



inch	<mark>⊩_</mark> 4 mm	Clamping width mm	ΔgΔ	No.
10"	250	32	570	70252

# **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







<u>L</u> mm	Model	ΔgΔ	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







<u>L</u> mm	Model	∆ <sub>g</sub> ∆	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



# **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







<u>L</u> mm	Model	ΔgΔ	No.
180	DIN 5238A	250	324588



<u>L</u> mm	►O⊲ max mm	ΔgΔ	No.
165	5	160	324800

# **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







<u>L</u> mm	Model	ΔgΔ	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







<u>L</u> mm	Model	ΔgΔ	No.
200	DIN 5236D	200	324739

# **Installation Aids**

# **Allen Key with Cross Handle**

Blade made of chrome vanadium special steel, shiny nickel-plated, shock-resistant handle



Blade length mm	ΔgΔ	No.
200	30	321523
200	40	321524
200	80	321525
200	100	321526
200	130	321528
200	220	321529
200	290	321530
	200 200 200 200 200 200 200 200	mm

# **Allen Key Set**

CV steel 50Cr-V4, achromatised, hardness and torque in compliance with DIN 911







No. 70301/70302

Model	Size mm / inch	Δgδ	No.
Clip holder	2,5-3-4-5-6-8-10 mm	340	70301
Clip holder	3/32-1/8-5/32-3/16-1/4-5/16-3/8"	340	70302
Ring	2-2,5-3-4-5-6-8-10 mm	250	321300

# **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







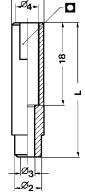
#### Instructions for screw extraction

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

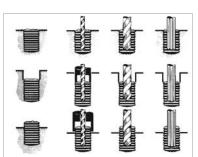
•	Set	Set contains complete for	Contains piece	ΔgΔ	No.
ĺ	Size 1	M 5 - M 12	21 pieces	450	71310
	Size 2	M 5 - M 16	25 nieces	580	71311



Ø1 -



Fig. Screw Extraction Set, 25 pieces



For thread	Guide bush size	Guide bush No.	<b>▶</b> 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	71291			3.2	71301	Size 1	71281	Size 1/SW10	71286
M 6	Size 2	71292			3.2	71301	Size 1	71281	Size 1/SW10	71286
M 7	Size 3	71293	3.2	71301	4.8	71302	Size 2	71282	Size 2/SW11	71287
M 8	Size 4	71294	3.2	71301	4.8	71302	Size 2	71282	Size 2/SW11	71287
M 9	Size 5	71295	4.8	71302	6.4	71303	Size 3	71283	Size 3/SW13	71288
M 10	Size 6	71296	4.8	71302	6.4	71303	Size 3	71283	Size 3/SW13	71288
M 12	Size 7	71297	4.8	71302	8.0	71304	Size 4	71284	Size 4/SW14	71289
M 14	Size 8	71298	6.4	71303	8.7	71305	Size 5	71285	Size 5/SW17	71290
M 15	Size 9	71299	6.4	71303	8.7	71305	Size 5	71285	Size 5/SW17	71290
M 16	Size 10	71300	6.4	71303	8.7	71305	Size 5	71285	Size 5/SW17	71290

# **Cutting Discs**

#### **Cutting Disc Assortment** High strength stee dged steel profile Rust- and acid-resistant steel unalloyed steel Welded joints For burr-fee and quick cutting of stainless steel, steel, cast iron and stone Description No. Cutting disc INOX Profi Plus (115 x 1 x 22) 071533D Cutting disc INOX Profi Plus (125 x 1 x 22) 071534D 0 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

### **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	\$\int_g\$ \$\infty\$ \$\
Profi Plus box 115	115 x 1.0 x 22	350 1(10) 25 <b>071533D</b>
Profi Plus box 125	125 x 1.0 x 22	450 1(10) 25 <b>071534D</b>



#### **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	$\Delta_g \Delta$		No.
Safe Cut box 115	115 x 2/1 x 22	350	1(10)	071551D
Safe Cut box 125	125 x 2/1 x 22	450	1(10)	071552D



#### 2 IN 1

#### Cut-off and grinding disc for steel and stainless steel

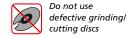
- Fast cutting and side grinding in one step
- For cutting at a comfortable speed
- Instant (without changing wheel) deburring, chamfering and grinding
- The lateral load is certified (CN 12413)

