

Cordless Alliance System:

One battery, many solutions.



ROTHENBERGER is part of it!

Discover cordless freedom! Profit from 100% compatibility of machines, battery packs and chargers in one cross-manufacturer system! With CAS the world's most powerful battery pack system in the industry from Metabo and more than 30 years of battery pack competency are now available for ROTHENBERGER machines. How do you benefit from it? Maximum reliability, clear cost advantages and high investment reliability.

More information can be found at www.cordless-alliance-system.com

Welcome to ROTHENBERGER!

We at ROTHENBERGER are driven by the needs of plumbers, service technicians and installers. We develop pipe tools and machines that assist craftspeople, to ensure construction sites are always under control.

To achieve this, we see the world through your eyes, familiarise ourselves closely with your everyday work and listen to you if you provide us with suggestions or criticism. In addition, all of our new products undergo an on-site endurance test. Only if they pass this test do they make it to the market.

If you are able to complete your work cleanly, quickly, easily and profitably, and go home happy, then we have done a good job.



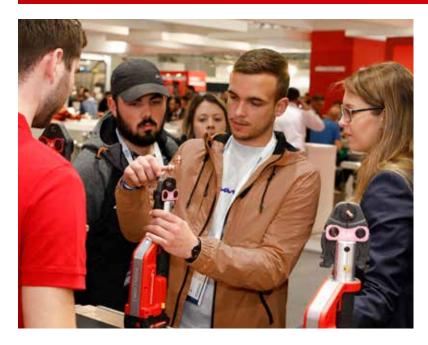




Focus on users

ROTHENBERGER was founded as a trading house in 1949. As early as 1967 ROTHENBERGER has developed the first system solution, the **R-System**. It consisted of tools for expanding, extracting and bending pipes – revolutionary equipment enabling installers to connect pipes without fittings, significantly speeding up the installation process.

Today, ROTHENBERGER serves installers and ACR technicians worldwide with products which have been co-developed, tested and improved by professional users.





Solutions for professionals: systems that fit.

Our system solutions extend beyond tools: Transport and store equipment and machines in the **ROCASE** system. Re-use our **ROBOX** packaging as containers for consumables in the ROCASE. Use our **CAS**¹⁾ batteries to operate more than 280 compatible machines.





Service for professionals: always prepared.

The RO SERVICE+ takes care of maintenance and repairs: Our Service After Sales team quickly gets equipment back up and running without any detours, because we have your tool collected where you are and also deliver it to you at the construction site, upon request.²⁾





¹⁾ More information at cordless-alliance-system.com ²⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries



We are here for you.

You can reach us through many channels – the website **rothenberger.com**, by email at **info@rothenberger.com**, by phone on our customer hotline and on our technical customer service hotline.



Visit us on Facebook, Instagram and YouTube!





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Pipe cutters for metal, plastic, MLP









Working range:	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")
Dimensions:	150 x 60 x 40 mm	150 x 60 x 40 mm	150 x 60 x 40 mm	160 x 60 x 40 mm
Weight:	255 g	255 g	255 g	550 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes	PE-,PP-, PVDF-, PVC, plastic-coated pipes	Stainless steel	Cu, brass, Al, thin-walled steel pipes
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TC 42 XL









Working range:	Ø 6-42 mm (1/4-1.5/8")	Ø 10-42 mm (3/8"-1.5/8")			
Dimensions:	166 x 67 x 54 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	166 x 67 x 54 mm
Weight:	430 g	550 g	550 g	550 g	430 g
Extras:	Internal pipe deburrer, spare cutter wheel	Spare cutter wheel			
Suitable for:	Cu, brass, Al, thin-walled steel pipes	PE, PP, PVDF, plastic-coated pipes	PE, PP, PVDF, plastic-coated pipes	Stainless steel	Corrugated INOX pipes up to 0.2 mm
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MINICUT I PRO



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Working range:	Ø 3-16 mm (1/8-5/8")	Ø 6-22 mm (1/4-7/8")	Ø 3-22 mm (1/8-7/8")	Ø 3-28 mm (1/8-1.1/8")	Ø 3-30 mm (1/8-1.3/8")
Dimensions:	46 x 35 x 22 mm	55 x 38 x 22 mm	70 x 40 x 30 mm	80 x 60 x 30 mm	150 x 60 x 28 mm
Weight:	110 g	125 g	140 g	270 g	305 g
Extras:	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle	Spare cutter wheel, spare cutter wheel	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes				

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System overview

Pipe cutters for metal

TUBE CUTTER



TUBE CUTTER 30 PRO INOX



Automatic pipe cutter size 1



Automatic pipe cutter size 2



Chain pipe cutter



Working range:	Ø 12-50 mm (1/2-2")	Ø 3-30 mm (1/8-1.1/8")	Ø 6-67 mm (1/4-2.5/8")	Ø 50-127 mm (2-5")	Ø 20-100 mm (1-4")
Dimensions:	175 x 75 x 30 mm	150 x 60 x 28 mm	240 x 110 x 50 mm	360 x 80 x 70 mm	370 x 280 x 250 mm
Weight:	520 g	305 g	755 g	755 g	575 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer	-
Suitable for:	Cu, brass, Al, thin-walled steel pipes	Stainless steel, thin-walled steel pipes	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes
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ROSLICE 12 mm



ROSLICE 15 mm



ROSLICE 18 mm



ROSLICE 22 mm



TUBE CUTTER INOX



Working range:	Ø 12 mm (1/2")	Ø 15 mm (5/8")	Ø 18 mm (3/4")	Ø 22 mm (7/8")	Ø 6-60 mm (1/4-2.3/8")
Dimensions:	48 x 48 x 35 mm	48 x 48 x 35 mm	58 x 58 x 35 mm	58 x 58 x 35 mm	230 x 110 x 40 mm
Weight:	230 g	240 g	250 g	260 g	780 g
Extras:	-	-	-	-	-
Suitable for:	Cu	Cu	Cu	Cu	Stainless steel
Page	18	18	18	18	19

ENORM 4"



SUPER 1.1/4"



SUPER 2"



SUPER 1.1/4" INOX



SUPER 2" INOX



Working range:	Ø 60-115 mm (2-4")	Ø 10-42 mm (1/8-1.1/4")	Ø 10-60 mm (1/8-2")	Ø 10-42 mm (3/8-1.1/4")	Ø 10-60 mm (3/8-2")
Dimensions:	600 x 175 x 55 mm	270 x 80 x 35 mm	370 x 100 x 55 mm	280 x 110 x 40 mm	370 x 100 x 55 mm
Weight:	7,105 g	1,040 g	2,155 g	1,040 g	2,155 g
Extras:	-	-	-	-	-
Suitable for:	Steel	Steel	Steel	Stainless steel	Stainless steel
Page	20	20	20	20	20

Plastic shears









Working range:	Ø 0-26 mm (0-1")	Ø 0-32 mm (0-1.1/4")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")
Dimensions:	190 x 80 x 30 mm	210 x 60 x 30 mm	215 x 195 x 40 mm	290 x 240 x 40 mm
Weight:	370 g	220 g	740 g	950 g
Suitable for:	PP, PE, PEX, PB, PVDF, MLP			
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Working range:	Ø 0-42 mm (0-1.5/8")	Ø 0-20 / 20-42 mm	Ø 0-50 mm (0-2")	Ø 0-63 mm (0-2.1/2")	Ø 0-75 mm (0-3")
Dimensions:	210 x 100 x 25 mm	235 x 105 x 20 mm	260 x 120 x 25 mm	280 x 130 x 30 mm	480 x 165 x 35 mm
Weight:	447 g	550 g	600 g	700 g	1,740 g
Suitable for:	PP, PE, PEX, PB, PVDF, MLP	PP, PE, PEX, PB PVDF	PP, PE, PEX, PB, PVDF, MLP	PP, PE, PEX, PB, PVDF, MLP	PP, PE, PEX, PB, PVDF, MLP

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Cutting





Suited for:	PE, PP, PVC, PEX, PVDF, PB**	PE, PP, PVC, PEX, PVDF, PB**
Outer pipe diameter: Ø 32 - 110 mm		Ø 110 - 160 mm
Wall thickness:	Up to max. 16 mm*	Up to max. 16 mm*
Operation mode:	Manual	Manual
Function: Cutting, chamfering		Cutting, chamfering

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Plastic pipe cutters



Working range:	Ø 6-67 mm (1/4-2.5/8")	Ø 50-125 mm (2-5")	Ø 110-168 mm (4.3/8-6.5/8")
Dimensions:	230 x 110 x 40 mm	360 x 180 x 50 mm	390 x 220 x 50 mm
Weight:	700 g	1,600 g	1,700 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer	Internal pipe deburrer
Suitable for:	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes

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Pipe saws



Working range:	<Ø110 mm
Suitable for:	Copper, plastic, C-steel, cast iron or stainless steel, mounting rails, threaded bolts, aluminium cover plates, wood, panels
Power:	18 V CAS battery system
Speed:	4150 rpm / 28-30 m/s
Weight:	4.3 kg (without battery)
Dimensions:	330 x 246 x 258 mm
Saw blade clamp:	Ø 20 mm
Modular system:	Pipe saw, circular saw, plunge saw, cross-cutting saw

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Cutting metal, manual

TUBE CUTTER 35 / 42 Pro

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

Product profile

APPLICATION AREA

TC 35 / TC 42

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

TC 35 MLP / TC 42 Pro MLP

PE, PP, PVDF, plastic-coated pipes, PVC hard plastic pipes TC 35 MLP \emptyset 6 - 35 mm / TC 42 Pro MLP \emptyset 6 - 42 mm

TC 35 INOX / TC 42 Pro INOX

Stainless steel pipes

TC 35 INOX \varnothing 6 - 35 mm / TC 42 INOX \varnothing 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
- Rugged and robust

Metal casing with DURAMANT coating: rugged and robust







For MLP pipes



For INOX (stainless steel) pipes



For refrigeration technology



TUBE CUTTER 35 DURAMAG counter display

Counter display includes six TUBE CUTTER 35 DURAMAG

Product profile

KEY FEATURES

- Improved performance
- Higher stability with noticeably less weight







Constant, tight working radius of 123 mm

The 100% magnesium body is up to 30% lighter than the previous model!



Set (No. 1000002002) includes: TUBE CUTTER 35, 6 - 35 mm (70027), internal and external deburrer 6 - 35 mm (No. 150000237), permanent-marker Prepare to Press (No. 1500002640), ROBOX B2350 (No. 1500002641)

Set (No. 1000002222) includes: TUBE CUTTER TC 35 INOX, 6 - 35 mm, DURAMAG (No. 70055), cutter wheel for TC 35 + TC 30 Pro + TC 42 XL (No. 070056D), ROBOX B2350 (No. 1500002641)

	-	▶○			
Model	mm	inch	\triangle g \triangle		No.
TUBE CUTTER 35 DURAMAG (Cu, brass, Al, thin-walled pipe)	6 - 35	1/4" - 1.3/8"	255	4	70027
Handtool set prepare to press	6 - 35	1/4" - 1.3/8"	460	1	1000002002
TUBE CUTTER 35 DURAMAG counter display (6 pcs.)	6 - 35	1/4" - 1.3/8"	1,700	1	070027DB
TUBE CUTTER 35 DURAMAG MLP	6 - 35	1/4" - 1.3/8"	255	4	70108
TUBE CUTTER 35 PRO INOX DURAMAG (stainless steel)	6 - 35	1/4" - 1.3/8"	255	4	70055
TUBE CUTTER 35 INOX + cutter wheel set, ROBOX 5	6 - 35	1/4" - 1.3/8"	500	1	1000002222 *
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	550	4	70029
TUBE CUTTER 42 PRO MLP	6 - 42	1/4" - 1.5/8"	550	1	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	550	4	70072
TUBE CUTTER 42 PRO INOX (stainless steel)	6 - 42	1/4" - 1.5/8"	550	1	70070
				* RC	DBOX system p. 336

TUBE CUTTER 42 XL

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

Product profile

APPLICATION AREA

- New cutter wheel: 20x more cuts**
- Suitable for thin-walled pipes starting at a wall thickness of 0.5 mm
- Quick adjustment of the pipe diameter by easy turning of the adjustment knob
- Spare cutter wheel in handle compartment
- Retractable internal pipe deburrer

KEY FEATURES

Application area: For copper, brass, aluminium, stainless steel and thin-walled steel pipes Ø 6 - 42 mm with a wall thickness of up to 1.2 mm

** Stainless steel compared to TC 42 Pro

Model	$\Delta_g \Delta$		No.
TUBE CUTTER 42 XL	500	1	1000001748
Spare cutter wheel (5 pcs.)	20	1	070056D



ROTRAC 28 / 42

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





KEY FEATURES

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

Model	mm	inch	ΔgΔ	No.
ROTRAC 28	3 - 28	1/8 - 1.1/8"	220	70010
ROTRAC 42	6 - 42	1/4 - 1.5/8"	255	70011
ROTRAC 28 PLUS	5 chrome, lir	nited edition	220	1000000046
Spare axle			5	70080
Spare cutter whe	el INOX		2	070007X
Spare cutter whe	el (3 pcs.) fo	or Cu, AI, brass	20	070007D

MINICUT I PRO / II PRO

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







KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes
- Compact 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 compact design
- Two guide rollers with recess for cuts near flares
- Monoblock design allows precision

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

MINICUT 2000

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

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





MINI MAX

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

Ergonomic design of body and knob with









KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes
- Compact 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 compact design
- Two guide rollers with recess for cuts near flares

Model	mm	inch	\sqrt{g}		No.
MINICUT 2000	3 - 22	1/8 - 7/8"	140	4 7	0105
Spare cutter whee	l (5 pcs.)		20	1 070	017D
Spare axle			5	1 7	0041

seating surface for the hand during turning



KEY FEATURES

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

Model	mm	▶ ○ → inch	ΔgΔ		No.
MINI MAX	3 - 28	1/8 - 1.1/8"	270	4	70015
Spare cutter wheel	(5 pcs.)		20	1 07 0	0017D
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	inch	√ _g √		No.
TUBE CUTTER 30 P	RO 3 - 30 12 - 50		8″ 305 520	4	71019 70065

Model	$\Delta_g \Delta$		No.
Spare cutter wheel (5 Pcs.)	20	1	070017D
Spare axle	5	1	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



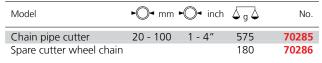
Model	►O mm	n ►O⊲ inch	$\Delta_g \Delta$		No.	Model	►O mm	▶ inch	\sqrt{g}	No.
Size 1	6 - 67	1/4 - 2.5/8"	755		70030	Size 2	50 - 127	2 - 5"	1,850	70142
Size 1 spare debur	ring blade		5	10	21652	Size 1 spare a	axle		20	70042
Size 1 spare cutter	wheel (5 p	cs.)	20	1	070017D	Size 1 spare of	deburrer complete		5	750004100
Size 2 spare cutter	wheel (2 p	cs.)	20		070057D	Size 2 spare a	axle		5	751004200
Size 2 spare debur	ring blade		5	10	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
- Robust chain with 15 mini cutter wheels, two-step adjustment, chrome-plated with plastic covered handles







ACCESSORIES

Model		No.
Internal / external deburrer, Ø 6 - 35 mm	26	1500000237
Internal / external deburrer, Ø 10 - 54 mm	26	1500000236
GRATFIX	28	21655
UNIGRAT	28	21660
Spare cutter wheels	15	



ROSLICE

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











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

KEY FEATURES

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

Self-clamping and self-alignment

Prevents the deformation of the pipe

Non-slip surface

Reliable grip



Indicates rotating direction

Quick cutting with just a few turns

Model	► mm/inch	$\Delta_g \Delta$	No.
ROSLICE	12 mm	240	88812
ROSLICE	15 mm	230	88815
ROSLICE	18 mm	260	88818
ROSLICE	22 mm	250	88822
ROSLICE	3/4"	240	88832
Spare cutter wheel (5 pcs.) 1/2", 12 mm	36.3	088840D
Spare cutter wheel (5 pcs.)5/8"-7/8", 15-22 mm	34.6	088841D
Spare cutter wheel (5 pcs.)1/2"-3/4", 18 mm	37.4	088842D

TUBE CUTTER 30 PRO INOX

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





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 Internal deburrer

Retractable

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

TUBE CUTTER INOX

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

KEY FEATURES

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

12 x ball bearings!

Model	► O⊲ mm	inch	Δgδ		No.
TUBE CUTTER INOX	6 - 60	1/4 - 2.3/8"	305	1	70340
Spare cutter wheel (2	pcs.)		20	1	70341



TUBE CUTTER 35 / 42 PRO INOX

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

KEY FEATURES

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

Model	►O⊲ mm	► inch	$\Delta_g \Delta \ll$	No.
TC 35 INOX	6 - 35	1/4 - 1.3/8"	440	4 70055
TC 42 PRO INO	X 6 - 42	1/4 - 1.5/8"	510	1 70070

Set (No. 1000002222) includes: TUBE CUTTER 35 INOX, (No. 70055), cutter wheel f. TC 35 + TC 30 PRO + TC 42 XL, 5 pcs. (No. 070056D), ROBOX B2350 (No. 1500002641)





Model	$\Delta_g \Delta$		No.
Spare cutter wheel (5 pcs.)	20	1	070056D
Spare deburring blade	10	10	21652

TUBE CUTTER CSST

Pipe cutter for the precise cutting of corrugated INOX pipes Ø 10 - 42 mm (3/8"-1.5/8")

KEY FEATURES

- Stability provided by two wide rubber rollers
- Quick adjustment to the pipe diameter
- Spare cutter wheel in handle compartment

APPLICATION AREA

Corrugated pipes with a wall thickness of up to 0.2 mm

Model	$\sqrt[]{\log \Delta}$		No.
TUBE CUTTER CSST 42 mm	0.5	1	1000001747
Cutter wheel CSST pipe (5 pcs.)		1	1000002077



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



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



Model	► O⊲ mm	►O inch	$\sqrt[4]{g}$	No.	Model	ΔgΔ	No.
ENORM 4"	60 - 115	2 - 4"	7,105	70060	Spare axle	5	70064
Spare cutter wheel	(2 pcs.)		20 0	70061D			

SUPER 1.1/4" and 2"

Stainless steel pipe cutter Ø 10 - 60 mm (1/8 - 2")

KEY FEATURES (SUPER/SUPER INOX)

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



SUPER 1.1/4" and 2" INOX

Stainless steel pipe cutter Ø 10 - 60 mm (1/8 - 2")

KEY FEATURES (SUPER/SUPER INOX)

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







Model	►O mm	► inch	∑ _g ∆	No.	Model	►O mm	►O inch	$\sqrt[4]{g}$	No.
SUPER 1.1/4"	10 - 42	1/8 - 1.1/4"	1,040	70040	SUPER 1.1/4" INOX	10 - 42	1/8 - 1.1/4"	1,040	70086
SUPER 2"	10 - 60	1/8 - 2"	2,155	70045	SUPER 2" INOX	10 - 60	1/8 - 2"	2,155	70087
1.1/4" spare cu	utter wheel (3 p	ocs.)	20	070046D	1.1/4" spare cutter v	vheel (2 pcs	.)	20	070088D
1.1/4" spare ax	xle		5	701011500	1.1/4" spare axle			5	701011500
2" spare cutter	r wheel (3 pcs.)		20	070051D	2" spare cutter whee	el (2 pcs.)		20	070089D
2" spare axle			5	70053	2" spare axle			5	70053

ACCESSORIES









Model		No.
Internal / external deburrer, Ø 6 - 35 mm	32	1500000237
Internal / external deburrer, Ø 10 - 54 mm	32	1500000236
GRATFIX	34	21655
UNIGRAT	34	21660
Spare cutter wheels	21	





Accessories cutting metal, manual

Pipe cutters, cutting wheels and spare parts













Only original ROTHENBERGER cutting wheels made of highalloyed hardened steel guarantee an exact, right-angled cut







Pipe cutter type	Model for pipe - Ø	No.	Cutting wheel No.	Sizes d, L, D mm	Cutting depth	Spare axle No.	Ø mm Length mm Thread	Spare roller No.	Deburring blade No.	Application area
MINICUT I PRO	3 - 16 mm	70401	070017D	4.8 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3	70023	-	Copper pipe (Cu),
MINICUT II PRO	6 - 22 mm	70402	070017D	4.8 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3	70023	-	brass pipe (Ms), aluminium pipe (Al),
MINICUT 2000	3 - 22 mm	70105	070017D	4.8 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3		-	thin-walled steel pipe (Fe),
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.90 / 18.5	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 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu),
TUBE CUTTER 35 + 35 C TUBE CUTTER 42 PRO	6 - 35 mm 6 - 42 mm	070027(C) 70029	070017D 070017D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 18.5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70067 70067	21652 21652	brass pipe (Ms), aluminium pipe (Al), thin-walled
TUBE CUTTER 35 MLP TUBE CUTTER 42 PRO MLP	6 - 35 mm 6 - 42 mm	70108 70109	070188D 070188D	4.8 / 5.90 / 19.3 4.8 / 5.90 / 19.3	4.0 4.0	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 / 5.90 / 18.5	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe
AUTOMATIC Size 1		70030	070017D	4.8 / 5.90 / 18.5	3.0	70042	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled
pipe cutter	6 - 67 mm	70031	070028D	4.8 / 5.90 / 23.6	7.0	70042	4.7 / 16 / M4	-	21652	PE, PP, VPE, PB and PVDF pipes
pipe cutter		70142	070057D	8.0 / 14.0 / 29.0	7.0	751004200	7.9 /23.5/1/4"	-	21652	thin-walled Cu, Ms, Al, Fe
Size 2	50 - 127 mm		055054D	8.0 / 13.0 / 40.0	13.0	751004200	7.9 /23.5/1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes
3126 2	30 127 11111	70032	055053D	8.0 / 13.0 / 30.5	8.0	751004200	7.9 /23.5/1/4"	-	21652	thin-walled PP pipes
		70052	055074D	8.0 / 11.0 / 45.0	16.0	751004200	7.9 /23.5/1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes
Size 3	100 - 168 mm	70033	055074D	8.0 / 11.0 / 45.0	16.0	751004200	7.9 /23.5/1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes
			055053D	8.0 / 11.0 / 30.5	8.6	751004200	7.9 /23.5/1/4"	-	21652	thin-walled PP pipes
TUBE CUTTER 28 TUBE CUTTER 42	3 - 28 mm 3 - 42 mm	70010 70011	070007D 070007D	4.8 / 3.0 / 16.0 4.8 / 3.0 / 16.0	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 / 5.90 / 23.6	7.0	70041	4.7 / 14 / M3	70067	-	PE, PP, VPE, PB and PVDF pipes
	1/8" - 1.1/4"	70040	070046D	7.5 / 14.0 / 25.7	5.5	701011500	7.4/30/-	70047	_	Charleine (Es)
Steel pipe cutter SUPER	1/8" - 2"	70045	070051D	9.0 / 17.0 / 31.5	6.0	70053	8.9/35/-	70052	-	Steel pipe (Fe) Steel pipe (Fe)
Steel pipe cutter ENORM	2" - 4"	70060	070061D	9.7 / 20.0 / 41.0	8.0	70064	9.4 / 52 / -	70063	-	Steel pipe (Fe)
TUBE CUTTER 30 PRO INOX	3 - 30 mm	71085	070056D	4.8 / 5.9 / 18.5	5.5	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
TUBE CUTTER INOX	10 - 54 mm	70340	70341	5.0 / 21.0 / 30.0	3.5	753000700	4.7 / 14 / M3	70068	21652	Stainless steel pipe
TUBE CUTTER 35 INOX TUBE CUTTER 42 PRO INOX	6 - 35 mm 6 - 42 mm	70055 70070	070056D 070056D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 18.5	4.0 4.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70068 70068	21652 21652	Stainless steel pipe Stainless steel pipe
SUPER INOX	1/8" - 1.1/4" 1/8" - 2"	70086 70087	070088D 070089D	4.8 / 5.90 / 19.3 9.0 / 19.0 / 31.5	4.0 7.0	701011500 70053	7.4/30/- 8.9/35/-	70047 70052	-	Stainless steel pipe Stainless steel pipe
Chain pipe cutter	100 mm	70285	-	4.0 / 3.80 / 17.8	3.0	-	-	Spare ch	ain 70286	Cu, Ms, Al, Fe thin-walled

1 ROCUT

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

The ROTHENBERGER plastic pipe shears for highest quality requirements. Knife blades deliver clean and straight cuts on pipe diameters up to 75 mm of plastic types currently used in installations. The aluminium construction makes for precise operation and long life.

Product profile

APPLICATION AREA

For precise cutting of PP, PE, PEX, PB, PVC, PVDF and MLP pipes up to \varnothing 75 mm

KEY FEATURES

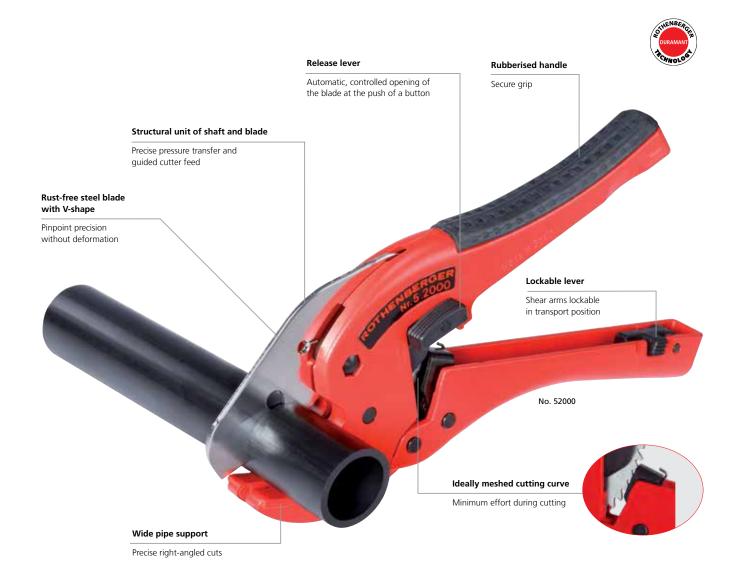
- Minimum effort during cutting
- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button

KEY FEATURES

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

TECHNICAL DATA

ROCUT	Professional:	ROCUT S	tandard:
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



Cutting plastic, manual

ROCUT 42 Twin Cut

Shear for cutting all common plastic pipes with a diameter of 0–42 mm

With the ROCUT 42 Twin Cut you can cut faster, clean and straight and with even less effort on all common plastic pipes up to 42mm.

Product profile

APPLICATION AREA

Manual plastic pipe shear for cutting PP-, PE-, PEX-, PB- and PVDF pipes up to \emptyset 42 mm.

KEY FEATURES

- Combines due to its unique function two shears: pipes can be cut in the one cut or ratchet cut function
- With the one cut function pipes can be cut 80% faster. You also save time since little calibration is needed.¹⁾
- Ratchet cut function: if the pipe dimension is too large or the material too thick for a one cut, the shear automatically switches into the ratchet mode

KEY FEATURES

- The quick adjustment of the blade moves directly to the pipe and saves time at work
- Cutting requires 20% less effort due to the PTFE coated blade.²⁾

TECHNICAL DATA

Working range direct cut: Ø 0 – 20mm Working range ratchet cut: Ø 20 – 42mm

Blade: V-Contour , PTFE coated **Suitable for:** PP, PE, PEX, PB, PVDF

Product weight: 550g



Powerful cutting with the ratchet function.



With the one cut function pipes can be cut 80% faster. You also save time since little calibration is needed.¹⁾







Model	► ◯ ⊲ mm	▶ inch	∑ _g ∆		No.
ROCUT 42 Twin Cut	0 - 42	0 - 1.5/8"	550	1	1000003011
Spare blade for ROCUT 42 Twin Cut	0 - 42	0 - 1.5/8"	120	1	1000003104

¹⁾ Internally tested. In comparison to the previous ROCUT TC 42 with a 16 mm pipe.

²⁾ Internally tested. In comparison to the previous ROCUT TC 42 without PTFE coated blade.



ROCUT TC 50 / TC 75 Professional

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



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 MLP)



ROCUT TC 63 Professional

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







190

52016

Model	► □⊲ mm	▶ inch	∆ _g ∆	No.
ROCUT TC 26	0 - 26	0 - 1"	370 4 5	2005
ROCUT TC 32	0 - 32	0 - 1.1/4"	220 4 5	2040
ROCUT PS 35	6 - 35	1/4 - 1.3/8"	740 4 5	5005
ROCUT PS 26 / 42 S, adjustable	6 - 42	1/4 - 1.5/8"	950 1 5	5015
ROCUT TC 42 Professional	0 - 42	0 - 1.5/8"	447 4 5	2000
ROCUT TC 50 Professional	0 - 50	0 - 2"	600 6 5	2010
ROCUT TC 63 Professional	0 - 63	0 - 2.1/2"	700 6 5	2030
ROCUT TC 75 Professional	0 - 75	0 - 3"	1.600 1 5	2015

ACCESSORIES No. 52041 No. 55006 No. 55007 No. 52042 No. 52011 No. 52016 No. 52031 **▶** inch ►O mm \sqrt{q} 0 - 32 120 52041 Spare stainless steel blade for TC 32 0 - 1.1/4" Spare stainless steel blade for PS 35 S 6 - 35 1/4 - 1.3/8" 30 55006 Spare stainless steel blade for PS 26 / 42 S 6 - 42 1/4 - 1.5/8" 60 55007 Spare stainless steel blade for TC 42 Professional 0 - 1.5/8" 0 - 42120 52042 Spare stainless steel blade for TC 50 Professional 0 - 50 0 - 2" 120 52011 Spare stainless steel blade for TC 63 Professional 0 - 2.1/2" 52031 0 - 63 130 1

0 - 3"

0 - 75

Spare stainless steel blade for TC 75 Professional

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

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 Ø 110 - 160 mm **ROCUT 160:**



Set (No. 55035) includes: ROCUT 110 (No. 55020), internal deburrer (No. 55018), 2 clamping set 50 and 75mm, cutter blade shaft with automatic copying and HM cutter blade inserts 7,5mm (No. 54960), ROCASE inlay (No. 1300005864), ROCASE 4414 red w/o inlay (No. 1300003541)



No. 55063

Set (No. 55063) includes: ROCUT 160 (No. 55030), internal deburrer (No. 55018), 2 clamping sets, cutter blade shaft with automatic copying and, HM cutter blade insert 12,5mm (No. 55019), ROCASE inlay (No. 1300005864), ROCASE 4414 red w/o inlay (No. 1300003541)





Clamping in a parallel vice



Model	Working range Ø mm	$\sqrt[]{\log \lambda}$	No.
ROCUT 110 set	50, 75, 110	3.9	55035



ROCUT 160 with cutter blade



ROCUT 110 with cutter wheel (No. 54950) (special accessories)



Model	Working range Ø mm	$\sqrt[]{\log \Delta}$	No.
ROCUT 160 set	110, 125, 160	5.6	55063

ACCESSORIES

Model	∆g∆ (No.
Cutter blade for internal deburrer	10	10	21652
ROCASE inlay	377	1300	005864
ROCASE 4414 red w/o inlay	1,300	1300	003541
Internal deburrer with blade	150		55018











ROCUT 110

Basic unit Ø 32 - 110 mm

For use with clamping sets \varnothing 32 - 100 mm, without internal deburrer, with standard cutter blade shaft and cutter blade (No. 55029)

	- O-		
Model	mm	\$ g \$	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*	75	210	55022
Clamping set*	63	220	55023
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 sem	i-circular segme	ents)	



ROCUT 160

Basic unit Ø 110 - 160 mm

Cutter blade shaft with automatic copying and cutter blade (No. 55019), for use with clamping sets \emptyset 110 - 140 mm, without internal deburrer

Model	► ○	ΔgΔ	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 sem	ni-circular segme	ents)	



HM cutter clade inserts

ROCUT 110 and ROCUT 160

Model	Cutting depth m	m $\sqrt[]{g}$	No.
Cutter blade shaft with	7.5	110	54960
Automatic copying and HM cut	ter blade inserts	5	
Cutter blade shaft with	12.5	120	54961
Automatic copying and HM cut	ter blade inserts	5	
Spare HM cutter blade insert fo	r 7.5	10	55029
Cutting and chamfering 15°			
Spare HM cutter blade insert fo	r 12.5	20	55019
Cutting and chamfering 15°			







No. 055053D No. 055054D No. 055074D

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

1/4 - 2.5/8"

2 - 5"

4.3/8" - 6.5/8"

Cutting plastic / MLP, manual

Maximum strength with the monoblock aluminium

Optimum, fatigue-free operation with the ergonomically

KEY FEATURES

optimised metal handle

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





Removable internal pipe deburrer





Model	► ○	► O- inch	Cutting- depth	$\Delta_{kg}\Delta$		No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	7.0	0.7	4	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
Cutting wheels, spare parts 21						



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
- Simple and precise use
- Saves time in comparison to conventional use of a blade

Model	► O⊲ mm	No.
Jacket pipe cutter Spare blade ROCUT PPD	0 - 32 mm	21500 21505

1 TUBE CUTTER 35 MLP / 42 PRO MLP / 42 PRO PVC

Telescopic pipe cutter Ø 6 - 42 mm (1/4 - 1.5/8")

Product profile

APPLICATION AREA

TUBE CUTTER 35 MLP and 42 PRO MLP 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 quidance
- 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 due to integrated, retractable internal pipe deburrer
- Spare cutter wheel in the handle

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



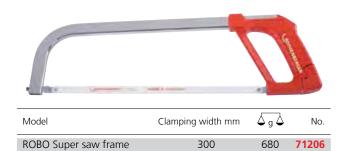
Model	mm	inch	√g ∆		No.
TC 35 MLP	6 - 35	1/4 - 1.3/8"	440	4	70108
Spare cutter who	eel TC 35/42	MLP (5 pcs.)	19	1	070188D

Model	mm	► ○ - inch	ΔgΔ		No.
TC 42 PRO MLP	6 - 42	1/4 - 1.5/8"	510	1	70109
TC 42 PRO PVC	6 - 42	1/4 - 1.5/8"	510	4	70072
Spare cutter wheel	TC 42 P	VC (3 pcs.)	10		070028D

ROBO Super

Safety saw frame

- Minimizes risks: 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



including saw blade HSSE 4 Plus (No. 71213)

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.
Ī	ROBO Mini	150	160	71222
	including UNIVERSAL saw bl	ade (No. 71217)		

Metal saw frame

- Solid design with robust holder
- With cross-slotted squared clamping elements
- Reliable captive blade holding pin
- Firm wooden handle





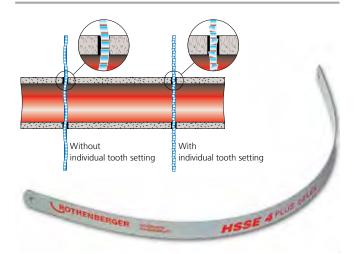
- Iviouei	Clamping Width		
Metal saw frame without sa	w blade 300	530	300013

UNI small saw PUK

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



Model	Clamping w	idth mm	ΔgΔ		No.
PUK static,		150	100		842100
with UNIVERSAL saw bla	de				
PUK adjustable,		150	140		71215
with UNIVERSAL saw bla	de (w. App.)				
UNIVERSAL saw blade fo	r metal 150	(32 TPI)	20	12	71217
Saw blade for wood	150	(14 TPI)	20	12	71216



Hand saw blades with single offset teeth optimally cut the hand saw blade free. 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	ΔgΔ	n N	lo.
HSSE 4 Plus	300	24	20	100 712	13

Sawing, electric

1 PIPECUT mini

Cordless combi-pipe saw

New way of cutting: precise, versatile, independent

Product profile

APPLICATION AREA

For new installations and maintenance in the HVAC and industry sector.

KEY FEATURES

- Copper, plastic, C-steel, cast iron or stainless steel can be reliably cut in an 90 degree angle up to a pipe diameter of 110 mm
- Cut mounting rails or threaded bolts -easy and fast
- Transform the PIPECUT mini into a circular saw, into a plunge saw or into a cross-cutting saw

KEY FEATURES

- Three new, hig-quality saw blades
- Stationary and mobile use
- CAS battery system for maximum independence

TECHNICAL DATA

Power supply: 18 V CAS battery system Idle speed: 4150 rpm / 28-30 m/s
Saw blade clamp: Ø 20 mm

Product dimension: 330 x 246 x 258 mm **Product weight:** 4.3 kg (without battery)



Copper, plastic, C-steel, cast iron or stainless steel can be cut up to a pipe diameter of 110 mm.



Transform the PIPECUT mini into a circular saw, into a plunge saw or into a cross-cutting saw.



Clamp function enables fastest cutting performance for different materials.





Sawing, electric

PIPECUT mini sets

All sets includes:

PIPECUT mini Baretool, guide rails for cutting pipes, DURACUT Uni saw blade, pipe support stand and ROCASE 6427 with inlay











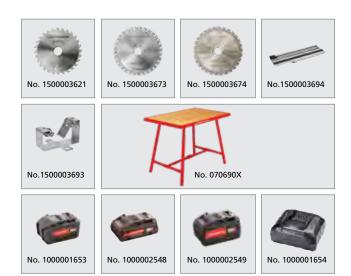






Model	$\sqrt[4]{\log \Delta}$		No.
PIPECUT mini, DURACUT Uni saw blade, with pipe support stand, with ROCASE 6427	5.4	1	1000003374
PIPECUT mini, DURACUT Uni saw blade, with pipe support stand, with ROCASE 6427,	6.2	1	1000003165
CAS battery Li-Power 4.0 Ah 18V and battery charger EU			
PIPECUT mini, DURACUT Uni saw blade, with pipe support stand, with ROCASE 6427,	6.8	1	1000003398
CAS battery Li-Power 4.0 Ah 18 V and battery charger EU, with cross cut guide rail			

ACCESSORIES



Model $\Delta_{kg}\Delta$ No. DURACUT Uni saw blade 1 1500003621 Universal saw blade for copper, plastic, profiles, threaded rods, aluminium- and decor plates DURACUT St saw blade 0.1 1500003673 Steel saw blade for steel and cast iron pipes DURACUT X saw blade 0.1 1500003674 INOX Saw blade for INOX-pipes 1500003694 Cross cut guide rail 0.4Pipe support stand 0.5 1500003693 Workbench installer, 30.0 070690X 1200x550x835mm RO BP18/4, 4.0 Ah 18 V Li-Power battery 0.66 1000001653 RO BP18/4, 4.0 Ah 18 V Li-HD battery 1000002548 0.59 RO BP18/8, 8.0 Ah 18 V Li-HD battery 0.98 1000002549 1000001654 RO BC14/36 battery charger, 230 V, EU 0.58



¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries

²⁾ More information at cordless-alliance-system.com

Cutting

Deburring, chamfering and calibration

1 Universal internal and external deburrer

Quick and easy deburring Ø4 - 54 mm (1/8 - 2")

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







Model	► O	▶ onch	∑ _g ∆	No.
Internal and external deburrer for copper and plastic	4 - 36	1/8 - 1.3/8"	30	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

Deburring, chamfering and calibration

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"
- Saves time
- Precise, burr-free deburring without effort

Best deburring results at low speed, 800 rpm at the most!





Drive shaft

For the deburring with portable screwdriver or drill

Model	$\Delta_g \Delta$	No.
Deburrer adaptor I for No. 1500000237 Deburrer adaptor II for No. 1500000236		11044 11045





Cutting

Deburring, chamfering and calibration

1 GRATFIX HSS / UNIGRAT

Deburrer

KEY FEATURES

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

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





GRATFIX HSS (No. 21655)



Nr. 1 (No. 21652)

Model	$\Delta_g \Delta$		No.
UNIGRAT with HSS deburring blade	30	10	21660
	50	10	21000
GRATFIX with deburring blade No. 1	50		21655
GRATFIX with deburring blade No. 1 - 2 - 3	80		21651
HSS deburring blade No. 1 Universal	10	10	21652

Deburring, chamfering and calibration

ROGRAT MLP deburrer and chamfering tool

For internal and external deburring, chamfering, calibrating and custom milling of PE-X and aluminium multi-layer (MLP) pipes of up to Ø 26 mm

KEY FEATURES

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



One tool with three functions: chamfering, calibrating and deburring!



Fig. ROGRAT MLP deburrer set

ROGRAT MLP system - manual chamfering attachments

ROGRA ⁻ type	Press system	Pipe measurement mm	Color code	ΔgΔ	No.
TH 16 TH 26	Henco / MHS	16.0 x 2.00 26.0 x 3.00	•	53 108	14122 14126



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.
TH Henco/HMS	16 - 20 - 26	760	14250
Basic handle		250	14000



	RODIA diamond core drilling	
	System overview Characteristics diamond drill bits	38 - 39 40
	Hand-operated drilling	
	Wet drilling machine Hand-operated and stationary drilling	41
	Wet drilling machine Diamond wet and dry drilling system	43 42 - 47
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TAKE TAKE		

Hand-operated drilling









	Hand-operated	Hand-operated	Hand-operated	Hand-operated / stationary
Stationary drilling in concrete:	Ø 6 - 67 mm	Ø 10 - 132 mm	Ø 10 - 200 mm	Ø 10 - 132 mm
Stationary drilling in masonry:	Ø 6 - 67 mm	Ø 32 - 162 mm	Ø 32 - 225 mm	Ø 10 - 152 mm
Hand-operated drilling in concrete:	Ø 6 - 35 mm	Ø 10 - 82 mm	Ø 10 - 82 mm	Ø 10 - 82 mm
Hand-operated drilling in masonry:	Ø 6 - 67 mm	Ø 32 - 162 mm	Ø 32 - 250 mm	Ø 32 - 162 mm
Power output:	800 W	1,400 W	2,400 W	1,400 W
Speed transmission:	2-gear	2-gear	3-gear	2-gear
Nominal speed:	3,600 / 6,400 rpm	500 / 1,050 rpm	600 / 1,250 / 3,200 rpm	500 / 1,050 rpm
Torque:	4 / 7 Nm	55 / 27 Nm	71 / 34 / 17 Nm	55 / 27 Nm
Weight:	3.4 kg	6.7 kg	7.2 kg	16.7 kg
Page	41	43	43, 45	42

Drill bits







Connection:	G 1/2"	G 1/2", 1.1/4" UNC	G 1/2", 1.1/4" UNC
Drill bit diameter:	Ø 6 - 67 mm	Ø 20 - 300 mm	Ø 10 - 500 mm
Working length:	up to \emptyset 10 mm = 50 mm from \emptyset 12 mm = 120 mm	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length
Application:	wet	wet and dry	wet and dry
Tiles:	ී රීරි	Ġ	ී
Granite:	ී	Ġ	ී
Marble:	888	Ġ	ී
Brick:	ී	\$\$\$* *	\$\$\$* *
Masonry:	Ġ	\$\$\$**	&& **
Lime-sand brick:	Ġ	\$\$\$* *	&& **
Asphalt:	ී	\$\$\$**	\$\$\$* *
Screed:	ී	ී රීරි	ී
Concrete:	ී	ී	ී
Reinforced concrete:	ී	ී	ී රීරි
Page	48	49	50

^{*} Special lengths and diameters on request, ** Suitable for dry drilling, 🍪 Ideally suited 🔞 Very suitable 🔞 Suitable

System overview

Stationary drilling

RODIACUT 150, RODIADRILL 200









	Hand-operated / stationary	Hand-operated / stationary	Stationary	Stationary
Stationary drilling in concrete:	Ø 10 - 152 mm	Ø 10 - 200 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
Stationary drilling in masonry:	Ø 10 - 152 mm	Ø 32 - 225 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
Hand-operated drilling in concrete:	Ø 10 - 82 mm	Ø 10 - 82 mm		
Hand-operated drilling in masonry:	Ø 32 - 250 mm	Ø 32 - 250 mm		
Power output:	2,400 W	2,400 W	3,000 W	3,000 W
Speed transmission:	3-gear	3-gear	3-gear	3-gear
Nominal speed:	600 / 1,250 / 3,200 rpm	600 / 1,250 / 3,200 rpm	215 / 430 / 785 rpm	215 / 430 / 785 rpm
Torque:	71 / 34 / 17 Nm	71 / 34 / 17 Nm	185 / 107 / 55 Nm	185 / 107 / 55 Nm
Weight:	17.2 kg	25.2 kg	30.1 kg	39.8 kg
Page	42	44	44	46

 $[\]mbox{\ensuremath{\star}}$ Drilling range with distance plate expandable up to 500 mm

2

RODIA diamond core drilling

Characteristics 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:

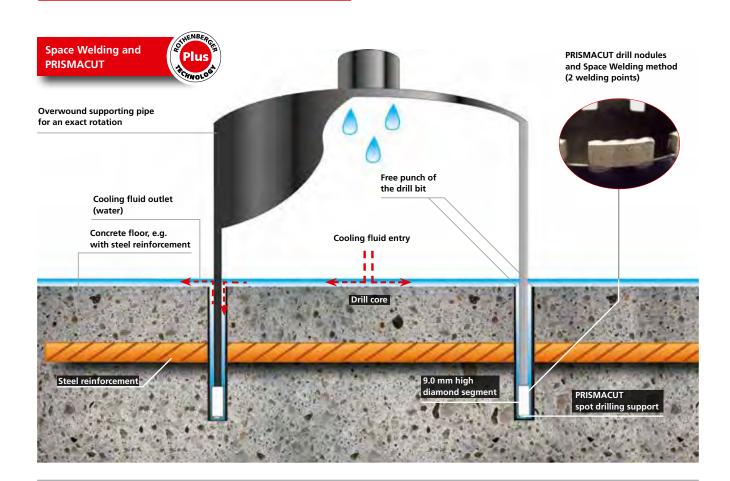
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20%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



DX High Speed Plus universal drill bits

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



DX-HIGH SPEED PLUS universal drill bits on page 47

SPEED STAR DX

Space welding wet and dry drill bits for different diameters in the range of 10 - 500 mm



Hand-operated and stationary drilling

RODIADRILL Ceramic

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

Ideally suited for HVAC&R, plumbing professionals, tilers, stair builders, remodelling specialists as well as electricians. Everywhere where jolt-free operation is necessary and extremely hard materials need to be processed.