Model	Dimensions mm	∑ <sub>g</sub> ∆		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















# **PROFI PLUS**

# Twist drill set DIN 338 Type N

HSS rolled, all drill diameters in 0.5 mm diameter steps



Model	Drill range mm	Number drills	∆ <sub>g</sub> ∆	No.
In steel box	1.0 - 10.0	19 pc.	710	817000
In steel box	1.0 - 13.0	25 pc.	1400	817003
In round box	1.0 - 10.0	19 pc.	465	816990



No. 817000

-0-	
mm	No.
1.0	817012
1.5	817017
2.0	817022
2.5	817027
3.0	817032
3.5	817037
4.0	817042
4.5	817047
5.0	817052
5.5	817057
6.0	817062

mm	No.
6.5	817067
7.0	817072
7.5	817077
8.0	817082
9.0	817092
9.5	817097
10.0	817102
10.5	817104
11.0	817106
11.5	817108
12.0	817110

# **HM-Stone Drill**

High-performance drill made with carbide



<b>▶</b> ○	No.	<b>►</b> mm
4	112040 112042	9
6	112044	12
8	112046 112047	13 14

# **Flat Center Bit**

For precise drilling depth



<b>►</b> ○ <b>◄</b> mm	No.
10	464010
12	464012
14	464014
16	464016
18	464018
20	464020
25	464025

mm	No.
28	464028
32	464032
35	464035
38	464038
40	464040
Extension	463610
6 x 300 mm	





# **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



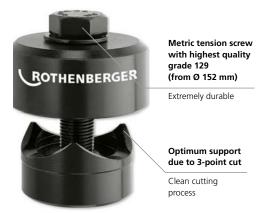




Fig. Chassis Punch

<b>►</b> ○ <b>▼</b> mm	Through - size	$\sqrt[]{g}$	No.
28.3	PG21	220	21828
32		260	021832X
34		260	21834
35		270	21835
36		270	21836
38		370	21838

**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	$\sqrt[]{g}$	No.
Chassis Punch, 5 pieces Spare screw M10 x 1.0 for Ø 16-38 mm Spare screw M12 x 1.5 for Ø 39-50 mm Spare screw M16 x 1.5 for Ø 51-65 mm	750	21801 21902 21903 21904

# **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	<b>►</b> mm	ΔgΔ	No.
UNIDRILL stepped drill bit set, 3 pieces	4.0 - 30.0	660	21313

Size	<b>►</b> mm	<b>p</b> L⊲ mm	Shaft mm	ΔgΔ	No.
1	4 - 12	65	6	22	21305
2	4 - 20	75	8	60	21306
3	4 - 30	100	10	185	21307



# **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	<b>L</b> mm	Shaft mm	mm	ΔgΔ	No.
UNIDRILL set	with drill past	te	3.0 - 30.5	380	21545
1	58	6	3.0 - 14.0	20	21541
2	71	8	5.0 - 20.0	56	21542
3	76	9	16.0 - 30.5	120	21543
EVERCOOL d	rill paste, 50 g			80	21549





# **HSS Bimetal Hole Saws**

Suitable for carbon steel (up to 700 N/mm2 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	$\sqrt{\log \Delta}$	No.
19 - 22 - 29 - 38 - 44 - 57 mm	1.27	114201
19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm	1.70	114202

# **Adaptor Holder**

For HSS Bimetal hole saws with center drill

Type for Hole	saw Ada	ptor $\Delta_g$	No.
A1 up to 30 A2 32 up to 1 Spare center dril Extension 300 m	52 mm 12 mi I, HSS 6.35	m - hex 75 m - hex 230 5 mm 20	114161 114162 114171 114175

# No. 114161 No. 114162 No. 114201

# **HSS Bimetal Hole Saws**

	<b>►</b> mm	for use with holder	No.
ĺ	14	A1	114014
	16	A1	114016
	17	A1	114017
	19	A1	114019
	22	A1	114022
	25	A1	114025
	28	A1	114028
	29	A1	114029
	30	A1	114030
	32	A2	114032
	33	A2	114033
	35	A2	114035
	36	A2	114036
	37	A2	114037
	38	A2	114038
	40	A2	114040
	41	A2	114041
	43	A2	114043
	44	A2	114044
	46	A2	114046
	48	A2	114048

No.	for use with holder	<b>►</b> mm
114051	A2	51
114052	A2	52
114054	A2	54
114057	A2	57
114060	A2	60
114065	A2	65
114064	A2	64
114067	A2	67
114070	A2	70
114079	A2	79
114083	A2	83
114089	A2	89
114092	A2	92
114098	A2	98
114102	A2	102
114105	A2	105
114111	A2	111
114114	A2	114
114127	A2	127



# **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



Hole saw set



Fig. UNICUT HM hole saw set

mm	inch	ΔgΔ	No.	mm	inch	∑ <sub>g</sub> ∆	No.
16	5/8"	100	21316	30		140	21330
17		110	21317	31		180	21331
18		110	21318	32	1.1/4"	180	21332
19	3/4"	120	21319	33		180	21333
20		120	21320	34		180	21334
21		120	21321	35	1.3/8"	190	21335
22	7/8"	120	21322	36		190	21336
23		140	21323	37		190	21337
24		140	21324	38	1.1/2"	190	21338
25	1"	120	21325	39		190	21339
26		130	21326	40		200	21340
27		130	21327	41	1.5/8"	200	21341
28	~1.1/8"	130	21328	42		200	21342
29		140	21329	43		210	21343









Set (No. 21300) includes: Hard metal hole saws, cutting spray 50 ml and spare centering pin  $\emptyset$  6 mm (No. 21394), in plastic case

Model	$\sqrt[4]{g}$	No.
UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm	950	21300 21394
Spare centering pin HSS 6 mm Spare centering pin HSS 8 mm		21394

mm	inch	√g ∆	No.	mm	inch	ΔgΔ	No.
44		210	21344	70	2.3/4"	390	21370
45	~1.3/4"	210	21345	75	3"	400	21375
46		210	21346	80	~3.1/8"	420	21380
47		210	21347	85	~3.3/8"	450	21385
48	~1.7/8"	220	21348	90 -	~3.9/16"	550	21386
49		230	21349	95	3.3/4"	580	21387
50		250	21350	100	4"	590	21388
51	2"	260	21351	110	4.3/8"	700	21389
52		270	21352	120	4.3/4"	830	21390
53		270	21353	130	5.1/8"	880	21391
54	2.1/8"	280	21354	140	5.1/2"	880	21392
55		280	21355				
60	2.3/8"	360	21360				
65	2.5/8"	390	21365				

# **Hammers, Chisels, Pin Punches**

# **Fitter's Hammer**

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft



Head weight $\sqrt[4]{g}$	Total weight $\sqrt[4]{g}$	No.
300	470	322823
400	590	322824
500	670	322825
800	1,180	322827
1000	1,210	322828

# **Lump Hammer**

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft





Head weight $\sqrt[4]{g}$	Total weight $\sqrt[4]{g}$	No.
1000	1,170	322921
1250	1,380	322922
1500	1,670	322923
2000	2,250	322924

# **Centre Punch**

Tip and cone polished, shaft: octagonal, complies with **DIN 7250.** Chrome vanadium steel, air-hardened and forged



**DIN** -Norm



Cone tip	<b>⊢</b> mm	Shaft	ΔgΔ	No.
4	120	10	50	77279

# Pin Punch Set, 6 pieces



**6-piece set** (No. 77297) includes: pin punches, 1 per size 150 x 10 x Ø 3, Ø 4, Ø 5, Ø 6 mm, 2 pin punches 150 x 12 x Ø 7, Ø 8 mm

Mode	el	ΔgΔ	No.
Pin F	Punch Set	550	77297

No. 77164

No. 25811

# **Chisel**

Safety tempered impact head prevents splintering off the chisel head

- Silver lacquered tip
- Chrome manganese silicon steel



No. 77050	
GOTHENBERGER	ROTHENE
No. 77072	

Model	Length mm	Shaft mm	Cutting Width mm	without hand protection $\sqrt[]{g}$	No.	with hand protection $\sqrt[]{g}$	No.
Mason Chisel, flat	300	16	22	470	77033	560	77050
Mason Chisel, pointed	300	16	-	455	77072	545	77090
Electrician Chisel	250	8	13	95	77164		
Slotted Chisel	235	26 x 7	26	245	25811	345	25810