RO CASE









Product profile

APPLICATION AREA

Hand-operated wet drilling in:

(reinforced) concrete \varnothing 6 - 35 mm, marble, granite, ceramic tiles, masonry, hollow brickwork and glass \varnothing 6 - 67 mm

KEY FEATURES

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

TECHNICAL DATA

2-speed transmission:1. gear speed2. gear speedNominal speed:3,600 rpm6,400 rpmDrilling range in mm:Ø 25 - 67Ø 6 - 25

Voltage: 230 V

Power input/output: 1,150 W / 800 W

Charging rate: 3.6 A

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

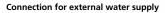
Weight: 3.4 kg

Integrated 1 litre water tank Sufficient supply for 4 - 6 drill

holes and can be rotated when working in confined spaces

Quick change system drill bit adaptor

Toolless quick change for G 1/2" drill bits



Ideal solution for serial drillings

11-part set (No. FF40150) includes: drill motor RODIADRILL Ceramic (No. FF40150), 1 high speed plus drill bit each \emptyset 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), 3 x quick change adapter (No. FF35751), spanners sizes 24 and 27 (No. FF70024, FF70027), hexagonal key (No. 321523), ROCASE 6414 (No. 1300003336), ROCASE inlay (No. 1300005582)

Model $\sqrt[]{kg}$ No. RODIADRILL Ceramic set 3.4 **FF40150**











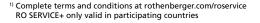






Model		No.	Model		No.
Quick change adaptor		FF35751	Water supply hose with "aqua-stop"		FF35302
Pressurized water container 10 l	52	FF35028	HSP Nature stone drill bits	48	
Special water supply hose		FF35301	Water collection ring, stationary	52	FF35700





Hand-operated and stationary drilling

RODIACUT 150 / RODIADRILL 160

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

Product profile

APPLICATION AREA

RODIADRILL 160:

Stationary wet drilling in (reinforced) concrete: \emptyset 10 - 132 mm Hand-operated wet drilling in (reinforced) concrete: \emptyset 10 - 82 mm Hand-operated dry drilling in masonry: \emptyset 10 - 162 mm

TECHNICAL DATA (DRILL STAND)

RODIACUT 150:

Drilling range: Without water collection ring max. Ø 152 mm

With water collection ring max. Ø 132 mm

Drill motor

adaptor: Ø 60 mm

L x W x H: 280 x 440 x 810 mm

 Hub:
 480 mm

 Weight:
 9.7 kg

3 applications with just one unit



RODIACUT 150 / RODIADRILL 200

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

Product profile

APPLICATION AREA

RODIADRILL 200:

Stationary wet drilling in (reinforced) concrete: Ø 10 - 132 mm Hand-operated wet drilling in (reinforced) concrete: Ø 10 - 82 mm Hand-operated dry drilling in masonry: Ø 10 - 162 mm

3 applications with just one unit



Hand-operated and stationary drilling

RODIADRILL 160

Drill motor







TECHNICAL DATA (DRILL MOTOR)

RODIADRILL 160 Drill motor: G 1/2" and 1.1/4" UNC 2,000 W / 1,400 W Threaded adaptor: Power input / output: 2-speed-transmission: 1. gear 2. gear Nominal speed: 500 rpm 1,050 rpm 27 Nm Torque: 55 Nm Clamping neck: Ø 60 mm

RODIADRILL 200

Drill motor







TECHNICAL DATA (DRILL MOTOR)

Drill motor:RODIADRILL 200Threaded adaptor:G 1/2" and 1.1/4" UNCPower input / output:2,700 W / 2,400 W3-speed transmission:1. gear2. gear3. gearNominal speed:600 rpm1,250 rpm3,200 rpmTorque:71 Nm34 Nm17 NmClamping neck:Ø 60 mm



Set (No. FF34150) includes: Drill stand RODIACUT 150 (No. FF30150), drill motor RODIADRILL 160 (No. FF40165), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW40 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 1300002468), earplugs SaveRave (No.4100000439), rubberized gloves (No.4100000443), safety goggle HC/AF (No. 4100000441)

Set (No. FF34160) includes: Drill stand RODIACUT 150 (No. FF30150), drill motor RODIADRILL 200 (No. FF40220), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW36 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 1300002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggle HC/AF (No. 4100000441)

Model	$\sqrt[]{\log \Delta}$	No.
Drill system RODIACUT 150/RODIADRILL 160	16.5	FF34150
Drill stand RODIACUT 150	9.7	FF30150
Drill motor RODIADRILL 160	6.8	FF40165
Drill system RODIACUT 150/RODIADRILL 200	16.9	FF34160
Drill motor RODIADRILL 200	7.2	FF40220









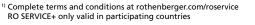








Model		No.	Model		No.
RODIADRILL Ceramic	41	FF40150	RODIA DRY CLEANER 1600	53	FF35144
Pressurized water container 10 l	52	FF35028	Water collection ring, stationary (for No. FF30150)	52	FF35700
Vacuum pump RODIA-VAC	51	FF35200	Drill bits 48	- 50	





Hand-operated and stationary drilling

RODIACUT 250 / RODIADRILL 200

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

Product profile

APPLICATION AREA

RODIADRILL 200:

Ø 10 - 200 mm Stationary wet drilling in reinforced concrete: Stationary dry drilling in masonry: Ø 10 - 225 mm Hand-operated wet drilling in reinforced concrete: Hand-operated dry drilling in masonry: Ø 10 - 250 mm

TECHNICAL DATA (DRILL STAND)

RODIACUT 250:

Drilling range: Without water collection ring max. Ø 250 mm

With water collection ring max. Ø 225 mm

Drill motor-

adaptor: Clamping neck Ø 60 mm and guick change

recording via dovetail plate

LxWxH: 260 x 510 x 980 mm

Hub: 650 mm Weight: 19.7 kg

Ø 10 - 82 mm

RODIACUT 250 drill stand with combination drill mounting plate and RODIADRILL 500 drill motor for drilling Ø 10 - 250 mm in reinforced concrete

RODIACUT 250 / RODIADRILL 500

Product profile

APPLICATION AREA

RODIADRILL 500:

Stationary dry drilling in reinforced concrete: Ø 32 - 250 mm Stationary dry drilling in masonry: Ø 32 - 250 mm

Buckling resistant column

2 applications with just one unit

Robust and lightweight 4 applications with just one unit Hexagon socket screw key 6 mm included All adjustments with a single tool Feed unit with quick change uptake mounting/demounting of drill motor Integrated vacuum plate Adjustable handle Two mounting options with just one base plate Quick change of operating side-drilling, even in confined spaces ROTHENBERGER

Hand-operated and stationary drilling

RODIADRILL 200

Drill motor







TECHNICAL DATA (DRILL MOTOR)

Drill motor:RODIADRILL 200Threaded adaptor:G 1/2" and 1.1/4" UNCPower input / output:2,700 W / 2,400 W

 3-speed transmission:
 1. gear
 2. gear
 3. gear

 Nominal speed:
 600 rpm
 1,250 rpm
 3,200 rpm

 Torque:
 71 Nm
 34 Nm
 17 Nm

Clamping neck: Ø 60 mm



RODIADRILL 500

Drill motor





TECHNICAL DATA (DRILL MOTOR)

Drill motor:RODIADRILL 500Threaded adaptor:G 1/2" and 1.1/4" UNCPower input / output:4,000 W/3,000 W

3-speed transmission:1. gear2. gear3. gearNominal speed:215 rpm430 rpm785 rpmTorque:185 Nm107 Nm55 NmDrill motor adaptor:Quick-change recording via

dovetail plate

Set (No. FF34200) includes: drill stand RODIACUT 250 (No. FF30250), drill motor RODIADRILL 200 (No. FF40220), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW36 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 1300002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggle HC/AF (No. 4100000441)

Set (No. FF34260) includes: drill stand RODIACUT 150 (No. FF30250), drill motor RODIA-DRILL 500 (No. FF40400), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW32 DIN894 (No. FF70024), spanner SW32 DIN894 (No. FF70024), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 500 (No. 1300002469), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000441), safety goggle HC/AF (No. 4100000441)

Model	$\sqrt[]{\log \lambda}$	No.
Drill system RODIACUT 250/RODIADRILL 200	21.7	FF34200
Drill stand RODIACUT 250	14.5	FF30250
Drill motor RODIADRILL 200	7.2	FF40220
Drill system RODIACUT 250/RODIADRILL 500	31.4	FF34260
Drill motor RODIADRILL 500	12.1	FF40400









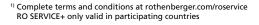








Model		No.	Model		No.
RODIADRILL Ceramic	41	FF40150	RODIA DRY CLEANER 1600	53	FF35144
Pressurized water container 10 l	52	FF35028	Water collection ring, stationary (for No. FF30150)	52	FF35700
Vacuum pump RODIA-VAC	51	FF35200	Drill bits 48	- 50	





RODIACUT 400 PRO / RODIADRILL 500

RODIACUT 400 drill stand with dowel plate and RODIADRILL 500 for drilling Ø 32 - 400 (500)* mm in reinforced concrete





Product profile

APPLICATION AREA

2 applications in one unit:

Stationary wet drilling in (reinforced) concrete \emptyset 32 - 400* mm Stationary dry drilling in masonry \emptyset 32 - 400* mm

KEY FEATURES

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

TECHNICAL DATA (DRILL STAND)

Drilling range: W/o water collection ring: max. Ø 400 mm

Optional with distance plate max. Ø 500 mm

Weight: 28.4 kg

L x W x H: 460 x 260 x 1,100 mm

Hub: 680 mm





RODIADRILL 500

Drill motor



Set (No. FF34500) includes: drill stand RODIACUT 400 PRO (No. FF30030), drill motor RODIADRILL 500 (No. FF40400), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW32 DIN894 (No. FF70032), spanner SW41 DIN894 (No. FF70032), spanner SW41 DIN894 (No. FF70032), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill 5DS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 400 PRO (No. 1300002467), instruction manual RODIADRILL 500 (No. 1300002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggles HC/AF (No. 4100000441)

TECHNICAL DATA (DRILL MOTOR)

Drill motor:RODIADRILL 500Threaded adaptor:G 1/2" and 1.1/4" UNCPower input / output:4,000 W / 3,000 W3-speed transmission:1. gear2. gear3. gearNominal speed:215 rpm430 rpm785 rpmTorque:185 Nm107 Nm55 NmDrill motor adaptor:Dovetail plate

Model	$\Delta_{kg}\Delta$	No.
Drill system RODIACUT 400 PRO / RODIADRILL 50	0 40.5	FF34500
Drill stand RODIACUT 400 PRO	28.4	FF30030
Drill motor RODIADRILL 500	12.1	FF40400

















Model		No.	Model		No.
Submersible water pump RODIAPUMP	52	FF35029	Drill bits	48 - 50	
Pressurized water container 10 l	52	FF35028	Distance plate 60 mm		FF35136
RODIA DRY CLEANER 1600	53	FF35144	Copper rings 1.1/4"	51	FF35190
Mounting articles	51		Extensions	52	

High Speed Plus natural stone

Soldered diamond core wet cutting drill bit between 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
- Onventional G 1/2" threaded attachments

TECHNICAL DATA

G 1/2" adaptor

Drill bits Segment dimensions (LxWxH) 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 \emptyset 45 mm



Overwound drill bits

Suitable for

Balanced rotation reduces wear

9 mm high segments with high diamond concentration

Extremely easy cutting, very long service life in granite tiles

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

Drilling of the hardest materials

machines







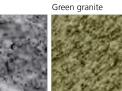
Masonry



Hollow brickwork



Aerated concrete



Asphalt



RD 160

RD 200

Ø mm	$\Delta_{kg}\Delta$	Adaptor G 1/2" No.
6.3	0.17	FF44806
8.3	0.17	FF44808
10	0.17	FF44810
12	0.19	FF44812

0.20

Ø mm	$\sqrt[]{\log \Delta}$	Adaptor G 1/2" No.
15	0.20	FF44815
16	0.20	FF44816
20	0.22	FF44820
22	0.22	FF44822
24	0.22	FF44824

Ø mm	$\Delta_{kg}\Delta$	Adaptor G 1/2" No.
30	0.25	FF44830
35	0.30	FF44835
40	0.34	FF44840
50*	0.60	FF44850
60*	0.72	FF44860

Ø mm	$\Delta_{kg}\Delta$	Adaptor G 1/2" No.
67*	0.79	FF44867

* with single segment mounting

FF44814

14

DX High Speed Plus universal drill bits

Space welding universal wet and dry drill bits Ø 20 - 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 20 - 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





RD 160*





RD 500*

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

Highest service life and universal application!





Overwound drill bits

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

Suitable for all other

ROTHENBERGER drilling machines

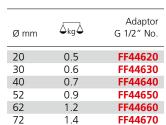
Space welding

Allows wet and dry use

Balanced rotation reduces wear









Ø mm	$\sqrt[]{\log \Delta}$	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









TECHNICAL DATA

G 1/2" connection (300 mm effective length)				
Drill bits	Segment	Segment dimensions $(L \times W \times H)$		
Ø 20 - 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 conne	ction (430 m	nm effective length)		
Ø 30 - 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		



Quicker drilling progress and extremely long service life





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Extremely easy cuts,

Ø mm	$\sqrt[]{\log \lambda}$	Adaptor 1.1/4" No.
132	4.6	FF44130
142	5.0	FF44140
152	6.4	FF44150
162	7.0	FF44160
172	7.5	FF44170
182	8.0	FF44180
200	9.0	FF44200
220	11.4	FF44220
250	13.6	FF44250
300	19.3	FF44300

Adaptor

1.1/4" No.

FF44030

FF44040

FF44050

FF44060

FF44070

FF44080

FF44090

FF44100

FF44110

FF44120

 $\Delta_{kg}\Delta$

0.7

1.2

1.6

1.9

2.3

26

3.0

3.4

3.8

4.2

Ø mm 30

40

52

62

72

82

92

102

112

122

Space welding and

Connection G 1/2":

Connection 1.1/4" UNC:

Reinf, concrete







Product profile

APPLICATION AREA

Wet and dry drill bits for asphalt, masonry as well as natural and artificial stone between 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

Overwound drill bits

Balanced rotation reduces wear

- 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
- Conventional G 1/2" and 1.1/4" UNC threaded adaptors

TECHNICAL DATA Drill bits Segment Segment dimensions $(L \times W \times H)$ Ø 10 - 38 mm 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

PRISMACUT Extremely high Suitable for diamond concentration For better drill behaviour Faster drilling progress **RD 160* RD 200*** Special drill bits for asphalt, pavement as well as special lengths up to 1000 mm available upon request! **RD 500*** * We recommend the optional extraction rotor when used as a dry drill bit

Threaded adaptor G 1/2" and 1.1/4" UNC Suitable for all other

ROTHENBERGER drilling machines

Ø mm	$\sqrt[]{\log \lambda}$	Adaptor G 1/2" No.	Ø mm	$\Delta_{kg}\Delta$	Adaptor G 1/2" No.
10	0.3	FF00610	56	1.2	FF00655
12	0.4	FF00612	66	1.3	FF00665
16	0.4	FF00616	76	1.5	FF00675
18	0.4	FF00618	82	1.6	FF00680
20	0.5	FF00620	102	2.1	FF00700
25	0.5	FF00625	112	2.4	FF00710
32	0.6	FF00632	132	2.9	FF00730
40	0.7	FF00640			
46	0.7	FF00645			

Ø mm	$\sqrt[4]{\log \lambda}$	Adaptor 1.1/4" No.	Ø mm	$\sqrt[]{\log \Delta}$	Adaptor 1.1/4" No.
25	0.6	FF00025	132	4.6	FF00130
30	0.7	FF00030	142	5.0	FF00140
46	1.4	FF00045	152	6.4	FF00150
52	1.6	FF00050	162	7.0	FF00160
56	1.7	FF00055	200	9.0	FF00200
66	2.1	FF00065	250	13.6	FF00250
76	2.4	FF00075	280	17.6	FF00280
102	3.4	FF00100	300	19.3	FF00300
112	3.8	FF00110	350	23.6	FF00350
122	4.2	FF00120	500	39.1	FF00500

Marble

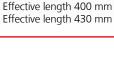
Asphalt

FF00650

52

0.9





Accessories for hand-operated and stationary drilling

Vacuum pump RODIA-VAC

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



Vacuum-sets

No. FF35710 No. FF35740



Quick clamping column

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



Model	$\sqrt[b]{\log \Delta}$	No.
Quick clamping column	9.0	FF35015
Vacuum pump RODIA-VAC 230 V	20.0	FF35200
Vacuum set for RC 150/170 PRO-C	1.1	FF35710
Spare foamed rubber for drill base RC 150 etc.	0.1	FF50007
Vacuum set for RC 250/270 PRO-C	1.1	FF35740
Spare foamed rubber for drill base RC 250 etc.	0.1	FF50008

Concrete / masonry fixing set

Set (No. FF35120) includes: 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. FF35122) and drive-in iron (No. FF35128)

Set (No. FF35121) includes: knurled thread rod type G-M 280 mm, screw thread M 12/85 mm (No. FF35130), U-washer (No. FF70166), winged nut M 12 (No. FF55150), hexagonal nut M12 (No. FF70167), 5 x Rawl anchor M 12 (reusable) (No. FF35126) and drive-in iron (No. FF35128)





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.



SDS-plus hammer drill



They also the supplementary		
Model	$\sqrt[]{\log \Delta}$	No.
Concrete fixing set	1.90	FF35120
Drive-in anchor concrete M12	0.04	FF35122
Threaded rod, B15 concrete set	0.20	FF35129
Threaded rod, B15 masonry	0.30	FF35130
SDS-plus hammer drill Ø 15 mm,	0.16	111429*
wl. 160 mm		
Wet drill bit Ø 15 mm, G1/2"	0.20	FF44815
Masonry fixing set	1.10	FF35121
Rawl anchor M 12	0.08	FF35126
Wet drill bit Ø 20 mm, G1/2"	0.22	FF44820
G 1/2" outer thread to 1.1/4"	0.50	FF35080
UNC outer thread		
1.1/4" UNC inner thread to G 1/2"	0.70	FF35095
inner thread		
Adaptor DD-BU to G 1/2" + 1.1/4"	0.80	FF35092
Adaptor DD-BL/BS/BR to G 1/2" + 1.1/4"	0.80	FF35093
Copper ring 1.1/4"	0.05	FF35190

* Cordless rotary hammer p. 333

Thread interfaces

Between motor connection and drill bit









Copper rings 1.1/4"

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





Accessories for hand-operated and stationary drilling

Water supply

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





Model	$\sqrt[4]{\log \Delta}$	No.
Water supply hose with Aqua-Stop	0.20	FF35302

Model	$\sqrt[]{\log \lambda}$	No.
Pressurized water container, 10 litre	5.50 0.20	FF35028 FF35301
Water supply hose for RODIADRILL	0.20	FF35301

Water extraction systems

The dirty cooling water is extracted in connection with a wet and dry vacuum (FF35144)



No. FF35730 Only for RODIACUT 202 DWS, 250 and 270 C



Only for RODIACUT 131 DWS, 150 and 170 C

Model	$\sqrt{\log \lambda}$	No.
Water collection ring, stationary (up to Ø 132 mr	n) 1.2	FF35700
Spare rubber membrane (for FF35700)	0.3	FF55131
Water collection ring, stationary (up to Ø 200 mm	n) 2.5	FF35730
Spare rubber membrane (for FF35730)	0.6	FF55201

Extensions for drill bits

- G 1/2" and 1.1/4" UNC
- Easy extension of the drilling depth
- High-quality and robust steel design



Nominal le in mm	ngth $\sqrt[]{kg}$	G 1/2" No.	$\Delta_{kg}\Delta$	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

Extraction systems

Extraction rotor RODIADUST

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

Provides optimum extraction results in conjunction with RODIA DRY CLEANER (No. FF35144) and increases the drilling process, prevents jamming of drill bit and reduces segment wear.

Model	$\Delta_{kg}\Delta$	No.
Extraction rotor (drill bit 1.1/4" UNC / motor G 1/2")	1.90	FF40056





RODIA DRY CLEANER 1600

Wet and dry extraction unit

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

Constant extraction power! Automatic filter-cleaning function!

Separate automatic outlet

Adaptor for further electric tools

User comfort with a wide operating range

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



Fig. folded filter No. FF55374

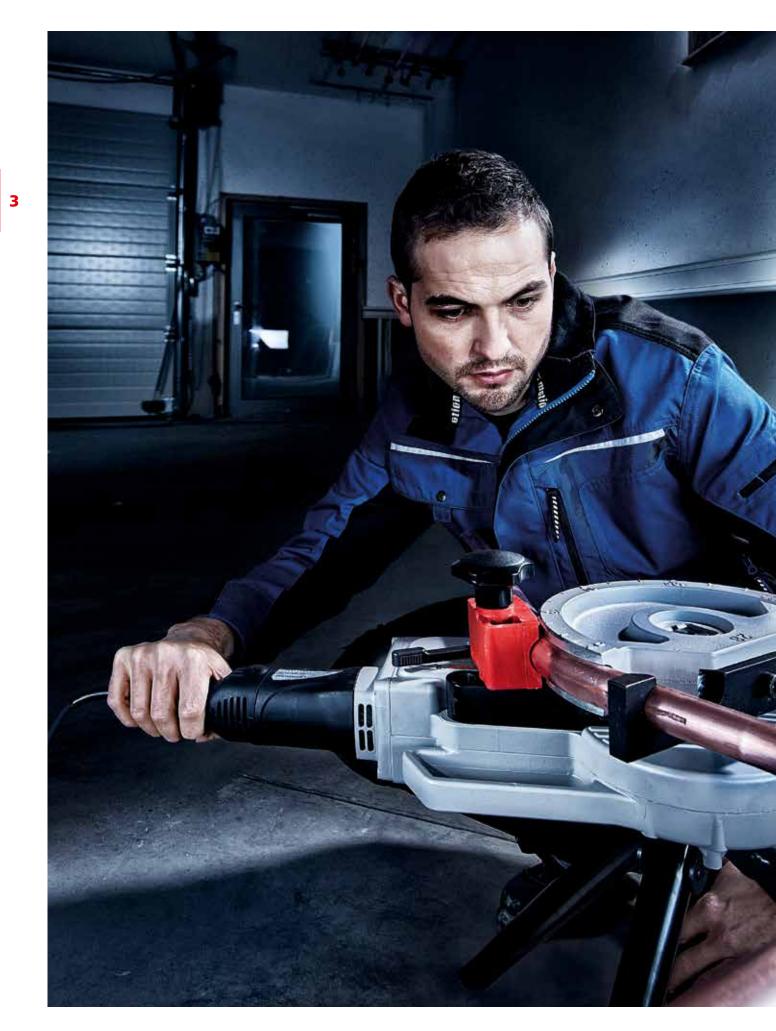
Model	$\sqrt[]{\log \Delta}$	No.
RODIA DRY CLEANER 1600	10.8	FF35144
Folded filter (2 pcs.) for wet suction	1.0	FF55374
Fleece filter (5 pcs.) for dry suction	0.3	FF55388



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







	Bending	
	System overview	56 - 57
	Manual	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bender one-handed	58 - 60
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Push bending







Method:	Manual 90°	Manual 90°	Manual 90°
Working range:	Ø 5 - 12 mm (1/4 - 1/2"),	Ø 12 - 22 mm (3/8 - 7/8")	-
Copper	•⊙1 mm, soft	•⊙1 mm, soft	
Working range:	Ø 5 - 12 mm (1/4 - 1/2"),	Ø 12 - 22 mm (3/8 - 7/8")	-
Aluminium	•⊙1 mm, soft	•⊙1 mm, soft	
Working range:	Ø 5 - 12 mm (1/4 - 1/2"),	Ø 12 - 22 mm (3/8 - 7/8")	-
Precision steel	•⊙1 mm, soft	•⊙1 mm, soft	
Working range: Stainless steel	-	-	-
Working range:	-	Ø 14 - 26 mm (5/8 - 7/8")	Ø 14 - 32 mm
MLP		•⊙3 mm	•⊙3 mm
Page	58	59	60

Standard two handed bender MULTIBEND MINIBEND Standard bender

Method:	Manual 90°	Manual 180°	Manual 180°	Manual 180°
Working range: Copper	Ø 12 - 22 mm •⊙1 mm, semi-hard	Ø 10 - 18 mm (1/4 - 5/8") •⊙1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •⊙1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •⊙1 mm, soft
Working range: Aluminium	-	Ø 10 - 18 mm (1/4 - 5/8") •⊙1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •⊙1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •⊙1 mm, soft
Working range: Precision steel	-	Ø 10 - 18 mm (1/4 - 5/8") •⊙1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •⊙1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •⊙1 mm, soft
Working range: Stainless steel	-	-	-	-
Working range: MLP	-	-	-	-
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Push bending





Method:	Manual hydraulic 90°	Electro-hydraulic 90°
Working range: Copper	-	-
Working range: Aluminium	-	-
Working range: Precision steel	Ø 3/8 - 2"	Ø 3/8 - 2"
Working range: Stainless steel	-	-
Working range: MLP	-	-

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Pull bending





Internal bending





Method:	Manual 180°	Manual 180°	Manual 180°	Electric 180°
Working range: Copper	Ø 10 - 16 mm (3/8 - 3/4") •⊙1 mm, soft, semi-hard, hard	-	Ø 8 - 22 mm (5/16 - 7/8") •⊙1 mm, soft, semi-hard, hard	Ø 12 - 35 mm (1/2 - 1.3/8") •⊙ 1.6 mm, soft, semi-hard, hard
Working range: Aluminium	-	-	Ø 8 - 22 mm (5/16 - 7/8") ••⊙ 1 mm, soft	Ø 12 - 28 mm (1/2 - 1.1/8") •⊙ 2.0 mm, soft, semi-hard, hard
Working range: Precision steel	-	-	Ø 10 - 22 mm (3/8 - 5/8") •	Ø 12 - 28 mm (1/2 - 1.1/8") •⊙ 2 mm, soft
Working range: Stainless steel	Ø 10 - 16 mm (3/8 - 3/4") •⊙1 mm, soft, semi-hard, hard	-	Ø 8 - 22 mm (5/16 - 7/8") ••⊙ 1 mm	Ø 12 - 28 mm (1/2 - 1.1/8") •⊙ 1.5 mm
Working range: MLP	-	Ø 6 - 20 mm	-	-
Page	61	63	64 - 65	70 - 71

TUBE BENDER

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

Product Profile

APPLICATION AREA

Suitable for pipes made of:

Copper (soft) and

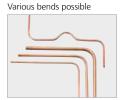
aluminium: Ø 5 - 12 mm, 1/4 - 1/2" **Precision steel (soft):** Ø 5 - 12 mm, 1/4 - 1/2"



KEY FEATURES

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













TUBE BENDER sets include: basic tool complete with bending segments, back plates, ROCASE 4212 incl. inlay (No. 1300003334 + No. 1300004003)

Model	$\sqrt[]{\log \Delta}$	No.
TB set 5 - 6 - 8 - 10 mm	2.84	24131
TB set 6 - 8 - 10 - 12 mm	3.03	24132
TB set 8 - 10 - 12 mm	2.82	24133
TB set 1/4 - 5/16 - 3/8 - 1/2"	2.92	24134
Basic tool without bending segments	0.36	766004016
Support segment	0.05	24048
Back plate without support segment	0.14	24049

TUBE BENDER bending segments

Model	► O Size	$\Delta_g \Delta$	No.
Bending segment	5 mm	190	24001
Bending segment	6 mm	210	R2403200
Bending segment	8 mm	250	R2403300
Bending segment	9 mm	360	R2403400
Bending segment	10 mm	390	R2403500
Bending segment	12 mm	390	24007
Bending segment	1/4"	210	R2403200
Bending segment	5/16"	250	R2403300
Bending segment	3/8"	270	24006
Bending segment	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 multilayered composite pipes.

Suitable for pipe made of:

 Copper (soft)

 and aluminium:
 Ø 10 - 22 mm, 3/8 - 7/8"

 Copper (coated):
 Ø 10 - 18 mm, 3/8 - 5/8"

 Precision steel (soft):
 Ø 10 - 22 mm, 3/8 - 7/8"

 MLP (Multilayer):
 Ø 14 - 26 mm, 5/8 - 7/8"

KEY FEATURES

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



TUBE BENDER MAXI sets include: basic unit (No. 766100016), back plate support with segments (Cu set No. 23047, MLP set No. 23008), ROCASE 4414 incl. inlay (No. 1300003541 + No. 1300004708)

Model	$\sqrt[]{\log \Delta}$	No.
TB MAXI set 12 - 15 - 18 - 22 mm	3.5	023020X
TB MAXI set 12 - 14 - 16 - 18 - 22 mm	3.5	023021X
TB MAXI set 3/8 - 1/2 - 5/8 - 3/4 - 7/8"	3.3	023022X
TB MAXI set MLP 14 - 16 - 18 - 20 - 25 mm	3.3	023090X
TB MAXI set MLP 14 - 16 - 18 - 20 - 26 mm	3.3	023091X
Basic tool w/o back plate support	1.0	766100016
Back plate support w/o support segment	0.5	R2301500
Support segments MLP R/L 10 - 25 mm (2 pcs.)	0.5	23008
Support segments R/L 12 - 22 mm (2 pcs.)	0.1	23047

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

TUBE BENDER MAXI bending segments

Model	► Size	► max. mm	\sqrt{g}	No.
Bending segment	10 mm	1.0	80	23001
Bending segment	12 mm	1.0	80	23002
Bending segment	14 mm	1.0	80	23003
Bending segment	15 mm	1.0	90	23004
Bending segment	16 mm	1.0	100	23005
Bending segment	18 mm	1.0	140	23006
Bending segment	22 mm	1.0	170	23007
Bending segment	3/8"	1.0	70	23010
Bending segment	1/2"	1.0	80	23011
Bending segment	5/8"	1.0	100	23012
Bending segment	3/4"	1.0	120	23013
Bending segment	7/8"	1.0	170	23014

TUBE BENDER MAXI MLP

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

Product profile

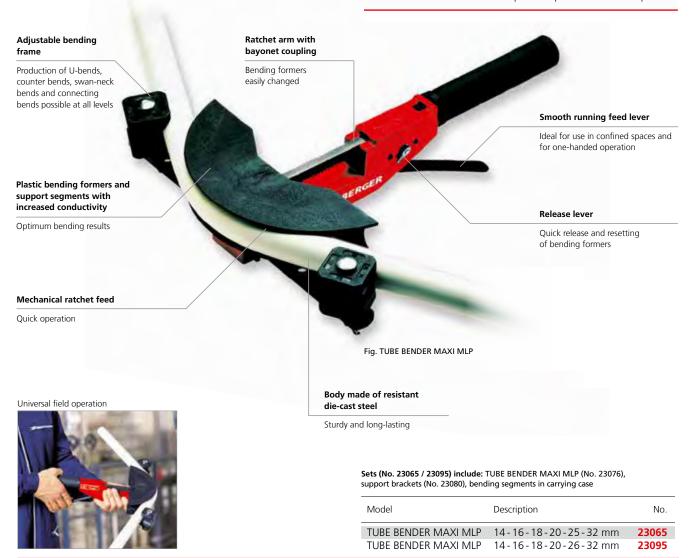
APPLICATION AREA

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	\sqrt{g}	No.	Description	$\sqrt[]{g}$	No.
Bending segment 14 x 2,0 mm	80	23003	Bending segment 26 x 2,0 mm	200	23053
Bending segment 16 x 2,0 mm	100	23005	Bending segment 32 x 2,0 mm	380	23051
Bending segment 18 x 2,0 mm	140	23050	Basic tool 32 w/o support brackets	1,280	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 seament MLP R/L 14 - 32 mm for 23076 (1 pc.)	200	23083

Pro bender

For Bending of pipes out of copper, stainless steel and carbon steel in the sizes 10 mm and 16 mm and 3/8" - 3/4"

KEY FEATURES

- Bending of pipes out of copper, stainless steel and carbon steel possible
- Long lasting due to forged cast iron body
- Comfortable working due to long levers and rubber handles
- Clamping surface for working with a vice



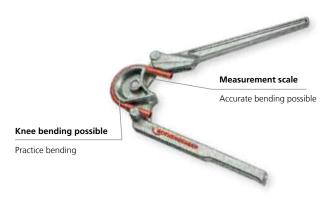
► ○ - Size	max. mm	R Radius mm	k→ L mm	$\sqrt[]{\log \Delta}$	No.
3/8" / 10		40	530	2.2 100	
1/2"	1.0	47	530	2.1 76	7050016
5/8" / 16	mm 1.0	76	770	4.0 100	0000445
3/4"	1.0	76	770	3.9 76	7750016

MULTIBEND standard bender 180°

For accurate bending up to 180° of pipes made of soft copper, aluminium and precision steel Ø 10 - 18 mm

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

Standard two handed bender 90°

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

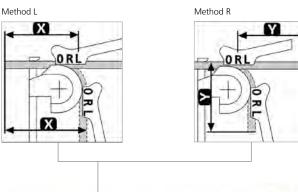
KEY FEATURES

- Universal bender for sanitary and heating installations refrigeration and air-conditioning systems
- Long handles allow for better leverage in the bending of semihard copper pipes
- Bending pliers with sliding carriage for millimetre-exact bending
- Accurate adjustments between the bending radius and handle length reduces effort required



Size	mm	Radius mm	L mm	$\sqrt[]{\log \Delta}$	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

Manual





radius display on measurement scale

MINIBEND

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

KEY FEATURES

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

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

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

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

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

Model	► ○ Size	ΔgΔ	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 angle measurement 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

- 0-	R	₩		
Size	Radius mm	L mm	∆ ₉ ∆	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" / 8 mr	n 24	305	640	25131
1/2"	30	390	1,680	25142
5/8"	58	450	1,830	25136





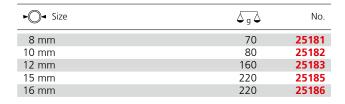
Description		No.
Internal / external deburrer	32	1500000236
Bending spray, 150 ml	63	25120

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





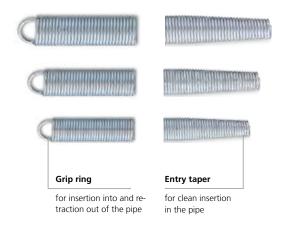
►O Size	∑ _g ∆	No.
5/16"	70	25181
1/2"	130	25190
5/8"	220	25186

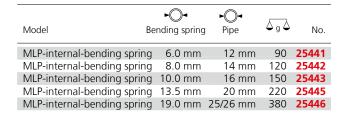
MLP internal bending springs

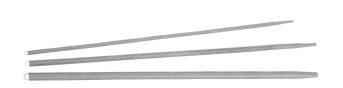
For hand bending of aluminium multi-layer pipes (MLP) Ø 6 - 20 mm

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







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





Description No.	Internal / external deburrer	32	1500000236
	Description		No.

3

Bending

Manual

ROBEND H+W PLUS

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



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-handed 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 bender

► ○ - Size	► max mm	R Radius mm	∆ _g ∆	No.
8 mm	1	22	660	24508
10 mm	1	32	1,180	24510
12 mm	1	38	1,110	24512
14 mm	1	45	1,370	24514
15 mm	1	45	1,370	24515
16 mm	1	64	2,620	24516
18 mm	1	64	2,620	24518
22 mm	1	81	3,800	24522
5/16"	1	22	660	24508
1/2"	1	38	1,110	24552
5/8"	1	64	2,620	24516
3/4"	1	81	3,850	24519
7/8"	1	81	3,800	24522
ACCESSO	ORIES (additio	onal lever for t	wo-handed b	ending)*
		formers Ø 8 mn	n / 3/8"	25075
Lever for bending formers Ø 10 - 15 mm			25076	
Lever for b	ending former	s bigger than Ø	15 mm	25078

*Possible from 10 mm

25120

1300003542

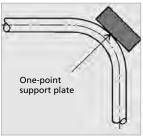
1300004002

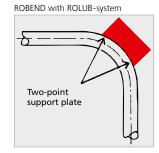
Conventional bender

ROCASE 6414

Bending spray, 150 ml

Plastic inlay f. ROCASE 6414





Accurate bending



ROBEND H+W PLUS bending sets

Sets include: ROCASE 6414 for a maximum of 6 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

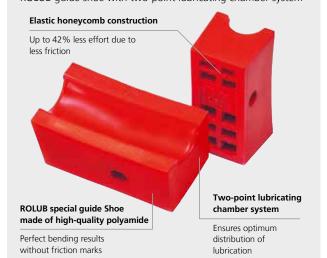
	Model	Description	► mm	$\sqrt[]{\log \lambda}$	No.
ĺ	ROBEND H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	24500
	ROBEND H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	24501
	ROBEND H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	24502
	ROBEND H+W PLUS	15 - 18 - 22 mm	1.0	14.9	24505
	ROBEND H+W PLUS	1/2 - 5/8 - 3/4"	1.0	13.6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

ROLUB Anti-Block special guide shoe

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

ROLUB Anti-Block special guide shoe

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



Bending

Manual hydraulic

ROBULL type E

For precise, manual hydraulic cold bending up to 90°

AOTHERICER



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"

KEY FEATURES

- Precise bending with the angle scale on the support brackets
- Reduces welded joints
- No pre-warming of pipe is required
- No bending forms needed
- Works quicker with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (opt.)
- With foldable and adjustable bending frame





ROBULL type E





Fig. similar

ROBULL type E bending segments

Small bending radius (red)

inch	mm	Wall thickness min. mm	R mm	$\sqrt[]{\log \Delta}$	No.
3/8"	17.2	2.35	45	0.7	57985
1/2"	21.3	2.65	49	0.7	57986
3/4"	26.9	2.65	65	0.8	57987
1"	33.7	3.25	89	1.3	57988
1.1/4"	42.4	3.25	115	1.6	57989
1.1/2"	48.3	3.25	137	2.4	57990
2"	60.3	3.65	200	3.2	57991

ROBULL type E bending segments

Large bending radius (black)

inch	► ○ ◄	Wall thickness min. mm	R mm	$\sqrt[]{\log \Delta}$	No.
3/8"	17.2	2.35	56	0.8	58010
1/2"	21.3	2.35	85	0.9	58011
3/4"	26.9	2.65	115	1.2	58012
1"	33.7	2.65	145	2.1	58013
1.1/4"	42.4	3.25	180	3.5	58014
1.1/2"	48.3	3.25	214	4.3	58015
2"	60.3	3.65	245	5.6	58016















Model	$\sqrt{\log \Delta}$	No.
Bending frame, adjustable	15.2	57981
Support segments f. ROBULL E / ME	2.6	775004000
with degree gradation (1 piece)		
Support segments f. ROBULL E / ME	2.6	57983
without degree gradation (1 piece)		

Model	$\sqrt[4]{\log \Delta}$	No.
Sup. seg. w/ degree gradation, foldable,	E/ME 12.5	775504100
Locking pin	0.3	57979
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182
Steel case	10.0	996277400

Bending

Electro-hydraulic

ROBULL type ME

For precise, power hydraulic cold bending up to 90°

230 V





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:

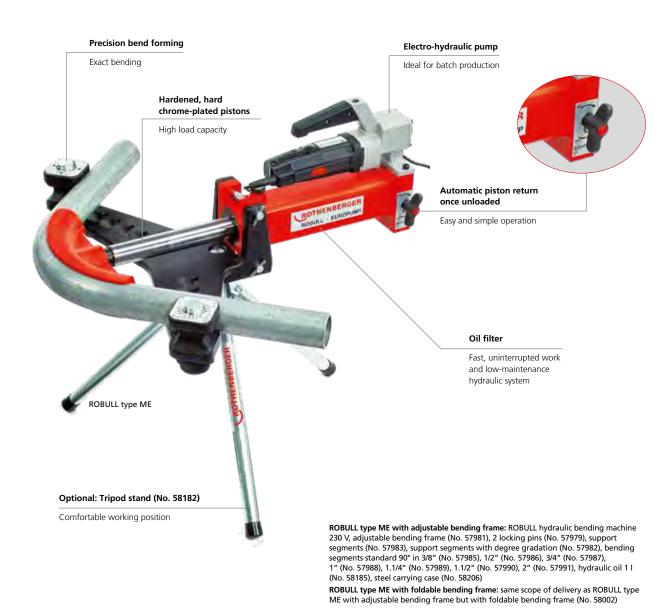
For accurate bending up to 90° on pipes made of:

Carbon steel suitable for

welding and thread-cutting: \emptyset 3/8 - 2"

KEY FEATURES

- Precise bending with the angle scale on the support segments
- Reduces welding joints
- Pre-warming of the pipe no longer necessary
- No bending forms are necessary
- Effective use with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (optional)
- With foldable and adjustable bending frame





ROBULL type ME





Fig. similar

ROBULL type ME bending segments

Small bending radius (red)

inch	mm	Wall thickness min. mm	R mm	$\sqrt[]{\log \Delta}$	No.
3/8"	17.2	2.35	45	0.7	57985
1/2"	21.3	2.65	49	0.7	57986
3/4"	26.9	2.65	65	0.8	57987
1"	33.7	3.25	89	1.3	57988
1.1/4"	42.4	3.25	115	1.6	57989
1.1/2"	48.3	3.25	137	2.4	57990
2"	60.3	3.65	200	3.2	57991

ROBULL type ME bending segments

Large bending radius (black)

inch	► O ¬	Wall thickness min. mm	R mm	$\sqrt{\log \Delta}$	No.
3/8"	17.2	2.35	56	0.8	58010
1/2"	21.3	2.35	85	0.9	58011
3/4"	26.9	2.65	115	1.2	58012
1"	33.7	2.65	145	2.1	58013
1.1/4"	42.4	3.25	180	3.5	58014
1.1/2"	48.3	3.25	214	4.3	58015
2"	60.3	3.65	245	5.6	58016















Model	\sqrt{kg}	No.
Bending frame, adjustable	15.2	57981
Support segments f. ROBULL E / ME	2.6	775004000
with degree gradation (1 piece)		
Support segments f. ROBULL E / ME	2.6	57983
without degree gradation (1 piece)		

Model	$\sqrt[]{\log \Delta}$	No.
Sup. seg. w/ degree gradation, foldable, Locking pin	E/ME 12.5 0.3	775504100 57979
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182
Steel case	10.0	996277400

ROBEND 4000

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

Product profile

APPLICATION AREA

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

Suitable for pipes made of: Copper (hard, semi-hard and

soft DIN EN 1057, 12735-1, 13348): Ø 12 - 35 mm, (1/2-1.3/8")

Copper and precision steel

(coated):

Ø 12 - 28 mm, (1/2-1.1/8")

Precision steel (soft DIN 2391 / 2393 / 2394):

Threaded steel (DIN 2440 / 2441):

Seamless stainless steel (GW 541):

Ø 12 - 28 mm, (1/2-1.1/8")

Ø 1/2", 3/4" Ø 12 - 28 mm, (1/2-1.1/8")

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: 1,010 W



Forged aluminium former with bending radius scale

Easy to use



Fast batch production possible

Bending of pipes made of various materials possible



Seven-fold drive



Comfortable carry handle



ROBEND 4000 with tripod stand



Electro

ROBEND 4000 E

Electrical bending machine for bending pipes with Ø 12 - 35 mm (1/2 - 1.3/8")





Product profile

APPLICATION AREA

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

Suitable for pipes made of: Copper (hard, semi-hard and

soft DIN EN 1057, 12735-1, 13348): Ø 12 - 35 mm, (1/2-1.3/8")

Copper and precision steel

(coated): Ø 12 - 28 mm, (1/2-1.1/8")

Precision steel (soft

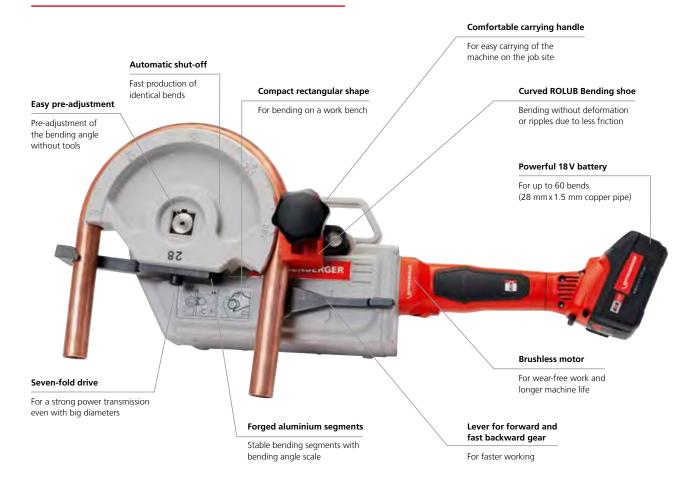
DIN 2391 / 2393 / 2394): Ø 12 - 28 mm, (1/2-1.1/8")

Threaded steel (DIN 2440 / 2441): Ø 1/2", 3/4"

Seamless stainless steel (GW 541): Ø 12 - 28 mm, (1/2-1.1/8")

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



Forged aluminium segments with bending angle scale



Working with a Tripod



Comfortable carry handle



Compact, rectangular shape





ROBEND 4000/4000 E sets

Sets include: basic 230 V unit (No. 1000001559), bending formers and guide shoes for respective pipe diameters, guide shoe axle (No. 25743), adaptor for tripod stand (No. 25748) in basic unit (tripod stand optional), carrying case









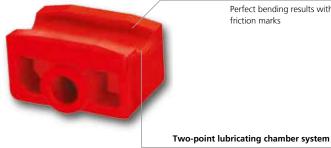
ROLUB-Anti-Block-System!

ROLUB special guide shoe made of high-quality polyamide

Perfect bending results without friction marks







Ensures optimum distribution of lubrication





Model	Description	Pipe type	$\sqrt[]{\log \Delta}$	No.
ROBEND 4000 set	15 - 18 - 22 mm	Cu, Fe et al.	24.12	1000001554
ROBEND 4000 set	15 - 18 - 22 - 28 mm	Cu, Fe et al.	24.12	1000001550
ROBEND 4000 set	12 - 14 - 16 - 18 - 22 mm	Cu, Fe et al.	21.90	1000001551
ROBEND 4000 set	15 - 22 - 28 mm	Cu, Fe et al.	21.10	1000001545
ROBEND 4000 set	12 - 14 - 16 - 18 - 22 - 28 mm	Cu, Fe et al.	24.10	1000001552
ROBEND 4000 set	12 - 15 - 18 - 22 - 28 mm	Cu, Fe et al.	23.50	1000001549
ROBEND 4000 set	15 - 18 - 22 - 28 - 32 - 35 mm	Cu, Fe et al.	32.00	1000001567
ROBEND 4000 set	1/2 - 5/8 - 3/4 - 7/8"	Cu, Fe et al.	19.60	1000001553
ROBEND 4000 set	1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"	Cu, Fe et al.	29.00	1000001565
ROBEND 4000 set	7/8 - 1.1/8 - 1.3/8"	Cu, Fe et al.	22.00	1000001566
ROBEND 4000 set	15 - 18 - 22 - 28 - 35 mm	Cu, Fe et al.	29.00	1000001738
ROBEND 4000 basic unit	in carrying case without bending segments	Cu, Fe et al.	14.50	1000001559
ROBEND 4000 E base machine,		Cu, Fe et al.	17.45	1000003391
without battery and charger				
ROBEND 4000 E set with battery, 4.0 Ah 18 V	15-18-22-28 mm	Cu, Fe et al.	29.15	1000003392
and battery charger				
ROBEND 4000 E set with battery, 4.0 Ah 18 V	12-14-16-18-22-28 mm	Cu, Fe et al.	30.15	1000003393
and battery charger				
ROBEND 4000 E set with battery, 4.0 Ah 18 V	1/2-5/8-3/4-7/8-1.1/8"	Cu, Fe et al.	29.45	1000003394
and battery charger				















Model	No.	Model	No.
Bending spray, 150 ml	25120	RO BP18/4, 4.0Ah 18V Li-Power Akku	1000001653
Guide shoe axle	25743	RO BC14/36 Ladegerät, 230 V, EU	1000001654
ROBEND carrying case, for 5 segments up to Ø 30 mm	995830200		
Tripod stand, foldable	25748	Pipe cutter	14 - 27
ROBEND carrying case, for 32 mm (1.1/4") and 35 mm (1.3/8")	1000001564	Internal / external deburrer	32

Accessories and bending tables

ROBEND 3000/4000/4000 E Bending formers

For bending pipes Ø 12 - 35 mm (1/2 - 1.3/8")



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

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

For copper pipe DIN EN 1057, 12735-1, 13348, aluminium pipe, precision steel pipe DIN 2391/93/94, stainless steel pipe and others

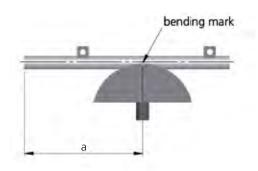
► ○ - Size	Wall thickness mm	Bending radius mm	$\Delta_{kg}\Delta$	No.
12 mm	1.0	42	0.48	25612
14 mm	1.0	49	0.48	25614
15 mm	1.0	52	0.53	25615
16 mm	1.0	56	0.60	25616
18 mm	1.0	72	1.17	25618
20 mm	1.0	80	1.42	25620
22 mm	1.2	88	1.42	25622
28 mm	2.0	112	2.90	25628
32 mm*	2.0	128	3.40	1000001561
35 mm*	2.0	140	3.60	1000001563

For imperial copper pipe DIN EN 1057, 12735-1, 13348 aluminium pipe, precision steel pipe DIN 2391/93/94, stainless steel pipe and others

► O - Size	Wall thickness mm	Bending radius mm	$\sqrt[]{\log \Delta}$	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
1.1/4"*	2.0	128	3.40	1000001561
1.3/8"*	2.0	140	3.60	1000001563

*Bending former sets (No. 1000001561 / No. 1000001563) are only compatible with ROBEND 4000/ROBEND 4000 E. Only matching with optional plastic carrying case (No. 1000001564).

Push bending



45°- arc



Symbols

 L_1 , L_2 = Leg length

a = Lay out length

 $\begin{array}{ll} L & = Total \ length \ of \ the \ pipe \ piece \\ L_W & = Distance \ / \ pipe \ end \ - \ wall \\ A_W & = Distance \ / \ pipe \ middle \ - \ wall \\ \end{array}$

 L_{M} = Minimum length* L_{R} = Reserve length*

90°- arc



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

ROTHENBERGER

Bending

Bending tables

Calculation examples TUBE BENDER MAXI

Specifications:

Installation in corner areas $L_W = 1,200 \text{ mm}$ $A_W = 30 \text{ mm}$

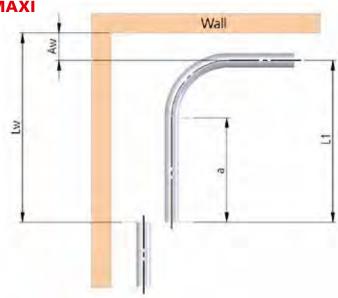
Pipe-Ø 12 mm, 90°-arc

Sought after:

Leg length L₁ Applied size a

Solution:

Summary from the TUBE BENDER MAXI bending table



Leg length

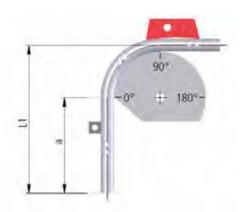
 $L_{\rm 1}$ = $L_{\rm W}$ - $A_{\rm W}$ = 1,200 - 30 = 1,170 mm a = $L_{\rm 1}$ - $L_{\rm R}$ = 1,170 - 7.5 = 1,162.5 mm; $L_{\rm R}$... Tabular value Applied size

TUBE I	TUBE BENDER		at 45°		at 90°		at 180°	
for Ø mm / inch	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	
4.75/5	20.0	4.5	1.0	4.5	10.0	-	-	
6	23.5	5.0	1.2	5.0	11.5	-	-	
8	28.0	7.0	1.4	7.0	14.0	-	-	
9	30.0	7.0	1.5	7.0	15.0	-	-	
10	34.0	7.5	1.8	7.5	17.5	-	-	
12	37.5	8.5	1.9	8.5	19.0	-	-	
3/16"	20.0	4.5	1.0	4.5	10.0	-	-	
1/4"	23.5	5.0	1.2	5.0	11.5	-	-	
5/16"	28.0	7.0	1.4	7.0	14.0	-	-	
3/8"	34.0	7.5	1.8	7.5	17.5	-	-	
1/2"	37.5	8.5	1.9	8.5	19.0	-	-	

TUBE BENDER MAXI		at 45°		at 90°		at 180°
for Ø mm / inch	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm
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°
Tube Ø / Ws mm	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm
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	-

Bending tables



Symbols

 L_1 , L_2 = Leg length a = Lay out length

 $\begin{array}{lll} L & = \text{Total length of the pipe piece} \\ L_W & = \text{Distance / pipe end - wall} \\ A_W & = \text{Distance / pipe middle - wall} \\ L_M & = \text{Minimum length*} \end{array}$

_{-M} = Minimum length _{-R} = Reserve length*

45°- arc

90°- arc

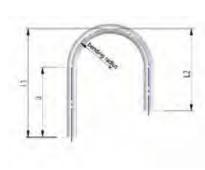
180°- arc







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



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

Calculation examples ROBEND 3000/ROBEND 4000/ ROBEND 4000 E

Specifications:

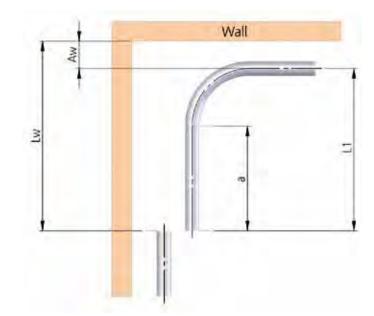
Installation in corner areas Lw = 1,200 mm Aw = 30 mmPipe-Ø 12 mm, 90°-arc

Sought after:

Leg length L₁ Applied size a

Solution:

Summary from the ROBEND 3000/4000/4000 E bending table



Leg length $L_1 = L_W - A_W = 1,200 - 30 = 1,170 \text{ mm}$ Applied size $a = L_1 - L_R = 1,170 - 42 = 1,128 \text{ mm}; L_R ... Tabular value}$

Bending tables

ROBEND	H+W Plus	at	45°	at	90°	at '	180°	
Ø / Ws mm / Inch	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	
8	22	9	-	22	9.5	22	47	
10	32	12	-	32	15.0	32	34	
12	38	15	-	40	20.0	38	39	
14	45	17	-	44	22.0	44	51	
15	45	17	-	44	22.0	44	51	
16	64	25	-	67	30.0	68	65	
18	64	25	-	67	30.0	68	65	
20	81	30	-	85	40.0	86	83	
22	81	30	-	85	40.0	86	83	
5/16"	22	9	-	22	9.5	22	47	
3/8"	32	12	-	32	20.0	32	34	
1/2"	38	15	-	40	22.0	38	39	
5/8"	64	25	-	67	30.0	68	65	
3/4"	81	30	-	85	40.0	86	83	
7/8"	81	30	-	85	40.0	86	83	
770	0 1	30		03	40.0	00	03	
MIN	IBEND	at	at 45°		at 90°		at 180°	
Ø / Ws mm / Inch	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	
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	
Standard	bender 180°	at	45°	at 90°		at '	180°	
for Ø	Bending radius	Reserve length	Minimum length	Reserve length	Minimum length	Reserve length	Minimum length	
mm / Inch	R (mm)	L _R mm	L _M mm	L _R mm	L _M mm	L _R mm	L _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	
18		7.0	0.8	18.5	8.0	18.5	20.0	
1/4"	18.0							
	18.0 24.0	9.5	1.0	24.0	12.0	24.0	27.0	
1/4"				24.0 49.5	12.0 22.5	24.0 49.5	27.0 53.0	

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

ROBEND	ROBEND 3000/4000/4000 E		at 45°		at 90°		at 180°	
for Ø mm / Inch	Pipe	Bending radius R (mm)	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L _M mm
12		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
32 / 1.1/4"		128.0	52	-	140	70	135	140
35 / 1.3/8"		140.0	55	-	150	80	145	150
3/8"	steel	12.0	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



Expanding, extracting, flaring **System overview** 80 - 81 82 - 86 Expanding, manual Expanding, electric 87 Expanding, hydraulic 88 - 89 Accessories expanding 90 Expanding and extracting, manual 91 Extracting, manual 92 - 93 Accessories extracting, manual 94 95 - 98 **Flaring** Torque wrench 99

Expander

ROLOCK expander power torque







Operation mode:	Manual	Manual	Manual
Working range: Copper	Ø 8-42 mm (5/16-1.3/4") •⊙ 1.6 mm, soft, semi-hard	Ø 22-67 mm (1-2.1/2") •⊙ 2.5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") ◆○ 2.5 mm, soft
Working range: Aluminium	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 22-67 mm (1-2.1/2") → 2.5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2.5 mm, soft
Working range: Precision steel	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 22-54 mm (1-2.1/8") •⊙ 1.5 mm, soft	-
Working range: Stainless steel	Ø 8-22 mm (5/16-7/8") •⊙ 1 mm, soft	Ø 22-54 mm (1-2.1/8") •⊙ 1.5 mm, soft	-

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Operation mode:	Hydraulic
Working range: Copper	Ø 8-110 mm (5/16-4.1/4") •⊙ 3 mm, soft, semi-hard
Working range: Aluminium	Ø 8-110 mm (5/16-4.1/4") •⊙ 3 mm, soft, semi-hard
Working range: Precision steel	Ø 8-110 mm (5/16-4.1/4") ◆⊙ 3 mm, soft, semi-hard
Working range: Stainless steel	Ø 8-110 mm (5/16-4.1/4") •⊙ 3 mm, soft, semi-hard

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Expander heads

Expander head ROLOCK



Expander head standard



Expander head type S



Flanged riveted expander head



Working range:	Ø 8-42 mm (5/16-1.3/4")	Ø 8-42 mm (5/16-1.3/4")	Ø 22-67 mm (1-2.1/2")	Ø 15-38 mm
Copper	→ 1.6 mm, soft, semi-hard	►⊙ 1.6 mm, soft, semi-hard	→ 2.5 mm, soft, semi-hard	►⊙ 1.5 mm, soft, semi-hard
Working range: Aluminium	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 22-67 mm (1-2.1/2") •⊙ 2.5 mm, soft	-
Working range: Precision steel	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 22-54 mm (1-2.1/8") •⊙ 1.5 mm, soft	-
Working range: Stainless steel	Ø 8-22 mm (5/16-7/8") •⊙ 1 mm, soft	Ø 8-22 mm (5/16-7/8") •⊙ 1 mm, soft	Ø 22-54 mm (1-2.1/8") •⊙ 1.5 mm, soft	-

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Working range: Copper	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2,5 mm, soft, semi-hard
Working range: Aluminium	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2,5 mm, soft
Working range: Precision steel	-
Working range: Stainless steel	-

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Expanding, extracting, flaring

Expanding, manual

ROLOCK expander power torque

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









Product profile

APPLICATION AREA

Precision steel (soft):

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

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"

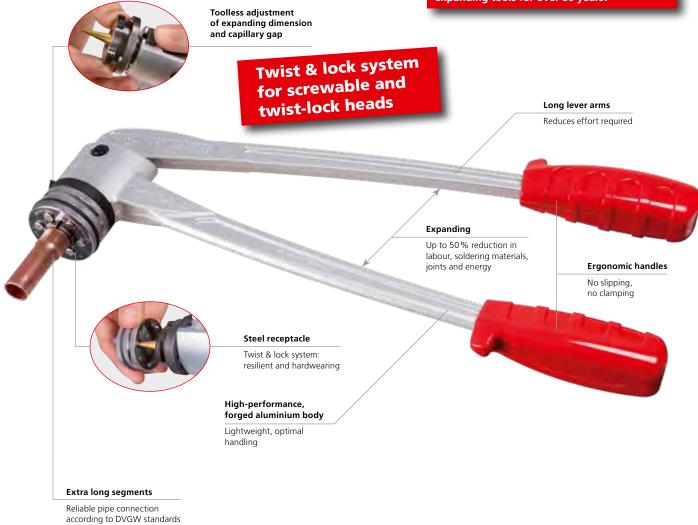
max. wall thickness 1.0 mm

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
- Toolless fine adjustment of the capillary gap
- EPT-Technology concealed bent lever

Made in Germany!

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 50 years!



ROLOCK expander power torque	$\sqrt[]{\log \Delta}$	No.
Expander tool (without expander heads)	1.0	12400
for expander heads up to 42 mm / 1.3/4"		

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), inlay, carrying case



Fia.	SIM	۱ı	lar

ROLOCK expander power torque sets Model	$\sqrt{\log \Delta}$	No.
12 - 15 - 18 - 22 mm	2.9	12500
12 - 15 - 18 - 22 - 28 mm	3.3	12503
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	3.6	12537
12 - 14 - 16 - 18 - 22 - 28 - 32 mm	3.7	12538
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"	2.9	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"	3.7	12536
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

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

For efficient, fitting-free installation of pipes



Custom-made products* ROCAM PE-X expander power torque

For expanding and calibrating PE-X and aluminium multilayered composite pipe (MLP) up to Ø 42 mm or 1.3/4" as well as producing tapers

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



ACCESSORIES















Description		Description	
Expander heads for ROLOCK expander power torque	84	Expander adaptor type S	86
Expander heads type S / riveted expander heads	86	Brazing solder	179
Pipe cutter	14 - 27	High-performance torch (SUPER FIRE 4 with MAPP ¹⁾ gas)	152 - 153
Internal / external deburrer	32		

^{*} Availability, delivery time and price of custom products for other pipe diameters available on request.



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

Expanding, manual

Expander head ROLOCK and standard

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

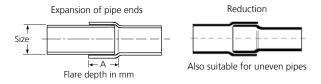
Product profile

KEY FEATURES

- 50% reduction in labour, soldering materials and soldered joints
- Depth of the flare is consistent with DVGW standards
- Compulsory guidance guarantees a perfect centred position and uniform capillary gap
- Robust 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 50 years!





Expander head ROLOCK

Twist & lock system for quick and easy change between nominal diameters



Expander head standard

Standard screwable expander head, still compatible with the ROLOCK Expander



	m	ax. wall th	ickness	mm (soft)) A	ı	ROLOCK	Standard
mm	Cu	Al	Fe	Inox	mm	$\Delta_g \Delta$	No.	No.
8	1.0	1.0	1.0	1.0	6.0	120	12408	11008
10	1.0	1.0	1.0	1.0	10.0	120	12410	11010
12	1.2	1.2	1.2	1.0	12.6	120	12412	11012
14	1.2	1.2	1.2	1.0	12.6	120	12414	11014
15	1.2	1.2	1.2	1.0	15.5	120	12415	11015
16	1.2	1.2	1.2	1.0	15.5	120	12416	11016
18	1.2	1.2	1.2	1.0	17.5	120	12418	11018
20	1.2	1.2	1.2	1.0	17.5	140	12420	11020
22	1.2	1.5	1.5	1.0	20.5	140	12422	11022
28	1.5	1.5	1.5	-	18.5	390	12428	11028
32	1.5	_	_	_	19.5	410	12432	11032
35	1.6	_	_	_	19.5	430	12435	11035
38	1.6	_	_	_	19.5	450	12438	11038
40	1.5	_	-	_	19.5	470	12440	11040
42	1.5	-	_	_	19.5	470	12442	11042

-	ma	ax. wall th	ickness	mm (soft) A		ROLOCK	Standard
inch	Cu	Al	Fe	Inox	mm	$\Delta_g \Delta$	No.	No.
5/16′	′ 1.0	1.0	1.0	1.0	6.0	120	12408	11008
3/8"	1.0	1.0	1.0	1.0	7.4	120	12452	11052
1/2"	1.2	1.2	1.2	1.0	11.0	120	12453	11053
5/8"	1.2	1.2	1.2	1.0	14.0	120	12454	11054
3/4"	1.2	1.2	1.2	1.0	18.1	120	12455	11055
7/8"	1.2	1.2	1.2	1.0	18.0	140	12456	11056
1"	1.5	1.5	1.5	-	15.8	150	12457	11057
1.1/8	"1.6	1.6	1.6	_	17.0	390	12458	11058
1.1/4	"1.6	-	_	_	17.0	410	12459	11059
1.3/8	"1.6	-	-	-	17.0	430	12435	11035
1.1/2	"1.6	-	_	-	17.0	450	12438	11038
1.5/8	"1.6	-	_	-	17.5	470	12462	11062
1.3/4	"1.6	-	-	-	17.5	500	12463	11063
Availa	hilita d	alivary tim	o and n	ico of cur	tom proc	ducte for	other nine	

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

Suitable for ROTHENBERGER ROLOCK expander power torque

Description		Description	
ROLOCK expander power torque	82	ROCASE 4414 red, without inlay	335
ROLOCK COMBI KIT expander / tee-extractor	91		

Expanding, extracting, flaring

Expanding, manual

Expander A0

For expanding, reducing and calibrating thick walled pipes Ø 22 - 67 mm (1 - 2.1/2") as well as the production of tapers

Product profile

APPLICATION AREA

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

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

- Application and savings advantages similar to ROLOCK 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 set (No. 11400) includes: expander head type S, special ratchet (No. 27181)

Expander A0 basic unit (No. 11004) includes: square drive mechanism 3/4" with handle, without expander head and ratchet

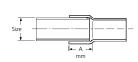
Model	► Size	$\Delta_{kg}\Delta$	No.
Expander A0 set	35 - 42 - 54 - 64 mm	8.12	11400
Expander A0 basic unit		1.97	11004



Fig. similar

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

-0-	m	nax. wall t	hickness r	A-size			
mm	Cu	Al	Fe	Inox	mm	∆ _g ∆	No.
22	2.0	2.0	1.5	1.5	18.5	350	11323
25	2.0	2.0	1.5	1.5	18.5	350	11325
28	2.0	2.0	1.5	1.5	19.5	360	11328
32	2.0	2.0	1.5	1.5	19.5	380	11332
35	2.0	2.0	1.5	1.5	19.5	400	11335
36	2.0	2.0	1.5	1.5	19.5	400	11336
42	2.0	2.0	1.5	1.5	19.5	450	11342
54	2.5	2.5	1.5	1.5	19.5	570	11346
64	2.5	2.5	-	-	19.5	690	11348
67	2.5	2.5	-	-	19.5	730	11380

→	m	ax. wall th	nicknoss r	nm	A-size		
inch	Cu	Al	Fe	lnox	mm	$\Delta_g \Delta$	No.
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
1.5/8"	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

Expander adaptor type S

To increase the application area of the ROCAM / ROLOCK expander power torque, ROMAX expander compact standard and expander pistol H1





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

Model	▶ ○ ⊸ max.	► max. mm	ΔgΔ	No.
Adaptor type S,	67 mm and/or 2.1/2"	2.0	630	11007
without expander	head			

Flanged riveted expander heads

For use with the ROCAM / ROLOCK expander power torque, ROMAX expander compact standard and expander pistol H1





Product profile

APPLICATION AREA

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

- Air-conditioning technology
- Auto manufacturing
- Industrial applications

► ○ ◄	► mm	Outer diaflange mm	Distance flange pipe end mm	∑ _g ∆	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

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

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" max. wall thickness 2.5 mm (soft)

KEY FEATURES

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



Sets include: step expander with handle, without special ratchet



►O- Size	$\Delta_{kg}\Delta$	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

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:

Ø 8 - 110 mm, 5/16 - 4.1/4" Copper and aluminium:

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

TECHNICAL DATA

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

Actuation: 400 V / 1,200 W



Set (No. 13100) includes: Electro-hydraulic expander system H 600 complete with hydraulic unit H 600 (No. 13002), expander pistol H1 (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 I (No. 58185), without expander heads

Set (No. 13002) includes: Electro-hydraulic unit H 600 with safety foot pedal, adjusting tool, tool rack (No. 13023) and hydraulic oil 1 I (No. 58185), without expander heads

Model	$\sqrt[]{\log \Delta}$	No.
Hydraulic expander system H600	36.0	13100
Hydraulic unit H 600	33.1	13002
Safety foot pedal with 3 m cable	0.5	12013

Electro-hydraulic expander pistol H1

Product profile

APPLICATION AREA

Expander heads standard: Ø 8 - 42 mm, 5/16 - 1.3/4"

max. wall thickness 1.6 mm

Expander heads type S: Ø 22 - 67 mm, 1 - 2.1/2" (with adaptor No. 11007) max. wall thickness 2.5 mm

Set includes: 2.5 m control cable (No. F88928), hydraulic hose (No. 12023), adjusting tool (No. 12017), hydraulic oil 1 l (No. 58185)

Description	$\sqrt[]{\log \Delta}$	No.
Electro-hydraulic expander pistol H1	2.9	12001
Adaptor H1 / type S	0.6	11007
Adjusting tool for H1	0.9	12017



ACCESSORIES		
Description	$\sqrt[L]{\log \Delta}$	No.
Expander head H2 / type 2, 28 - 70 mm	2.5	12078
Expander head H2 / type 3, 70 - 110 mm	3.0	12080
Adaptor H2 / type S	1.1	12097
Adjusting tool for H2	0.9	12018

Expander pistol H1 (No. 12001)



Adaptor (No. 12097)

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



Expander adaptor (No. 11007) for ROCAM expander power torque or expander pistol H1



Expander adaptor (No. 12097) for expander pistol H2

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

	▶ ○◀	►•		
Model	max.	max. mm	$\Delta_{kg}\Delta$	No.
Adaptor type S, without expander h	67 mm and/or 2.1/2' neads	" 2.0	0.6	11007
Adaptor H2/type S	70 - 110 mm		1.1	12097

Accessories expanding

Expander head compatibility

	Expander head ROLOCK	Expander head standard	Expander head type S	Riveted expander head	Expander head PE-X	Expander head H2, type 2 and 3	Step expander head
ROLOCK expander power torque	•	•	4	•	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 Fig. similar	0	0		0	0	•	0

Expander head can be used without adaptor Expander head can not be used

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

Expanding, extracting, flaring

Expanding and extracting, manual

ROLOCK COMBI KIT expander / tee-extractor

Practical, compact and cost-saving set combinations with ROLOCK expander power torque and tee-extractors. For all common pipe dimensions Ø 12 - 28 mm (1/2 - 1.1/8")

Product profile

APPLICATION AREA

Suitable for pipes made of: Copper, aluminium

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

KEY FEATURES

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

Made in Germany!

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 50 years!



KEY FEATURES

- Toolless fine adjustment of the capillary gap
- 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

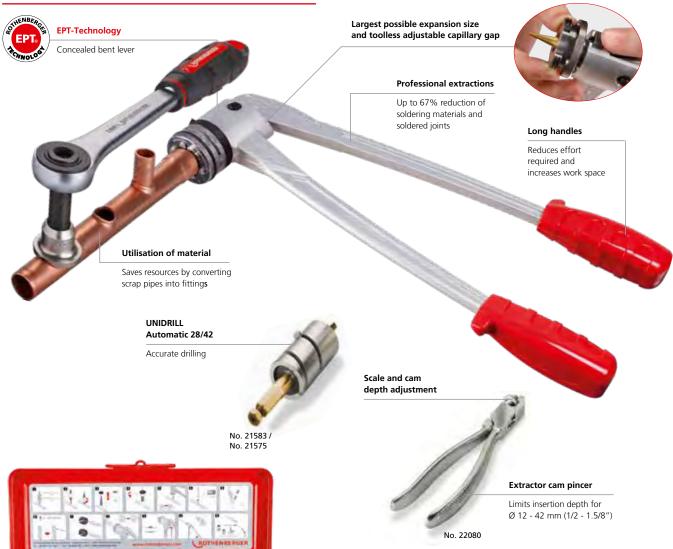




Fig. similar

ROLOCK COMBI KIT sets include: ROLOCK expander power torque (No. 12400), ROLOCK expander heads, tee-extractor, special ratchet (No. 27180), adaptor (No. 1500002894), UNIDRILL Automatic 28 (No. 21583), extractor cam pincer (No. 22080), carrying case

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

Tee-extractor sets

For efficient production of T-branches (extractions) for fitting-free pipe installations, Ø 10 - 42 mm (3/8 - 2.1/8")

Product profile

APPLICATION AREA

Suitable for pipes made of:

 Copper (soft, semi-hard, hard):
 Ø 10 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

 Aluminium:
 Ø 10 - 42 mm, 3/8 - 2.1/8"

max. wall thickness 2.5 mm

Precision steel: Ø 10 - 42 mm, 3/8 - 2.1/8"

Made in Germany!

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 50 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





Fig. similar

Tee-extractor sets include: tee-extractor according to chart, special ratchet (No. 27180), adaptor (No. 1500002894), cam pincer (No. 22080) and special conical drill, UNIDRILL Automatic 42 (No. 21575), carrying case

Model ►○◀	Description	$\sqrt[]{\log \Delta}$	No.
Tee-extractor set 12 - 1	5 - 18 - 22 mm	3.4	22100
Tee-extractor set 12 - 1	5 - 22 - 28 mm	3.6	22101
Tee-extractor set 12 - 1	5 - 18 - 22 - 28 mm	3.9	22103
Tee-extractor set 12 - 1	4 - 16 - 18 - 22 mm	3.6	22109
Tee-extractor set 10 - 1	2 - 14 - 16 - 18 - 22 mm	3.7	22111
Tee-extractor set 12 - 1	5 - 18 - 22 - 28 - 35 - 42 mm	5.5	22126
Tee-extractor set 15 - 2	2 - 28 mm	3.6	22127
Tee-extractor set 1/2 - 5	5/8 - 3/4 - 7/8"	3.4	22121
Tee-extractor set 1/2 - 5	5/8 - 7/8 - 1.1/8"	3.7	22124
Tee-extractor set 1/2 - 3	3/4 - 1"	3.3	22135

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

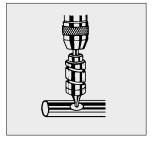
►O- mm / inch	mm	Drill Ø mm	mm	√ _g √	No.
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
28	2.5	15	11	470	22028
35	2.5	22	11	700	22035
38	2.5	22	11	700	22038
42	2.5	26	11	890	22042
54	2.5	30	19	1,380	22054
3/8"	1.0	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

hexagon	square
---------	--------

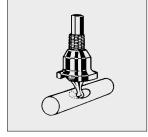
► mm	ΔgΔ	No.
10	60	1300005045
12	70	1300005046
14	90	1300005047
15	90	1300005048
16	140	1300005049
18	140	1300005050
22	210	1300005051
28	220	1300005052
35	290	1300005054
38	290	1300005055
42	320	1300005056
54	560	1300005057

inch	Δgδ	No.
3/8"	60	1300005058
1/2"	70	1300005059
5/8"	140	1300005049
3/4"	140	1300005060
7/8"	200	1300005061
1"	210	1300005062
1.1/8"	220	1300005063
1.1/4"	270	1300005064
1.3/8"	290	1300005054
1.1/2"	290	1300005055
1.5/8"	320	1300005065
2"	520	1300005067
2.1/8"	560	1300005057

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

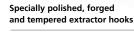


Insert extractor hook into the drilled hole and screw the bell firmly against the drill hole



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")



► Mm / inch	mm	Drill Ø mm	● mm	∆ _g ∆	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	1,380	22050
2.1/8"	2.5	30	19	1,380	22054
Accessorie	ac .				

Accessories
Socket 19 mm
Square connection 3/4"

F80053 F80054

Spare extractor hooks

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

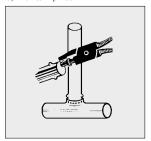


Note: For copper pipes (soft), the use of an extractor support is recommended! (94)

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 \emptyset) with cam pincer



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

Expanding, extracting, flaring

Accessories extracting, manual

Tee-extractor ratchet

Chrome vanadium steel, fine toothed and right/left reversible



No. 1500002894 Adaptor for the use with extractor



Model	◆ SW	∑ _g ∆	No.
10 - 42 mm, 3/8 - 1.3/4"	3/4" ■	435	27180
50 - 54 mm, 2 - 2.1/8"	3/4" ■	1,140	27181

Extractor cam pincer

KEY FEATURES

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





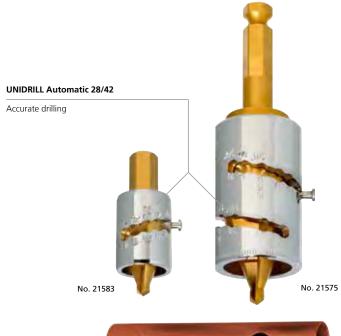
►O mm	► ○ inch	k—> mm	ΔgΔ	No.
12 - 42	1/2 - 1.5/8"	150	170	22080

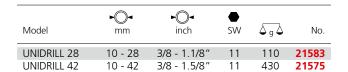
UNIDRILL Automatic 28/42

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









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 1.0 mm
- Universal use with the pluggable pressure cone
- Accurate and reproducible results
- Clamping block for several pipe diameters
- Reliable hold with the 25 mm pipe clamping length
- Suitable for clamping in a vice

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

E- contour, simple flare:

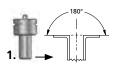
Standard flaring contour

D-contour, double flare:

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

180° flares:

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







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

Description	►O mm	$\sqrt{\log \Delta}$	No.
DB 10 set Flaring attachment	4.75 - 5 - 6 - 8 - 9 - 10 mm 4.75 / 5 mm	2.64 0.20	26013 26001
Flaring attachment	6 mm	0.20	26002
Flaring attachment	8 mm	0.20	26003
Flaring attachment	9 mm	0.20	26004
Flaring attachment	10 mm	0.20	26005



Description	► mm	$\sqrt[L]{g}$	No.
Pressure cone		20	26010
Clamping spindle		90	26015
Flaring spindle		300	26016
Distance bolt		30	26017
Set of clamping bloc	ks (2 pcs.) for pipes	190	26011
	75 - 5 - 6 - 8 - 9 - 10 mm	n	

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 \emptyset 6 - 18 mm and 1/4 - 3/4"

Flaring come off-centre Mould



E-contour single flare

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

Adaptor attachment For ratchet and electric drive Spring loaded safety clutch No reduction of wall thickness High-quality revolver die Highest fitting accuracy with long service life Recuperating spring Automatic support to pull back the flexible revolver die Durable and slip-proof

Set (No. 1000000230) includes: ROFLARE REVOLVER metric incl. ratchet adaptor, dies \emptyset 6, 8, 10, 12, 16 and 18 mm, pipe cutter ROTRAC 28 PLUS chrome limited edition (No. 1000000046), ROCASE 4212 (No. 1300003334)

Set (No. 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 chrome limited edition (No. 1000000046), ROCASE 4212 (No. 1300003334)

Description	No.
Set, metric with ROTRAC 28 PLUS chrome limited edition	1000000230
Set, imperial with ROTRAC 28 PLUS chrome	1000000231
limited edition Metric, Ø 6, 8, 10, 12, 16, 18 mm	1000000222
Imperial, Ø 1/4 , 5/16, 3/8, 1/2, 5/8, 3/4"	1000000223

Compact design enables use in confined spaces



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



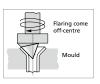
Reeling flaring tool

For producing precise 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







E-contour single flare



Reeling flaring tool set includes: reeling flaring tool in plastic case with mould in metric and/or imperial format

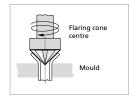
Model	► mm / inch	No.
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"	222401
Set EB Set EB	1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4" 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm	222402 222403
	Dies	
Metric Imperial	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"	222413 222412

Flaring

Universal flaring tool

For producing precise 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







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

Model	► O⊲ mm	► ○ 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





Fig. similar

Flaring and bending set (No. 26020) includes: MINICUT I, \emptyset 3 - 16 mm (No. 70401), internal and external deburrer, \emptyset 4 - 36 mm (No. 11006), double flare press DB 10 (No. 26013), TUBE BENDER set, \emptyset 4.75 - 10 mm (No. 24112)

Model	► ○ mm	$\Delta_{kg}\Delta$	No.
Flaring / hending set	475-5-6-8-9-10	5.5	26020



Torque wrench

ROTORQUE AIRCON / REFRIGERATION

Step-less torque wrench

Product profile

APPLICATION AREA

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

KEY FEATURES

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

Closed head





ROTORQUE sets include: torque wrench, head, carrying bag

Model	$\sqrt[]{\log \Delta}$	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**



Fig. similar

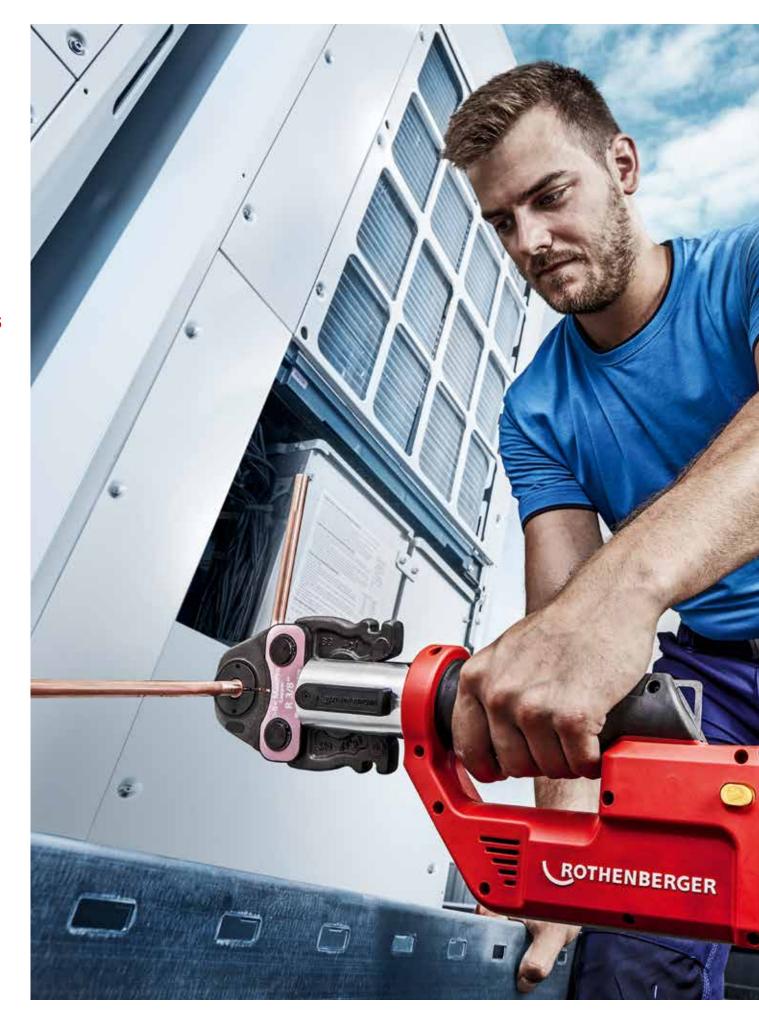
Fix with torque

urgently necessary!

7 pieces set (No. 175001) includes: spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

Pipe-Ø	Spanner width	Locking torque
1/4" / 6 mm	17 mm	14 - 18 Nm
3/8" / 10 mm	22 mm	33-42 Nm
1/2" / 12 mm	24 mm	50-62 Nm
1/2" / 12 mm	26 mm	50-62 Nm
5/8" / 15/16 mm	27 mm	63-77 Nm
5/8" / 15/16 mm	29 mm	63-77 Nm

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





System overview

Press machines











			,	
Operation mode:	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Jaw fixture rotatable:	270°	270°	270°	270°
Constant Force Technology (CFT):	\checkmark	\checkmark	\checkmark	✓
Controlled press cycle:	\checkmark	\checkmark	\checkmark	-
Piston force / hub:	19 kN / 30 mm	32 kN / 40 mm	32 kN / 40 mm	32 kN / 40 mm
Service interval:	40,000 pressings	40,000 pressings	20,000 pressings	10,000 pressings
LED:	\checkmark	✓	\checkmark	-
Approx. pressing cycle time:	3 s	5 s	5 s	7 s
Dimensions:	336 x 143 x 76 mm	445 x 125 x 75 mm	460 x 120 x 90 mm	415 x 180 x 80 mm
Cable length:	-	-	5 m	5 m
Weight:	2.5 kg	3.6 kg	3.8 kg	4.5 kg
Battery:	✓	✓	-	-
Page:	104 - 105	108 - 109	110	111

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.

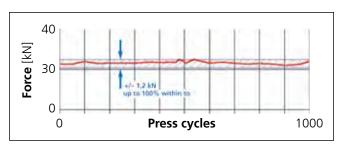
CFT guarantees:

ROMAX Compact TT 19 kN / 40,000 press cycles

ROMAX 4000 32 kN / 40,000 press cycles **ROMAX 3000 AC** 32 kN / 20,000 press cycles ROMAX AC ECO 32 kN / 10,000 press cycles

Constant Force Technology

Measurement under load – UPONOR NW 75





Cordless Alliance System

- 100% compatibility of machines, battery packs and chargers - cross-manufacturer
- World's most powerful battery pack system with 30 years of battery pack competence from Metabo
- Maximum reliability, clear cost advantages and high investment reliability.
- Cordless Alliance System (CAS) is an alliance of leading power tool brands.
- CAS partner: ROTHENBERGER, Metabo, Mafell, Collomix, Eibenstock, Eisenblätter, Haaga, Starmix, Steinel, Rokamat, Birchmeier, Edding, Fischer, Prebena, Cembre, Pressfit and Jöst.



Press jaws/Press chains/Press rings













Press jaws standard



3-elemental press jaws



Press chains standard







Page:	113	114	114	115	116	106
Suiteable for all press machines with a compatible press jaw fixture and a constant axial thrust of:	19 – 21 kN	19 – 21 kN	32 – 34 kN	32 – 34 kN	32 – 34 kN	19 – 21 kN und 32 – 34 kN
Compatible with Conex Bänninger >B< MaxiPro press fitting system:	✓	-	✓	-	-	✓
Precision-manufactured contour:	✓	✓	✓	✓	✓	✓
3-bolt synch. mechanism:	\checkmark	\checkmark	\checkmark	\checkmark	-	-
Long-term corrosion prot.:	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark
DURA LAZR TEC:	\checkmark	_	\checkmark	\checkmark	\checkmark	\checkmark
Snap on:	-	-	-	-	\checkmark	\checkmark
Working range multi-layer:	Ø 12 - 40 mm	Ø 12 - 32 mm	Ø 12 - 40 mm	Ø 50 - 63 mm	Ø 40 - 110 mm	-
Working range metal:	Ø 12 - 35 mm	-	Ø 12 - 54 mm	Ø 42 - 54 mm	Ø 42 - 54 mm	Ø 42 - 54 mm

No system commitment

Users are free to decide which fitting systems they want to press. They are also free to choose the manufacturer of the press machines and press tools. There is no legal provision, DIN standard or other provision - for example, a regulation established by means of a DVGW worksheet - which obligates the tradesmen to exclusively use the press tools or press jaws of just one fitting or piping system manufacturer.

The only decisive factor is whether the fitting system and pressing tool are suitable for one another - only in this case is the tightness guaranteed. The Pressnavigator app provides guidance by enabling users to find the suitable press tool for the fitting system, or the suitable fitting system for the press tool.

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 as leading system manufacturers require.