# **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	Clan width mm	nping depth mm	for pipes inch	for pipes mm	$\sqrt[]{\log \lambda}$	No.
120 140	125 150	65 80	3/8 - 1.1/2" 3/4 - 2"	16 - 55 27 - 70	8.7 <b>070</b> 15.6 <b>070</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	<b>▶</b> for pipes / mm	$\sqrt[4]{\log \Delta}$	No.
1/8 - 2"	10 - 60	3.7	70710
Spare jaws (contains 3 pcs.)		0.2	70670
1/8 - 3"	10 - 89	7.9	70712
Spare jaws (contains 3 pcs.)		0.2	70672
1/8 - 4"	10 - 114	11.7	70711
Spare jaws (contains 3 pcs.)		0.2	70671

# **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







For pipes / inch	for pipes / mm	$\sqrt[]{\log \lambda}$	No.
1/8 - 21/2"	10 - 76	3.8	70713
Spare jaw		0.7	70734
Spare chain		0.5	70731
1/8 - 4"	10 - 114	6.2	70714
Spare jaw		0.8	70721
Spare chain		0.6	70732
1/8 - 6"	10 - 165	9.3	70715
Spare jaw		0.9	70722
Spare chain		1.3	70733

# **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	$\Delta_{kg}\Delta$	No.
ROBOY®	650 x 400	14.9	70700

# Workbenches

# **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)

# **Working Unit**

# with pipe vice 1/8 - 2"

- Collapsible, stable, non-slip frame,
- with folding pipe vice, bending holes and large tool tray

Description	$\sqrt[]{\log \Delta}$	No.
Tripod universal workbench with chain vice	16.0	70752
Tripod universal workbench without chain vice	15.3	70751
Tool 1/8" - 2"	21.0	70740

# **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	$\Delta_{kg}\Delta$	No.
Telescopic workbench	700 x 450 x 30	17.4	070699X



# **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	$\Delta_{kg}\Delta$	No.
Installer Pipe-fitter	1200 x 550 x 835 1000 x 700 x 835	30 32	070690X 70696
Pipe-fitter	1200 x 750 x 835	38	70698



# **General Aids & Tool Bags**

# Hemp Dispenser with Roll / Teflon Sealing Tape



Model		No.
Roll 40 g / 40 m 12 m on plastic bobbin	1	<b>70623</b> 855360

# All-purpose Marker

Writes on tile and glass



# **Carpenter Pencil**



Model		No.
All-purpose Marker	1	856911
Carpenter pencil	1	856907

# **Cable Knife**

Blade made of hardened steel

# **Cutter Knife**



Model		No.
Cable knife with wooden handle, riveted	1	355600
Cutter knife incl. 4 blades, 18mm	1	1500000087
Blades for cutter knife (10 piece)	1	1500000088

# Tool Bag "Installer"

- With practical outside pockets for quick access
- With carrying handle and adjustable shoulder strap for comfortable transport



Volume: approx. 20 l

Model		No.
Plumbers Tool Bag (460 x 260 x 260)	1	402310

# **Tool Bag "Heavy Duty"**

- Especially stable with the stable plastic bottom
- With carrying handle and adjustable shoulder strap for comfortable transport





Volume big: approx. 30 l

Volume small: approx. 20 l

Model	$\exists$	No.
Tool bag "Heavy Duty" big (620 x 250 x 350 mm)	1	402317
Tool bag "Heavy Duty" small (410 x 230 x 300 mm)	1	402316

# Tool Bags Tool Bag "Trendy"

- Lots of storage room for all your tools
- Keeps things organized, thanks to the many compartments

# Tool Bags Toolbox "Trendy"

No. 855360

- Quick access to tools with the open bag
- Reinforced side walls provide stability
- Carrying comfort with the sturdy carrying handle and adjustable shoulder strap

# Tool Bags Shoulder Toolbox "Trendy"

- Very light, handy bag for the most important tools
- Small pockets on the side keep things in view







Volume: approx. 8 l

Model		No.
Tool bag "Trendy" (380 x 300 x 370 mm)	1	402311
Tool bag "Trendy" (230x 230 x 210 mm)	1	402309

Model		No.
Shoulder toolbox "Trendy" (250 x 220 x 140 mm)	1	402308



# **Tool Bags**

# **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 "5" (1.112"), 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 piece	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



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 (ROCKLICK, 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 / 32Zp), 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 Pilers (180 mm), scraper (40 mm), Edge Cutter (160 mm), Combination Spanner Set (8 - 22, 8 pcs.), Service Case