Electronic control

The electronics of the ROMAX Compact TT, ROMAX 4000 and ROMAX 3000 AC 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

RO







Product profile

APPLICATION AREA

The ROMAX Compact TT is 3 seconds fast, 2.5 kg light and 19 kN strong. Through the perfect handling, the machine is particularly suitable for domestic installations, high volume pressings or service installations.

COMPATIBLE PRESSING TOOLS

- Press jaws:
- ROTHENBERGER press jaws compact starting on page 111
- Interchangeable press jaws:
- ROTHENBERGER interchangeable press jaws starting on page 112

TECHNICAL DATA

Dimension:336 x 143 x 76 mm (w/ 2.0 Ah battery)Weight:Approx. 2.5 kg (without press jaw)

Piston force / hub: 19 kN / 30 mm

Nominal size: Ø 12 - 40 mm plastic / multi-layer

Ø 12 - 35 mm metal

Service interval: 40,000 pressings / 2 years

Press jaw fixture: 270° rotation

Power supply: RO BP 18 V / 2.0 Ah Li-lon battery

RO BP 18 V / 4.0 Ah Li-lon battery

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

Pressings: Approx. 130 press cycles with 2.0 Ah

battery tested with SV18 stainless steel

fittings



When unused or during preassembly, the machine stands stably on the workbench.



The ROMAX Compact TT hanging from a ladder by the shoulder strap.



Secondary effect of the two cylinder-structure: The machine can be used with one hand.



ROMAX Compact TT sets



Twin Turbo: What's behind it?

BALANCE

- The engine and the gear are located opposite the hydraulic system
- Perfectly balanced weight distribution

SIZE

- Installing components in two cylinders reduces the size of the machine
- The two-cylinder shape saves 15% of the length

POWER

- Every press cycle takes only 3 seconds
- The new pressure heart enables pressing of metal fittings up to Ø 35 mm









Twin Turbo for service installations



Basic set 1 EU (No. 1000002115) includes: ROMAX Compact TT press machine, 1x RO BP 18 V / 2.0 Ah Li-ion battery (No. 1000001652), RO BC battery charger EU (No. 1000001654), ROCASE case system 4414, without press jaws

Model	Press jaws Ø mm	$\sqrt[]{\log \Delta}$	No.
ROMAX Compact TT bare tool	without press jaws/battery/charger	4.2	1000002809
ROMAX Compact TT basic set 1, 1x 2.0 Ah, EU	without press jaws	4.9	1000002115
ROMAX Compact TT basic set 1, 1x 2.0 Ah, UK	without press jaws	4.9	1000002123
ROMAX Compact TT basic set 2, 2x 2.0 Ah, EU	without press jaws	5.3	1000002116
ROMAX Compact TT press jaw set SV, 1x 2.0 Ah, EU	15 - 22 - 28	8.6	1000002117
ROMAX Compact TT press jaw set M, 1x 2.0 Ah, EU	15 - 22 - 28	8.6	1000002118
ROMAX Compact TT press jaw set M, 1x 2.0 Ah, UK	15 - 22 - 28	8.6	1000002124
ROMAX Compact TT press jaw set TH, 1x 2.0 Ah, EU	16 - 20 - 26	8.8	1000002120
ROMAX Compact TT press jaw set U, 1x 2.0 Ah, EU	16 - 20 - 25	8.6	1000002119
ROMAX Compact TT interchangeable press jaw set TH, 1x 2.0 Al	n, EU 16 - 20 - 26 - 32	6.9	1000002113
ROMAX Compact TT interchangeable press jaw set U, 1x 2.0 Ah	, EU 16 - 20 - 25 - 32	6.9	1000002112
ROMAX Compact TT interchangeable press jaw set RFz, 1x 2.0 A	h, EU 16 - 20 - 25 - 32	6.9	1000002111
ROMAX Compact TT interchangeable press jaw set CO, 1x 2.0 A	h, EU 12 - 16 - 20 - 25	6.9	1000002114

ACCESSORIES

Model	No.
RO BP 18V / 2.0 Ah Li-lon battery	1000001652
RO BP 18V / 4.0 Ah Li-Ion battery	1000001653
RO BP 18V / 4.0 Ah Li-HD battery	1000002548
RO BP 18V / 8.0 Ah Li-HD battery	1000002549
RO BC 14/36, battery charger, EU	1000001654
RO BC 14/36, battery charger, UK	1000001691
ROCASE 4414 for press jaws	1000002242
ROCASE 4414 for interchangeable inserts	1000002307
Press jaws & interchangeable press jaws starti	ng on 📔 112









Conex Bänninger ›B‹ MaxiPro press system

Join the press revolution!

An innovative press system suitable for air-conditioning and refrigeration applications consisting of Conex Bänninger >B< MaxiPro fittings, suitable press jaws and press machines from ROTHENBERGER.





Product profile

TIGHT CONNECTIONS UP TO 48 BAR

- The O-ring is resistant against several oils including ester oil.*
- The 3-point press, one on each side of the bead and one press compressing the O-ring, provides a permanent and secure joint.

THE ADVANTAGES

- Only 3 seconds per joint completion
- Saves approx. 3 minutes per connection
- Flame-free joint, no hot work permit needed
- No need for nitrogen purge

MADE-TO-LAST THROUGH LASER HARDENING

The press jaws are partially laser-hardened. This makes them particularly durable in those places that take the most pressure. Laser hardening increases the jaws' durability considerably.



Press jaw for ROMAX Compact TT No. 1000001751



Press jaw for **ROMAX 4000** No. 1000001891



Standard press ring set No. 1000003532





TECHNICAL DATA

Application: Air-conditioning and refrigeration

Connections: Copper to copper

1/4", 3/8", 1/2", 5/8", 3/4", 7/8", Fitting/tube range:

1", 1.1/8"

O-ring: **HNBR**

Max. operating pressure: 48bar/4,800kPa/700psig Helium ≤ $7.5 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ at Leak tightness:

+20°C, 10 bar

Vacuum: 200 microns Operating temperature: -40°C up to 140°C

UL listing continues

operating temperature:

Compatible refrigerants: R32, R134a, R404A, R407C, R407F,

> R410A, R507, R1234ze, R1234yf, R718, R450A, R513A, R448A, R449A, R407A, R427A, R438A,

R417A and R422D

Approved tube: For full information, please visit

conexbanninger.com

For full information, please visit Approvals, standards

and test compliance: conexbanninger.com

3-POINT PRESS TECHNOLOGY

Three press points: one on each side of the bead and one compressing the O-ring for a permanent and secure joint



Set (No. 1000002121) includes: ROMAX Compact TT press machine, 1x RO BP 18 V/2.0Ah battery (No. 1000001652), RO BC battery charger EU (No. 1000001654), 8x press jaws (No. see below), TC 35 (No. 70027), internal/external deburrer (No. 1500000237), UNIGRAT pencil deburrer (No. 21660), ROVLIES cleaning pads (No. 45268), depth gauge (No. 1000002400), 2x ROCASE 4414 case system

Model	Press jaws Ø inch	$\sqrt[]{\log \Delta}$	No.
ROMAX Compact TT + press jaw compact set 1/4"–1.1/8" + hand tools, EU	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	21.2	1000002121
ROMAX Compact TT + press jaw compact set 1/4"–1.1/8" + hand tools, UK	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	21.2	1000002125
Press jaw compact set 1/4"–1.1/8" + hand tools	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	14.0	1000001989
ROMAX 4000 + press jaw standard set 1/4"-1.1/8" + hand tools, EU	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	24.3	1000002945
ROMAX 4000 + press jaw standard set 1/4"-1.1/8" + hand tools, UK	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	24.3	1000002946
Press jaw standard set 1/4"–1.1/8" + hand tools	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	18.1	1000002207
Standard press ring set	1/4 - 1.1/8"	6.3	1000003532
Compact press ring set	1/4 - 1.1/8"	5.3	1000003536
Standard press ring set	1/4 - 5/8"	4.8	1000003625
Compact Press ring set	1/4 - 5/8"	5.3	1000003624

Conex Bänninger ›B‹ MaxiPro press system

How to install the Conex Bänninger >B(MaxiPro system?

Conex Bänninger >B< MaxiPro benefits from a 3-point radial press – three press points, one on each side of the bead and one press compressing the O-ring. This provides a permanent and secure joint. As the connection is a mechanical joint, there is no need for nitrogen purge during the joining process.

1. Cut the tube to length.



4. Clean the tube end with a circular movement, avoiding grooves that run parallel to the tube.



7. Mark insertion depth using depth gauge and insert tube fully into the fitting.



2. Deburr and remove all external sharp edges.



5. Check for defects



8. Align jaws squarely on the fitting and complete the joint.



3. Use a pencil deburrer on internal edges.



6. Ensure the O-ring is seated



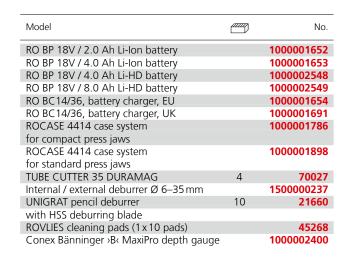
9. Mark the completed joint.



Please note: To ensure a safe and tight connection please follow the detailed Conex Bänninger >B< MaxiPro installation process. For more information, please visit the Conex Bänninger website: conexbanninger.com

The >B< MaxiPro® system is an innovative press system by Conex Bänninger®. >B< MaxiPro® and Conex Bänninger® are registered trademarks of Conex IPR Limited.

ACCESSORIES

















Product profile

APPLICATION AREA

The ROMAX 4000 operates in just 5 seconds, weighs only 3.6 kg and uses a force of 32 kN. It can press from 12 mm to 110 mm depending on the system and is therefore the perfect all-rounder amongst the ROTHENBERGER press machines.

COMPATIBLE PRESSING TOOLS

Press jaws:

ROTHENBERGER press jaws standard starting on page 112 and 3-elemental standard press jaws starting on page 113

ROTHENBERGER press chains standard starting on page 114

TECHNICAL DATA

Dimensions: 467 x 125 x 80 mm (w/ 4.0 Ah battery)

445 x 125 x 75 mm (w/ 2.0 Ah battery)

Weight: Approx. 3.6 kg (without press jaw)

Piston force / hub: 32 - 34 kN / 40 mm Nominal size: Ø 12 - 110 mm

Service interval: 40,000 pressings / 2 years

Press jaw fixture: 270° rotation

Power supply: RO BP 18 V / 2.0 Ah Li-ion battery

RO BP 18 V / 4.0 Ah Li-ion battery

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

Pressings: Up to 240 times (with 4.0 Ah battery) (with SV 18 copper) Up to 105 times (with 2.0 Ah battery)

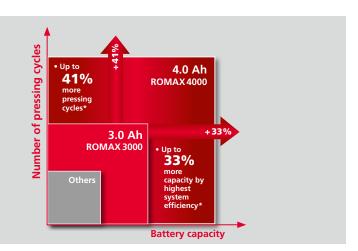
Fast and powerful pressings Pressed in 5 seconds with 32 - 34 kN Liahtweiaht The machine weighs only 3.6 kg ROTHENBERGER Automatic controlled press cycles Piston retracts after reaching Rod-shape the necessary pressing force Perfectly balanced weight distribution enables users to 270° rotatable press jaw fixture work comfortably Up to 41% more For easy operation even in Constant Force Technology (CFT) pressing cycles* confined spaces

For constant axial pressing force

Enter a new dimension of efficiency!

- Powerful 18 V / 4.0 Ah battery pack
- Up to 41% more pressing cycles*
- Up to 33% more capacity due to enhanced system efficiency*
- All this without a cord-maximum efficiency and on-site freedom for you!

* Tested with SV 18 copper fittings / in comparison with ROMAX 3000





ROMAX 4000 sets



Ergonomic working with the ROMAX 4000



Productive working due to expanded



Cordless Alliance System: One battery system for more than 140 tools



Basic set 1 EU (No. 1000001840) includes: ROMAX 4000 Press machine, 1x RO BP 18 V / 4.0 Ah battery (No. 1000001653), RO BC battery charger EU (No. 1000001654), ROCASE case system 6414, without press jaws

Model	Press jaws Ø mm	$\sqrt[]{\log \Delta}$	No.
ROMAX 4000 bare tool	without press jaws/battery/charger	5.9	1000002683
ROMAX 4000 basic set 1, 1x 4.0 Ah, EU	without press jaws	7.0	1000001840
ROMAX 4000 basic set 1, 1x 4.0 Ah, UK	without press jaws	7.0	1000001856
ROMAX 4000 basic set 2, 1x 4.0 Ah, 1x 2.0 Ah, EU	without press jaws	8.0	1000001923
ROMAX 4000 press jaw set SV, 1x 4.0 Ah, EU	15 - 22 - 28	15.0	1000001924
ROMAX 4000 press jaw set M, 1x 4.0 Ah, EU	15 - 22 - 28	15.0	1000001927
ROMAX 4000 press jaw set M, 1x 4.0 Ah, UK	15 - 22 - 28	15.0	1000001932
ROMAX 4000 press jaw set TH, 1x 4.0 Ah, EU	16 - 20 - 26	15.0	1000001925
ROMAX 4000 press jaw set U, 1x 4.0 Ah, EU	16 - 20 - 25	15.0	1000001926

Model	No.
RO BP 18V / 2.0 Ah Li-lon battery	1000001652
RO BP 18V / 4.0 Ah Li-lon battery	1000001653
RO BP 18V / 4.0 Ah Li-HD battery	1000002548
RO BP 18V / 8.0 Ah Li-HD battery	1000002549
RO BC14/36, battery charger, EU	1000001654
RO BC14/36, battery charger, UK	1000001691
ROCASE 6414, empty	1000001879
Press jaws & press chains starting on 116	









Pressing

Press machines standard

ROMAX 3000 AC

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





Product profile

APPLICATION AREA

The ROMAX 3000 AC is fast, light, easy to handle and safe. It is therefore ideally suited for the batch production of fitting joints in field operation.

- Batch production possible due to mains operation (5 m cable length)
- A pressing cycle only lasts approx. 5 seconds
- Constant Force Technology (CFT) guarantees the necessary pressing force
- Extremely low weight as well as a balanced weight distribution
- ▶ Highest quality, service interval of 20,000 pressing cycles
- Expanded operating temperature from -15 °C up to 60 °C
- The compact, wand-like design allows pressings even in confined spaces

TECHNICAL DATA

Dimensions: 460 x 120 x 90 mm

Weight: approx. 3.8 kg (without press jaw)

Piston force / hub: 32 kN / 40 mm Nominal size: Ø 12 - 110 mm²⁾

Service interval: 20,000 pressings / 2 years

Press jaw fixture: 270° rotation Power supply: 230 V / 50-60 Hz 110 V on request Operating temperature: -15 °C up to 60 °C

COMPATIBLE PRESSING TOOLS

ROTHENBERGER standard press jaws, Press jaws:

compatible with many other manufacturers starting page 112

Press chains: **ROTHENBERGER** standard press chains starting on page 114



No unintentional opening because a 180° rotation is necessary

Balanced weight distribution

Ergonomic use ROTHENBERGER 5 m cable length

Set (No. 1000001001) includes: ROMAX 3000 AC, 230 Volt, ROCASE 6414, without press jaws

Large operations radius

Model No.

ROMAX 3000 AC basic set 1000001001



270° rotatable jaw fixture For easy use in confined spaces





Compatible jaw fixture

Suitable for many press jaws

ACCESSORIES









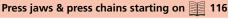
Model

No.

ROCASE 6414 with inlay ROMAX 3000 AC



1000001877





Press machines standard

ROMAX AC ECO

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





Product Profile

APPLICATION AREA

The ROMAX AC ECO is fast, light, easy to handle and safe. It is therefore ideally suited 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
- Constant Force Technology (CFT) guarantees the necessary pressing force
- Safety lock guarantees no unintentional opening because a 180° rotation is necessary
- Emergency stop switch for immediate interruption of the feed
- 5 m cable for a large operations radius

TECHNICAL DATA

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

Weight: approx. 4.5 kg (without press jaw)

Piston force / hub: 32 kN / 40 mm Nominal size: Ø 12 - 110 mm²⁾ Service interval: 10,000 pressings / 2 years

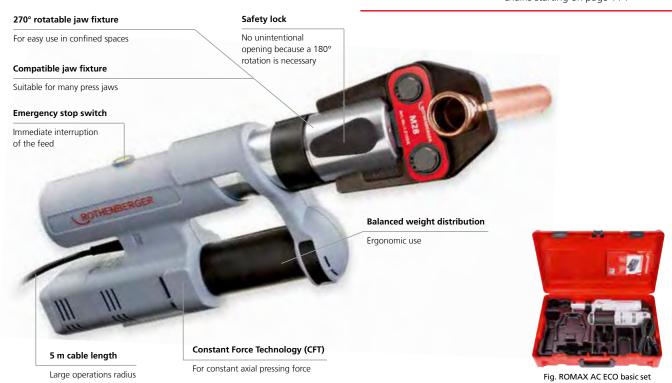
Press jaw fixture: 270° rotation Power supply: 230 V / 50-60 Hz 110 V on request

COMPATIBLE PRESSING TOOLS

ROTHENBERGER standard press jaws, Press jaws:

compatible with many other manufacturers starting on page 112

Press chains: ROTHENBERGER standard press chains starting on page 114



Set (No. 15705) includes: ROMAX AC ECO (230 Volt) ROCASE 6414 (No. 1000001959), without press jaws

Model	Description	Press jaws Ø mm	$\Delta_{ m kg}\Delta$	No.
ROMAX AC ECO basic set	in ROCASE 6414	without press jaws	8.9	15705
ROMAX AC ECO press jaw set SV	Basic set with press jaws type SV (Viega et al.)	15 - 22 - 28	13.4	15740
ROMAX AC ECO press jaw set M	Basic set with press jaws type M (Mapress et al.)	15 - 22 - 28	13.4	15750
ROMAX AC ECO press jaw set TH	Basic set with press jaws type TH (Henco et al.)	16 - 20 - 26	13.4	15730
ROMAX AC ECO press jaw set U	Basic set with press jaws type U (UNICOR et al.)	16 - 20 - 25	13.4	15760

Press jaws & press chains starting on 116	
ROCASE 6414 with inlay ROMAX AC ECO	1000001959
Model	No.











¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries

²⁾ system dependent

The unique laser-hardening process

Long-lasting. Safe. Precise. Our DURA LAZR TEC press jaws set is a new industry standard. The unique ROTHENBERGER laser-hardening process, which is implemented in our own production, provides maximum stability and wear resistance. And, therefore, more safety and a longer service life!

Depth distribution of hardness was tested by the independent test laboratory of the State Materials Testing Institute Darmstadt (MPA).



Partial laser-hardening for highly stressed surfaces Highest degree of hardness Ideal accuracy of contour for ROTHENBERGER press jaws are highest precission during the performing with the highest degree complete live time of hardness at high stressed areas 40% increase in hardness* Even in the case of high burn formation during compression, the wear is reduced to a minimum 100% extended lifetime of the press jaws among other things due to laser hardening* Adjustment of the plate Parts which have to be flexible Durability increased by approx. 45%*

DURA LAZR TEC LASER HARDENING

ROTHENBERGER press jaws before surface treatment

+ 40 %
HARDNESS
AT HIGHLY STRESSED
AREAS*

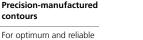
+100%
PRESS CYCLES
WITH LASER
HARDENING*

stay ductile

Press jaws compact

For ROMAX Compact TT

ROTHENBERGER press jaws with proven material and manufacturing quality for system dependent pressing of fittings up to Ø 40 mm



pressings



Made of forged, highly resilient special steel

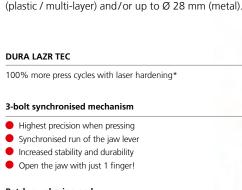
Suitable for all press machines with a constant axial thrust of 19-21 kN and compatible press iaw fixture

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



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





For ROMAX Compact TT

ROTHENBERGER compact press jaws SV35 and M35 with optimized material and manufacturing quality, suitable for system conforming pressing of metal fittings of Ø 35 mm with the ROMAX Compact TT pressing machine.



100% more press cycles with laser hardening*

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!

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



Precision-manufactured contours

Optimised inlet contour Adapted power flow Less wear and tear

For optimum and reliable pressings



Made of forged, highly resilient special steel

Suitable for all press machines with a constant axial thrust of 19-21 kN and compatible press iaw fixture

Permanent bolt

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

Long-term corrosion protection

Optimum for heavy-duty field operation

Optimised inlet contour

Adapted power flow Less wear and tear

Model	$\sqrt[]{kg}$	No.
Press jaw compact, SV35	2.2	1000002266
Press jaw compact, M35	2.2	1000002267

ACCESSORIES

Nο Model ROCASE 4212 with inlay compact press jaws 1000002655 Press jaw overview starting on 117









Combine various interchangeable inserts with only one press jaw!

ROTHENBERGER

Interchangeable inserts set

3-bolt synchronised mechanism

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

Batch numbering and individual testing

Secures the high-quality standard of material and press contour



Guiding ridge

Safe admittance from interchangeable press jaws

Made of forged, highly resilient special steel

Suitable for all press machines with a constant axial thrust of 19-21 kN and compatible press iaw fixture

Long-term corrosion protection

Optimum for heavy-duty field operation

Model	Inserts Ø mm	No.	Model	Inserts Ø mm	No.
Interchangeable inserts compact set, RFz ¹	16, 20, 25, 32	14849	Interchangeable press jaw compact	w/o inserts	1000002134
Interchangeable inserts compact set, U1)	16, 20, 25, 32	14869	Interchangeable press jaw + set, RFz	12, 16, 20	1000002135
Interchangeable inserts compact set, TH ¹⁾	16, 20, 26, 32	14895	Interchangeable press jaw + set, CO	12, 16, 20	1000002136

¹⁾ Can only be used with interchangeable press jaw No. 1000002134 (sucessor of No. 014880X)!

Press jaws standard

For ROMAX 4000, ROMAX 3000 AC and **ROMAX AC ECO**

ROTHENBERGER press jaws with proven material and manufacturing quality, for system conforming pressing of fittings up to Ø 40 mm (plastic / multi-layer) and/or up to Ø 54 mm (metal).

DURA LAZR TEC

100% more press cycles with laser hardening*

3-bolt synchronised mechanism

- Highest precision when pressing
- Synchronised run of the jaw lever
- Increased stability and durability
- Open the jaw with just one 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 117

Precision-manufactured contours

For optimum and reliable pressings



Optimised inlet contour Adapted power flow

Less wear and tear

Made of forged, highly resilient special steel

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

Permanent bolt

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

Long-term corrosion protection

Optimum for heavy-duty field





Press jaws standard 3-elemental

For ROMAX 4000, ROMAX 3000 AC and ROMAX AC ECO

ROTHENBERGER 3-elemental press jaws with proven material and manufacturing quality, for system dependent pressing of M42/M54 fittings and TH50/

TH63 fittings.

DURA LAZR TEC

100% more press cycles with laser hardening*

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!

3-elemental system

- Easy handling / assembling
- Optimized power distribution



Made of forged, highly resilient special steel

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

Precision-manufactured contours

For optimum and reliable pressings

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



Model	$\sqrt[]{\log \Delta}$	No.	Model	$\sqrt{\log \Delta}$	No.
Press jaws standard 3-elemental, M42	4.8	1000001273	Press jaws standard 3-elemental, TH50	4.8	1000001810
Press jaws standard 3-elemental, M54	4.8	1000001274	Press jaws standard 3-elemental, TH63	4.8	1000001811

Press jaws standard sets

ROTHENBERGER press jaws up to Ø 54 mm in the stable ROCASE case system



ROCASE case system

Stack, click, transport

Effective

Enough space for up to 7 press jaws in the ROCASE 4414 up to Ø 63 mm

Effective

Enough space for up to 4 press jaws in the ROCASE 4212 up to Ø 32 mm

Variable

Enough space for all standard and compact press jaws in the ROCASE 4414 up to Ø 63 mm



Model	odel Press jaws Ø mm								
Press jaw standard set, SV	15 - 22 - 28	6.8	1000002068						
Press jaw standard set, SV	15 - 18 - 22 - 28	8.7	015060X						
Press jaw standard set, SV	42 - 54	10.5	015080X						
Press jaw standard set, M	15 - 22 - 28	6.7	1000002067						
Press jaw standard set, M	15 - 18 - 22 - 28	8.6	015062X						
Press jaw standard set 3-elen	nental, M 42 - 54	12.0	1000001502						
Press jaw standard set, TH	16 - 20 - 26	8.7	015063X						
Press jaw standard set, U	16 - 20 - 25	7.3	1000002069						
Press jaw standard set, G	16 - 20 - 26 - 32	8.8	015068X						
Press jaw standard set, BE	16 - 20 - 26	8.7	1000002065						
ROCASE 4414 with inlay up	to 7 press jaws	1.5	1000001807						
ROCASE 4212 with inlay up	to 4 press jaws	1.6	1000001808						

ROCASE starting on 335

Press chains standard

For ROMAX 4000, ROMAX 3000 AC and **ROMAX AC ECO**

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 Ø 42 mm up to Ø 54 mm (metal) and/or from Ø 40 mm up to Ø 110 mm (multi-layer).



Precision-manufactured contours

For optimum and reliable pressings

Clamping technology

Self-clamping press chain

3 segments

- For an optimum force distribution on the fitting
- Two flexible elements for an optimal material flow on the fitting

Low weight

periods of work

a constant, axial force of 32 - 34 kN

Comfortable operation even over long

Made of forged, highly resilient special steel

Suitable for all press machines with 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



Batch numbering and individual testing

DURA LAZR TEC

hardening*

100% more press cycles with laser

Secures the high-quality standard of material and press contour



Long-term corrosion protection

Optimum for heavy-duty field operation



Fig. press chain SV54

Opening of the press chain up to 180° allows assembling even in confined spaces



Closing the press chain



Gripping the press chain with intermediate jaws



Press chain sets include: Press chains according to the table, intermediate jaw ZBS1 (No.1000001126), ROCASE case system 4212 (No.1000001960)

Model	Press chains Ø mm	$\Delta_{kg}\Delta$	No.
Press chain set, SV with intermediate jaw ZBS1	42-54	7.3	1000001501
Press chain set, M with intermediate jaw ZBS1	42-54	7.3	1000001500
Intermediate press jaw ZBS1	For press chains SV, M and U up to Ø 54 mm	2.1	1000001126
Press chain standard, M	42 for ZBS1	1.3	1000001391
Press chain standard, M	54 for ZBS1	1.5	1000001392
Press chain standard, SV	42 for ZBS1	1.3	1000001393
Press chain standard, SV	54 for ZBS1	1.5	1000001394

Overview press jaws

M	System	A1/2" A3/4" A1" A11/4" A11/2"	Press jaws compact	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 1000002134) Metal / NE-Meta	Press jaws standard 015222X 015223X 015224X 015225X 015226X	Press chains standard Only to be used with intermediate jaw ZBS1 (No. 1000001126) for SV, M, Ø 42–54 mm
V/SV14		A2" M12 M15 M18 M22 M28 M35 M42 M54	015152X 015153X 015154X 015155X 1000002267 —	- - - - - - - -	015227X 015101X 015102X 015103X 015104X 015105X 015106X 1000001273	 1000001391 1000001392
R12		V/SV14 V/SV15 V/SV16 V/SV18 V/SV22 V/SV28 V/SV35 V/SV42	015269X 015262X 015260X 015263X 015264X 015265X 1000002266	- - - - - -	015219X 015212X 015220X 015213X 015214X 015215X 015216X 015217X	— — — — — — — — 1000001393
RFz16		R14 R16 R17 R18 R20 R25 R26 R32	015371X 015378X 015379X 015374X 015380X 015376X	14863 — 14865 — — — 14868 — — 14708	015339X 015330X 015331X 015333X 015334X 015335X 015338X 015336X 015337X	_
TH20 015389X 14845 015324X — TH25 015399X 14846 015325X — TH26 015391X 14847 015326X — TH32 015393X 14848 015327X —		RFz16 RFz18 RFz20 RFz25 RFz26 RFz32 TH14 TH16	015181X 015182X 015183X 015395X 015385X	14823 1000000124 14824 14825 1000000125 14826 14708 14843	015161X — 015162X 015163X — 015164X 015321X 015322X	- - - - - - -
TH50 — — 1000001810 — TH63 — — 1000001811 — THG THG32 1000000236 — 1000000235 —	43	TH20 TH25 TH26 TH32 TH40 TH50 TH63	015389X 015399X 015391X 015393X 015401X —	14845 14846 14847 14848 — — —	015324X 015325X 015326X 015327X 015328X 1000001810 1000001811	- - - - - -

For more information visit rothenberger.com

Overview press jaws / Pressnavigator app

System	Nominal size	Press jaws compact	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 1000002134)	Press jaws standard	Press chains standard Only to be used with intermediate jaw ZB51 (No. 1000001126) for SV, M, TH Ø 40, 42, 50, 63 mm
U			PEX / Multi-laye	er	
	U14	015351X	14832	015311X	_
	U16	015352X	14833	015312X	_
	U18	015353X	14834	015312X	_
	U20	015354X	14835	015315X 015314X	_
	U25	015355X	14836	015315X	_
	U32	015357X	14838	015315X 015317X	_
	U40	015357X 015358X	1 4 036	015317X 015318X	_
	U50	013338X	_	0133167	_
	U63		_		_
	U75	_	_	<u> </u>	_
	U90	<u>-</u>	_		_
	U110	_	_	<u>–</u>	_
RC	RC26	015277X	14837	015271X	_
VP	VP14	015530X	14882	015271X 015230X	
VP	VP16	015531X	14883	015231X	_
	VP20	015531X 015532X	14884	015231X 015232X	_
	VP25	015532X 015533X	14885		_
	VP32	015534X	14886	015233X 015234X	_
DE			14886		_
BE	BE16	015291X	_	015392X	_
	BE20	015292X	_	015394X	_
	BE26	015293X	_	015396X	_
	BE32	015294X		015397X	_
со	CO12		14852	-	_
	CO16	_	14853	_	_
	CO20	_	14854	_	_
	CO25		14855		_
G	G16	015362X	_	015302X	_
	G20	015364X	_	015304X	_
	G26	015366X	_	015306X	_
	G32	015367X	_	015307X	_
	G40	015368X	_	015308X	_
HA	HA16	015580X	_	015280X	_
	HA20	015581X	_	015281X	_
	HA26	015582X	_	015282X	_
	HA32	015583X	_	015283X	_
	HA40		_	015284X	_

For more information visit rothenberger.com

Pressnavigator app

Pressnavigator for easy verification of the compatibility of press tool and fitting system

Which press tool is suitable for which fitting system? The ROTHENBERGER Pressnavigator offers convenient assistance: with just a few clicks, the compatibility between our press tools and the established fitting system can be checked. The app is available in German or English.















	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Compact Se only in combination with interchangeable jaws (No. 1000002134)	Anpro EN series stainless steel, carbon steel	APE Raccordi a pressare	Bampi BALPEX (Serie MP)	Bampi BALPEX Gas	Blansol Sistema Easypress	Blansol Sistema Multipex	Bonomi Group Turbo Press, Turbo Press Gas	Broen Ballofix Pres	Chibro Adduzione / Gas, Como Galvinized	Chibro Cunipress, Riscaldamento	CIMBERIO SpA Cimpress	CO.E.S. Coesklima	COMAP, Skin Press	Comisa Multi layer pipe	Conex Bänninger	Conex Bänninger	DALPEX LaserMulti Dalpex	Emmeti Gerpex	EMPUR PEXPRESS	Eurotherm, MULTIST- RATO, Euro 2000
M	M12 M15	015151X 015152X	015101X 015102X												•									
	M18	015153X	015103X									•	•	•	•									
	M22 M28	015154X 015155X	015104X 015105X									•	•		•									
	M35	1000002267	015105X									•	•		•									
	SV12 SV12		1000001273 1000001274																					
V/SV	V12	015261X	015211X																					
	SV14	015269X	015219X																	•				
	SV15 SV16	015262X 015260X	015212X 015220X																					
	SV18	015263X	015213X		•										•				•	•				
	SV22 SV28	015264X 015265X	015214X 015215X												•					•				
	SV35	1000002266	015216X		•										•				•	•				
	SV42 SV54		015217X 015218X																					
G	G16	015362X	015216X 015302X																					
	G20	015364X	015304X																					
	G26 G32	015366X 015367X	015306X 015307X																					
	G40	015368X	015308X																					
НА	HA16 HA20	015580X 015581X	015280X 015281X																					
	HA26	015582X	015282X																					
	HA32 HA40	015583X	015283X 015284X																					
R (H)	R12		015339X	14863																				
	R14 R16	015370X 015371X	015330X 015331X	14865																				
	R17	015371X	015331X	14005																				
	R18 R20	015379X 015374X	015334X 015335X	14868																				
	R25	015374X 015380X	015333X 015338X	14000																				
	R26	015376X	015336X	14708																				
RFz	R32 RFz12	015377X	1000000173	14822					•															
	RFz16	015180X	015161X	14823					•															
		015181X 015182X	015162X 015163X	14824 14825																				
	RFz32	015183X	015164X	14826					•															
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843		•	•	•		•	•						•	•			•		•	
	TH18	015398X	015323X	14844		•	•	•		•	•							•			•			
al I	TH20 TH25	015389X 015399X	015324X 015325X	14845 14846		•	•	•		•	•							•			•	•	•	•
	TH26	015393X	015325X	14847		•	•	•		•	•						•	•			•	•	•	•
	TH32	015393X	015327X	14848														•						
THG	TH40 THG32	015401X 1000000236	015328X 1000000235								•							•						
THT		015393H	015329X	4.4000																				
U	U14 U16	015351X 015352X	015311X 015312X	14832 14833												•								
	U18	015353X	015313X	14834												•								
	U20 U25	015354X 015355X	015314X 015315X	14835 14836												•								
	U32	015357X	015317X	14838												•								
RC	U40 RC26	015358X 015277X	015318X 015271X	14837																				
VP	VP14	015530X	015271X	14882																				
	VP16	015531X	015231X	14883																				
	VP20 VP25	015532X 015533X	015232X 015233X	14884 14885																				
	VP32	015534X	015234X	14886																				



Overview system approvals

	al size	Press jaws compact	Press jaws standard	Interchangeable insert Compact Use only in combination with interchangeable jaws (No. 1000002134)	Eurotubi Pressfitting System	F.B.Q. BARONIO,BQ pres	Frabo Frabopress C Steel, 316	Frabo MULTI-BRASS	FRÄNKISCHE, ALPEX F50	Gabo, Gabopress H+5		Geberit Mapress Gas	Geberit Mapress Stainless	Geberit Mapress Copper Carbon steel	Geberit Mepla	Giacomini Giacoflex, Goaco Therm	HAKA, Fimisol, HAKAP- RES, HAKA, GERODUR	Harden 2000, Polypex 2000	PVDF	pefix	HIDROTEC KLIMATEC	Hitec Sistema, Multis- trato	IBP >B< Press Rotguss, Inox
8-8	Nominal size	Press ja	Press ja	Interch compar Use only with inte (No. 1000	Eurotu System	F.B.Q. F	Frabo F Steel, 3	Frabo N	FRÄNK	Gabo, G	GAROS	Geberi	Geberi Stainle	Geberi Carbon	Geberi	Giacom Goaco ⁷	HAKA, RES, H/	Harden 2000	Henco PVDF	Herz pipefix	HIDRO.	Hitec S trato	IBP ›B‹ Inox
M	M12 M15	015151X 015152X	015101X 015102X		•							•	•	•									
	M18	015153X	015103X									•	•	•									
	M22 M28	015154X 015155X	015104X 015105X											•									
	M35	1000002267	015106X		•							•	•	•									
	M42 M54		1000001273 1000001274											•									
V/SV	V12	015261X	015211X				•																
	SV14 SV15	015269X 015262X	015219X 015212X																				
	SV16	015260X	015220X			•	•																
	SV18 SV22	015263X 015264X	015213X 015214X				•																
	SV28	015265X	015215X			•	•																•
	SV35	1000002266	015216X			•	•																•
	SV42 SV54		015217X 015218X																				
G	G16	015362X	015302X												•								
	G20 G26	015364X 015366X	015304X 015306X												•								
	G32	015367X	015307X												•								
НА	G40 HA16	015368X 015580X	015308X 015280X																				
101	HA20	015581X	015281X																				
	HA26 HA32	015582X 015583X	015282X 015283X																				
	HA40	013363X	015284X																				
R (H)	R12	0453707	015339X	14863																			
	R14 R16	015370X 015371X	015330X 015331X	14865					•														
	R17	015378X	015333X														•						
	R18 R20	015379X 015374X	015334X 015335X	14868													•						
	R25	015380X	015338X	11000																			
	R26 R32	015376X 015377X	015336X 015337X	14708													•						
RFz	RFz12	0133777	1000000173	14822																			
		015180X	015161X	14823																			
		015181X 015182X	015162X 015163X	14824 14825																			
TU		015183X	015164X	14826																			
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843					•	•	•					•		•		•		•	
	TH18	015398X	015323X	14844						•						•		•	•	•		•	
	TH20 TH25	015389X 015399X	015324X 015325X	14845 14846						•	•									•		•	
	TH26	015391X	015326X	14847				•	•	•	•					•		•	•			•	
		015393X 015401X	015327X 015328X	14848						•													
THG	THG32	1000000236	1000000235																				
THT U	THT32 U14	015393H 015351X	015329X 015311X	14832																			
	U16	015351X	015311X	14833				•	•												•		
	U18	015353X	015313X	14834																	•		
	U20 U25	015354X 015355X	015314X 015315X	14835 14836					•												•		
-	U32	015357X	015317X	14838				•	•												•		
RC	U40 RC26	015358X 015277X	015318X 015271X	14837				•															
VP	VP14	015530X	015230X	14882				_															
	VP16 VP20	015531X 015532X	015231X 015232X	14883 14884					•														
	VP25	015533X	015232X	14885					•														
	VP32	015534X	015234X	14886 he time this cata																			



Nussbaum, Optiflex Plus Interchangeable Insert Compact Use only in combination with interchangeable jaws (No. 1000002134) LAVAGRUND, LAVAPRESS **MEGARO HAKAPRESS** laraflex-presssystem **Multitubo Giacomini Nussbaum CupressG** Mark KG, polymark Nussbaum Cupress, Optipress Press jaws standard Jupiter, Heizsysteme Press jaws compact KOHLER, InoxPress Mair Heiztechnik, Gomafix IPA, IPANA-PRES KE KELIT KELOX Oventrop, Cofit Nupi MultiNupi IVAR MP / PMP MULTITHERM PRESSSYSTEM NEUTHERM, MEKUPRESS Nominal size M12 015151X M15 015152X 015102X • M18 015103X 015153X • 015154X 015104X M22 015155X M28 015105X M35 1000002267 015106X M42 1000001273 M54 1000001274 V12 015211X 015261X SV14 015269X 015219X SV15 015262X 015212X SV16 015260X 015220X SV18 015263X 015213X SV22 015264X 015214X • SV28 015265X 015215X SV35 1000002266 015216X SV42 015217X SV54 015218X G16 015362X 015302X 015364X G20 015304X G26 015366X 015306X G32 015307X 015367X G40 015308X 015368X HA16 **015580X** 015280X • HA20 **015581X** 015281X • HA26 **015582X** 015282X • HA32 **015583X** 015283X HA40 015284X R (H) R12 015339X 14863 R14 015370X 015330X • R16 015371X 015331X 14865 R17 015378X 015333X R18 015379X 015334X R20 015374X 015335X 14868 R25 015380X 015338X R26 015376X 015336X 14708 R32 015337X 015377X RFz12 1000000173 14822 RFz16 **015180X** 015161X 14823 RFz20 **015181X** 015162X 14824 RFz25 **015182X** 015163X 14825 RFz32 **015183X** 015164X 14826 14842 TH14 **015395X** 015321X TH16 **015385X** 015322X 14843 • 14844 TH18 015398X 015323X • 14845 • TH20 015389X 015324X TH25 **015399X** 015325X 14846 • 015391X 14847 TH26 015326X • • 14848 TH32 015393X 015327X TH40 015401X 015328X • THG32 1000000236 1000000235 THT32 015393H 015329X 015351X 015311X 14832 1116 015352X 015312X 14833 U18 015353X 015313X 14844 015354X U20 015314X 14835 U25 015355X 015315X 14836 U32 • 015357X 015317X 14838 U40 015358X 015318X RC26 **015277X 015271X** 14837 VP14 015530X 015230X 14882 VP16 015531X 015231X 14883 VP20 015232X 14884 VP25 015533X 14885 015233X VP32 015534X 015234X 14886



Overview system approvals

Nominal size	Simplex SiRoCon PPSU H Simplex SiRoCon PPSU	TH OFFICE OF THE STREAM OFFICE
M15		
M18		
M28		
M35 100002267 015106X		
M42 100001273 M54 100001274		
V/SV V12 015261X 015211X SV14 015269X 015219X SV15 015262X 015212X SV16 015260X 015220X SV18 015263X 015213X SV22 015264X 015214X		
SV14 015269X 015219X SV15 015262X 015212X SV16 015260X 015220X SV18 015263X 015213X SV22 015264X 015214X		
SV15 015262X 015212X SV16 015260X 015220X SV18 015263X 015213X SV22 015264X 015214X		
SV16 015260X 015220X SV18 015263X 015213X SV22 015264X 015214X		
SV22 015264X 015214X		
SV35 1000002266 015216X		
SV42 015217X • • • • •		
SV54 015218X • • • • •		
G G16 015362X 015302X G20 015364X 015304X		
G26 015366X 015306X		
G32 015367X 015307X		
G40 015368X 015308X		
HA HA16 015580X 015280X HA20 015581X 015281X		
HA26 015582X 015282X		
HA32 015583X 015283X		
HA40 015284X		
R (H) R12 015339X 14863 R14 015370X 015330X 14864 • • • • •		
R16 015371X 015331X 14865		
R17 015378X 015333X 14866 • • • •		
R18		
R25 015380X 015338X 14707		
R26 015376X 015336X 14708 •		
R32 015377X 015337X 14709 • • •	•	
RFz RFz12 1000000173 14822		
RFz20 015181X 015162X 14824		
RFz25 015182X 015163X 14825		
RFz32 015183X 015164X 14826		
TH 015395X 015321X 14842		
TH18 015398X 015323X 14844 • •		• • •
TH20 015389X 015324X 14845 • •	•	
TH25 015399X 015325X 14846 TH26 015391X 015326X 14847 • •		
TH32 015393X 015327X 14848 0 0 0 0 0 0 0 0 0		
TH40 015401X 015328X • • •		•
THG THG32 1000000236 1000000235		
THT THT32 015393H 015329X U U14 015351X 015311X 14832		
U16 015351X 015311X 14833		
U18		
U20 015354X 015314X 14835		
U25 015355X 015315X 14836 U32 015357X 015317X 14838		
U40 015358X 015318X •		
RC26 015277X 015271X 14837		
VP VP14 015530X 015230X 14882		
VP16		
VP25 015533X 015233X 14885		
VP32 015534X 015234X 14886		



Overview system approvals

	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Only in combination with inter- changeable jaws (No. 1000002134)	TIEMIME, SERIE PA / PG	Tradesa Serie 700	Ulrich VARIOFLEX HAKA-PRESS, IPONOR HNIPIDE HIMI-	CORE, Airpipe	UPONOR SPress Plus	Valsir PEXAL	Vescal, Metalplast	VIEGA PROFIPRESS G	Viega Profipress Sanpress, Sanpress INOX	Viega sanfix FOSTA, P, PLUS	Viessmann	VSH X-Press Carbon Stainless, Copper	VSH SudoPress Carbon Stainless, Copper	VSH Skin Press	VSH Skin Press PPSU, Skin Press Gas	Watts MTR Art press	Wavin Aquatecnic Tigris	Wavin FUTURE 1/2, TIGRIS Alupex / Blue	WEFA PLASTIC, WEFA PRESS	Winkler	WKS-Press
M	M12	015151X	015101X		•											•									
	M15 M18	015152X 015153X	015102X 015103X													•									
	M22	015154X	015104X		•											•									
	M28	015155X	015105X		•											•									
	M35 M42	1000002267	015106X 1000001273													•									
	M54		1000001273													•									
V/SV	V12	015261X	015211X										•				•								
	SV14	015269X	015219X									•	•												
	SV15 SV16	015262X 015260X	015212X 015220X																						
	SV18	015263X	015220X									•	•				•								
	SV22	015264X	015214X									•					•								
	SV28	015265X	015215X									•	•				•								
	SV35	1000002266	015216X									•	•				•								
	SV42 SV54		015217X 015218X																						
G	G16	015362X	015302X																						
	G20	015364X	015304X																						
	G26	015366X	015306X																						
	G32 G40	015367X 015368X	015307X 015308X																						
НА	HA16	015580X	015280X													•									
	HA20	015581X	015281X													•			•						
	HA26	015582X	015282X													•	•		•						
	HA32	015583X	015283X																						
R (H)	HA40 R12		015284X 015339X	14863																					
(,	R14	015370X	015330X	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						•													•		
	R32	015377X	015337X	14709			•			•															
RFz	RFz12	01E100V	1000000173																						
		015180X 015181X	015161X 015162X	14824																					
		015182X	015163X																						
		015183X	015164X																						
TH		015395X	015321X												•			•							
	TH16 TH18	015385X 015398X	015322X 015323X			•												•						•	
	TH20	015389X	015324X	14845		•									•			•	•	•				•	•
	TH25	015399X	015325X			•														_					
	TH26	015391X	015326X	14847		_									•			•		•				•	
	TH32 TH40	015393X 015401X	015327X 015328X	14048														•							
THG		1000000236																							
THT		015393H	015329X															•							
U	U14	015351X	015311X																						
	U16 U18	015352X 015353X	015312X 015313X																						
	U20	015353X	015313X 015314X	14835					•												•	•			
	U25	015355X	015315X					_	•		•										•	•			
	U32	015357X	015317X	14838				_	•												•	•			
RC	U40 RC26	015358X		1/1027				•	•	•	•														
VP	VP14	015277X 015530X	015271X 015230X																						
	VP16	015531X	015231X	14883										•											
	VP20	015532X	015232X	14884																					
	VP25	015533X	015233X	14885										•											
The above release tak	VP32	015534X	015234X																						







System overview

Threader manual

SUPER CUT sets 1/2 - 1.1/4"



SUPER CUT sets 3/8 - 1.1/4"



SUPER CUT sets 3/8 - 2"



SANI KIT 1/2 - 1"



Operation mode:	Handed / manual	Handed / manual	Handed / manual	Handed / manual
Working range:	1/2 - 1.1/4"	3/8 - 1.1/4"	3/8 - 2"	1/2 - 1"
Handle:	1 pc.	2 pcs.	3 pcs.	2 pcs.
Thread type:	BSPT - NPT	BSPT - NPT	BSPT - NPT	BSPT - NPT
Number of die heads:	4 pcs.	Up to 5 pcs.	Up to 7 pcs.	3 pcs.
Number of threading dies:	-	-	-	-
Power:	-	-	-	-
Weight:	5.1 kg	6.2 kg	11.4 kg	8.2 kg
Page	128 - 129	128 - 129	128 - 129	130 - 131

Threader electric

SUPERTRONIC 1250













Operation mode:	Handed / electric	Handed / electric	Handed / cordless
Working range:	1/2 - 1.1/4"	1/2 - 2"	1/2 - 2"
Thread type:	BSPT - NPT	BSPT - NPT	BSPT - NPT
Number of die heads:	4 pcs.	6 pcs.	6 pcs.
Number of threading dies:	-	-	-
Power:	800 W	1,010 W	18 V
Total weight:	12.8 kg	14.5 kg	16 kg
Page	132 - 133	134 - 135	136 - 137

System overview

Threader stationary ROPOWER 50 R SUPERTRONIC 2 SE SUPERTRONIC 3 SE SUPERTRONIC 4 SE Operation mode: Stationary Stationary Stationary Stationary 1/2 - 2" 1/2 - 2" 1/2 - 3" 1/2 - 4" Working range: BSPT, NPT, BSPP, BSW, BSPT, NPT, BSPP, BSPT, NPT, BSPP, Thread type: BSPT, NPT, BSPP, BSW, metric BSW, metric BSW, metric BSW, metric Number of die heads: 2 pcs. 2 pcs. 1 pc. 1 pc. Number of threading dies: 2 pcs. 2 pcs. 3 pcs. 3 pcs. Power: 1,150 W 1,150 W 1,700 W 1,750 W Weight: 88.5 kg 68.5 kg 100 kg 120 kg **Page** 140 - 141 142 - 143 142 - 143 142 - 143

Roll grooving machines									
	Hand roll groover 1-12"	ROGROOVER 1-6"	ROGROOVER 1-12"						
Operation mode:	Handed-manual / handed-electric	Handed-electric / stationary	Stationary						
Working range:	1 - 12"	1 - 6"	1 - 12"						
Drive unit:	SUPERTRONIC 1250 / 2000	SUPERTRONIC 2000 / 2 - 4SE	Motor						
Wall thickness:	Up to 10 mm	Up to 10 mm	Up tp 10 mm						
Pressure rollers included:	1 pc.	1 pc.	3 pcs.						
Power:	800 W / 1,010 W	1,010 W / max. 1,750 W	1,500 W						
Transportation frame:	-	-/-	optional						
Weight:	12.0 kg / max. 18.2 kg	14.5 kg / max. 134.5 kg	175.0 kg						
Page	146	146	147						

Threading & grooving Threading manual

SUPER CUT

Ratchet threader Ø 1/4 - 2"

For production of precise and reliable thread connections according EN 10226 on threaded pipe according EN 10255 M / H

Product profile

APPLICATION AREA

For threading of **BSPT** right:

Ø 1/4 - 2"

KEY FEATURES

- Slim, compact design with excellent overall size, ratchet angle of 22.5°
- Easy operation in hard-to-reach places with the offset lever
- Convenient, lockable reversal of the ratchet direction
- Extremely long service life
- Simple insertion and removal of die heads
- Secure hold with retainer locking
- Perfect centering through the long pipe guide is ensured
- Optimised cutting geometry allows a gentle first cut and excellent chip discharge

Power optimisation with the offset hand lever!