Model		No.
Service Case, 67 piece	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 merchandises dangereuses par route (french)
AG	Silver
AL	Aluminium
AMS	Acetylen-Maxigas-Oxygen
AS	Non-slip
В	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 Hydroflurocarbons
нм	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

# **Abbreviations**

Abbreviation	Description
LED	Light Emitting Diode
МІМ	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
тс	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	Obital Circular Saw
UNC	Unified Coarse Threads
UNF	Unified Fine Thread
VA (Stahl)	Stainless Steel, Corrosion Resistant Steel
VCR	Video Cassette Recording
VDE	Registered Association of the Electrical, Electronic and Information Technology
VPE	Packaging Unit
WG	Hot Gas
ZN	Zinc
ZPZ	Bits per Inch
ZVSHK	German Central Association Plumbing, Heating and Air Conditioning





# **Pictograms**









AC 115 V



AC 110 V



Three-phase current 400 V



Batterypowered



Cable length 5 m



Battery + AC operation possible



Battery operation



Battery charger

#### Arbeitsvorgang

Stromversorgung



Can be used overhead



Can be used in confined spaces



Suitable for tight spaces



Basic soft soldering up to 450 °C



Hot brazing 450 ° - 1100 °C



Max autogen welding 1100 °C



Fast cut



No deformation from use



Dry drilling



Wet drilling



Up to 50% time-saving



Portable operation



360° rotatable



Fine adjustment of the flame

#### Produkteigenschaften



Ergonomic design



Meets DIN standards



VDE approved



Handy



Environmentally friendly



Impact protection



Shock absorption



Sturdy casing



Constant pressure control





Oxygen



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



**Emergency stop** switch



Lock button



LED display



Inspection window



display adjustable



Pressure gauge class 1 - 6



Pressure gauge 63 mm



Pressure gauge 80 mm



Scale range max. 5 kg



Scale range max. 50 kg



Scale range max. 110 kg



Scale range max. 120 kg



Measuring accuracy up to 1 g



Measuring accuracy up to 10 g



Filling supports



Counter display



Balance point in handle



Transport



Heed safety warning



Heed industrial safety



Don't



With USB connection



With video



With photo



Memory card



WiFi





#### **ROTHENBERGER Enclosed Power Transmision**

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

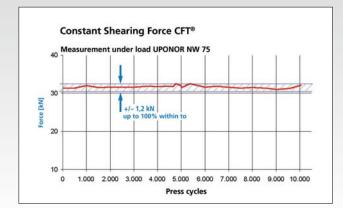
19-21 kN für 10,000 press cycles

**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





1 (12) = 1 Display, Content 12 pieces

1/12 = packaging units 1 pieces oder 12 pieces





## **Notes**





# ROTHENBERGER

#### **Imprint**

This catalogue is a publication of ROTHENBERGER Werkzeuge GmbH Industriestraße 7
D-65779 Kelkheim / Germany
Telephone + 49 (0) 61 95 / 800-1
Fax + 49 (0) 61 95 / 800 - 84 00
info@rothenberger.com
Registration Office Königstein / Taunus HRB 2732

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#### ROTHENBERGER Worldwide

Australia ROTHENBERGER Australia Pty Ltd

Unit 6, 13 Hoyle Avenue Castle Hill • NSW 2154

Tel. + 61 2 / 98 99 75 77 • Fax + 61 2 / 98 99 76 77

rothenberger@rothenberger.com.au www.rothenberger.com.au

Austria ROTHENBERGER Werkzeuge- und Maschinen Handelsgesellschaft m.b.H.
Gewerbeparkstraße 9 • A-5081 Anif
Tel. + 43 62 46 / 7 20 91-45 • Fax + 43 62 46 / 7 20 91 - 13 office@rothenberger.at

Belgium ROTHENBERGER Benelux b.v.b.a.

Antwerpsesteenweg 59 • B-2630 Aartselaar Tel. + 32 3 / 8 77 22 77 • Fax + 32 3 / 8 77 03 94 info@rothenberger.be

www.rothenberger.be

Brazil ROTHENBERGER do Brasil LTDA

Av. Fagundes de Oliveira, 538 - Galpão A4 09950-300 - Diadema / SP - Brasil Tel. + 55 11 / 4044-4748 • Fax + 55 11 / 4044-5051 spacente@rothenberger.com.br www.rothenberger.com.br

Bulgaria

ROTHENBERGER Bulgaria GmbH Boul. Sitnjakovo 79 • BG-1111 Sofia Tel. + 35 9 / 2 9 46 14 59 • Fax + 35 9 / 2 9 46 12 05 info@rothenberger.bg www.rothenberger.bg

China ROTHENBERGER Pipe Tool (Shanghai) Co., Ltd.
D-4, No. 195 Qianpu Road, East New Area of Songjiang
Industrial Zone, Shanghai 201611, China
Tel. + 86 21 / 67 60 20 61 • + 86 21 / 67 60 20 67
Fax + 86 21 / 67 60 20 63

office@rothenberger.cn

ROTHENBERGER CZ

Republic

Prumyslova 1306/7, 102 00 Praha 10 Tel. + 420 271 730 183 • Fax + 420 267 310 187 prodej@rothenberger.cz

www.rothenberger.cz

Denmark ROTHENBERGER Scandinavia A/S Smedevænget 8 • DK-9560 Hadsund Tel. + 45 98 / 15 75 66 • Fax + 45 98 / 15 68 23 roscan@rothenberger.dk

France ROTHENBERGER France S.A.
24, rue des Drapiers, BP 45033 • F-57071 Metz Cedex 3
Tel. + 33 3 / 87 74 92 92 • Fax + 33 3 / 87 74 94 03
info-fr@rothenberger.com

www.rothenberger.fr

**Germany** ROTHENBERGER Deutschland GmbH

Industriestraße 7 • 65779 Kelkheim/Germany Tel. + 49 6195 / 800 81 00 • + 49 6195 / 800 37 39 verkauf-deutschland@rothenberger.com

www.rothenberger.com

ROTHENBERGER Werkzeuge Produktion GmbH Lilienthalstraße 71 - 87 • D-37235 Hessisch-Lichtenau Tel. + 49 56 02 / 93 94 - 0 • Fax + 49 56 02 / 93 94 36

Greece ROTHENBERGER Hellas S.A.
Agias Kyriakis 45 • 17564 Paleo Faliro • Greece
Tel. +30 210 94 02 049 • +30 210 94 07 302 / 3
Fax +30 210 94 07 322
ro-he@otenet.gr

vww.rothenberger.com

Hungary ROTHENBERGER Hungary Kft.

Gubacsi út 26 • H-1097 Budapest Tel. + 36 1 / 3 47 - 50 40 • Fax + 36 1 / 3 47 - 50 59

info@rothenberger.hu

www.rothenberger.hu

India ROTHENBERGER India Pvt. Ltd
Plot No 17, Sector - 37, Pace city-I
Gurgaon, Haryana - 122 001, India
Tel. 91124-4618900 • Fax 91124-4019471
contactus@rothenbergerindia.com

www.rothenberger.com

Italy ROTHENBERGER Italiana s.r.l. Via G. Reiss Romoli 17 - 19 • I-20019 Settimo Milanese Tel. + 39 02 / 33 50 601 • Fax + 39 02 / 33 50 0151

info@rothenberger.it www.rothenberger.it

Netherlands ROTHENBERGER Nederland by

Postbus 45 • NL-5120 AA Rijen Tel. + 31 1 61 / 29 35 79 • Fax + 31 1 61 / 29 39 08 info@rothenberger.nl

www.rothenberger.nl

Poland ROTHENBERGER Polska Sp. z o.o. Ul. Annopol 4A • Budynek C • PL-03-236 Warszawa Tel. + 48 22 / 2 13 59 00 • Fax + 48 22 / 2 13 59 01

biuro@rothenberger.pl

www.rothenberger.pl

Russia ROTHENBERGER Russia

Avtosavodskaya str. 25 115280 Moscow, Russia Tel. + 7 495 / 792 59 44 • Fax + 7 495 / 792 59 46 info@rothenberger.ru

www.rothenberger.ru

South Africa ROTHENBERGER-TOOLS SA (PTY) Ltd.