Quick change die heads

Secure hold

Positive octagonal universal drive with retainer locking

Fits all ROTHENBERGER manual and power threaders

Simple insertion and removal of the die heads



SUPER CUT when working at the

Offset lever Easy operation in hard-to-reach places



Monoblock - adaptor (No. 600011500)



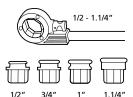
adaptor (No. 600011500)



1.1/2" Adaptor 1/4" 3/8" 1/2" 3/4" 1" 1.1/4"

SUPER CUT sets Ø 1/2 - 1.1/4"

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



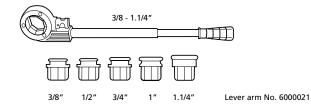
Lever arm No. 6240021

Model	Description	$\Delta_{kg}\Delta$	No.
BSPT R	1/2" - 3/4" - 1"	4.2	070780X
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 ROCASE 4414 (No. 1300003541)



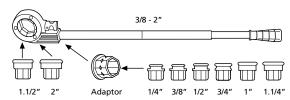
Model	Description	$\Delta_{kg}\Delta$	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	070790X





SUPER CUT sets Ø 3/8 - 2"

With ratchet handle (large octagonal drive, No. 71272), die head adaptor (No. 71273) and die heads in ROCASE 4414 (No. 1300003541)



Lever arm No. 6010121

Model	Description	$\Delta_{kg}\Delta$	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





Description	
Die heads 1/4 - 2"	138
Dies 1/4 - 2"	138
Cutting fluid	139
Pipe roughing wrench	145
Ratchet pipe deburrer 1/4 – 2"	145









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"

Assembly, screwing, loosening, sealing of thread connections:

Up to Ø 1.1/4"



KEY FEATURES

- Light and easy to use, always within reach
- Secure guiding of the cutter wheel on the pipe
- Reliable grip with the s-shaped jaw
- Firm grip even with heavy-duty use
- Long service life
- Precise thread cutting to approved standards
- Perfect alignment

Steel pipe cutter Super 1.1/4"

Wide rollers

Corner pipe wrench Super S

Slim, s-shaped jaw

Secure guiding of the cutter wheel on the pipe

Firm grip

Granting trades

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 and 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

Model	$\Delta_{kg}\Delta$	No.
SANI KIT tool set	8.2	70600



SUPER CUT ratchet arm

With offset adaptor



Direct seating for die heads	via adaptor for die heads	Handle	$\Delta_{kg}\Delta$	No.
1/4" - 1.1/4"	-	2 pcs.	1.7	070840X
1.1/2" - 2"	1/4" - 1.1/4"	3 pcs.	2.5	71272



Description	
Die heads 1/4 - 2"	138
Dies 1/4 - 2"	138
Cutting fluid	139
Pipe roughing wrench	145
Ratchet pipe deburrer 1/4 – 2"	145









SUPERTRONIC 1250

Power threader Ø 1/4 - 1.1/4"

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

Product profile

APPLICATION AREA

For threading of

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

KEY FEATURES

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











KEY FEATURES

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

TECHNICAL DATA

Threading speed: 15 - 20 rpm
Rapid reverse speed: 27 rpm
Performance: 800 W
Current: 230 / 110 V
Weight: 4.9 kg

Dimensions: 456 x 168 x 76 mm



Ideal for portable operation due to its compact design and weight of only 4.9 \mbox{kg}



Small head shape (11 cm)



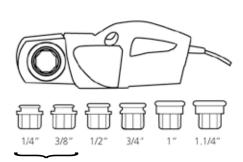
Pipe roughing



SUPERTRONIC 1250 set

Set includes: SUPERTRONIC 1250 up to Ø 1.1/4" with forged pipe clamp (No. 865008700), precision die heads complete in plastic carrying case (No. 995858100)





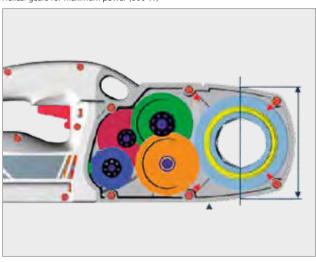
Small – Fast – Light



Fig. SUPERTRONIC 1250 set (No. 71450)

Model	Description	$\Delta_{ m kg}\Delta$	230 V	110 V
SUPERTRONIC 1250 set, NPT	1/2 - 3/4 - 1 - 1.1/4"	13.0	71454	71453
SUPERTRONIC 1250	with forged pipe clamp, without die heads	3.9	71470	
Pipe clamp for SUPERTRONIC 1250	Up to max. 1.1/4"	1.6	865008700	865008700

Helical gears for maximum power (800 W)



Portable, fast and easy steel pipe processing



Description	
Die heads 1/4 - 2"	138
Dies 1/4 - 2"	138
Cutting fluid	139
Pipe roughing wrench	145
Ratchet pipe deburrer 1/4 – 2"	145









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: Ø 1/4 - 2" Ø 1/4 - 2" NPT:

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 1,010 W motor, double insulated with VDE and CEE, interference free for reliable long-term use

Threading speed:

15 - 25 rpm, rapid reverse 60 rpm (4 x faster reverse with reverse drive)

Maintenance friendly with continuous lubrication



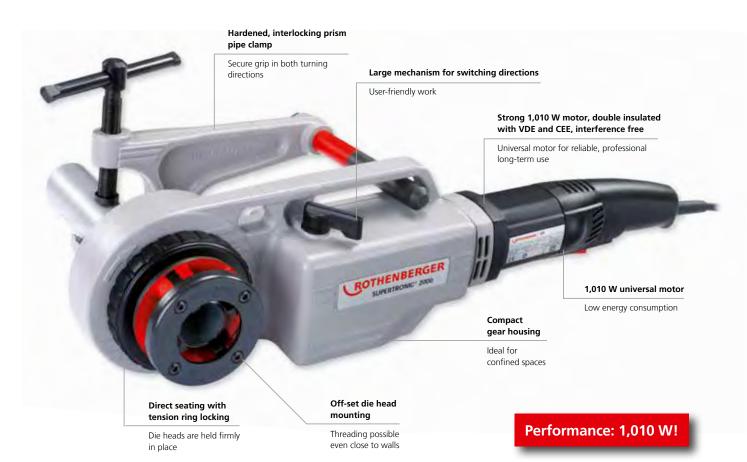






KEY FEATURES

- 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
- Ideal for confined spaces (corners and 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



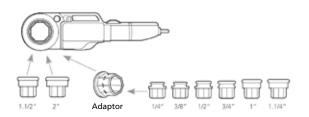
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SUPERTRONIC 2000 set

Set includes: SUPERTRONIC 2000 with pipe clamp (No. 71280), ROFIX adaptor (No. 71271), and precision die heads, ROCASE 6414 (No. 1000001953) with inlay

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







Model	Description	$\sqrt[]{\log \Delta}$	230 V	110 V
SUPERTRONIC 2000 set, BSPT R SUPERTRONIC 2000 set, NPT	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2" 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	14.5 14.5	71256 71257	71258 71259
SUPERTRONIC 2000	with forged pipe clamp, without die heads	6.8	71250	71251
SUPERTRONIC 2000 set	in ROCASE with ROFIX and forged pipe clamp	11.2	1000002011	1000002016

Work in confined spaces



Die heads with the tripod universal workbench



Description	
Die heads 1/4 - 2"	138
Dies 1/4 - 2"	138
Cutting fluid	139
Pipe roughing wrench	145
Ratchet pipe deburrer 1/4 – 2"	145









SUPERTRONIC 2000 E

Battery driven 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: Ø 1/4 - 2" Ø 1/4 - 2" NPT:

High reduction gears with spur wheel teeth,

induction tempered, 7 parallel gear shafts, each ball bearing mounted

Threading speed:

15 - 25 rpm, rapid reverse 60 rpm (4 x faster reverse with reverse drive)

Product dimension: 590 x 140 x 180 mm

Product weight: 6.6 kg







KEY FEATURES

- 4-times faster retraction due to reverse gear unit
- User-friendly operation thanks to large changeover switch for forward and reverse motion
- Firm seating of the cutting heads due to direct mounting with snap ring locking
- Thread cutting close to the wall due to off-center cutting heat cutting head mounting
- Ideal for hard-to-reach places (corners, shafts)
- Secure hold in both directions of rotation due to hardened, prism toothed counterholder
- Easy to maintain thanks to permanent lubrication and brushless motor

Toolless Speed-Lock Compact and rectangular construction die head mounting **Brushless motor** For a fast and fixed Optimized for places, that are For wear-free work and hard to reach, like corners connection longer machine life or shafts, and for working safely on a work bench ROTHENBERGER Powerful 18V battery For cutting up to 8 threads BSPT) with only one battery load (Li-Power 18V/4.0 Ah) Off-set die head Easy switching from forward mounting to an even faster reverse DuraEasyCut Threading possible Optimized geometry for reduced effort For working more efficiently

Easy insertion of the die head with tension locking ring

even close to walls



Compatible with with rolling groover ROGROOVER 1-6

of up to 20% for person and machine



Work in confined spaces



Threading & grooving

Threading electric

SUPERTRONIC 2000 E set

Set includes: SUPERTRONIC 2000 E basic device, pipe clamp (No. 71280), ROFIX adaptor (No. 71271), ROCASE 6414 with inlay (No. 1000001953)

Can also be used as a drive for our roll grooving unit!



Description	$\sqrt[]{\log \Delta}$	No.
SUPERTRONIC 2000 E basic device, with pipe clamp	9.8	1000003387
SUPERTRONIC 2000 E Set, with pipe clamp, with ROFIX adaptor, without battery	12.2	1000003388
and without charger, with BSPT R 1/2"-3/4"-1"-1.1/4"-1.1/2"-2" die heads		
SUPERTRONIC 2000 E Set, with pipe clamp, with ROFIX adaptor, with battery Li-Power,	18.1	1000003389
4.0 Ah 18 V and battery charger, with BSPT R 1/2"-3/4"-1"-1.1/4"-1.1/2"-2" die heads		



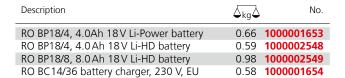
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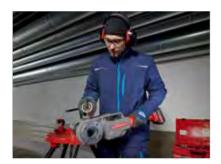


No. 1000002548



No. 1000002549









Description	
Die heads 1/4 - 2"	138
Dies 1/4 - 2"	138
Cutting fluid	139
Pipe roughing wrench	145
Ratchet pipe deburrer 1/4 – 2"	145









For faster threading, reinforced locking plate and precise die seating. Fits in ROTHENBERGER SUPERTRONIC 1000, SUPERTRONIC 1250, SUPERTRONIC 2000 and SUPER CUT threaders

Threading die heads with optimized geometry

Reduced effort of up to 10% for person and machine

Precision threading dies

Special viscous hard steel with long service life

Big chamber

Faster and easier removal of metal chips



Fully automatic production process

Reduced production tolerances to increase the service life by up to 10%

Extra wide and exchangeable threading dies

Highest demands and long service life

Forcelocked octagonal universal drive with snap ring locking

Easy and tool-free assembly with secure hold

Product profile

KEY FEATURES

- Threading die heads with optimized geometry to reduce the effort by up to 10% for person and machine
- Reduced manufacturing tolerance for guicker performance
- Interchangeable threading dies to increase economic efficiency
- Quick change threading die heads with secure holding for SUPER CUT, SUPERTRONIC 1250 and 2000 models

BSPT R	No.
1/4"	070821X
3/8"	070822X
1/2"	070823X
3/4"	070824X
1"	070825X
1.1/4"	070826X
1.1/2"	070842X
2"	070843X

NPT	No.
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.
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 Ø 1/4 - 1.1/4"

• Easy insertion of the die head with tension ring locking



DVGV

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-based oil

For threading of all materials including stainless steel

Emulsifying agent enables easy rinsing of the pipeline without unhealthy polychlorinated biphenyl (PCB)

Mineral-based cutting oil is not permitted for drinking water installations - Please check your national regulations!





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-based oils, purely synthetic:

developed and approved for drinking water and plumbing installations. DVGW tested.

100% water soluble, physiologically neutral, silicone-free: easily washable

Emulsifying agent enables easy rinsing of the pipeline

No build-up of shavings: perfect cooling quality **Good corrosion protection:** no rusting

Undiluted application

High polymer, without EP-additives such as sulphur, phosphorus or chlorine: increased cutting performance

Model	Contents	$\sqrt[]{\log \Delta}$		No.
RONOL SYN spray can	600 ml	0.75	12	65013
RONOL SYN canister	5 l	5.20	1	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, EN 10226, ISO 7-1: Ø 1/4 - 2"

NPT, ASME B1.20.1: Ø 1/4 - 2"

BSPP, ISO 228-1, DIN 259: Ø 1/2 - 2"

BSW, B. S 84: Ø 3/8 - 2"

Metric, ISO 261, DIN 13: 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 a workbench
- Complete pre- and post-processing of pipes
- Easy to maintain machine design
- Die head type R (automatic with integrated oil feed)
- Portable transport frame (standard)

TECHNICAL DATA

Original RIDGID²⁾ threading

dies can optionally be used!

ROTHENBE

 Performance:
 1,150 W

 Speed:
 40 rpm

 Weight:
 68 kg

Dimensions (L x W x H): 535 x 430 x 340 mm

Pre- and post-processing of pipes

Self-centering pipe cutter

Internal deburrer, snap in, 3-blade

Burr-free work

Precise cuts

Impact hammer chuck with maximal clamping-force

No pipe slippage

Self-centering rear chuck

Quick and precise alignment of the pipe

Easy to maintain machine design

Motor double insulated in accordance with VDE

Safe operation

Stable high torque motor

Constant power transferral

Off-set spindle lubrication

Easy maintenance

Machine slightly angled

Reduced oil consumption, oil coating in pipe interior is avoided

Geared oil pump with filter system and adjustable fluid qualities

Large plastic shavings collection trough

Easy to clean

Constant oil flow quantities

Threading & grooving

Threading electric



Automatic die head with integrated oil supply



Increased safety





Cost-effective production of grooves



Model	Volt	$\sqrt[b]{\log \Delta}$	No.
ROPOWER 50 R with automatic die head:			
BSPT R 1/2 - 3/4", 1-2"	230 V	88.5	56050
BSPT R 1/2 - 3/4", 1-2"	110 V	88.5	56045
BSPP R 1/2 - 3/4", 1-2"	230 V	88.5	56057
Collapsible stand ROPOWER 50 R		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)		0.02	70074
Supporting bolt for transport frame (4 pcs.)		0.7	56049
Supporting legs (4 pcs.)		5.0	56488

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Description		No.
Cutting fluid	139	
Automatic die heads	144	
Threading dies	144	
NIPPEL MAX	145	
Pipe roughing wrench	145	56500
ROGROOVER 1-6"	146	56505











SUPERTRONIC 2 SE / 3 SE / 4 SE

Compact threader Ø 1/4 - 4"

Reliable and proven for constant professional use

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, EN 10226, ISO 7-1: Ø 1/4 - 2"

NPT, ASME B1.20.1: Ø 1/4 - 2"

BSPP, ISO 228-1, DIN 259: Ø 1/2 - 2"

BSW, B. S 84: Ø 3/8 - 2"

Metric, ISO 261, DIN 13: Ø 10 - 36 mm
Ø 10 - 24 mm (2 SE)





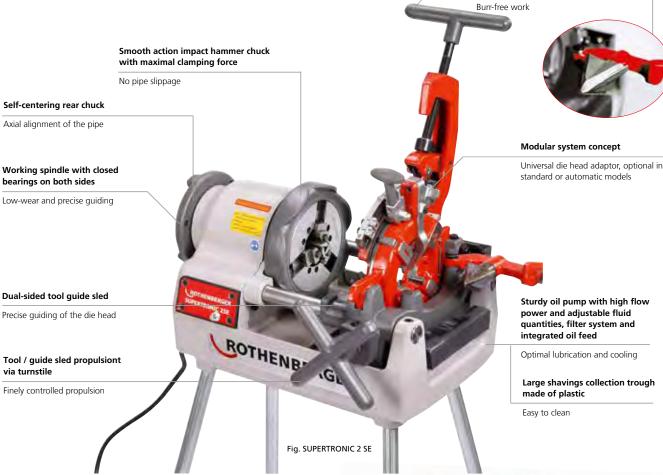


KEY FEATURES

- 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 due to impact hammer chuck
- Burr-free work

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

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 and finely adjustable thread depth without recentering



ROTHENBERGER



230 V

110 V

Threading & grooving Threading electric

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

1,150 W Power: 40 rpm Speed: Weight, with die heads: 68 kg

Dimensions (L x W x H): 535 x 430 x 340 mm

Set includes: 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	$\Delta_{ m kg}\Delta$	230 V
with standard die head BSPT R 1/2 - 3/4". 1 - 2"	68	56150
with automatic die head BSPT R 1/2 - 3/4", 1 - 2"	68	56175



SUPERTRONIC 2 SE	No.
Deburrer without holder for 2 SE	56198
Supporting legs (4 pcs.)	56488

SUPERTRONIC 3 SE

Compact threader Ø 1/2 - 3"

Standard die head: 1/2 - 2" (No. 56156), 2 - 3" (No. 56104) 1/2 - 2" (No. 56266), 2.1/2 - 3" (No. 56288) Automatic die head:

TECHNICAL DATA

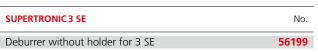
Power: 1,700 W Speed: 33 rpm Weight, with die heads: 100 kg

Dimensions (L x W x H): 650 x 480 x 420 mm

Set includes: 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 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 1/2 - 3/4" (No. 56007), 1 - 3/4" (N threading dies 2 - 3" (No. 56006), SS threading dies 2 1/2 - 3" (No. 56489), safety foot switch (No. 56335), supporting legs (No. 56491), tool

SUPERTRONIC 3 SE	$\Delta_{kg}\Delta$	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	





SUPERTRONIC 4 SE

Compact threader Ø 1/2 - 4"

Dimensions (L x W x H):

SUPERTRONIC 4 SE with automatic die head

TECHNICAL DATA	
Power:	1,750 W
Speed:	22 / 50 rpm
Weight, with die heads:	120 kg

Set includes: 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),

750 x 540 x 480 mm

1001			
SUPERTRONIC 4 SE	$\Delta_{kg}\Delta$	230 V	110 V
with automatic die head BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4"	120	56465	56475
NPT 1/2 - 3/4", 1 - 2", 2.1/2" - 4"		56466	
Deburrer without holder for 4 SE		56200	
Transport frame for 3 and 4 SE	25	57050	



Threading & grooving

Threading electric

Precision die heads

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

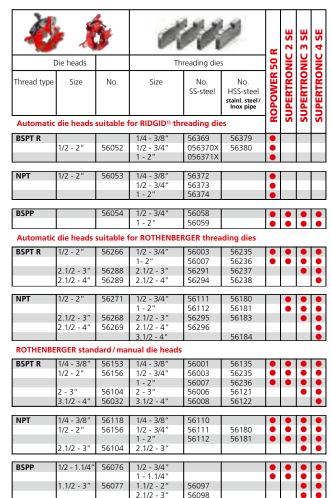
KEY FEATURES

Automatic die heads

- Simple and clear operation with the guick-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!

Overview die heads / 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 139)

Suitable for:

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

Conical pipe threads - NPT Taper pipe threads: ASME B1.20.1 External pipe threads: conical, 1:16, 60° flank angle

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



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 V	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	L mm	$\Delta_{kg}\Delta$	No.
Pipe roughing wrench	335	1.15	56500
Replacement roughing rolls (3 pcs.)	0.30	56501

Ratchet pipe deburrer 1/4 - 2"

Quick and clean deburring

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



Model	inch	mm	ΔgΔ	No.
Internal deburrer with ratchet Spare deburrer	1/4 - 2"	13 - 60	•	70289 70296

NIPPEL MAX

NIPPEL 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 like PANDA, PISET, ROPOWER and SUPERTRONIC.

- Recycling pipe scraps saves money, material and time
- Automatic quick grip of the pipe piece without the need for additional tools
- Pipes are gripped from within and centred: no damage to pipe piece









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

Model	$\sqrt[]{\log \Delta}$	No.
NIPPEL MAX set		
1/2 - 3/4 - 1 - 1.1/4 - 1.1/2"	4.4	56056
Nipple chuck 1/2"	0.4	56060
Nipple chuck 3/4"	0.5	56061

Model	$\sqrt[4]{\log \Delta}$	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

Hand roll groover 1 - 12"

Manageable and compact hand roll groover for producing 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 installed pipes from 1 - 12"

KEY FEATURES

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

Can also be used in combination with the SUPERTRONIC 2000 E p. 136

Application on tripod workbench

6



Fixture for stabiliser



TECHNICAL DATA

Working range: 1 - 12" (324 mm)

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

4 - 6" SCHL40 8 - 12" SCHL10

Weight: 12 kg

Depth gauge: 2 distance plates included **Dimensions:** 195 mm x 210 mm x 210 mm



Model	$\sqrt[]{\log \Delta}$	No.
Hand roll groover 2 - 6"	12.0	1000000212
Roller set 1"	0.59	1000000720
Roller set 1.1/4 - 1.1/2"	0.62	1000000721
Roller set 2 - 6"	1.00	1000000850
Roller set 4 - 6"	2.48	1000000722
Roller set 8 - 12"	2.70	1000000723

ROGROOVER 1 - 6"

Portable rolling groover for steel pipes up to Ø 6" (168 mm) for rapid rolling grooves on standard and thin-walled steel pipes

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

APPLICATION AREA

Lightweight 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 lightweight aluminium casing
- Adjustable and finely-controlled arrester for consistent groove depth
- Convenient, easy and time-saving operation

Model	$\sqrt[]{kg}$	No.
ROGROOVER for SUPERTRONIC 2000	14.5	56509
ROGROOVER for ROPOWER 50 R, SC 2 SE, REX 2"	′ 14.5	56505
ROGROOVER for SUPERTRONIC 3 SE and REX 3"	14.5	56506
ROGROOVER for SUPERTRONIC 4 SE	14.5	56507
ROGROOVER for RIDGID ¹⁾ 300	16.0	56504
ROGROOVER for REX 4"	14.5	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 for ROGROOVER, 1"	56521
Pressure roller set for ROGROOVER, 1.1/4 - 1.1/2"	56522
Pressure roller set for ROGROOVER, 2 - 6"	56523
Tripod workbench	70751

Roll grooving

ROGROOVER 1 - 12"

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





Product profile

APPLICATION AREA

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

KEY FEATURES

- Pressure rollers toolless adjustable due to revolver-button
- Safe working with foot switch and emergency stop switch, as well as lighting in workplace
- Reliable, powerful 1,500 W motor
- Quick and fine adjustment for groovers and regulation

TECHNICAL DATA

1 - 12" (33 - 324 mm) Working range:

Pipe wall-thickness: 3 - 10 mm Weight: 175 kg

Dimensions: 685 x 474 x 960 mm

Voltage: 110 V-50 Hz, 230 V-50 Hz / 60 Hz

Power: Torque: 36 rpm Max. working pressure: 27,750 N







Model $\Delta_{kg}\Delta$ No. ROGROOVER 1 - 12", 230 V 50 Hz 175 1500001351 ROGROOVER 1 - 12", 230 V 60 Hz ROGROOVER 1 - 12", 110 V 50 Hz 1500001352 175 1500001353 175

Set includes: ROGROOVER machine 1 -12", pipe support stand, drive shaft, 1 - 1.1/2", 2 - 6" and 8 - 12" (No. 1500001709-1711), diameter messuring tape

Model	$\sqrt{\log \Delta}$	No.
Pipe support stand	33	1500001990
Diameter messuring tape	0.05	1500000134
Transport stand	25	57050
Spare spindel for Inox tube, 1-1.1/2"	1.3	1000002262
Spare spindel for Inox tube, 2-6"	1.7	1000002263
Spare spindel for Inox tube, 8 - 12"	2.6	1000002264
Spare spindel for steel tube, 1-1.1/2"	1.3	1500001711
Spare spindel for steel tube, 2-6"	1.4	1500001709
Spare spindel for steel tube, 8 - 12"	1.7	1500001710





Soldering & welding **System overview** 150 - 151 Cartridge brazing 152 - 156, 158 - 159 Cartridge soft soldering 156 - 157, 159 Cylinder brazing 160 - 161 Cylinder soft soldering 162 Accessories cylinder brazing/soft soldering 163 **Electric soft soldering** 164 - 165 166 - 169 Gas welding Three-gas welding 170 - 171 Accessories soldering & welding 172 - 181 **ROVLIES®** × 03

Cartridge brazing











Page	152 - 153	154 - 155	156	156	156
For use with:	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas ²⁾ , Maxigas 400 ²⁾ , Multigas 300 ²⁾	MAPP ¹⁾ gas ²⁾ , Maxigas 400 ²⁾ , Multigas 300 ²⁾
Special application:	Shrinking, removal of paint	Shrinking, removal of paint	-	-	-
Brazing:	Up to Ø 28 mm	Up to Ø 28 mm	Up to Ø 28 mm	Up to Ø 18 mm	Up to Ø 28 mm
Soft soldering:	Up to Ø 35 mm	Up to Ø 35 mm	Up to Ø 35 mm	Up to Ø 42 mm	Up to Ø 64 mm

Cartridge soft soldering ROFLAME 4 ROFIRE 4 PIEZO ROFIRE 4 ROFIRE 4

Brazing:	Page	156	157	162
Brazing: Up to Ø 15 mm – Special Bonding of	For use with:	Supergas C 200	Multigas 300	
	-	-		Bonding of bituminous sheeting
3 Basic C C C C C C C C C	Brazing:	-	Up to Ø 15 mm	-
Soft soldering: ● Up to Ø 22 mm Up to Ø 22 mm	Soft soldering:	Up to Ø 22 mm	Up to Ø 22 mm	\checkmark

rage	150	157	102	
	MAPP¹) gas Maxiga		Multigas 300	Supergas C 200
	HAP!			
Flame temperature:	Up to 2,700 °C	Up to 2,200 °C	Up to 1,900 °C	Up to 1,800 °C
Application:	Soft soldering & brazing	Soft soldering & brazing	Soft soldering	Soft soldering
Valve:	7/16" EU	7/16" EU	7/16" EU	Pierceable cartridge

Page 158 159 159 159

600 ml / 352 g

800 ml / 400 g

314 ml / 190 g

600 ml / 338 g

Content:

Brazing & soft soldering devices



ALLGAS 2000 set

Fig. similar







Soft soldering:	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Brazing:	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Welding:	0.5 - 14 mm	0.2 - 5 mm	-	-	-
Cutting:	12 - 100 mm	-	-	-	-
For use with:	Acetylene, oxygen, Maxigas 400	Acetylene, oxygen	Propane, oxygen	MAPP ¹⁾ gas, oxygen	Maxigas 400, oxygen
Page	170	166	167	168	169

Cylinder brazing & soft soldering









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Soft soldering:	Up to Ø 54 mm	Up to Ø 54 mm	Up to Ø 54 mm
Brazing:	Up to Ø 22 mm	Up to Ø 28 mm	-
Special- application:	-	-	Soft soldering without flame
For use with:	Propane, butane	Propane, butane	230 V
Page	160	161	164 - 165

Cartridges & cylinders



		_
Application:	Brazing, welding, cutting	Brazing, welding, cutting
Valve:	DIN 477-1	M 10x1 (one-way) / G 3/4" RH
Pressure:	19 bar	110 bar (one-way) / 200 bar
Content:	5 l, 10 l	950 ml (one-way) / 2 l, 5 l, 10 l

172



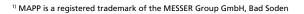
Soft soldering Up to 450 °C



Brazing 450 °C - 1100 °C



Gas welding > 1100 °C



Page

SUPER FIRE 3

Ergonomic HEAVY DUTY brazing unit

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

Product profile

APPLICATION AREA

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

protected environment)

Soft soldering: up to Ø 35 mm

KEY FEATURES

- Rapid material heat-up, less consumption!
- Long service life
- "Twist ,N' Load" system (5 different burner available) exchange of the burner with only one movement

Elaborately manufactured brass /

- 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 burners (piezo ignition)

TECHNICAL DATA

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

Twist 'N' Load'

Fast "Twist 'N' Load" system

Exchange of the burners with one movement (5 different



Brazing in gas installation



Up to 2.5 hours of brazing with one cartridge

High flame temperature based on cyclone swirl



Brazing in refrigeration / air-conditioning technology



Cartridge brazing

Pin-point burner (460 °C):



Standard burner (700 °C):



Cyclone burner (950 °C):



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

Hot air burner (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 burner (720 °C):



For shrinking up to \emptyset 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. 1000002369) includes: handle (No. 35445), cyclone burner (No. 35457), pin-point burner (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2x MAPP¹⁾ gas A cartridges (No. 035521-A), ROCASE 4414 (No. 1000001945)

Model		No.
SUPER FIRE 3 HOT BOX EU (incl. MAPP ¹⁾ gas A)	1 10000	002369
SUPER FIRE 3 HOT BOX EU (incl. MAPP1) gas B)	1 10000	002370
SUPER FIRE 3 HOT BOX EU (incl. MAPP ¹⁾ gas C)	1 10000	002371

SUPER FIRE 3 basic set

Set (No. 35436) includes:

handle (No. 35445), cyclone burner (No. 35457)

When placing your order, remember to order the universal torch support (No. 35461) for stationary soldering, too!

Model		No.
SUPER FIRE 3 basic set		35436
SUPER FIRE safety adaptor 7/16" to 1"	1	035648X



No. 035648X



No. 35436

ACCESSORIES













Model		Model	
Welding blanket	175	Fittings solder	177
Internal brushes for copper pipes	175	ROVLIES cleaning pads	175
Solder	176 - 181	ROSOL soldering paste	177

SUPER FIRE 4

Ergonomic brazing unit

For brazing up to \emptyset 28 mm and soft soldering up to \emptyset 35 mm as well as other applications such as removal of paint or shrinking of hoses

PAZIN











Product profile

APPLICATION AREA

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

protected environment)

Soft soldering: up to Ø 35 mm

KEY FEATURES

- Rapid material heat-up, less consumption!
- "Twist 'N' Load" system (5 different burner available) exchange of the burner with only one movement
- Precise flame adjustment
- Improved trigger locking mechanism for one-handed-operation

KEY FEATURES

- Reliable piezo ignition (up to 30,000 ignitions)
- Double the safety because there is no gas leakage without locked burners (piezo ignition)
- Longer handle for an even more stable positioning on the cartridge

TECHNICAL DATA

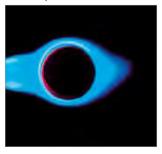
Coupling: 7/16" EU
Handle: Plastic, rubberized
Burner: Brass / stainless steel

Burner with swirl flame "Twist 'N' Load Rapid heat-up, less consumption! Fast "Twist 'N' Load" system Exchange of the burner with one movement (5 different burner available) Optimized fine regulating valve Precise flame adjustment, faster opening and closing Elaborately manufactured brass / stainless steel design Long service life Ergonomically designed handle **Dual safety** Robust, light and Only ignites if burner has slipfree through been securely locked rubberized surface High-performance piezo Reliable (up to 30,000 ignitions) ✓ Safe Locking button ✓ Fast Continual use with only one hand Reliable

Brazing in refrigeration / air-conditioning technology



High flame temperature based on cyclone swirl



Brazing in refrigeration / air-conditioning technology



Cartridge brazing

Standard burner (700 °C):



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

Cyclone burner (950 °C):



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

Hot air burner (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 burner (720 °C):



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

SUPER FIRE 4 HOT BOX

KEY FEATURES

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







5-part set (No. 1000002364) includes: handle (No. 1500001354), cyclone burner (No. 35457), pin-point burner (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2x MAPP¹⁾ gas A cartridges (No. 035521-A), ROCASE 4414 (No. 1000001945)

Model	No.
SUPER FIRE 4 HOT BOX EU (incl. MAPP1) gas A)	1 1000002364
SUPER FIRE 4 HOT BOX EU (incl. MAPP ¹⁾ gas B)	1 1000002366
SUPER FIRE 4 HOT BOX EU (incl. MAPP ¹⁾ gas C)	1 1000002368
SUPER FIRE 4 HOT BOX US (incl. MAPP1) gas US)	1 1000001630

SUPER FIRE 4 basic set

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

When placing your order, remember to order the universal torch support (No. 35461) for stationary soldering, too!

Model		No.
SUPER FIRE 4 basic set	1	1500001355
SUPER FIRE safety adaptor 7/16" to 1"	1	035648X



No 035648X



No. 1500001355

ACCESSORIES













Model		Model	
Welding blanket	175	Fittings solder	177
Internal brushes for copper pipes	175	ROVLIES cleaning pads	175
Solder	176 - 181	ROSOL soldering paste	177

ROFIRE GLOBAL

Ergonomic torch for brazing and soft soldering applications

APPLICATION AREA

up to Ø28 mm (with flame reflector in a wind Brazing:

protected environment)

Soft soldering: up to Ø 35 mm

KEY FEATURES

- Long service life, with cyclone effect for rapid heat-up
- Reliable up to 30,000 ignitions
- Protection against triggering of the Piezo ignition when falling down accidentally
- Precise flame adjustment
- Durable plastic for ergonomic handling
- Longer handle for stable positioning on gas cartridges

Model	$\sqrt[]{g}$	No.
ROFIRE GLOBAL, 7/16"EU	250	1500002869

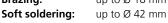


ROFIRE Swivel PRO cyclone piezo

Cyclone burner with piezo ignition

1" US Coupling:

Brazing: up to Ø 18 mm





Model	ΔgΔ	No.
ROFIRE Swivel PRO cyclone piezo US	330	35016

ROFIRE Swivel PRO twin

Twin cyclone burner

1" US Coupling: Brazing:

up to Ø 28 mm Soft soldering: up to Ø 64 mm



Model	ΔgΔ	No.
ROFIRE Swivel PRO twin US	400	35012

ROFLAME 4 PIEZO

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

Soft soldering: up to Ø 22 mm

KEY FEATURES

- Integrated pre-heat function for a stable flame, even when turning it upside down (360°)
- Robust metal housing for C 200 cartridges
- 2-component rubberized plastic handle for superior ergonomics and handling
- Piezo ignition (up to 30,000 ignitions)
- Precise adjustment of the flame

TECHNICAL DATA

Coupling: Pierceable connection (C 200 cartridge)

Handle: Plastic, rubberized **Burner:** Stainless steel & brass

Inox burner, 2-component rubber-plastic Housing:

handle, metal cartridge housing



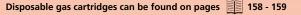








Model	ΔgΔ	No.
ROFLAME 4 PIEZO, without gas	630	1000002358



Fine regulating valve

Cartridge soft soldering

ROFIRE 4

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

Brazing: up to Ø 15 mm **Soft soldering:** up to Ø 22 mm

KEY FEATURES

- Integrated pre-heat function for a stable flame, even when turning it upside down (360°)
- Precise adjustment of the flame

TECHNICAL DATA

Coupling: 7/16"-EU **Handle:** Plastic

Burner: Stainless steel & brass

Model	√ _g √	No.
ROFIRE 4, without gas	300	1500002921
ROFIRE 4, with Multigas 300	750	1000002359









ROFIRE 4 PIEZO

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

Brazing: up to Ø 15 mm **Soft soldering:** up to Ø 22 mm

KEY FEATURES

- Integrated pre-heat function for a stable flame, even when turning it upside down (360°)
- 2-component rubberized plastic handle for superior ergonomics and handling
- Piezo ignition (up to 30,000 ignitions)
- Precise adjustment of the flame

TECHNICAL DATA

Coupling: 7/16" EU

Handle: Plastic, rubberized

Burner: Stainless steel & brass



Integrated pre-heat function for a stable flame, even when turning it upside down (360°)



Soft soldering in drinking water and heating installation





Longer construction for a stable positioning on cartridges



Model	ΔgΔ	No.
ROFIRE 4 PIEZO, without gas	300	1500002922
ROFIRE 4 PIEZO, with Multigas 300	750	1000002360

perfect grip

Product profile

KEY FEATURES

- Superior heat transfer, higher than propane, especially in winter below 0°C
- Increased safety and stability based on massive brass valve and protective collar
- Provides superior flame performance in any position (360°)

KEY FEATURES

Easy to use

ROTHENBERGER

- Guaranteed constant top torch performance
- Longer periods of use

7/16"-EU brass valve

Patented design for high-pressure gases

Protective collar

Stabilizes the torch and protects against accidental drops

100 % propylene

Superior flame performance (even upside down) and a higher heat transfer than propane

Steel cylinder

Suitable for high pressure gases







Protective collar stabilizes the torch and protects against accidental drops

Model	Content		No.
MAPP ¹⁾ gas 7/16"EU, A	800 ml	12	035521-A
Languages: DE, GB, FR, ES, IT, PT			
MAPP ¹⁾ gas 7/16"EU, B	800 ml	12	035521-B
Languages: DK, NL, SE, FI, FR, RUS	5		
MAPP ¹⁾ gas 7/16"EU, C	800 ml	12	035521-C
Languages: CZ, PL, HU, BG, TR, RO	O		
Torches can be found starting	on 🧵 15	i2	







SUPER FIRE 4 HOT BOX

Packaging profile

Model	MAPP ¹⁾ gas		
No.	035521-A		
EAN code	4004625400180		
Product size (mm) (W x H)	70 x 270		
Contents (ml)	800		
Weight (g)	400		
Unit per box ###	12		
Boxes per layer / pallet	10		
Layer per pallet	3		
Units per pallet	360		
Number of pallets per truckload	60		
Units per truckload	21,600		
Pallet weight (kg)	324		
Pallet size (mm) (L x W x H)	800 x 1,200 x 1,000		
Carton size (mm) (L x W x H)	290 x 310 x 240		

Cartridge brazing/soft soldering

Maxigas 400

High-performance welding, cutting and brazing gas for flame temperatures up to 2,200 $^{\circ}$ 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







SOEPOT.	ASDEPOT
Mag- Ado a mine	METHERS NO TELE



Maxigas 400		
035570-A/-B		
4004625355701 (A)		
65 x 260		
600		
352		
24		
9		
3		
648		
60		
38,880		
195		
800 x 1,200 x 1,000		
405 x 272 x 264		

Model	Multigas 300		
No.	035510-A/-B		
EAN code	4004625355107 (A)		
Product size (mm) (W x H)	65 x 260		
Content (ml)	600		
Weight (g)	338		
Unit per box	24		
Boxes per layer / pallet	9		
Layer per pallet	3		
Units per pallet	648		
Number of pallets per truckload	60		
Units per truckload	38,880		
Pallet weight (kg)	191		
Pallet 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		

Supergas C 200 TSS

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







Model	C 200 TSS
No.	035901-A/-B
EAN code	4004625390627 (A)
Product size (mm) (W x H)	90 x 95
Content (ml)	330
Weight (g)	190
Unit per box	36
Boxes per layer / pallet	9
Layer per pallet	3
Units per pallet	972
Number of pallets per truckload	60
Units per truckload	58,320
Pallet weight (kg)	350
Pallet size (mm) (L x W x H)	800 x 1,200 x 1,180
Carton size (mm) (L x W x H)	360 x 275 x 280

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: Hose coupling:

Turbine and combustion chamber Surface treated, chromed brass

G 3/8" LH





Sets include: safety handle with push-in coupling (No. 211121116), brazing burner with push-in nipple Ø 14 mm (No. 221131416) / Ø 16 mm (No. 221131616) / Ø 19 mm (No. 221131916), propane hose, 2.5 m with 3/8" LH coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

Model	$\overline{\triangle_{kg}\triangle}$	No.
AIRPROP brazing set without propane regulator	2.8	31092
AIRPROP brazing set with propane regulator	3.1	31091
(No. 32081) (W 21.8 LH – G 3/8 LH)		



AIRPROP brazing burner with threaded coupling

Ø mm	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	mm	g/h 2 bar	kWh – kcal – BTU	$\Delta_g \Delta$	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





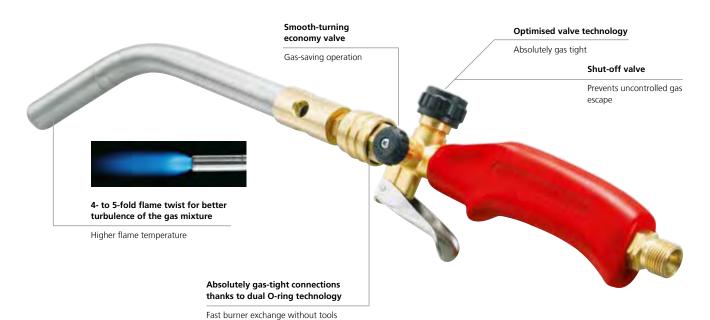






TECHNICAL DATA

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





Sets include: safety handle with push-in coupling (No. 211121116), brazing burner with push-in nipple \emptyset 12 mm (No. 31032) / \emptyset 15 mm (No. 221031500) / \emptyset 18 mm (No. 221031800), propane hose, 2.5 m with 3/8" LH coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

Model	$\sqrt[]{\log \Delta}$	No.
TURBOPROP set without propane regulator	2.8	31090
TURBOPROP set with propane regulator	3.1	31094
(No. 32081E) (W 21.8 LH – G 3/8 LH)		



TURBOPROP brazing burner with push-in nipple coupling

Ø mm	<u>L</u> mm	g/h 2 bar	kWh – kcal – BTU	$\Delta_{g}\Delta$	No.
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

Cylinder soft soldering

ROOFING set

Propane surface-heating torch with Ø 63 mm high-performance burner







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







TECHNICAL DATA

600 mm burner tube Burner support





Burner support included!