ROTHENBERGER-TOOLS SA (PTY) Ltd.
P.O. Box 4360 • Edenvale 1610
165 Vanderbijl Street, Meadowdale Germiston
Gauteng (Johannesburg), South Africa
Tel. + 27 11/3 72 96 31 • Fax + 27 11/3 72 96 32
info@rothenberger.co.za

www.rothenberger.co.za

Spain ROTHENBERGER S.A.
Ctra. Durango-Elorrio, Km 2 • E-48220 Abadiano (Vizcaya)
(P.O. Box) 117 • E-48200 Durango (Vizcaya)
Tel. + 34 94 / 6 21 01 00 • Fax + 34 94 / 6 21 01 31
export@rothenberger.es

www.rothenberger.es

Sweden ROTHENBERGER Sweden AB

Hemvärnsgatan 22 • 5-171 54 Solna, Sverige Tel. + 46 8 / 54 60 23 00 • Fax + 46 8 / 54 60 23 01 roswe@rothenberger.se

www.rothenberger.se

Switzerland ROTHENBERGER (Schweiz) AG

Herostr. 9 • CH-8048 Zürich Tel. + 41 44 / 435 30 30 • Fax + 41 44 / 401 06 08 info@rothenberger-werkzeuge.ch

Turkey ROTHENBERGER Tes. Alet ve Mak. San. Tic. Ltd. Sti Poyraz Sok. No: 20/3 - Detay Is Merkezi

TR-34722 Kadiköy-Istanbul Tel. + 90 / 216 449 24 85 • Fax + 90 / 216 449 24 87 rothenberger@rothenberger.com.tr

www.rothenberger.com.tr

UAE ROTHENBERGER Middle East FZCO
PO Box 261190 • Jebel Ali Free Zone
Dubai, United Arab Emirates
Tel. + 971 / 48 83 97 77 • Fax + 971 / 48 83 97 57

office@rothenberger.ae

ROTHENBERGER EQUIPMENT TRADING & SERVICES LLC PO Box 91208 • Mussafah Industrial Area Abu Dhabi, United Arab Emirates

Tel. + 971 / 25 50 01 54 • Fax + 971 / 25 50 01 53 uaesales@rothenberger.ae

UK ROTHENBERGER UK Limited 2, Kingsthorne Park, Henson Way Kettering • GB-Northants NN16 8PX Tel. + 44 15 36 / 31 03 00 • Fax + 44 15 36 / 31 06 00 info@rothenberger.co.uk

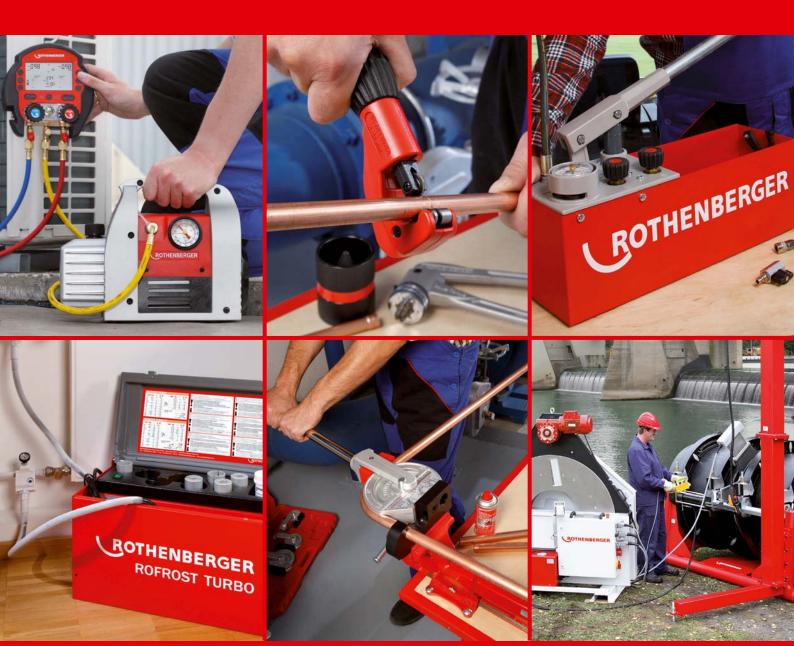
USA ROTHENBERGER USA L.L.C.
7130 Clinton Road • Loves Park, IL 61111, USA
Tel. + 1 / 80 05 45 76 98 • Fax + 1 / 81 56 33 08 79
pipetools@rothenberger-usa.com
www.rothenberger-usa.com

ROTHENBERGER Werkzeuge GmbH Industriestrasse 7 D-65779 Kelkheim/Germany

Phone + 49 (0) 6195 / 800 - 0 Fax + 49 (0) 6195 / 800 - 3500

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in fo@rothen berger.com



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