7

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 m propane hose (No. 32203), torch support (No. 252010000)

Large working range

Model	ΔgΔ	No.
ROOFING set ROOFING set	1,920 2,300	30954 30957
(as No. 30954, with pressure regulator No Burner support	60	252010000

Extensions

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



<mark>⊩L⊲</mark> mm	\sqrt{g}	No.	L mm	\sqrt{g}	No.
100	90	231010000	350	190	233510000
200	120	232010000	600	290	236010000

Surface-heating burner heads

High-efficiency burner 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



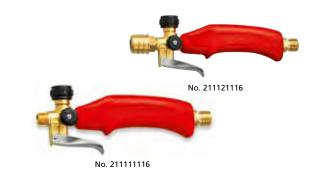
mm		g/h 2 bar	kWh – kcal – BTU		ΔgΔ	No.
open						
51	112	3800	48.60 - 41,800 -	- 165,970	270	223090716
63	138	6700	85.70 - 73,700 -	- 292,670	440	223090916
close	d					
45	102	2500	32.00 - 27,500 -	- 109,280	240	223214500
51	112	3800	48.60 – 41,800 –	165,970	270	223215100
57	126	5500	70.35 - 60,500 -	- 240,257	350	223215700
63	138	6700	85.70 – 73,700 – 2	292,670	440	223216300

Accessories cylinder brazing/soft soldering

Safety propane handles

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

Model	∑ _g ∆	No.
Safety propane handle with push-in coupling Safety propane handle with M 14x1 coupling		211121116
Repair kit with shut-off valve, complete Repair kit with regulating valve, complete	10 10	30101 30102



Propane regulators

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

Inlet	Outlet	Working pressure Bar	Perform- ance kg/h	∆ g ∆	No.
W 21.8x1/14"LH	G 3/8" LH	0.5 - 4.0	8	240	32081
G 3/8" LH	G 3/8" LH	0 - 6	8	200	242206000
W 21.8x1/14"LH	G 3/8" LH	4	8	230	30925



Propane hoses

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

m	Inlet	Outlet	Standard	Interior-Ø mm Wall thickness		No.
2	G 3/8"LH	M 10 x 1 LH	ISO 3821	4.0 x 3.5	310	30927
2.5	G 3/8"LH	G 3/8" LH	ISO 3821	4.0 x 3.5	350	32201
5	G 3/8"LH	G 3/8" LH	ISO 3821	4.0 x 3.5	730	33310
10	G 3/8"LH	G 3/8" LH	EN 1327	5.0 x 3.5	1,650	32223



Refilling adaptor

For refilling 0.425 kg propane cylinders from 3 kg, 5 kg or 11 kg propane cylinders, brass with guide pin

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



Propane steel cylinder

With cylinder valve, TÜV tested, according to TRG

Model	Outlet	Content	$\Delta_{kg}\Delta$	No.
Small cylinder 0.425 kg, with foo Protective collar for No. 33079	ot G 3/8"	LH empty	2.75	33079 35636



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:** 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

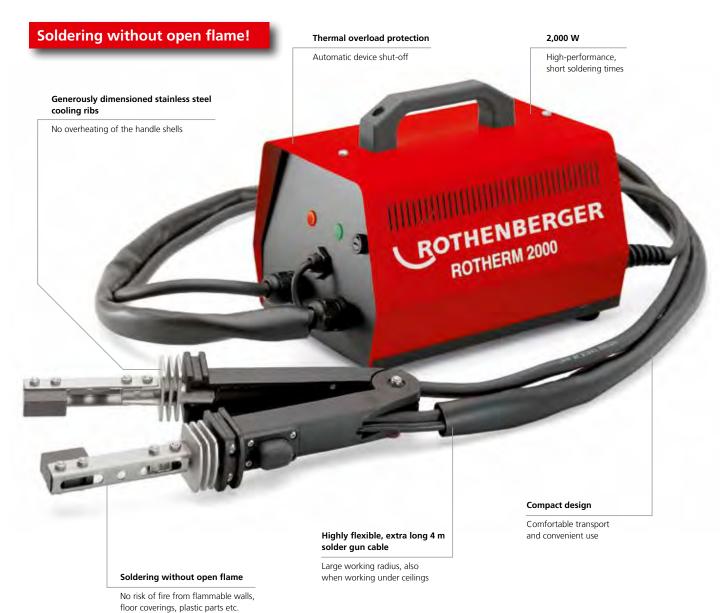
- Handle shell will not overheat
- No purchasing on handling of gas cylinders necessary
- Equivalent with transport terms
- Connection on every 230 V outlet, 2 m connection cable
- Fast return on investment
- Power control lamp (red) and operating control lamp (green)
- Equipment fuse accessible from outside

TECHNICAL DATA

Power: 2,000 W Soldergun cable: 4 m

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

Weight: 10.5 kg



230 V

36702

36700

36715

50/60 Hz

ROTHERM 2000 soft soldering set

Electric soft soldering unit up to Ø 54 mm / 2.1/8"

Set (No. 36702) 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), internal brushes 12 mm (No. 854181) / 15 mm (No. 854183) / 18 mm (No. 854185) / 22 mm (No. 854186) / 28 mm (No. 854187), steel case (No. 36715)

Particularly suitable for repair and modification work in surroundings or rooms with a fire hazard, as well as in building refurbishment!

Warming up of the soldering joint without open flame



Rod electrodes for working near to the wall or between parallel running pipes with narrow gaps (can be ordered separately)





Steel case

Model



ROTHERM 2000 soft soldering set

ROTHERM 2000 soft soldering unit

ROTHENBERGER

Simple replacement of electrodes and electrode holders

 $\Delta_{kg}\Delta$

17.8

13.6

3.5





Fig. similar

ACCESSORIES













Model	No.	Model	
Flat electrode (pair)	36721	ROVLIES cleaning pads	173
Flat electrode with holder (pair)	36711	Fittings solder flux	175
Rod electrodes (pair)	36720	Fittings solders	175
Rod electrodes with holder (pair)	36710	Internal brushes for copper pipe	173

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: Acetylene and oxygen

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)

Product profile

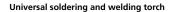
- Super compact for working in confined spaces
- Efficient and economical professional use

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

Small, very light handle (280 g)

Super compact for working in confined spaces



For use with all conventional gases and cylinder oxygen

Flexible pipe welding attachments





Dispersion burners for warming up





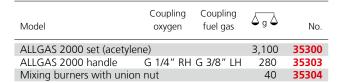




Efficient and economical professional use

17-part set (No. 35300) includes: handle (No. 35303), mixing burners with union nut (No. 35304), welding tips 0.2 - 1.0 mm (No. 35305) / 1.0 - 2.0 mm (No. 35306) / 2.0 - 3.0 mm (No. 35307) / 3.0 - 4.0 mm (No. 35308) / 4.0 - 5.0 mm (No. 35309), flexible welding tips size 1 (No. 35313) / size 2 (No. 35314), coupling / union nut size 14 (No. 35315), dispersion burners (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)

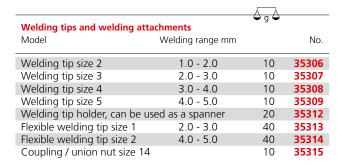
GOTHENBERGER





ALLGAS 2000 set

Fig. similar



Gas-welding

ALLGAS 2000 PS 0.5 / 2 Compact

Portable 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 brazing equipment
- Ideal for mobile building-site and repair use
- Small propane cylinders can be refilled

TECHNICAL DATA

Gas: Propane and oxygen

2,850 °C Flame temperature: Working temperature: 1,150 °C

With safety devices to prevent flashbacks

24-part set (No. 35655) includes: ALLGAS 2000 handle (No. 35303), propane hose, 2.5 m (No. 32201), oxygen hose, 2.5 m (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing burners with union nut (No. 35304), welding tips 0.2 - 1.0 mm (No. 35305) / 1.0 - 2.0 mm (No. 35306) / 2.0 - 3.0 mm (No. 35307) / 3.0 - 4.0 mm (No. 35308) / 4.0 - 5.0 mm (No. 35309), flexible welding tips size 1 (No. 35313) / size 2 (No. 35314), dispersion burners (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 0.425 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 Compact set	21.4	35655
Carrying frame without accessories	10.3	35629
Further accessories can be found on	172	

















The bottle colors shown are without obligation! Fig. similar

ALLGAS 2000 welding tips

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

Model	Welding range mm	$\Delta_g \Delta$	No.
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
Welding tip holder, can be us	ed as a spanner	20	35312

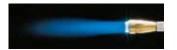


Welding tips, thread M8 X 1



No. 35309

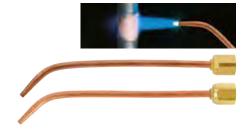






Flexible pipe welding attachments

Model	Welding range mm	ΔgΔ	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 flash-
- MAPP¹⁾ gas pressure regulator with an adjustable range of 0 - 2 bar for a constant, low consumption and an efficient flame adjustment









TECHNICAL DATA

Gas: MAPP1) gas with oxygen

Flame temperature: over 3,100 °C 1,300 °C Working temperature:

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, EN ISO 3821 certified, length: 2.5 m

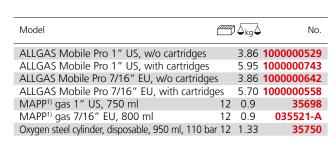
Including 5 interchangeable burners and a bendable welding attachment for a material thickness up to 5 mm

Welding and brazing torch

MAPP¹⁾ and oxygen Flame temperature above 3,100 °C



HENBER



Model	$\sqrt[]{\log \Delta}$	No.
Pressure regulator 1" US f. MAPP ¹⁾ /LPG	0.38	1000000620
Pressure regulator M10 x 1 f. oxygen	0.35	1000000629









7

ALLGAS 2000 PS 0.5 / 2 Basic

Portable fitter's brazing equipment

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











KEY FEATURES

- Compact and handy construction for mobile building-site and repair use
- Job compatible combination, assembled and ready to use

Space saving storage in service vehicles!



18-part set (No. 35651) includes: ALLGAS 2000 handle (No. 35303), propane hose, 2.5 m (No. 32201), oxygen hose, 2.5 m (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing burners with union nut (No. 35304), welding tips 0.2 - 1.0 mm (No. 35305) / 1.0 - 2.0 mm (No. 35306) / 2.0 - 3.0 mm (No. 35307) / 3.0 - 4.0 mm (No. 35308) / 4.0 - 5.0 mm (No. 35309), welding tip holder / spanner (No. 35312) multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), steel oxygen cylinder 2.0 l, filled (No. 35635), propane cylinder 0.5 kg, empty (No. 33079), ALLGAS stand (No. 35628)

Model	$\Delta_{ m kg}\Delta$	No.
ALLGAS 2000 PS 0.5 / 2 Basic set	14.4	35651
Further accessories can be found on	172	

ROXY 400 L

Standard gas-welding equipment for flame temperatures up to 3,100 °C

Fig. similar

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



The bottle colors shown are without obligation! Fig. similar











Space saving storage in service vehicles!



19-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. 100000633), gas blowback protection (No. 35691), mixing burners with union nut (No. 35587), high-performance tips 1.5 mm (No. 263005600) / 2.0 mm (No. 263005400), micro-tips 0.3 mm (No. 35712) / 0.5 mm (No. 35696) / 0.7 mm (No. 35713), micro-tip adaptor (No. 35585), welding goggles AS (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738), carrying frame (No. 35727)

Model	$\sqrt[]{\log \Delta}$	No.
ROXY 400 L, complete	10.80	035780X
ROXY 400 L without oxygen	6.0	35782
Welding-handle, M14x1	0.12	35580
Dual hose set 3 m	0.95	35785
Micro-tip adaptor	0.01	35585
Micro-tip 0.4 mm	0.01	35695
Micro-tip 0.5 mm	0.02	35696
Micro-tip 0.6 mm	0.02	35697
Micro-tip 0.7 mm	0.02	35713
High-performance tip 0.7 mm	0.06	263005800
High-performance tip 1.2 mm	0.04	263005700
High-performance tip 1.5 mm	0.04	263005600
High-performance tip 2.0 mm	0.04	263005400

RE 17 three-gas system AMS 5/5

Assembly, welding, cutting and brazing system Welding range: 0.5 - 14 mm, Cutting range: 12 - 50 mm















27-part set (No. 35400) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1.0 mm (No. 35325) / 1.0 - 2.0 mm (No. 35326) / 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No 35329) / 9.0 - 14.0 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating burners 12-100 mm (No. 35339), dual hoses A/O, 5m (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2x red (No. 511428) / 2x blue protective rubber caps (No. 511427),10 piece burners 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. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dualtelescoping transport trolley (No. 35354),

Model	$\sqrt[]{\log \Delta}$	No.
RE 17 three-gas system AMS 5/5	50	35400

RE 17 three-gas system AMS 5 and 10

Assembly, welding, cutting and brazing system Welding range: 0.5 - 14 mm, Cutting range: 12 - 50 mm



Including dual-telescoping transport trolley!

24-part set (No. 35403) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1.0 mm (No. 35325) / 1.0 - 2.0 mm (No. 35326) / 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No 35329) / 9.0 - 14.0 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35334), / 25 - 50 mm (No. 35344), heating burners 12 - 100 mm (No. 35339), dual hoses A/O, 5 m (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2x red (No. 511428) / 2x blue protective rubber caps (No. 511427), 10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

M	odel	$\Delta_{kg}\Delta$	No.
RE	17 three-gas system AMS 5 + 10	23	35403

RE 17 three-gas system AMS 10/10

Assembly, welding, cutting and brazing system Welding range: 0.5 - 14 mm, Cutting range: 12 - 50 mm



Including gas cylinders and dual-telescoping transport trolley!

The bottle colors shown are without obligation! Fig. similar











27-part set (No. 35401) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1.0 mm (No. 35325) / 1.0 - 2.0 mm (No. 35326) / 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No 35329) / 9.0 - 14.0 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating burners 12 - 100 mm (No. 35339), dual hoses A/O, 5 m(No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2x red (No. 511428) / 2x blue protective rubber caps (No. 511427), 10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 10 I, filled (No. 35179), oxygen cylinder 10 I, filled (No. 35189), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No.

Model	$\Delta_{kg}\Delta$	No.
RE 17 three-gas system AMS 10/10	66	35401













Three-gas welding

RE 17 UNIVERSAL pipe welding set

For welding, cutting, brazing and warming up Welding range: 0.5 - 14 mm, Cutting range: 12 - 100 mm

Set (No. 35479) includes: handle with coupling nut (No. 35324), welding attachments 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No. 35329), flexible pipe-welding tips 2.0 - 4.0 mm (No. 35347) / 4.0 - 6.0 mm (No. 35348), wing-lever cutting attachment (No. 35338), cutting tip 12 - 25 mm (No. 35341), heating burners 12 - 100 mm (No. 35339), nozzle cleaning set, 10 piece (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35800)

Model	Δ_{kg}	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 - 1.0 mm (No. 35325) /		
1 - 2 mm (No. 35326), cutting tip 12 - 25 mm		
(No. 35341) / 25 - 50 mm (No. 35344)		
Steel case RE 17 (empty)	1.70	35800
RE 17 handle with burner coupling nut	0.47	35324
Coupling: oxygen G 1/4" RH, gas G 3/8" LH		



RE 17 welding attachments

	Welding range mm	$\sqrt[]{g}$	No.
Welding attachment	0.5 - 1.0	140	35325
Welding attachment	1.0 - 2.0	150	35326
Welding attachment	2.0 - 4.0	170	35327
Welding attachment	4.0 - 6.0	190	35328
Welding attachment	6.0 - 9.0	220	35329
Welding attachment	9.0 - 14.0	260	35334



RE 17 welding attachments, bendable

Pipe welding attachment, complete

Flexible copper tips

Welding range mm	$\sqrt[]{g}$	No.	Welding range mm	$\sqrt[]{g}$	No.
			1.0 - 2.0	40	35475
2.0 - 4.0	140	35347	2.0 - 4.0	40	35476
4.0 - 6.0	150	35348	4.0 - 6.0	50	35477



RE 17 wing-lever cutting attachment

Model	ΔgΔ	No.
Cutting attachment without tips	820	35338

RE 17 cutting tips and heating burners

Model	Cutting range mm	ΔgΔ	No.
Cutting tip	12 - 25	10	35341
Cutting tip	25 - 50	20	35344
Cutting tip	50 - 100	20	35345
Heating burners	12 - 100	50	35339



Accessories soldering & welding



Oxy-acetylene hoses

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

Oxygen hoses

<u>L</u> m	Inlet	Outlet	Internal Ø x Wall thickness	$\sqrt[]{\log \Delta}$	No.
2.5	G 1/4" RH	G 1/4" RH	4 x 3.5	0.5	35210
5.0	G 1/4" RH	G 1/4" RH	4 x 3.5	1.1	33311

Dual hoses A/O

m	Inlet/Outlet Oxygen	Inlet/Outlet Acetylene	Interior Ø x Wall thickness	$\sqrt[]{\log \Delta}$	No.
2.5	G 1/4" RH	G 3/8" LH	6.3 x 3.5	0.9	35221
5.0	G 1/4" RH	G 3/8" LH	6.3 x 3.5	2.0	35222
10	G 1/4" RH	G 3/8" LH	6.3 x 3.5	3.8	35223



Protective bracket included in delivery for steel cylinders without cap,



The bottle colors shown are without obligation! Fig. similar

Lightweight steel cylinders, filled

With cylinder valve and cap (5 I and 10I), TÜV tested in accordance with TRGI

Model	Fi Contents	lling pre bar	ssureHeight mm	Ø mm		$\sqrt{\log \lambda}$	No.
Oxygen Oxygen	950 ml 2 l	110 200	340 420	70 110	12	1.33 4.6	35750 35635
Oxygen	5	200	595	145		14.0	35188
Oxygen	10 l	200	980	145		17.0	35189
Acetylene Acetylene		18 18	595 980	145 145		13.0 23.0	35178 35179



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	$\sqrt[]{\log \Delta}$	No.
Transport trolley for	8.9	35354
= (40)		

5 / 10 l acetylene / oxygen cylinders

7

Accessories soldering & welding

Cylinder pressure reducer

Robust pressed brass construction according to EN ISO 2503 with large pressure gauge according to ISO 5171, with shut-off and safety valves. Acetylene cylinder pressure reducer with bow coupling according to DIN 477-1

Cylinder contents bar	Working press bar	sure Inlet	Outlet	$\Delta_{kg}\Delta$	No.
Oxygen 0 - 200	0 - 10	G 3/4"RH	G 1/4" RH	1.4	35634
Acetylene 0 - 40	0 - 1.5	Bow	G 3/8" LH	1.6	35794

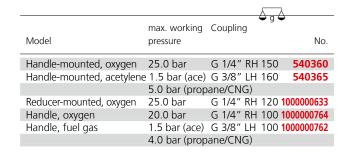




Fig. similar

Blowback prevention

Safety devices (flashback arrestors) according to EN 730-1 and ISO 5175-1, type tested, with flame arrestor (FA) and non-return valve (NV). No. 540360 and No. 540365 are additionally equipped with a temperature-sensitive cut-off valve (TV) and filter





No. 1000000633



No. 540360



No. 1000000764



No. 1000000631



No. 540365



No. 1000000762

Protective rubber cap

With slot, open

Model	Color	Δgδ	No.
For oxygen pressure reducer For acetylene pressure reducer	blue yellow		511427 511428



Oxygen refilling bend

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

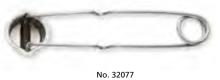
Model	$\Delta_{g}\Delta$	No.
max. 200 bar, cylinder coupling G 3/4"	360	35199



Safety igniters

Powerful spark, wear-free hard alloy friction surface

Model	ΔgΔ	No.
Safety igniter	60	32077
Replacement flints, tin, 5 pcs.	15	32088



No. 32088



Magnet welding mirror

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



Burners cleaner

Model	$\Delta_{g}\Delta$	No.
Burners cleaner, in folding case, 11 pcs.	20	510105



Torch spanner

Model	$\Delta_g \Delta$	No.
With 10 wrench sizes	210	510106



Soldering flux and container for hydrochloric acid

Model	$\Delta_g \Delta$	No.
With screw cap retaining band for 150 ml content	40	530250



Welding goggles EN 166

With thermal glasses as per EN 169

Model	Glas	$\langle g \rangle$	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
Replacement glass (Ø 50 mr	n) A 4	30	540675

Accessories soldering & welding

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 (10 pcs.)	80	45268
ROVLIES counter display (36 pcs.)	2,180	045268D





Internal brushes for copper pipe

For fast cleaning of the soldering surface with rugged plastic handle

mm	ΔgΔ	No.
12	80	854181
15	100	854183
18	120	854185

mm	√ g ∆	No.
22	140	854186
28	140	854187



Fig. similar

Hand wire brushes

Model	Number of rows	ΔgΔ	No.
Standard steel	3 rows	130	561351



Welding blanket

Flame and heat resistant up to 840 °C

- Permanent heat resistance up to 700 °C by direct flame contact and molten slag
- Good formability, long service life, asbestos-free and poses no health hazard
- Bonded edges

Thickness: 2.8 mm Weight: 1,600 g/m²





Model	LxWxH	$\sqrt[]{g}$	No.
Welding blanket	500 x 330 x 3 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

Model	mm	mm	$\Delta_g \Delta$	No.
65 / 15 65 / 23	65 65	8 – 15 15 – 22	100	31042
65 / 22	65	15 – 22	100	31043

Bonding

Accessories soldering & welding

Fitting soft solder according to EN standard

Standard	Solder composition	Melting	Suitable for soft soldering in the plumbing industry		Recommended heat source	
type according to EN 9453	in weight %	range °C	Pipe material	Fittings material	Recommended flux according to EN 9454-1	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 burners

Standard solder according to EN ISO standard

Standard	Solder	Melting	Working	Suitabl	e for installation t	echnology brazing	Recommended flux	Recommended heat source
type according to ISO 17672	composition in weight %	range °C	temperature °C	Pipe material	Fittings material	Flux	according to EN 1045	
CuP 179	Cu 94 / P 6	710 - 890	760	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
CuP 279	Ag 2 / Cu 91,8 / P 6,2	645 - 825	740	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 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 dispersion burners
CuP 281	Ag 5 / Cu 89 / P 6	645 - 815	710	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
CuP 284	Ag 15 / Cu 80 / P 5	645 - 800	700	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
Ag 134	Ag 34 / Cu 36 / Zn 27,5 / Sn 2,5	630 - 730	710	Steel Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 or LP 5	
Ag 145	Ag 45 / Cu 27 / Zn 25,5 / Sn 2,5	640 - 680	670	Steel Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 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 2 S 5 S 15	630 °C - 730 °C 710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	710 °C 760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former 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	EN ISO 17672 (former DIN EN 1044)
Copper-Brass	S 94 S 2 S 5 S 15	710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former 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	EN ISO 17672 (former DIN EN 1044)
Brass-Brass	S 94 S 2 S 5 S 15	710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former 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	EN ISO 17672 (former DIN EN 1044)

 $^{^{\}rm 1)}\,\mathrm{MAPP}$ is a registered trademark of the MESSER Group GmbH, Bad Soden



Accessories soldering & welding

Fittings solders

Quality soft solders according to EN 9453 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-Sn97Ag3, melting range 221 °C - 240 °C, for use with ROSOL 1 S fittings solder paste

Solder wire Ø	Description	$\Delta_g \Delta$	No.
2 mm	250 g coil	270	45252
3 mm	250 g coil	270	45250



Quality soft solder, S-Sn97Cu3, melting range 230 °C - 250 °C, for use with ROSOL 3 fittings solder paste

Solder wire Ø	Description	$\Delta_g \Delta$	No.
2 mm	250 g coil	270	45257
3 mm	250 g coil	270	45255





ROSOL soldering paste

Quality soft soldering flux according to EN ISO 9453 and 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	$\Delta_{g}\Delta$	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	ΔgΔ	No.
ROSOL 3 in plastic bottle 250 g	270	45225

Fittings soft solder flux

According to EN ISO 9454-1-3114, 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 and GW 7, also suitable for general-purpose soldering work.

Model	$\Delta_{g}\Delta$	No.
Fittings soft solder flux in plastic jar 35 ml	35	45266



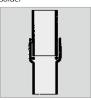
Accessories soldering & welding



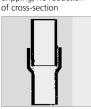
Simple insertion



Precise quantity of solder



Simply heat, no dripping, no reduction of cross-section



Hard solder rings S 2

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

KEY FEATURES

- Ideal for capillary soldering with copper pipe installation in sanitary and heating systems
- Matched precisely to the inner pipe diameters of expanded sockets and fittings according to EN 1254
- Complete wetting of soldering gaps
- Particularly efficient working through precise solder quantity
- No preparatory or rework of the soldered joint

TECHNICAL DATA

Alloy (weight %):

Melting range:

Joinable materials:

Use of flux with:

Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest
650 °C - 810 °C
Copper, gunmetal, brass, bronze
Gunmetal, brass, bronze with

hard solder paste LP 5 **Package size:** 250 g plastic bag

Model app	orox. Content rings	ΔgΔ	No.
Hard solder rings S 2, Ø 14 mm		260	40514
Hard solder rings S 2, Ø 15 mm		260	40515
Hard solder rings S 2, Ø 28 mm	79 pcs.	260	40528



Hard solder paste LP 5

Flux for hard soldering at working temperatures above 600 °C, according to EN 1045, type FH 10, DVGW tested Reg.-No. DV-0101-AT2245, for gas and water installations with copper pipes, recommended by DVGW in accordance with worksheets GW 2 and GW 7, hard solders with silver content and usable with any basic materials of steel, copper and copper alloys, brass and gunmetal, working temperature range 500 °C - 800 °C, flux residues must be removed carefully

Model	Content	Δgδ	No.
LP 5 in plastic bottle 160 g	160 g	180	40500



Hard solder powder HKM

Flux for hard soldering at working temperatures above 800 °C, according 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.

Model	Content	\sqrt{g}	No.
HKM in plastic bottle	50 g	65	35611

7

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 (except S34 and S45)
- Manufactured with new, environmentally compatible technology, corrosion neutral, scale-free, improved flow properties



ROLOT S 94 CuP 179

Quality hard solder **guaranteed according to EN ISO 17672**, due to low phosphorus content, the solder has a wide melting range, and creates soldered joints with increased strength. Standard solder for normally-stressed copper pipe installation, especially for capillary soldering with copper pipe installation without fittings



Alloy (weight %): Cu 94 / P6
Melting range: 710 - 890 °C
Working temperature: 760 °C

Joinable materials: Copper, gunmetal, brass, bronze
Flux required with: Gunmetal, brass, bronze with LP 5



Content	Squared section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	40094

ROLOT S 2

Special quality hard solder, not standardised, **similar to EN ISO 17672**, with low silver content, matched to normally-stressed copper pipe system, ideal for capillary gap soldering



TECHNICAL DATA

Melting range: 700 - 850 °C Working temperature: 750 °C

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP 5

Content	Square section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	40202

ROLOT S 2 CuP 279

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



TECHNICAL DATA

Alloy (weight %): Ag 2 / Cu 91.8 / P 6.2 Melting range: $645 - 825 \,^{\circ}\text{C}$ Working temperature: $710 \,^{\circ}\text{C}$

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

Content	Square section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	40212
1 kg carton	3 x 3	500	1,025	40213

Accessories soldering & welding

ROTHENBERGER ROLOT S 5

ROLOT S 5

Particularly high-quality hard solder, not standardised, **similar to EN ISO 17672**, with low silver content, ideal for capillary and joint soldering in sanitary, heating and gas installations

Content	Square section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	40502

TECHNICAL DATA

Melting range: 710 - 840 °C Working temperature: 750 °C

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5



ROLOT S 5 CuP 281

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



TECHNICAL DATA

Alloy (weight %): Ag 5 / Cu 89 / P 6 Melting range: 645 - 815 $^{\circ}$ C Working temperature: 710 $^{\circ}$ C

Joinable materials: Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard

solder paste LP5



Content	Square section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1,025	40015

ROLOT S 15 CuP 284

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

TECHNICAL DATA

Alloy (weight %): Ag 15/CU 80/P5
Melting range: 645 - 800 °C
Working temperature: 710 °C

Joinable materials: Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard

solder paste LP5

Accessories soldering & welding

Silver hard solders Ag 134 S 34 Cu U flux-covered

Free of cadmium, quality silver hard solder guaranteed according to EN ISO 17672, flux-covered according to EN1045 FH 10, universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C

TECHNICAL DATA

Alloy (weight %): Ag 34 / Cu 36 / Zn 27.5 / Sn 2.5

Melting range: 630 °C - 730 °C

Working temperature: 710 °C

Joinable materials: Steel, malleable cast iron, copper,

gunmetal, copper and nickel alloys

Content	► ○	∆ _g ∆	S 34 U No.
100 g plastic bag	2	110	44915
250 g plastic bag	2	260	44916
1000 g plastic bag	2	1,010	44917



Silver hard solders Ag 145 S 45 Cu / S 45 Cu U flux-covered

Free of cadmium, quality silver hard solder, guaranteed according to EN ISO 17672, flux-covered according to EN 1045, Type FH 10, universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C

TECHNICAL DATA

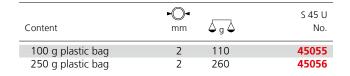
Alloy (weight %): Ag 45 / Cu 27 / Zn 25.5 – 3.5 / Sn 2.5 **Melting range:** 640 °C - 680 °C

Melting range: 640 °C - Working temperature: 670 °C

Joinable materials: Steel, malleable cast iron, copper,

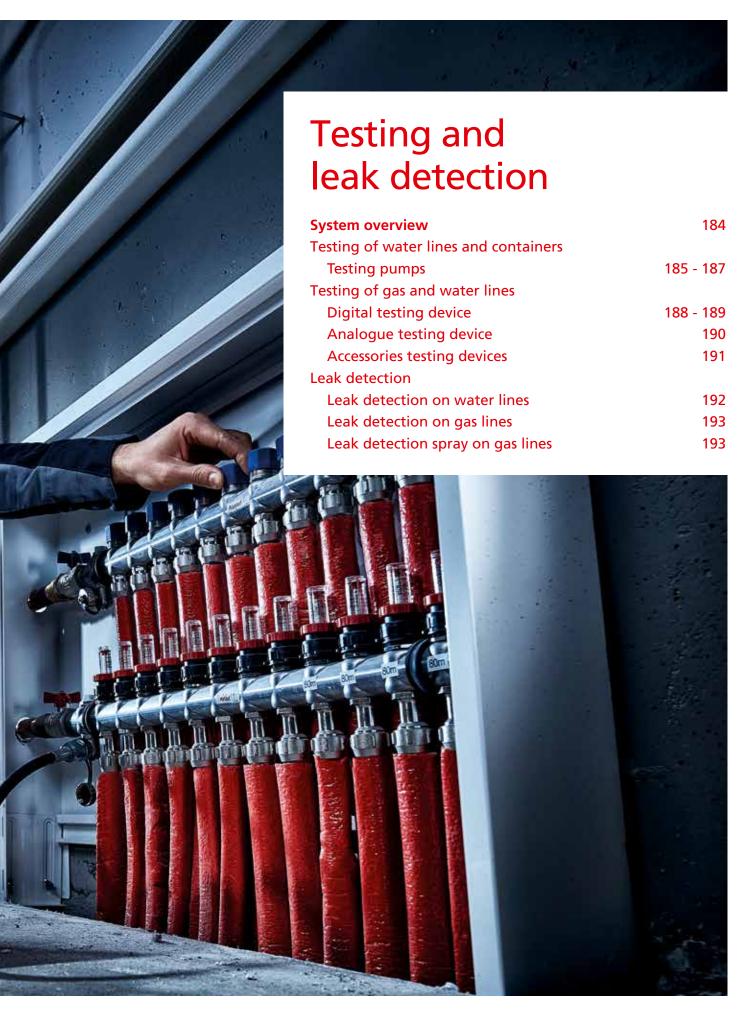
gunmetal, copper and nickel alloys,

stainless steel









System overview

Precision testing pumps manual





TP 25



Testing and pressure range:	0 - 60 bar	0 - 25 bar	0 - 30 bar
Hub suction capacity:	45 ml / stroke	16 ml / stroke	16 ml / stroke
Tank capacity:	12 l	7 I	4.5
Connection:	R1/2"	R1/2"	R1/2"
Dimension:	495 x 165 x 255 mm	380 x 215 x 156 mm	440 x 200 x 240 mm
Weight:	8 kg	4.6 kg	4.5 kg
Material:	DURAMANT coated steel	DURAMANT coated steel	ABS plastic
Valve:	Twin-valve	Twin-valve	-
Pressure gauge units:	bar, psi, Mpa	bar, psi	bar, psi
Suitable for:	Oil, water and glycol	Oil, water and glycol	Oil, water and glycol

Page 185 187 187

Testing pumps electric



Analogue / digital testing device for gas and water connections





Testing and pressure range:	0 - 40 bar	Pressure range:	0 - 180 mbar	0 - 1,000 mbar
Flow rate:	6 l / min.	Low pressure sensor	(resolution 0.1 mbar)	(resolution 0.1 mbar)
Tank capacity:	-	Pressure range:	0 - 4 bar	0 - 20 bar
Connection:	R1/2"	High pressure sensor	(resolution 0.1 bar)	(resolution 0.01 bar)
Dimensions:	375 x 290 x 300 mm	Leak rate measurement:	-	0 - 12 L/h
Weight:	16 kg	Display resolution:	-	480 x 272
Material:	ABS plastic	Data transfer:	-	WLAN, USB
Valve:	Single valve	Battery life time:	-	Approx. 8 h testing time
Pressure gauge units:	bar, psi, Mpa	Safety class:	-	IP40
Gauge characteristics:	Glycerine cushioned	Weight:	7.3 kg	5.25 kg
Suitable for:	Oil, water and glycol			
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Testing of water lines and 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

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

Adjustment of the pressure gauge with 0.1 bar scaling is possible!





TECHNICAL DATA

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

Tank capacity: 12 |

495 x 165 x 255 mm

Dimensions (L x W x H): Connection:

R 1/2"

Container RP 50-S: Container RP 50-S INOX: Steel, DURAMANT coated Stainless steel

Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

ROTHENBERGER

No. 60200

Additional pressure gauge with fine scaling 0.1 bar optional

Enables very precise readings up to a range of 16 bar (No. 61316)

Hook to fix the handle

Improved carrying comfort

TWIN VALVE-System

Two valves for double safety while testing the

system

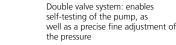
5 year warranty against corrosion

Precise measurement

Testing hose with steel mesh

Extrem durable DURAMANT coating







Optional: Extra fine scaling Pressure gauge for the testing of systems up to 16 bar with a 0.1 scaling



Model	$\Delta_{kg}\Delta$		No.
RP 50-S testing pump	8	1	60200
RP 50-S INOX (stainless steel) testing pump	8 c	1	60203

No. 60203

ROTHENBERGER

ACCESSORIES

Model	\sqrt{g}	No.	Model	$\sqrt[4]{g}$	No.
Maintenance package	100	60201	High pressure hose with 1/4" connection	490	R6112500
Double nipple 1/2" to 3/4"	100	60999	Extra 16 bar pressure gauge	100	61316

Testing of water lines and containers

RP PRO III

Self-priming electric testing pump up to 40 bar

ABS ABS



Product profile

APPLICATION AREA

Electrical testing pump for the automatic pressure testing of piping and containers up to 40 bar in accordance with national and international standards

KEY FEATURES

- Comfortable, automatic filling and pressure testing of piping and containers
- Compact and robust plastic casing for simple handling at the building site
- Liquid supply freely selectable: optional self-priming up to a maximum of 1 m or from a pressure source. Suitable for oil, water and glycol
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Glycerine cushioned pressure gauge absorbs pressure surges which makes pressure reading easier

TECHNICAL DATA

Flow Rate:

Testing and pressure range: 0 - 40 bar, with 1 bar steps

0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps

0 - 0.1 MPa steps max. 6 l / min

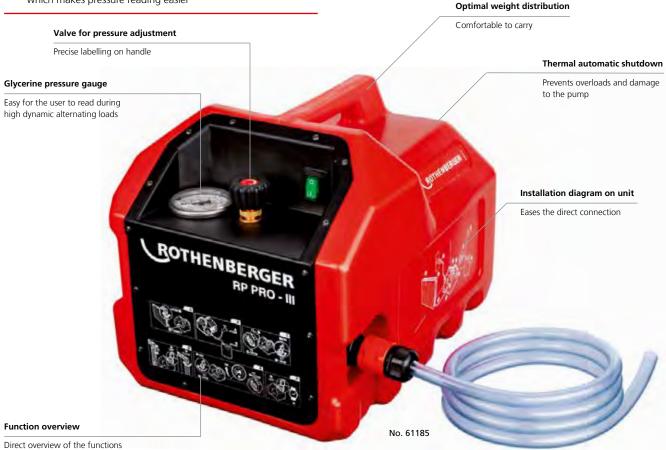
Dimensions (L x W x H): 375 x 290 x 300 mm

Connection: R 1/2"

Mains voltage: 220 - 240 V / 50 HZ and

110 V / 50 - 60 HZ

Performance: 1.3 kW **Container:** ABS-plastic



Model	$\Delta_{kg}\Delta$	110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose	16.0	V12110016	61185
and 1/2" connection, filling hose			
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4	V12 ⁻	102000
Maintenance package RP PRO III			61186
in scope of delivery			



Testing of water lines and containers

TP 25

Small, robust precision testing pump for pressure testing up to 25 bar

Product profile

APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction as well as for industrial containers up to 25 bar in accordance with international and national standards

KEY FEATURES

- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Weather and cold-resistant steel container with DURAMANT coating

TECHNICAL DATA

Testing and pressure range: 0 - 25 bar

Hub suction capacity: approx. 16 ml / stroke **Dimensions (L x W x H):** 380 x 215 x 156 mm

Connection: R 1/2"

Container: Steel, DURAMANT coated







For the daily work on site



Model	Pressure range $\sqrt[]{\log \Delta}$		No.
Testing pump TP 25	up to 25 bar 4.6	1	60250
Maintenance package	TP 25		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	up to 30 bar 4.5	1	61130
High pressure hose with	1/4" connection 0.4	R6 °	112500



Testing of gas and water lines

ROTEST GW Digital V3

Leakage testing system for gas and water lines with large 4.3" touchscreen display for an easy handling and integrated documentation of all tests up to 20 bar.

Only available in Germany, Austria & Italy











Product profile

KEY FEATURES

- 4.3" Touchscreen or physical buttons for an easy handling
- Pressure and leakage testing for gas pipelines according to TRGI 2018
- Leak rate measurement for gas pipelines according to TRGI 2018 and DVGW 5952
- Pressure and leakage testing for drinking water pipelines according to DIN EN 806-4
- Testing of gas pressure regulators
- Long-term measurement up to 72 hours
- RODATA Software and RODATA App for documentation and data managment of all test results

TECHNICAL DATA

Display resolution: 480 x 272 Data transfer: USB, WiFi

Battery life time: approx. 8 h testing time, mains operation possible

Pressure range:

Low pressure sensor: Pressure range 0 – 1,000 mbar

(resolution 0.1 mbar / hPa)

High pressure sensor: Pressure range 0 - 20 bar / 0 - 2 MPa (resolution 0.01 bar / 0.001 MPa)

Leak rate 0 - 12 l/h Leak rate measurement: (resolution 0.1 l/h)

Safety class: IP40 Weight: 5.25 kg

Only available in Germany, Austria and Italy!

WiFi transmitter

Easy data transfer to mobile devices and PCs

4.3" Touchscreen

Easy and clear handling



No. 1500002677



High- and low-pressure sensor from 1 mbar/hPa up to 20 bar / 2 MPa in one device

Pressure and leakage testing for gas pipelines according to TRGI 2018



Testing of gas pressure regulators



Set (No. 1500002677) includes:

GW Digital basic unit incl. power plug, software disk with RODATA V3 software (No. 1500002851), 2x hose 2m low pressure (No. 1500002846), 1x hose 2m high pressure + shut-off valve (No. 1500002845), 2x gas test plug cylindrical size 2 (No. 351272), 2x adaptor 1/2" to NW5 plug (No. 1500002876), adaptor 1/8" to NW5 plug (No. F84215), adaptor nozzle pressure to NW5 plug (No. 61018), air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017), supply end cap (No. 61041)

ROTEST GW Digital V3 – Set gas / water

Only available in Germany, Austria & Italy

1500002677

No.





Testing of gas and water lines

ROTEST GW Digital V3 - RoData V3 PC-Software

PC software for data management of all tests carried out

Product profile

KEY FEATURES

- Creation of a log with graphical representation of the test process
- Management of measurement data overview of all measurements stored per customer
- Customer administration import of VCard files (.vcf) possible
- Testing management clear allocation of one employee per test
- Data transmission via USB cable or WiFi connection possible

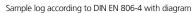
TECHNICAL DATA

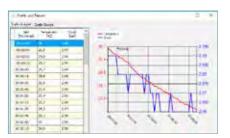
RoData V3 PC-Software:

Compatibility: Windows 2000, XP, 7, 8, 10

Size: 16.2 MB







Overview of measurement series with graph

Management of measurement series = RoData V3

ROTEST GW Digital V3 - RoData Mobile App

App for the data management of all tests carried out

Product profile

KEY FEATURES

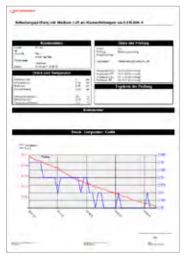
- Simple, quick and professional documentation
- Log ready for immediate use as a PDF
- Suitable for iOS and Android devices
- Measurement data transfer via WiFi
- User-defined company profile set-up in the log
- Ready-made logs for various measurement types (leak testing, usability testing, etc.)

TECHNICAL DATA

RoData Mobile App:

Compatibility: iOS 8.0 or newer, Android 4.4 or newer

Size: 11 MB



Sample log according to DIN EN 806-4 with measurement value table



Measurement overview RoData Mobile App



Start screen RoData Mobile App

Analogue testing device for gas and water connections using air as the medium



Product profile

APPLICATION AREA

Analogue testing unit for the implementation of the following tests:

Load and leakage test for newly installed gas lines in accordance with DVGW-TRGI worksheet G 600

(October 2018)

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

Pre-testing and testing of newly installed drinking water 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

Continuous scaling up to 150 mbar

Legible scaling

Measurement chart in unit

Testing times and testing pressure from lawmakers at a glance

Foam inlay

High transport safety and protection of the components

Compact measuring station Designed to serve in real-life situations through quick, exact gas pressure measurements

DVGW-TRGI worksheet G 600 (October 2018) conforming!



Testing scale up to 150 mbar on transparent extending tube element





TECHNICAL DATA

Pressure gauge:

Testing accuracy:

Water column:

4 bar / 0.4 MPa

180 mbar / hPa

Water column 0.1 mbar / hPa

(Reading accuracy in accordance with TRGI)

Pressure gauge 0.1 bar / 0.01 MPa

(Display range 0 - 4 bar / 0 - 0.4 MPa)

Transparent tube element with double o-ring seal



 $\Delta_{kq}\Delta$ Model in combination with basic unit No. with 5 test plugs and supply end cap 7.6 61700 with 5 test plugs without supply end cap 7.3 61701

Testing of gas and water lines

Set components

Model	\sqrt{g}	No.
Pressure pump ROTEST GW 150/4	0.30	61011
Bellow f. ROTEST GW 150/4	0.06	61014
Shut-off valve NW5 socket/plug	0.20	61017
Adaptor nozzle pressure to NW5 plug	0.20	61018
O-ring set (6 pcs.) GW 150/4	0.04	61030
Supply End Cap f. ROTEST GW 150/4	0.38	61041
1/8" adaptor to NW5 plug	0.10	F84215
1/2" adaptor to NW5 plug	0.50	1500002876
Tube element (4 pcs.) GW 150/4	1.10	61702
Measurement fluid, blue, GW 150/4	0.10	351257
Hose 2 m high pressure + shut-off valve	0.20	1500002845
Hose 2 m low pressure ROTEST GW	0.20	1500002846
Double bellow GW Digital V3	0.10	1500002847
Air pump GW Digital v3	0.14	1500002848
CD RODATA V3 for ROTEST GW Digital V3	0.02	1500002851
Shut-off valve NW5 socket/socket	0.17	1500002852



Gas test plug / adaptorSuitable for gas lines up to 1.5 bar

	Steel exterior	Copper exterior	\sqrt{g}	
Model	pipe Ø inch	pipe Ø mm	∆ g ∆	No
Conical s	shape with pneum	natic connection		
Size 0	3/8 - 1/2"	15 - 18	45	351260
Size 1	1/2 - 1"	22 - 28	80	351261
Size 2	3/4 - 1.1/4"	35 - 42	125	351262
Size 3	1.1/4 - 2"	54 - 64	175	351263
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	\triangle g \triangle	No
Cylindric	al shape with pne	umatic connectio	n	
Size 1	3/4"	22	60	351271
Size 2	1"	28	75	351271
JIZC Z		20	75	331272
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	Δ g Δ	No
IVIOGEI	pipe & ilien	рірс в піп		110
	shape with hose o			
Size 0	3/8 - 1/2"	15 - 18	200	351220
Size 1	1/2 - 1"	22 - 28	300	351221
Size 2	3/4 - 1.1/4"	35 - 42	300	351222
Size 3	1.1/4 - 2"	54 - 64	400	351223
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	\triangle g \triangle	No
Conical	shape with 2 ball v	<i>y</i> alves		
Size 1	1/2 - 1"	22 - 28	260	351231
Size 2	3/4 - 1.1/4"	35 - 42	420	351232
Size 3	1.1/4 - 2"	54 - 64	700	351232
Size 5	1.1/4 - 2	34 - 64	700	331233
	Steel exterior	Copper exterior		
Model	Pipe Ø inch	Rohr Ø mm	$\Delta_{q}\Delta$	No
iviouei	ripe Ø ilicii	ווווו ש וווטא		INO
	shape with 1 ball v			
Size 0	3/8 - 1/2"	15 - 18	200	351225
Size 1	1/2 - 1"	22 - 28	350	351226
Size 2	3/4 - 1.1/4"	35 - 42	390	351227
Size 3	1.1/4 - 2"	54 - 64	600	351228
	ble plug valve - with	hose snout		
Model			$\Delta_g \Delta$	No
Adaptor/	cut-off valve with p	n connection	290	351265
, laaptoi/	cat on valve with p	71. CONTICCTION	230	33 1203



Testing of waste water lines

ROLEAK Aqua 3Plus

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

Product profile

KEY FEATURES

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





Acoustic leak detection of heating installations







KEY FEATURES

- Digital wireless connection to headphones
- Possibility to connect an external microphone
- Bluetooth connection for a better and clear noise transmission to headphones. This also allows to control the volume with the handunit

TECHNICAL DATA

Operating time:

Weight:

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

2. Stage: 540 - 4.000 Hz 3. Stage: 0 - 4.000 Hz ca. 15h Li-lon Battery 250 g (Handheld device)

Level of protection: IP 41

Improved sound compared with previous models!





6-parts Set (No. 1500003533) includes: basic unit, headphones, magnetic adaptor, 2 x extensionstick, tripod-adaptor, ROCASE 4414

Model	$\sqrt[b]{\log \Delta}$	No.
ROLEAK Aqua 3Plus	3.1	1500003533
External groundmicrophone	0.5	1500003535

Leak detection on gas lines

Natural gas, propane, butane, methane,

paint thinner, naptha, toluene

< 50 ppm – 1 Vol % (Methan)

acetone, alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel,

ROTEST Electronic 4

Leak detection on gas lines

Product profile

APPLICATION AREA

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

KEY FEATURES

- Leaks are optically as well as acoustically displayed
- With the help of the 42 cm long, flexible testing head and the integrated lamp, even dark and hard to reach places can be tested
- Quick and precise leak location of even the smallest leak source:
 The sensitivity of the unit can be adjusted continuously in a range from < 50 ppm 1 Vol %

 Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site



TECHNICAL DATA

Detects:

Sensitivity:

Finds leaks easily



Set (No. 1000003199) includes: ROTEST Electronic 4, 2x AA battery in ROCASE 4212 (No. 1300003334)

Model	$\Delta_{kg}\Delta$	No.
ROTEST Electronic 4	1.25	1000003199

ROTEST

Leak detection on gas lines

Product profile

APPLICATION AREA

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

KEY FEATURES

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

TECHNICAL DATA

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

Model	Content	\sqrt{g}		No.
ROTEST leak detection spray	400 ml	470	12	65000

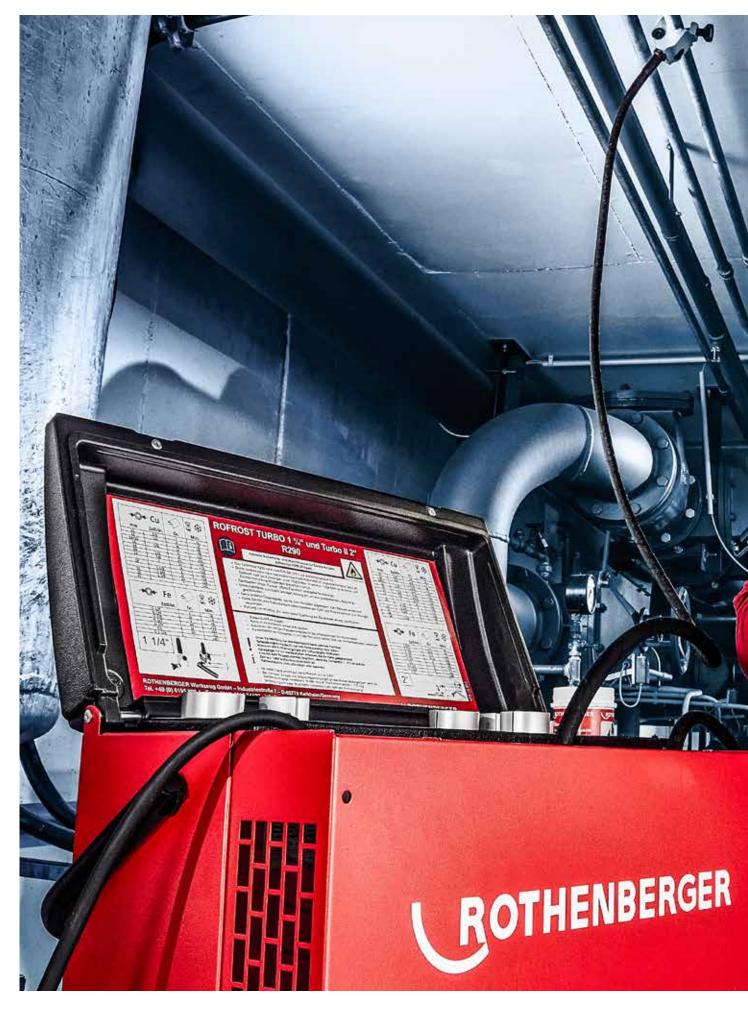
Highly sensitive foam spray: Quick and reliable location of leaks!





















Working range Cu:	10 - 42 mm (3/8 - 1.5/8")	10 - 54 mm (3/8 - 2.1/8")	10 - 54 mm (3/8 - 2.1/8")
Working range Fe:	1/8 - 1.1/4"	1/8 - 2"	1/8 - 2"
Reduction inserts:	up to 12 Stk.	up to 15 Stk.	up to 10 Stk.
Freezing hose:	2.5 m	2.5 m	2 m
Refrigerant:	R290	R290	CO ₂ (R 744)
Page	197	198	200

ROFROST Turbo R290 1.1/4" / ROFROST Turbo R290 2"

Pipe freezing system for copper, steel and stainless steel



Heat conductive paste

Enables freezing without continouse spraying of the pipe

Wide application area

A range of pipe sizes can be frozen using the supplied pipe inserts

The use of heat conductive paste guarantees optimal freezing



The freezing process starts automatically after installing the freezing clamps



Compact freeze clamp design allows the pipe



Freezing electric

ROFROST Turbo R290 1.1/4"

Pipe freezing system for copper, steel and stainless steel







Product profile

APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installations

Copper pipes: Ø 10 - 42 mm ROFROST Turbo R290 1.1/4"

Ø 3/8 - 1.3/8" ROFROST Turbo R290 1.1/4"

Steel pipes: Ø 1/8 - 1.1/4" ROFROST Turbo R290 1.1/4"

KEY FEATURES

- Future-proofed due to the change of the environmentally friendly refrigerant R290
- Compact freezing clamps and shortened thermometer allow working on confined spaces
- 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
- Reduction inserts in various sizes for all common pipe diameters



Model	$\sqrt[4]{\log \Delta}$	230 Volt 50 Hz
ROFROST Turbo R290 1.1/4"		
with reduction inserts size II, III, V, VII, IX, XII (see ROFROST reduction insert overview) + heat conductive paste	23.5	1500003000



Freezing electric

ROFROST Turbo R290 2"

Pipe freezing system for copper, steel and stainless steel





Product profile

APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installations

Copper pipes: Ø 10 - 54 mm ROFROST Turbo R290 2"

Ø 3/8 - 2.1/8" ROFROST Turbo R290 2"

Ø 1/8 - 2" ROFROST Turbo R290 2" Steel pipes:

KEY FEATURES

- Future-proofed due to the change of the environmentally friendly refrigerant R290
- Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen
- 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
- Reduction inserts in various sizes for all common pipe diameters



Model $\Delta_{kq}\Delta$ 230 Volt 50 Hz

ROFROST Turbo R290 2"

with reduction inserts size II, III, V, VII, IX, D, E, F (see ROFROST reduction insert overview) + heat conductive paste 1500003001 Expansion set for ROFROST Turbo with reduction inserts size II, III, V, VII 62230

additional sets upon request

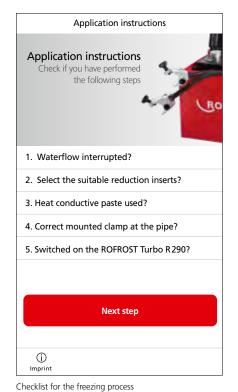


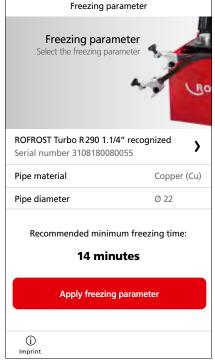
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ROFROST App

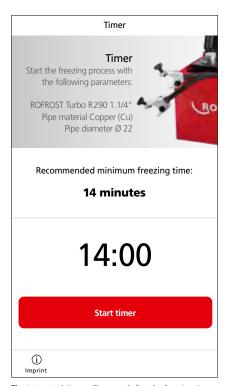
The ROFROST App supports safe work and the freezing process will be explained step by step.







The recommended freeze time is displayed by adjusting the material and diameter



The integrated timer will respond after the freezing time has elapsed

ROFROST Turbo reduction inserts





ROFROST Turbo 1.1/4" reduction inserts

Size	► Nominal size Cu	►O- 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 inserts

Size	Nominal size Cu	► Nominal size Cu	►O- Nominal size Fe	∑g ∆	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



freezing result

For a perfect

Heat conductive paste enables fully automatic freezing without spraying!

Description	Contents	ΔgΔ		No.
ROFROST heat conductive paste	150 ml	130	1	62291



ROFROST CO₂ 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!

TECHNICAL DATA

Ø 10 mm - 54 mm Copper pipes:

Ø 3/8 - 2.1/8"

Steel pipes: Ø 1/8 - 2"

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



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 Ø mm	for copper pipes Ø inch	for steel pipes Ø inch	$\sqrt[]{\log \lambda}$	No.
ĺ	10 - 54	1/2 - 2.1/8"	1/8 - 2"	4.9	65030



ROFROST Freezer Heads

Size	for copper pipes Ø mm	for copper pipes Ø inch	for steel pipes Ø inch	\sqrt{g}	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

Size	for copper pipes Ø mm	for copper pipes Ø inch	for steel pipes Ø inch	$\Delta_g \Delta$	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
10	-	-	2"	250	65044







ROSCOPE mini ROSCOPE mini







ROSCOPE i2000 modules



Application:	Hollow spaces	Hollow spaces	Ø 50-100 mm	Ø 40-100 mm	Locating of sondes
Display size:	2.5"	3.5"	3.5"	3.5"	3.5"
Touchscreen:	-	✓	✓	✓	-
Cable length:	1.2 m	1 m	16 m	22 m	-
Cable-Ø:	5.5 mm	9 mm	8.5 mm	5.5 mm	-
Camera head-Ø:	8.5 mm	17 mm	25 mm	25 mm	-
Self levelling:	180°	✓	✓	-	-
Transmitter:	-	-	✓	-	-
Frequency:	-	-	512 Hz	-	512 Hz, 640 Hz, 33 kHz
Picture format:	JPG	JPG	JPG	JPG	-
Picture resolution:	320 x 240 pixel	320 x 240 pixel	640 x 480 pixel	320 x 240 pixel	-
Video format:	-	AVI	AVI	AVI	-
Video resolution:	-	320 x 240 pixel	320 x 240 pixel	320 x 240 pixel	-
Storage:	On-board	SD-card	SD-card	SD-card	-
WiFi:	-	✓	✓	✓	-
Protocol feature:	-	-	-	-	-
Audio-recording:	-	✓	✓	✓	-
Data handling:	-	via app	via app	via app	-
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ROCAM 4 Plus





APP FOR SMARTPHONE AND TABLET
EDITING AND TRANSFERING
OF IMAGES AND VIDEOS.
AVAILABLE FOR IOS AND ANDROID!





ROCAM 4 Plus





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25 mm camera head:	-	-	40-100 mm
30 mm camera head:	Ø 70-150 mm	Ø 70-150 mm	-
40 mm camera head:	Ø 100-300 mm	Ø 100-300 mm	-
Display size:	10.4"	10.4"	10.4"
Touchscreen:	✓	✓	✓
Cable length:	30 m	65 m	8 m / 16 m
Metre counter:	✓	✓	✓
Cable-Ø:	7 mm	7 mm	5.5 mm
Self levelling:	✓	✓	-
Transmitter:	✓	✓	-
Frequency:	33 kHz	33 kHz	-
Picture format:	JPG	JPG	JPG
Picture resolution:	720 x 600 pixel	720 x 600 pixel	648 x 488 pixel
Video format:	AVI	AVI	AVI
Video resolution:	720 x 600 pixel	720 x 600 pixel	648 x 488 pixel
Storage:	SD-card	SD-card	SD-card
WiFi:	✓	✓	✓
Protocol feature:	✓	✓	✓
Audio-recording:	✓	✓	✓
Data handling:	✓	✓	✓

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ROSCOPE mini

A constant companion – by having an extremely compact design, it can be stowed tidily into every tool case. Minor works, like the inspection of hollow spaces are not a challenge anymore.

The combination of its robust construction with modern technology makes it a tool for every toolbox.

€





Product profile

APPLICATION AREA

The ROSCOPE mini is perfect for an easy and quick inspection of minor works. Blockages in drainages, pipelines, shower and bath connections, gutters and hollow spaces can be easily inspected.

KEY FEATURES

- Intuitive handling with the first touch
- The Ø 8.5mm camera head and the 120 cm camera cable are perfect for minor works and are maximizing the pace of work
- Electronical 180° rotation for the perfect perspective in every situation
- Waterproofed camera head
- Tool less mounting of accessories like the magnet or 90° mirror

TECHNICAL DATA

Dimensions: 152 x 90 x 40 mm

Display size: 2.5"
Cable length: 1.2 m
Cable-Ø: 5.5 mm
Cable head-Ø: 8.5 mm
Leveling: 180°
Storage: 30 pictures

Ø 8.5 mm waterproof

Perfect working conditions in small diameters

1.2 m camera cable

For quick and easy inspection

180° rotatable picture

Adjustable illumination

7 light levels for best lighting conditions

Fast and precise analysis on a 2.5' display with triple zoom



Self-explanatory service in live and review mode



Included belt clip

Comfortable wear



Space-saving storage

Camera cable can be easily wound up around the housing

Accessories included

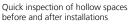
Integrated magnet for catching metal pieces and mirror for the perfect view in a 90° bow







Mirror-accessory





Always ready to hand, due to handy belt clip



Set (No. 1000002268) includes: ROSCOPE mini basic unit, mirror and magnet accessories, 4x AA batteries, ROBOX B2350 (No. 1500002641)

Model No.

ROSCOPE mini set 1000002268



Inspection and locating

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

Display: 3.5" touchscreen (color)

Wifi USB

Video format: AV

Picture format: JPEG, 320 x 240 pixels **Connection:** Mini-USB, AV-Out, SD-card slot **Power supply:** Li-lon battery 3.7 V / 5.2 Ah

Compatible connection

Previous ROTHENBERGER modules can be used

WiFi

Easy data transfer to mobile devices

SD-card slot

Memory space for audio, video and image data

Integrated microphone

Integrated speaker

For audio playback

THENBERG LIHON

Powerful Li-Ion battery

For an extra long battery life and short charging times

Versatile and user-friendly!

3.5" touchscreen

320 x 240 pixel resolution (JPEG)

Ergonomic handling

Function keys arranged closely together

Slip-free handle

For comfortable and effort saving operation - even over long periods of time

Modular concept:

4 different modules for the ROSCOPE i2000 basic unit, for visual inspection of pipes and hollow spaces as well as locating of pipes and sondes.

Module TEC

Self-leveling camera for the inspection of hollow spaces and hard to reach areas



Module 25/16 and 25/22

Waterproof pipe module for pipe inspection in 90° bends from Ø 40 mm to 100 mm



Module ROLOC PLUS

Easy to use pipe and sonde locating device incl. precise depth measurement





Video inspection

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 208)

Camera head: Ø 17 mm, **self-leveling** and waterproof,

with 4 LED lights

Brightness: 100 LUX (0.5 m)

Cable length: 1 m

Power supply: Li-lon battery 3.7 V / 5.2 Ah

Weight: 0.9 kg

Set ROSCOPE i2000 module TEC (No. 1500000696) includes: ROSCOPE i2000 basic unit, module TEC, charger, ROCASE 4212, foam inlay

Model No.

ROSCOPE i2000 module TEC 1500000696

Module TEC (without basic unit) 69601



Inspection of hollow spaces



Camera head with high-performance LEDs



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

Display: 3.5" touchscreen (color) (technical data

about basic unit available on page 192) Ø 25 mm, waterproof, with 8 LED lights

Camera head: Ø 25 mm, water Brightness: 100 LUX (0.5 m)

Cable length: 22 m Cable diameter: 5.5 mm

Power supply: Li-lon battery 3.7 V / 5.2 Ah

Weight: 3.1 kg

Set ROSCOPE i2000 module 25/22 (No. 100000860) includes: ROSCOPE i2000 basic unit, module 25/22, module TEC, charger, plastic carrying case

ROSCOPE i2000 module 25/22 + module TEC
Module 25/22 (without basic unit)
Guidance ball for module 25/16 and 25/22

74629

Cable length: 22 m!











Inspection of rain downpipes

No.



Inspection of floor drains



Model

ROSCOPE i2000 module 25/16

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







Product profile

KEY FEATURES

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 50 mm
- Can be used with guidance ball up to Ø 100 mm
- Self-leveling picture
- Integrated transmitter for the precise locating of the camera head
- ROSCOPE i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module

TECHNICAL DATA

Display: 3.5" touchscreen (color) (technical data

about basic unit available on page 208)

Camera head: Ø 25 mm, self-leveling and waterproof,

with 4 extra bright LED lights

Brightness: 125 LUX (0.5 m)

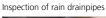
Cable length: 16 m Cable diameter: 8.5 mm Frequency: 512 Hz

Power supply: Li-Ion battery 3.7 V / 5.2 Ah, 2 AA batteries (transmitter)







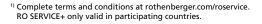




Set ROSCOPE i2000 module 25/16 (No. 1000000842) includes: ROSCOPE i2000 basic unit, module 25/16, module TEC, charger, plastic carrying case

Model No.

ROSCOPE i2000 module 25/16 + module TEC 1000000842 Module 25/16 (without basic unit) 1500000052 Guidance ball for module 25/16 and 25/22 74629





No. 74629



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

Display: 3.5" touchscreen (color) (technical data

about basic unit available on page 208)

Frequencies: 512 and 650 Hz, 33 kHz active/passive,

50/60 Hz passive

Power supply: Li-lon battery 3.7 V / 5.2 Ah **Dimensions:** 95 x 32 x 30 cm (operating mode)

67 x 32 x 9 (transportation mode)

Weight: 1.4 kg



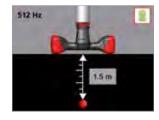
Easy to use pipe and sonde locating device incl. precise depth measurement



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



Depth measurement with a push of the button



Set ROSCOPE i2000 module ROLOC PLUS (No. 1000000065) includes: ROSCOPE i2000 basic unit, module ROLOC PLUS; module TEC, charger, plastic carrying case

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

Video inspection

ROSCOPE i2000 and ROCAM 4 Plus app

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

R



Product profile

KEY FEATURES

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

TECHNICAL DATA

ROSCOPE i2000:

Compatibility: iOS 5.1 – iOS 13.0, Android 4.0 or newer

Size: 4.1 MB

ROCAM 4:

Compatibility: iOS 8.1 or newer, Android 4.0 or newer

Size: 12 MB

Live Image



Editing Display



Album



Picture and video
Album recording

Settings / notes

Editing

Change to edit settings

- Color palette
- Pen and rubber
- Text
- Rectangle, circle, arrow



Available for iOS (until version 13.0) and Android!



Inspection of basin drains



Sending of edited pictures directly from the place of action

Inspection camera for pipes from Ø 40 - 300 mm with 30 or 65 m cable length, with integrated software for documentation and large removable 10.4" touchscreen.

Product profile

KEY FEATURES

- Picture editing, change of camera settings and menu guidance via the 10.4" color-touchscreen
- Direct recording of pictures (JPG) or video (AVI, resolution 720 x 600) as well as editing options (e.g. documentation
- Fast data recording with integrated keyboard to mark, highlight and name damages
- Picture and video transmission via WiFi, Micro-HDMI, Mini-USB, SD-Card
- Livestream of picture and data via WiFi to the ROCAM 4 app
- Self-levelling and exchangeable camera heads
- Exchangeable reels for various working ranges
- New platform based battery technology















TECHNICAL DATA

Picture and video format: JPG / AVI (resolution 720 x 600) Ø 25 mm, waterproof with 8 LEDs Camera head:

Ø 30 mm, self-levelling and waterproof

with 10 LEDs

Ø 40 mm, self-levelling and waterproof

with 36 LEDs

Ø 40 - 100 mm (mini-module) Working range:

Ø 70 - 150 mm (30 mm camera head) Ø 100 - 300 mm (40 mm camera head)

Cable length: 30 m version

65 m version

8 m mini-module (optional)

Cable diameter: 7 mm (30 m und 65 m reel)

5.5 mm (mini-module)

Transmitter frequency: 33 kHz

Power supply: Li-lon battery 18 V/4 Ah

Main adaptor 110 - 230 V, 50 - 60 Hz

(optional)

WiFi transmitter

Simple data transmission to mobile devices

Li-lon battery 18V/4.0 Ah (same as ROMAX 4000)

Long battery operation time (up to 6 hours)

Removable display unit with

10.4" color-touchscreen

Full functionality, even in confined spaces



Precise determination of distance to camera head

Exchangeable reel system 30 m/8 m

Large operating range from Ø 40 mm pipe diameter

Integrated speakers

Direct audio replay

Cover protected connections for SD-Card, Micro-Hdmi, Mini-USB



Locating with ROSCOPE module ROLOC PLUS



Please note: This machine cannot be upgraded to a 65m cable.

Integrated microphone Voice recording for

documentation possible

Set (No. 1500002613) includes: ROCAM 4 Plus - 30 m cable, Ø 30 mm camera head, guidance ball, accessory bag including location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

Model No.

ROCAM 4 Plus - 30 m cable, 30 mm head, EU 1500002613 ROCAM 4 Plus - 30 m cable, 40 mm head, EU 1500002614



Inspection camera for pipes from Ø 40 – 300 mm with 65 m cable length, with integrated software for documentation and large removable 10.4" touchscreen.



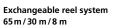












Large operating range from Ø 40 mm pipe diameter



Transport trolley with extendible handle

Comfortable transport over long distances

Set (No. 1500002615) includes: ROCAM 4 Plus - 65 m cable w/ transport trolley, Ø 30 mm camera head, guidance ball, accessory bag including: location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

Model No.

ROCAM 4 Plus - 65 m cable, 30 mm head, EU

ROCAM 4 Plus - 65 m cable, 40 mm head, EU

150002615
150002616





Transport trolley with extendible handle



ROCAM 4 Plus mini module

Easy extension of the working range of the ROCAM 4 for pipes Ø 40 – 100 mm

Product profile

KEY FEATURES

- Professional inspection of small pipe diameters
- Easy handling due to Exchange reel system

TECHNISCHE DATEN

Camera head: Ø 25 mm, waterproof with 8 LED lights

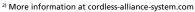
Working range: Ø 40 - 100 mm

Cable length: 8 m / 16 m

Cable diameter: 5.5 mm

Model No.

ROCAM 4 Plus mini module, 16 m cable 1500003296



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 RO SERVICE+ only valid in participating countries.









Product-profile

KEY FEATURES

Excellent brightness:

- The ROCAM camera head Ø 30 mm has over 10 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 10 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

Always an upright picture!



Excellent illumination



Pressure tight screw slip-ring connection



High flexibility and durability



Camera head Ø 40 mm

Mountable transmitter



Model No.

Camera head Ø 30 mm 1500000123

Model

1500000122

No.





Rolling skids

Recommended for distances from 10 m

APPLICATION AREA

Rolling skids RS40/150 for pipe diameters \emptyset 150 - 200 mm Rolling skids RS40/200 for pipe diameters \emptyset 200 - 300 mm

KEY FEATURES

- Optimized view of the pipe section
- Less pushing resistance with the fully rubberized wheels



Model	ΔgΔ	No.
For camera heads Ø 40 mm:		
Rolling skids Ø 150 mm	700	69118
Rolling skids Ø 200 mm	700	69119
For camera head Ø 30 mm··	700	69118

Brush attachments

To improve the overview in pipes from Ø 100 - 200 mm

APPLICATION AREA

Adapter Ø 30 to Ø 40mm

Brush attachment \emptyset **100** for use in pipe \emptyset 100 - 150 mm Brush attachment \emptyset **150** for use in pipe \emptyset 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

Brush attachement camera head (front)

1000001836

*Use with guidance ball No. 69112 / 1500000817

Model	ΔgΔ	No.
Brush attachment Ø 100*	200	69113
Brush attachment Ø 150*	300	69117

Guidance ball ROCAM 4 Plus

For centring of the camera head in pipes for a better overview and illumination

APPLICATION AREA

Guidance ball for pipe diameters Ø 70 - 150 mm Guidance ball 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	\sqrt{g}	No.
For camera heads Ø 30 mm:		
Guidance ball for Ø 150 mm	200	1500000120
Guidance ball for brush attachments	200	1500000817
For camera heads ø 40 mm:		
Guidance ball for ø 200 mm	200	69111
Guidance ball for brush attachments	200	69112

Battery pack system CAS, mains adaptor and charger

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: 18 V / 4.0 Ah, Li-lonen







Model	No.
RO BP18/4, 4.0 Ah 18V Li-Power battery RO BC14/36, battery charger, 230 V, EU	1000001653 1000001654
ROCAM 4 Plus adaptor, 230 V, EU	1000002085



Flushing and pipe cleaning **System overview** 218 - 219 Flushing Flushing compressors 220 - 222 Cleaning chemicals 222 Decalcifying **Decalcifying pumps** 223 224 **Decalcifying chemicals** Filling 225 Solar filling pump Pipe cleaning manual Manual pipe and drain cleaning devices 226 - 228 Pipe cleaning electric Manual pipe and drain cleaning machines 229 230 - 232 Sectional drain cleaning machines Drum drain cleaning machines 233 - 236 Accessories pipe cleaning electric 237 - 239 Drain cleaning spirals **Spirals** 240 - 241 Drain cleaning tools 242 - 246 Heads and augers 247 - 248 Tool and spiral sets 249 Accessories drain cleaning spirals System overview high pressure drain cleaners 250 High pressure drain cleaning 250 High pressure drain cleaners

Flushing





Connection:	1"	1"
Max. pipe diameter:	Ø 50 mm	Ø 50 mm
Max. water pressure:	7 bar	7 bar
Documentation:	-	✓

221 220 Page:

Pipe cleaning













Operation mode:	Manual	Manual	Electric	Manual / electric	Manual / electric
Working range:	Ø 50 - 100 mm	Ø 50 - 100 mm	Ø 20 - 50 mm	Ø 20 - 50 mm	Ø 20 - 50 mm
Max. spiral length:	1 m	2.3 m	7.5 m	4,5 m	7.5 m
Spiral diameter:	13 mm	16 mm	8 mm	6 mm	8 mm
Power:	-	-	-	-	-

Page: 228 228 229 227 227



ROTHENBERGER







R 600
3
3

Operation mode:	Electric	Electric	Electric	Electric	Electric
Working range:	Ø 70 - 100 mm	Ø 70 - 125 mm	Ø 70 - 125 mm	Ø 20 - 100 mm	Ø 20 - 150 mm
Max. spiral length:	30 m	45 m	45 m	40 m	60 m
Spiral diameter:	13 mm	16 mm	16 mm	16 mm	8*/ 10*/ 16 / 22 mm
Power:	620 W	620 W	620 W	440 W	690 W
Page:	236	236	236	230	230

Decalcifying

ROCAL 20



ROMATIC 20



Tank volume:	15 l	15 l
Volume flow:	40 l/min	40 l/min
Delivery height:	10 m	10 m
Motor rating:	150 W	150 W
Max. temperature:	50 °C	50 °C
Flow reversal:	Manual	Automatic

Page: 223 223

Pipe cleaning

ROSPI 10 H+E Plus



Manual drain

cleaner 3 S

RODRUM S 10



RODRUM S 13



RODRUM VarioClean



235



Manual	Electric	Electric	Electric
Ø 50 - 100 mm	Ø 40 - 70 mm	Ø 50 - 100 mm	Ø 40 - 100 mm
15 m	10 m	15 m	10 m** 15 m
13 mm	10 mm	13 mm	10 mm** 13 mm
-	440 W	440 W	-
	Ø 50 - 100 mm 15 m	Ø 50 - 100 mm	Ø 50 - 100 mm

R 600 VarioClean

227





228



R 750

233 - 234



RODRUM L 20

233 - 234



Electric	Electric	Electric	Electric
Ø 20 - 150 mm	Ø 20 - 150 mm	Ø 50 - 200 mm	Ø 70 - 250 mm
60 m	65 m	80 m	60 m
8*/ 10*/ 16 / 22 mm	8*/10*/16/22 mm	16*/ 22 mm / 32 mm	20 mm
-	1,350 W	1,400 W	620 W
231	232	232	236

 $[\]ensuremath{^{\star}}$ only usable with collet, clamping jaws or adaptor magazine (see page 238)

^{**} With additionally available accessories

¹⁾ More information at cordless-alliance-system.com

ROPULS eDM flushing compressor

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

Product profile

KEY FEATURES

- One unit three uses for safety and energy efficiency:
 - Flushing of floor heating systems / heating circuits
 - Flushing of drinking water pipes as per DIN 1988-2/EN 806
 - 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 permanent air flushing) for good cleaning results
- Easy to use with the clearly arranged control panel
- Chemical cleaning with ROCLEAN accessories possible
- Free app for easy, professional creation of flushing-protocols







TECHNICAL DATA

R 1" GK-Coupling Pipe connection: Max. pipe diameter: DN 50/2" 5 m³/h Max. flow rate: Max. water pressure: 7 bar Max. water temperature: 30 °C **Protection class:** Oil deposition rate: 99.9%

Particle retention rate: 0.3 µm compressor

Max. operating pressure: 8 bar **Engine power:** 1.5 kW 230 V - 50 Hz Mains connection: Dimensions (H x W x D): 630 x 380 x 340 mm



ROPULS eDM App with



ROPULS eDM with ROCLEAN function for cleaning and conservation



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

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

Model No. $\Delta_{kq}\Delta$

ROPULS eDM flushing compressor with hoses 28

11

ROPULS eDM App

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

KEY FEATURES

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













ROPULS flushing compressor

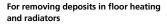
With the same range of functionality as ROPULS eDM, but without eDM (electronic Data Management)



Enables you to change to **ROCLEAN** function

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

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



Clean heating systems save energy

Pre-commission cleaning of construction material and residues

Clean, proper hygienic pipe systems

Flushing of drinking water pipes with pulsing compressed air water mix as per DIN 1988-2/EN 806

Safety for plumbers and plant operators

ROPULS with ROCLEAN function: Flushing of drinking water pipes



ROPULS flushing compressor with ROCLEAN function



ACCESSORIES

Model		No.
ROCLEAN I		1000000190
	gulator 2 bar	1500000203
ROPULS ext	tension handle	1500003517
ROCLEAN cl	eaning and conservation on page	222











¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries

²⁾ Only for Android devices

ROCLEAN function

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



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



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





Cleaning and preservation with ROCLEAN

Cleaning chemicals for radiator heating systems



For cleaning incrustations and tough deposits. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



Cleaning chemicals for surface heating systems



For cleaning of deposits and bio films. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



Preservative for radiators and surface heating systems



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



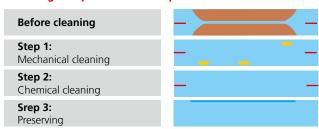
Disinfection of drinking water systems



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



Cleaning and preservation steps:



Model Color code $\sqrt[]{kg}$ No. 1000000190 **ROCLEAN** injector Pressure regulator 2 bar 0.3 1500000203 Chemical cleaning: 1500000200 63 Radiator heating systems (6 pcs.) Surface heating systems (6 pcs.) 6.3 1500000201 Preservative (6 pcs.) 1500000202 6.3 Disinfection (6 pcs.) 1500000157 6.3

ROCAL 20 / ROMATIC 20

Decalcifying pump with flow direction change

RO



Product profile

RANGE OF USE

For the quick decalcifying of heat exchangers, water pipes, water tanks, heat and cooling systems

KEY FEATURES

- With the help of the flow reversal (change of the direction of flow) even very hard calcifications and deposits can be 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

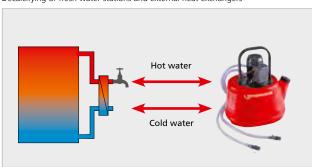
TECHNICAL DATA

Connection: R 1/2"
Tank volume: 15 I
Power supply: 230 V 50 Hz
Motor rating: 150 W
Volume flow: 40 I / min.
Delivery height: 10 m

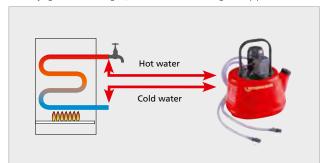




Decalcifying of fresh water stations and external heat exchangers



Decalcifying of heat exchangers, water heaters or drinking water pipes



Scope of delivery: ROCAL 20 (No.61100) and ROMATIC 20 (No. 61190) 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/

Model	$\Delta_{kg}\Delta$	No.
ROCAL 20 ROMATIC 20	6	61100 61190

ACCESSORIES





Decalcifying chemical for ROCAL 20, ROMATIC 20 see 224



ROCAL Acid Multi / Plus

Decalcifying chemical for use with ROCAL 20, **ROMATIC 20**

Product profile

RANGE OF USE

ROCAL Acid Multi

For the safe decalcification of all piping systems, heat exchangers, fresh water stations and water tanks

ROCAL Acid Plus

For strong calcifications and scale build-up. Only suitable for technical systems. Not suitable for drinking water pipes.

KEY FEATURES

- With color indication. The use of the chemical effects is shown by the change of the fluid color
- Concentrate to mix with water
- With corrosion protection













No. 1500000115

No. 1500000116

No. 1500000117

No. 61105

No. 61106

No. 1500000914

	ROCAL Acid Multi	ROCAL Acid Plus
Copper	•	
Steel	•	•
Stainless steel	•	_

suitable - unsuitable

Model	$\sqrt[]{\log \Delta}$		No.
ROCAL Acid Multi	5	1	1500000115
ROCAL Acid Multi	10	1	1500000116
ROCAL Acid Multi	30		1500000117

	ROCAL Acid Multi	ROCAL Acid Plus
Aluminium	•	_
Brass	•	_
Plastic	•	_

suitable - unsuitable

Model	$\sqrt[]{\log \Delta}$		No.
ROCAL Acid Plus	5	1	61105
ROCAL Acid Plus	10	1	61106
ROCAL Acid Plus	25	1	1500000914

Neutralizer powder

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

Product profile

RANGE OF USE

Use is necessary after ROCAL Acid Plus / ROCAL Acid Multi has been used. The neutralizer dissolves in water. The decalcification pump and system are flushed with this solution. The PH value in the system and pump is neutral afterwards.

Model	$\Delta_{kg}\Delta$		No.
Neutralizer powder	1	1	61115
Neutralizer powder	10	1	61120





No. 61115



No. 61120

Filling

ROSOLAR PUMP / ROSOLAR PUMP PLUS

Solar filling pump

Product profile

KEY FEATURES

- A powerful centrifugal pump for rapid filling and effective flushing out and ventilation of solar plant
- Optional: robust and heat resistant (up to 90 °C) Impeller pump: Small particles of solid materials are also conveyed without difficulty. Fitted with a pressure relief valve
- Heat resistant hoses (up to 100 °C) allow safe filling and maintenance of solar plant
- A height-adjustable (76 110 cm) telescopic grip for spacesaving storage, simple transport and good handling in tight
- 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
- Ball valves for safe removal of filling hoses without accidential

TECHNICAL DATA

Dimensions ($H \times W \times D$): 49 x 51 x 76 cm

Container volumes: 30 I

Hoses: Length: 2 x 3 m Connections: 3/4"

Heat resistant: up to 100 °C

Height-adjustable telescopic grip (76 - 110 cm)

Small and flexible if required

A generously dimensioned container opening

For easy and secure filling

Optional: A fleece filter bag

For preservation of the internal with strong pollution

filter when flushing older plants

A dirt filter with sight glass

Model

Filters residues out of the medium



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

Optional: impeller pump

Small particles of solid materials are also conveyed without difficulty



ROSOLAR PUMP (with centrifugal pump)	1500000135
ROSOLAR PUMP PLUS (with impeller pump)	1500000136
Fleece filter bag ROSOLAR (10 pcs.)	1500001236
Return flow cover (for filter bags)	1500001235

Return flow cover

CROTHENBERGER

No.



Hose connection with anti-kink protection







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 adaption to the job due to adjustable handle
- Good force transmission with ergonomic handles
- Optimal sealed system and therefore high suction and pressure power with single cast main body

Quick – Compact – Handy!

KEY FEATURES

 Simple handling with the perfect adaption to the drain and easy to use with ergonomic formed components



Short adaptor



Long adaptor



Model	$\Delta_{kg}\Delta$	No.
ROPUMP SUPER PLUS	2.00	072070X
with 2 adaptors (long, short)		
ROPUMP SUPER PLUS	3.30	1000001762
3 adaptors (long, short, wide) and	d toolbag	
Adaptor long	0.66	72071
Adaptor short	0.16	72072
Adaptor wide	0.40	72073

ROPUMP

Force pump cleaner according to the air-pump principle with water pressure

Flexible socket

Various areas of application

Dissolves obstructions in drains, basins, showers, bathtubs etc.

Product profile

KEY FEATURES

- Small and handy
- Compact and effective

Model	ΔgΔ	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 siphons 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	
Working range:	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	1.4 3.5	1	72090 72095
ROSPI 10 H+E Plus 10.0 m For spare spirals see 243	4.8	1	72005

Manual operation



Pipe cleaning manual

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 \emptyset 25 mm (No. 72169)

Model	$\sqrt{\log \Delta}$	No.
ROPOWER HANDY complete	1.7	71975
ACCESSORIES		
Manual crank	0.4	71976
ROPOWER PROFILE CABLE w/o plastic core	1.2	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"



Model	$\sqrt[]{\log \Delta}$	No.
WC-Blitz RO-3 complete with spiral	2.75	78551
WC-Blitz RO-3 with tool coupling	2.90	1500001324

Manual drain cleaner type 3 S

For pipes Ø 40 - 100 mm Spirals Ø 13 mm x 15 m with 16 mm coupling

KEY FEATURES

- Flexible use with a wide range of applications
 For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings
- Cleaning unit with stand Secure use
- Plastic spiral drum
 Corrosion-proof and impact-resistant

Set includes (No. 72003): manual drain cleaner type 3 S (No. 72003), spirals Ø 13 mm x 15 m (No. 72016), cross-blade cutter Ø 35 mm (No. 72176) and separating pin (No. 72100)

Model	$\sqrt[4]{\log \Delta}$	No.
Manual drain cleaner type 3 S, complete	17.50	72003
Spare spiral Ø 13 mm x 15 m	7.00	72016
Cross-blade cutter Ø 35 mm	0.04	72176
Separating pin	0.01	72100
Further Ø 16 mm tools can be found on 242		



ROSPIMATIC CL

Professional drain cleaning unit up to Ø 50 mm

Effective removal of obstructions in access lines with a one-of-a-kind spiral forward and reverse system without changing the rotational direction.

Product profile

KEY FEATURES

Locking knob with torque limit

UNIVERSAL SALES OF THE SALES OF

No squeezing of the spiral

- Switch between forward and reverse under full load without the need to change the motor rotational direction
- Unit can be used with any professional cordless drill driver
- Soft stop technology for smooth run out prevents hits to user's wrist
- The spiral drive can be combined with 3 different cleaning tools for more efficient operation (optional)

Optional guide hose prevents pollution of the working place

RO

TECHNICAL DATA

Application range: 20 - 50 mm

Spiral with inner-core and

Bulb auger: Ø 8 mm x 7.5 m **Dimensions (without spiral):** 420 x 200 x 200 mm

Compact design without power unit





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With coupling for various tools



With flexible guide hose

Set (No. 1000002299) includes: ROSPIMATIC CL set incl. spiral 8 mm x 7.5 m with bulb head (No. 72413), spiral 8 mm x 7.5 m with coupling (No. 72425), cross-blade auger (No. 72765) and separating key (No. 72102)

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 CL basic unit incl. 8 mm / 7,5 m spiral ROSPIMATIC CL set, w. 2nd spiral+cross-blade auger	1000002298 1000002299
Spiral 8 mm x 7,5 m, w. bulb auger and steel core	72413
Spiral 8 mm x 7,5 m, with coupling and core	72425
Tool set 8 mm (4 pcs.)	72942
Protection hose f ROSPIMATIC CI	72542





For additional accessories see 240









Model	$\sqrt[]{\log \Delta}$	230 V
R 550 w/ guide hose	16.0	72686
Tool sets and accessories starting on 238		

R 550

Drain cleaning machine for pipe Ø 20 - 100 mm

Reliable, high-performance drain cleaning machine with a variety of general purpose maintenance uses

Product profile

APPLICATION AREA

Especially light, compact and handy design: Ideal for the universal service use by pipe obstructions in connecting pipes from wash basins, toilets, sewage pipes, floor drains and roof drainage

KEY FEATURES

- Extremely light
- Direct attachment of 16 mm spirals
- 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

Max. working length:40 m with Ø 16 mm S-spiralsRating:440 W (power input)Voltage:230 / 110 / 115 V, 50 HzSpeed:583 rpm, RH and LH drive

Weight: 16.0 kg



Model♠kg♠230 VR 600 w/ guide hose20.972687Tool sets and accessories starting on238

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 of 16 mm and 22 mm spirals
- \bullet Optional Ø 8 and 10 mm with adaptor magazine possible
- \bullet 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 and 10 mm

Max. working length: 60 m with Ø 22 mm S-spirals

50 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals

 Rating:
 690 W (power input)

 Voltage:
 230 / 110 / 115 V, 50 Hz

 Speed:
 467 rpm, RH and LH drive

Weight: 20.9 kg

R600 VarioClean

Drain cleaning machine for pipe Ø 20 - 150 mm

For working in service areas, hospitals and non-municipal facilities, especially in areas without power supply.

Product profile

APPLICATION AREA

Ideal for plumbers, janitors and pipe cleaners for the effective and flexible removal of blockages in sewage pipes up to 150 mm in diameter. Particularly suitable for use in areas without power supply.

KEY FEATURES

- CAS-battery system: For wireless working and increased electrical safety
- VarioClean Electronic: Three speed levels for unblocking, cleaning and clean spinning. Optimal adaptation possibilities to the type of blockage.











KEY FEATURES

- Suitable for indoor and outdoor use
- Compact design and low weight

TECHNICAL DATA

Speed:

Working range: Ø 20 - 150 mm

Max. working length: 50 m (with 16 mm spiral)

60 m (with 22 mm spiral) 427/527/614 rpm

Product dimension: 430 x 250 x 480 mm



 ${\bf Optimum\ adjustment\ options\ for\ unblocking-cleaning-clean\ spinning}$



Plug-free 18 V Power with the CAS-battery system



Model	$\sqrt[]{\log \Delta}$		No.
R600 VarioClean baretool	13.0	1	1000003345
R600 VarioClean baretool with battery Li-HD, 8.0 Ah 18 V and battery charger	18.7	1	1000003372
R600 VarioClean with DuraFlex SMK spiral-/tool set 16+22 mm and battery 8.0 Ah 18V incl. battery charger	50.7	1	1000003346
For spare spirals see 249			

¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries



²⁾ More information at cordless-alliance-system.com

R 650

Drain cleaning machine for pipe Ø 20 - 150 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

Product profile

APPLICATION AREA

Perfectly suited for rough use and in extreme working conditions: Quiet operation and powerful cleaning action, even when cutting through roots or grinding out cement and lime deposits

KEY FEATURES

- Double motor performance (cp. R 600)
- Flexible with drive lever that can be fitted on the side
- Direct up take of 22 mm and 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 65 m, with Ø 22 mm S-spiral

TECHNICAL DATA

For pipe diameters: Ø 20 - 150 mm

Direct attachment: Ø 22 and 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 Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals

Rating: 1,350 W (power input)

Voltage: 230 V, 50 Hz

Speed: 623 rpm, RH and LH drive

Weight: 22.8 kg







Model	$\sqrt[]{\log \Delta}$	230 V
R 650 w/ guide hose	22.8	72688
Tool sets and accessories starting on 238		

R 750

Drain cleaning machine for pipe Ø 20 - 200 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

Product profile

APPLICATION AREA

Perfectly suited for the cleaning of domestic connections and main pipes: Quiet operation and powerful cleaning action. Usable for such as chain spinning, grinding and cutting roots

KEY FEATURES

- Drive lever can be rotated (180°), locked and used as a handle for easy wheeling
- Direct up take of 32 mm and 22 mm
- Optional Ø 16 mm with clutch jaw possible
- Maximum working length 80 m, with Ø 32 mm S-spirals

TECHNICAL DATA

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

Rating: 1,400 W (power input) **Voltage:** 230 V, 50 Hz

Speed: 467 rpm, RH and LH drive

Weight: 33.5 kg



Model	$\Delta_{kg}\Delta$	230 V
R 750 w/ guide hose	33.5	72689
Tool sets and accessories starting on 238		

Flexible use:

KEY FEATURES

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

RODRUM S

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

Product profile

KEY FEATURES

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

Interchangeable drum











APPLICATION AREA

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

TECHNICAL DATA

Working range/pipe diameter: Ø 40 - 100 mm

Max. working length: 10 m (with 10 mm Spirals) 15 m (with 13 mm Spirals)

Power (input): 440 W Speed (drum): 300 rpm **Product dimensions:** 58 x 33 x 39 cm

Cleaning of floor drain with 13 mm spiral



Convenient transport thanks to detachable drum



Model	$\sqrt[]{\log \Delta}$	230 V 50 Hz
RODRUM S 10 EU	18.9	1000001256
RODRUM S 13 EU with tool kit	25.7	1000001257
Spiral 13 mm x 15 m with reinforced wire		72016

Interchangable drum for different working ranges



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

Set (No. 1000001257) includes: RODRUM S 13, spiral guide gloves (No.1500000439), chain spinning head (No. 072185F), cross blade cutter (No.72176), forked cutter (No.72164), bulb auger (No. 72163), retrieving auger (No. 72162), straight auger (No. 72161), seperating pin (No.72100), guide hose (No.1300002581), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Set (No. 1000001308) includes: chain spinning head (No. 072185F), cross blade cutter (No.72176), forked cutter (No.72164), bulb auger (No. 72163), retrieving auger (No. 72162), straight auger (No. 72161), seperating pin (No.72100), ROCASE (No. 1300003334) with inlay (No. 1300003372)

ACCESSORIES

Model	$\sqrt{\log \Delta}$	No.
RODRUM S 10 Drum	5.5	1000001275
RODRUM S 13 Drum	11.4	1000001276
Tool kit 16 mm	5.5	1000001308
Spirals, Drain cleaning tools 241		







RODRUM VarioClean

The RODRUM VarioClean is a compact drum machine for removing blockages in pipes from 40-100 mm diameter. Through its clean and discrete work it is ideally suited for sanitary businesses, janitors, drain cleaners or for use in households, catering and hotels or public buildings because the dirty spiral moves into the drum during the return.

RO SERVICE+









Product profile

APPLICATION AREA

For the removal of blockages in sewage pipes of 40 - 100 mm in diameter. 10 mm spiral for pipe diameters from 40 - 70 mm 13 mm spiral for pipe diameters from 50 - 100 mm

KEY FEATURES

- CAS-battery system: For wireless working and increased electrical safety
- VarioClean Electronic: Three speed levels for unblocking, cleaning and clean spinning. Optimal adaptation possibilities to the type of blockage.

KEY FEATURES

- VarioClean Electronic: Prevents the drum from running on for a long time
- DuraFlex spirals: Especially flexible spirals with galvanisation.
 Optimized for the usage with the battery-powered RODRUM VarioClean

TECHNICAL DATA

Working range: Ø 40 - 100 mm

Max. working length: 10 m (with 10 mm spiral)

15 m (with 13 mm spiral)

Speed: 275/340/395 rpm **Product dimension:** 430 x 250 x 395 mm



Model	$\sqrt[]{\log \lambda}$		No.
RODRUM VarioClean with DuraFlex spiral 13 mm/15 m	21.8	1	1000003347
RODRUM VarioClean with DuraFlex spiral 13 mm/15 m incl. battery Li-HD 8.0 Ah 18 V, battery charger	26.6	1	1000003371
RODRUM VarioClean with DuraFlex spiral 13 mm/15 m, tool set 16 mm, battery Li-HD 8.0 Ah 18 V, battery charger	29.0	1	1000003348

ACCESSORIES			
Model	$\sqrt[4]{\log \Delta}$		No.
DuraFlex spiral drum, 13 mm/15 m	12.5	1	1500003708
DuraFlex spiral 13 mm/15 m	10.0	1	1500003706
DuraFlex spiral 10 mm/10 m	4.0	1	1500003707
For spare spirals see 249			

¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries



²⁾ More information at cordless-alliance-system.com

RODRUM MandL

Drum drain cleaning machine with automatic spiral feed. For pipes from Ø 70 - 250 mm. Perfectly suited for use in public and commercial buildings as well as house connection pipes.

RO SERVICE+







Product profile

KEY FEATURES

Loading device

- Interchangeable drums for quick and easy adaption to different pipe diameters without use of any tool
- Clean and discreet use

Ergonomic loading of the machine

- Easy handling due to automatic spiral feeding and retrieving
- Spiral protection due to direct pressure relief by release of the lever
- Machine works with 13, 16, 20 mm spirals

RANGE OF USE

- RODRUM M and L is a drum drain cleaning machine with automatic spiral feed for removal of blockages in pipes from Ø 70-250 mm
- Due to the interchangeable drums the machine can be adapted to different pipe diameters quickly without usage of any tools
- The dirty spiral runs back into the drum and keeps the surrounding free of dirt
- The clean and discrete way of working is ideal for Plumbers, facility managers, drain cleaners for jobs in private housholds, as well as public buildings like hotels or restaurants

TECHNICAL DATA

Working range/pipe diameter: Ø 70 - 250 mm
Power (input): 620 W
Speed (drum): 270 r/min.
Product dimensions: 77 x 56 x 87 cm

Model max. L m Spiral-Ø •O• mm S 10 10 mm x 10 m 10 bis 50 S 13 13 mm x 15 m 70 - 100 15 M 13 13 mm x 15 m 30 70 - 100 M 16 16 mm x 15 m 75 - 125 45 16 mm x 30 m 45 L 16 75 - 125L 20 20 mm x 20 m 60 125 - 250

Interchangeable drum
Fast change between
Ø 13, 16, 20 mm spirals

Spiral protection

Rubber feed

No damage of the floor

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



Easy and fast cleaning of the drum

3-in-1 feeding unit

No retrofitting neccessary for different spiral diameters

Interchangeable drums for adaption of the working range



Model		$\sqrt[]{\log \Delta}$	230 V 50 Hz
RODRUM M 13	spirals 13 mm x 15 m, incl. 16 mm tool kit	45.5	1000001711
RODRUM M 16	spirals 16 mm x 15 m, incl. 16 mm tool kit	50.2	1000001712
RODRUM L 16	spirals 16 mm x 15 m, incl. 16 mm tool kit	51.9	1000001713
RODRUM L 20	spirals 20 mm x 20 m, incl. 20 mm tool kit	68.0	1000001714

ROTHENBERGER

RODRUM M and L drums

Interchangeable spiral drums for quick and easy adaption of the machine to different pipe diameters or for extension of the spiral length.





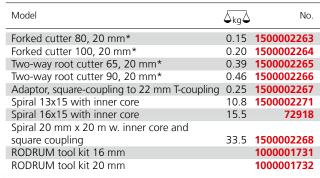
Model	$\sqrt[]{\log \Delta}$ No.
RODRUM drum M 13 incl. spiral 13 mm x 15 m	14.5 1000001727
RODRUM drum M 16 incl. spiral 16 mm x 15 m	19.0 1000001728
RODRUM drum L 16 incl. 2x spirals 16 mm x 15 m	38.7 1000001729
RODRUM drum L 20 incl. spiral 20 mm x 20 m	36.8 1000001730

ACCESSORIES		
Model	$\sqrt{\log \Delta}$	No.
Straight auger, 20 mm*	0.32	1500002253
Funnel auger, 20 mm*	0.55	1500002254
Bulb auger, 20 mm*	0.40	1500002255
Retrieving auger, 20 mm*	0.12	1500002256
Peak-head auger, 20 mm*	0.40	1500002257
Cross-blade cutter 50, 20 mm*	0.16	1500002258
Cross-blade cutter 65, 20 mm*	0.23	1500002259
Cross-blade cutter 90, 20 mm*	0.39	1500002260
Chain-spinning head, 4 chains, 20 mm*	0.30	1500002261

Forked cutter 60, 20 mm*
* all 20 mm augers with square coupling
all 20 min augers with square coupling

- manaman

No. 1500002267





0.10 1500002262

No. 1500002261



No. 1500002253



MMMMMMM =

No. 1500002254



No. 1500002258



No. 1500002256



99999999999

No. 1500002263



No. 1000001731



No. 1000001732

Set (No. 1000001731) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), chain-spinning head (No. 072185F), cross-blade cutter (No. 72176), forked cutter (No. 72164), bulb auger (No. 72163), retrieving auger (No. 72162), straight auger (No. 72161), separating key (No. 72100)

Set (No. 1000001732) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), bulb auger (No. 1500002255), cross-blade cutter (No. 1500002259), forked cutter (No. 1500002263), separating key (No. 72101)

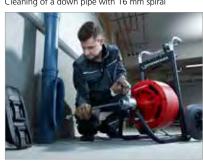




Easy transport due to stair capable chassis



Cleaning of a down pipe with 16 mm spiral



Accessories pipe cleaning electric



Clutch jaws

For machine type	For spirals-Ø	$\Delta_{kg}\Delta$	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/R140 B	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 spiral-Ø	max. Spiral length	$\Delta_{kg}\Delta$	No.
R 600/650	8 mm	10 m	1.8	72514
R 600/650	10 mm	10 m	1.8	72515



Clutch jaw for R 750

For machine type	For spirals-Ø	$\Delta_{kg}\Delta$	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 spiral-Ø	Length	$\Delta_{kg}\Delta$	No.
FS 16	R 550 / RODRUM S	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



Tripod stand

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: inspection holes in downpipes
- Spiral retrieving device

For machine type	$\Delta_{kg}\Delta$	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

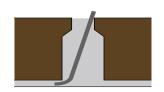
Model	$\sqrt[]{\log \Delta}$	No.
Spiral retrieving device	3.7	72135



Telescoping guide tubes

• No twisting: For safe spiral guidance in manholes and manhole covers

Model	Extended length m	Туре	$\sqrt{\log \Delta}$	No.
For spirals Ø 16	, 22 mm 1.4 - 2.3	2 pcs.	3.0	72130





ROWONAL care and rust remover

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal



No. 721/12



Model	Contents	ΔgΔ	No.
Spray can Plastic canister	0.2 l 5.0 l		72142 72140

Spiral guide gloves

• For safe grasping and guiding of cleaning spirals

Guide gloves, leather:

- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove





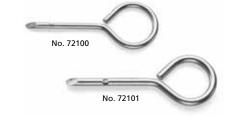
No. 1500000439

Model	$\Delta_g \Delta$	No.
Guide gloves left, leather	190	72120
Guide gloves right, leather	190	72121
Guide gloves (pair), rubber	160	1500000439

Separating pin

• For disconnecting spirals and spiral tools

Model	$\Delta_g \Delta$	No.
For spirals / tools with Ø 16 mm For spirals / tools with Ø 22 and 32 mm For spirals / tools with Ø 8 mm	30	72100 72101 72102



Spiral baskets

- Safe storage combined with convenient transport
- Perfectly suited for cleaning and preservation

Model	Spiral length max.	$\sqrt[b]{\log \Delta}$	No.
For spirals / tools w/ Ø 16 mm	34.5 m	1.3	72110
For spirals / tools w/ Ø 22 mm	22.5 m	1.6	72112
For spirals / tools w/ Ø 22, 32 m	m 22.5 m	2.3	72111







2111 1

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

ROTHENBERGER lockring



Coupling with 100% surface pressure

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.

KEY FEATURES

- 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



Various wire gauges

Flexible, depending on use

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

Insertion taper

Simple coupling of spirals and tools



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

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

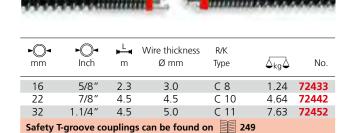


50% more cleaning power when used with the spiral tools

▶	Core	▶ ¶	<mark>L ⊲</mark> m	$\Delta_{kg}\Delta$	No.
16	•	5/8"	2.3	1.3	72490
Safety T-groove	couplings can be	e found on	249		

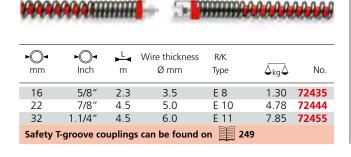
SMK-spirals

- 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-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



Standard spirals

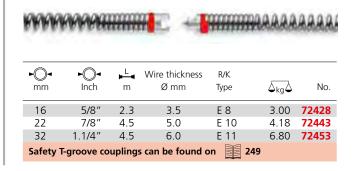
 Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



► □ ⊲ mm	► ○ - Inch	m	Wire thickness Ø mm	R/K Type	$\sqrt{\log \Delta}$	No.
16	5/8"	2.3	3.0	C 8	1.05	72431
22	7/8"	4.5	4.5	C 10	3.98	72441
32	1.1/4"	4.5	5.0	C 11	6.29	72451
Safety T	groove co	uplings	can be found o	on 249	-	

S-spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling



DuraFlex spirals

- Very light and flexible spirals, optimal for use with the battery-operated R600
- VarioClean Zinc plating for extended service life



Model	$\Delta_{kg}\Delta$		No.
DuraFlex SMK spiral, 16 mm/5/8"	0.8	1	1500003703
DuraFlex SMK spiral, 22 mm/7/8"	3.8	1	1500003704
Safety T-groove couplings can be fou	nd on 📃	249	

Flushing and pipe cleaning

Drain cleaning tools

With lockring

The most common tool for

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

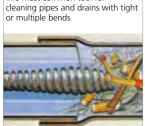
- Ø 16 mm 5/8"
- Ø 22 mm 7/8"
- Ø 32 mm 1.1/4"

See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

Bulb auger



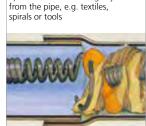




Retrieving auger







Special tool for retrieving objects

Cross-blade cutter, serrated





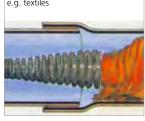


Funnel auger



Tool for removing, opening or retrieving obstructions caused by, e.g. textiles



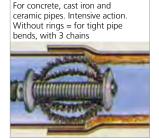


Chain-spinning head with spikes 245









Spade head cutter





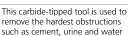
Carbide-tipped cutters







Ideally suited for slit or sludge depo-







Spiral sawtooth cutter







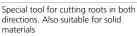




Special tool for chopping up small











Drain cleaning tools

Bulb auger, long

 With the longer, more flexible range the bulb auger is considerably more flexible in curves. Pipe from Ø 40 mm



Coupling mm / Inch	mm	L mm	Working range mm	Δgδ	No.
16 / 5/8"	28	500	40 - 75	220	72158
22 / 7/8"	40	500	50 - 100	464	72208

Straight auger

- Standard tool for investigating the nature of an obstruction
- For piercing or drilling through obstructions caused by textiles, paper, cellulose materials, kitchen refuse etc.
- For removing samples to determine a suitable clearing tool



Coupling mm / Inch	mm	L mm	Working range mm	\sqrt{g}	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	► O ◄	<mark>⊩</mark> mm	Working range mm	\sqrt{g}	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	mm	<mark>⊩L</mark> ∎ mm	Working range mm	ΔgΔ	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	mm	L mm	Working range mm	\sqrt{g}	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	► ○	<mark>⊩_</mark> ⊲ mm	Working range mm	\sqrt{g}	No.
16 / 5/8"	24	83	50 - 75	60	72159
22 / 7/8"	37	125	60 - 100	180	72264

Drain cleaning tools

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	mm	L mm	Working range mm	ΔgΔ	No.
16 / 5/8"	40	40	50 - 75	30	72154
16 / 5/8"	30	40	50 - 75	20	72164



No. 72164

Grease cutter

Coupling mm / Inch	▶ ○	mm	Working range mm	\sqrt{g}	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

mm / Inch	mm	mm	mm	$\Delta_g \Delta$	No.
22 / 7/8"	65 65	65	100 - 150	150	72261 72360
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!

46 / 5/9" 25 25 50 75 40 7046	Coupling mm / Inch	► O 	L mm	Working range mm	$\Delta_g \Delta$	No.
16 / 5/8" 35 25 50 - /5 40 7216 6	16 / 5/8"	35	25	50 - 75	40	72166
22 / 7/8" 45 40 75 - 100 100 7222 9	22 / 7/8"	45	40	75 - 100	100	72229
32 / 1.1/4" 65 55 75 - 100 210 7232 9	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	mm	<mark>⊩</mark> mm	Working range mm	\sqrt{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"	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

- For cleaning greasy and incrusted pipes
- Surface-preserving cleaning or ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends



Improved mobility!



Chain-spinning heads without ring and without spikes

Coupling mm / Inch	mm	L mm	Working range mm	ΔgΔ	No.	
Without ring, v	with 2 cha	ains				
16 / 5/8"	30	105	50 - 125	120 (72185F	
16 / 5/8"	30	155	100 - 125	160	72185	
22 / 7/8"	50	170	100 - 150	530	72284	
Without ring, with 4 chains						
16 / 5/8"	40	155	60 - 125	270	72187	
22 / 7/8"	60	170	80 - 130	710	72289	

Chain-spinning heads with spikes

KEY FEATURES

- Intensive cleaning action
- Ideal for concrete and cast iron pipes
- Reduces the risk of renewed obstructions
- Perfectly suitable for down pipes
- With ring:

for better centering in horizontal pipe runs

• Without ring: Improved mobility in bends



Ideal for final cleaning!

Better alignment in horizontal pipe position!

Chain-spinning heads with ring and spikes

Coupling mm / Inch	mm	<mark>⊩</mark> mm	Working range mm	\sqrt{g}	No.
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

			•		•		
	Coupl nm /	_	▶ ○	<mark>∟</mark> mm	Working range mm	Δgδ	No.
V	Vith	out rir	ng, with 2 ch	ains			
1	6/	5/8"	30	155	50 - 125	160	72186
2	22 /	7/8"	50	170	100 - 150	860	72278
٧	Without ring, with 4 chains						
1	6/	5/8"	40	155	75 - 125	280	72188
2	22 /	7/8"	60	170	100 - 150	880	72299
3	32 / 1	.1/4"	80	220	100 - 200	1,460	72348





No. 72188

Drain cleaning tools

Carbide-tipped cutters

- Carbide-tipped cutters for the hardest obstructions and incrustations such as cement deposits, urine and water scale and other hard deposits
- Recommended for use with S- or SMK-spirals



Coupling mm / Inch	mm	Form	Working range mm	Δgδ	No.
16 / 5/8"	30	straight	50 - 75	80	72193
22 / 7/8"	45	pointed	60 - 100	320	72295
32 / 1.1/4"	80	straight	100 - 200	530	72398

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	► ○	<u>L</u> mm	Working range mm	\sqrt{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

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	► O	<mark>⊩</mark> mm	Working range mm	\sqrt{g}	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

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 Blades				
16 / 5/8"	50 - 75	25	42	72168
16 / 5/8"	50 - 75	35	80	72172
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 Blades				
22 / 7/8"	125 - 150	90	1,025	72227
22 / 7/8"	125 - 150	115	1,225	72228
32 / 1.1/4"	125 - 200	95	1,108	72327
32 / 1.1/4"	150 - 200	115	1,256	72328



Flushing and pipe cleaning

Drain cleaning tools



Set (No. 72936) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), separating key 16 mm (No. 72100), retrieving auger 16 mm (No. 72162), bulb auger 16 mm (No. 72163), serrated forked cutter 16 mm (No. 72164), blade cutter 16/25 mm (No. 72169), cross-blade cutter 16/45 mm (No. 72177), chain-spinning head 16 mm with 2 smooth chains (No. 72185), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model No.

16 mm tool set L (R 550, R 600, R 650) **72936**

6 IIIII (001 Set L (N 550, N 600, N 650)



Set (No. 72938) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), separating key 22 mm (No. 72101), retrieving auger 16 mm (No. 72203), serrated forked cutter 22 mm (No. 72250), spade head cutter 22/65 mm (No. 72261), bulb auger 22 mm (No. 72263), two-way root cutter 22/65 mm (No. 72265), cross-blade cutter 22/65 mm (No. 72276), chain-spinning head 22 mm with 2 smooth chains (No. 72284), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model No.

22 mm tool set L (R 600, R 650, R 750) **72938**

Tool set S

Ø 16 mm, 5 pieces



Set (No. 72937) includes: separating pin 16 mm (No. 72100), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16 mm (No. 72169), cross-blade cutter 16 mm (No. 72175)

Model No.

16 mm tool set S (R 550, R 600, R 650) **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. 22 mm tool set S (R 600, R 650, R 750) **72939**



Drain cleaning tools

Spiral and tool sets

Standard Ø 16 mm













Set (No. 072945X) includes: spiral basket 16 mm (No. 72110), 5×16 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), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\Delta_{kg}\Delta$	No.
Standard 16 mm	with standard spirals	12.0	072945X









Set (No. 072956X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), 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. 150000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\Delta_{kg}\Delta$	No.
Standard 16 - 22 mm	with standard spirals with SMK-spirals	38.0	072956X
SMK 16 - 22 mm		39.0	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), 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), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\sqrt[]{\log \Delta}$	No.
Standard 22 mm	with standard spirals	24.0	072955X

Spiral and tool sets

Toriffice Control

Standard Ø 32 mm











Set (No. 072962X) includes; spiral basket 32 mm (No. 72111), 5 x 32 mm standard spirals (No. 72451), 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. 72309), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\sqrt{\log \Delta}$	No.
Standard 32 mm	with standard spirals	37.0	072962X













Drain cleaning tools / Accessories pipe cleaning spirals

DuraFlex spiral and tool set









Set (No. 1500003705) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm DuraFlex spirals (No. 1500003703), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm DuraFlex spirals (No. 15000003704), ROCASE (No. 1300003334) with inlay (No. 1300003372), 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)

Flushing and pipe cleaning

Model	$\sqrt[]{\log \lambda}$	No.
DuraFlex SMK spiral and tool set. 16/22 mm	34.0	1500003705

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 600, R 650

	mm	Wire Ø	m	Туре	Steel core	Use for ROSPI	$\sqrt{\log \delta}$	No.
Ī	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	2.5 mm	7.5	-		R 10 - R 36	2.9	72423*
4	*with T-groove coupling							

• 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



No. 72412



No. 72421 / No. 72423

Reducing / extension pieces

For spirals with T-coupling

Within limits, tools with larger or smaller lead-ins can also be adapted

Model	negative	positive	$\Delta_{g}\Delta$	No.
Extension piece	16 mm	22 mm	140	72461
Reducing piece	22 mm	16 mm	150	72460
Extension piece	22 mm	32 mm	320	72463



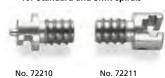




Safety T-couplings

Model	ΔgΔ	16 mm 5/8"	∆ _g ∆	22 mm 7/8"		
for Standard and SMK-spirals						
positive	20	72150	40	72210		
negative	20	72151	40	72211		

for Standard and SMK-spirals



Fixing of broken spirals!



High-pressure drain cleaning





Operation mode:	230 V	400 V
Max. pipe diameter:	Ø 150 mm	Ø 200 mm
Max. working length:	20 m	40 m
Max. pressure:	100 bar	190 bar
Pump delivery:	13 l/min	17 l/min
Power:	2,300 W	5,000 W



100 bar high-pressure pipe cleaning unit with hose reel

Ø 150 mm



KEY FEATURES

- Air-filled transport wheels, easy to navigate stairs
- AC supplied, self-priming up to 2 m

TECHNICAL DATA

Max. operating pressure: 100 bar Electric motor: AC supply Pump delievery: 13 l/min 2.3 kW Rating: Max. working length: 20 m Speed: 1,400 rpm

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)

 $\Delta_{kq}\Delta$ 230 V/50 Hz 76020 High-pressure pipe cleaning unit HD 13/100 45.0

HD 17/190

190 bar high-pressure with three-phase mo

Ø 200 mm



KEY FEATURES

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

TECHNICAL DATA

Max. operating pressure: 190 bar Electric motor: Three phase 5.0 kW Pump delivery: 17 l/min Rating: Max. working length: 40 m Speed: 2,800 rpm

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)

 $\Delta_{\mathsf{kg}}\Delta$ 400 V / 50 Hz

76070

High-pressure pipe cleaning unit HD 17 / 190 50.0

Flushing and pipe cleaning

High-pressure drain cleaning

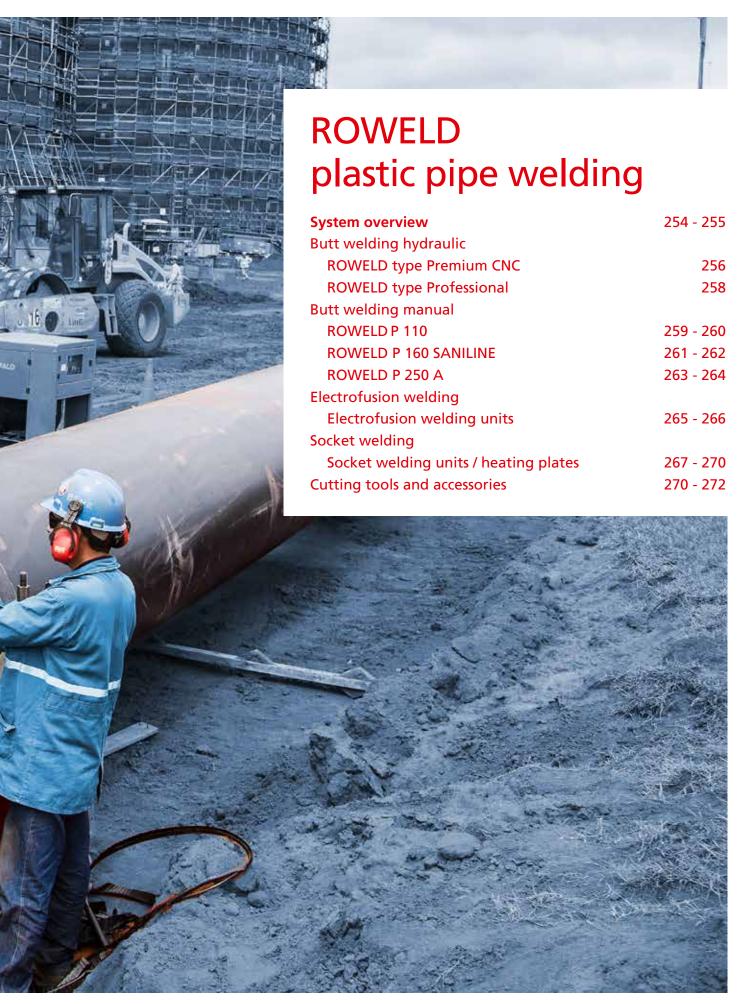
ACCESSORIES HD 13/100 - 17/190 - 19/180



No. 76067

Model	$\Delta_{kg}\Delta$	No.
Flexible, high-pressure hose with R 1/4" coupling		
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 holes, 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







System overview

Butt welding hydraulic





Suited for:	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Ø 90 - 630 mm	Ø 40 - 1200 mm
Operation mode:	Automatic CNC controlled	Manual
Voltage:	230 V, 50/60 Hz	230 V, 50/60 Hz
Documentation:	✓	-

Page 256 258

Butt welding manual







Suited for:	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Ø 20 - 110 mm	Ø 40 - 160 mm	Ø 40 - 250 mm
Wall thickness:	see technical data	see technical data	see technical data
Operation mode:	Manual	Manual	Manual
_			

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Electrofusion welding







Suited for:	PE, PP	PE, PP	PE
Outer pipe diameter:	Up to Ø 1200 mm ¹⁾	Up to Ø 400 mm	Up to Ø 160 / 315 mm
Fitting type:	Fittings for pressure pipe systems	Fittings for pressure pipe systems	Fittings for drainage pipe systems
Voltage:	8 - 48 V	8 - 48 V	230 V
Documentation:	✓	✓	-

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Socket welding







Suited for:	PE, PP	PE, PP
Outer pipe diameter:	Ø 32 - 63 mm	Ø 16 - 125 mm
Wall thickness:	see technical data	see technical data
Operation mode:	Electric	Electric
Function:	Socket welding	Butt welding, socket welding

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Socket welding







Suited for:	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Up to Ø 120 mm	Up to Ø 200 mm	Up to Ø 300 mm
Wall thickness:	see technical data	see technical data	see technical data
Operation mode:	-	-	-

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Cutting









			•	
Suited for:	PE	PE	PE	PE, PP, PVC
Outer pipe diameter:	Up to Ø 125 mm	Up to Ø 225 mm	Up to Ø 315 mm	Ø 160 - 355 mm
Wall thickness:	Up to max. 11,4 mm	Up to max. 18 mm	Up to max.18 mm	Up to max. 40 mm
Operation mode:	Manual	Manual	Manual	Electrical
Function:	Cutting	Cutting	Cutting	Cutting
Page	271	271	271	271

Butt welding

ROWELD type Premium CNC

Hydraulic butt-welding machine Ø 90 - 1200 mm

The Premium CNC System enables a nearly fully automated operation. All parameters are documented automatically.

Product profile

APPLICATION AREA

The ROWELD Hydraulic Premium CNC with integrated CNC control and touch screen panel for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface.

WORKING RANGE	
Model	Ø mm
P 250 B SA	90 - 250 mm
P 250 B VA	90 - 250 mm
P 355 B SA	90 - 355 mm
P 355 B VA	90 - 355 mm
P 500 B SA	200 - 500 mm
P 630 B SA	315 - 630 mm

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 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

With CNC function: During the welding process, all move-

ments 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)

Flexible



Simple operation

Ideally matched components allow precise start-up of the pressure



Safe

Perfect parking for trimmer and heating plate



Simple operation via touch control panel



Trimmer with safety switch. Secures against unintended activation of the trimmer



Safe operation – Automatic calculation, control and inspection of the welding parameters



The pull-off fixture allows rapid lifting out of the heating element



The new generation of ROWELD hydraulic controls for butt welding

The ROWELD hydraulic unit is available in a **Professional** and **Premium CNC** version.

Everything at a glance	Fig. similar Type Professional	Type Premium CNC
Temperature control	•	•
Pressure reading analogue	•	_
Pressure reading digital	_	•
Pressure hold function	•	•
Logging system	_	•
Position sensor	_	•
Automatic parameter calculation	_	•
CNC-control	_	•
Touch screen	_	•
Colour display 3.5"	_	•
Menu language Multi-lingual	_	•
USB port	_	•



Butt welding

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

Butt welding of PE, PP and PVDF pipes and moulded bodies. For use on the building site, in pipe trenches, on pipe bridges and in workshops. The ROWELD hydraulic type Professional with infinite pressure adjustment, an easily legible manometer and pressure reservoir for welding according to DVS and other internationally valid guidelines and standards.

WORKING RANGE	
Model	Ø mm
P 160 B	40 - 160 mm
P 200 B	63 - 200 mm
P 250 B	90 - 250 mm
P 355 B	90 - 355 mm
P 500 B	200 - 500 mm
P 630 B	315 - 630 mm
P 800 B	500 - 800 mm
P 1200 B	710 -1200 mm

Flexible



Allows reliable weldings in virtually any environment

Simple operation

Ideally matched components allow precise start-up of the pressure



Fig. similar



Supply of power for heating element and trimmer unit over Professional Hydraulic



Electronic control for heating element can be placed flexibly using a magnet (P 355 B)



Professional Hydraulic with large, easily legible manometer as well as a pressure limiting and pressure relieving valve



The pull-off fixture allows rapid lifting out of the heating element



Butt welding

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

230 V









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

Size: 450 mm total length



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



Set (No. 55844) includes: 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	$\Delta_{kg}\Delta$	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD P 110 complete	40, 50, 56, 63, 75, 90, 110	electronically	43	55844	55924

Plastic pipe welding

Butt welding

ROWELD P 110 basic machine

Model	$\Delta_{kg}\Delta$	No.
ROWELD P 110 basic machine	6.8	55787
with table mounting bracket		



Basic clamping set 110 mm

Model	$\sqrt[]{\log \Delta}$	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





Reduction inserts wide P 110

Each set includes 4 aluminium half-shells

►O⊲ mm	$\sqrt[]{\log \Delta}$	No.	►O⊲ mm	$\sqrt[L]{\log L}$	No.
20	1.9	55318	56	1.6	55122
25	1.9	55126	63	1.4	55121
32	1.8	55125	75	1.6	55120
40	1.7	55124	90	1.1	55119



Reduction inserts narrow P 110

Each set includes 4 metal half-shells

► O⊲ mm	$\Delta_{kg}\Delta$	No.	► mm	$\Delta_{kg}\Delta$	No.
20	0.6	55319	56	0.5	55130
25	0.6	55134	63	0.5	55129
32	0.5	55133	75	0.4	55128
40	0.5	55132	90	0.3	55127





Manual trimmer unit

Model	$\sqrt[4]{\log \Delta}$	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 W

Model	$\Delta_{kg}\Delta$	230 V 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled Table clamp	2.6	55324	55918
	0.7	55524	55524









Flange adaptor clamping unit

For centred welding of flanges

Model	$\Delta_{kg}\Delta$	No.
Flange adaptor clamping unit	1.50	55199
Steel carrying case (540 x 345 x 355 mm)	14.20	55832
Hex key SW 6	0.03	321216
Hex key SW 8	0.05	321218





Butt welding

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)

 Weight:
 34.4 kg

 Heating plate:
 800 W

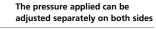
 Trimmer unit:
 1050 W

Multi-faceted options for clamping

All commonly used moulded bodies installed in a sanitary installation can be clamped

Anti-slip Ø 40 - 140 mm reduction clamping inserts with clamping force regulation

Secure mounting of pipes, moulded bodies, tight 45° forks and 90° bends



One-sided and two-sided milling is possible

Direct force transmission and a clearly arranged force scale

Precise force adjustment

ROCASE 4414

Additional storage for accessories and tools











Trimmer attachment (No. 54040) (special accessories)



Basic clamping set (No. 54082) (special accessories)



Set (No. 1000002964) includes: Basic unit with electric trimmer, electrically adjustable heating element, removable. Pipe support Ø 160 mm, reducer clamp and support set for Ø 40, 50, 63, 75, 90, 110 and 125 mm in ROCASE 4414 (No. 1000002970), installation tools, mobile work and transport frame (No. 1000002971)

Model	vvorking range Ø mm	Temperature control	$\Delta_{kg}\Delta$	50 Hz
ROWELD P 160 SANILINE	40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	1000002964
ROWELD P 160 SANILINE	40, 50, 63, 75, 90, 110, 125, 160 incl. 56 mm insert	electronically	57.5	1000002967

Butt welding

ROWELD P 160 SANILINE basic machine

Basic machine includes: Trimmer unit (1050 W), heating plate (800 W), basic clamp set \emptyset 40 - 160 mm

Model	$\Delta_{ m kg}\Delta$	230 V 50 Hz
ROWELD P 160 SANILINE	34.4	54005
Basic machine		

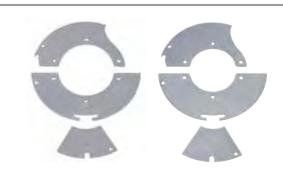


Reduction inserts P 160 SANILINE

Set includes: Reducer inserts (4 half-shells), pipe supports

► O ≺ Nominal size	$\sqrt{\log \Delta}$	No.
40	1.6	54083
50	1.6	54084
56	1.6	54085
63	1.6	54086
75	1.6	54087

Nominal size	$\Delta_{kg}\Delta$	No.
90	1.6	54088
110	1.7	54089
125	1.5	54090
140	1.5	54091



Trimmer adaptor P 160 SANILINE

(special accessories)

 \varnothing 40 - 75 mm for trimming 45° branches, replaceable blades

Model	$\Delta_{kg}\Delta$	No.
Trimmer attachment for Ø 40 - 75 mm	0.63	54040





Basic clamping set P 160 SANILINE

(special accessories)

For outer clamping position, especially for welding pressure pipes, includes 2 basic clamps, left and right, up to Ø 160 mm

•	Model	$\sqrt[]{\log \Delta}$	No.
ĺ	Basic clamping set Ø 160 mm	5.3	54082





ROWELD P 160 SANILINE Conversion Kit

Converting existing ROWELD P 160 SANILINE with universal clamp system

Set (No. 54080) includes: Basic clamping set Ø 160 mm left and right, (No. 54082) as well as two reducer clamping sets (left and right) for the diameters 40, 50, 63, 75, 90, 110 and 125 mm

Model	Working range Ø mm	$\sqrt[]{\log \Delta}$	No.
Conversion Kit	40, 50, 63, 75, 90	11.20	54080
	110, 125, 160		
Trolley and transp	ort sub-frame	11.30	1000002971
Folding trolley		20.00	56051
ROCASE for reduc	ers	1.70	1000002970
Open-ended span	ner SW 17 DIN 894	0.05	310411
Trimmer unit blad	es 75 mm (set = 2 blades	0.10	55685
Blades 35 mm for trimmer adaptor		0.01	55686
Heating plate 230	V / 115 V / 110 V	1.92	55316 / 55851
Trimmer blade, carl	oide 75 mm (set = 2 blades	0.05	55684









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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

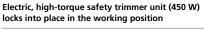
Pipe diameter: Ø 40 - 110 mm (SDR 41 - SDR 7.25)

Ø 40 - 125 mm (SDR 41 - SDR 11) Ø 40 - 200 mm (SDR 41 - SDR 17) Ø 40 - 225 mm (SDR 41 - SDR 26) Ø 40 - 250 mm (SDR 41 - SDR 33)

 Weight:
 36.4 kg

 Trimmer unit:
 450 W

 Heating plate:
 1200 W



Protects against unintentional starting and derailing of the trimmer unit

Removable heating plate Versatile for difficult situations

Rugged basic clamping set Ø 250 mm with reducer inserts for Ø 180 - 225 mm plus pipe supports and Ø 160 mm set with reducer inserts for Ø 40 - 140 mm plus pipe supports

Reliable, warp-resistant transfer of the welding pressure

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Mounted machine carriage is smooth running, hardened, chrome-plated ball lining driven in guide shaft

Warp-resistant, for minimum drag force and low loss of pressure transfer

Model	Working range Ø mm	Temperature control	$\sqrt[]{\log \Delta}$	230 V 50 Hz
ROWELD P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 2	250 electronically	131.0	55795
ROWELD P 250 A basic machi	ne		36.1	55768

ROTHENBERGER

Plastic pipe welding

Butt welding

ROWELD P 250 A set Basic machine with trimmer unit

Set (No. 55795) includes: holder for heating plate, electronically adjustable heating plate, basic clamping set \varnothing 160 mm and 250 mm support fork inserts \varnothing 160 mm and 250 mm, reducer inserts and support fork inserts from \varnothing 40 - 140 mm and \varnothing 180 - 225 mm, installation tools, steel transport box 800 x 520 x 765 mm (LxWxH) and steel carrying case for reducer and support fork inserts



Basic clamping set P 250 A

Set includes: 2 basic clamps and 2 support forks



► mm	$\sqrt[4]{\log \Delta}$	No.
250	10.10	55717



Reduction inserts P 250 A

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	$\Delta_{kg}\Delta$	No.
32	1.89	55753
40	1.89	55752
50	1.81	55751
56	1.83	55750
63	1.75	55749
75	1.68	55748
00	1 EA	EE7/17

►O mm	$\Delta_{kg}\Delta$	No.
110	1.26	55746
114	1.20	55745
125	1.06	55744
140	0.80	55743
180	2.46	55721
200	2.03	55718
225	1.41	55719



Heating plate

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Non-stick Teflon coating. Ø 300 mm, 1,500 W

Model	$\sqrt[]{\log \Delta}$	230 V 50 / 60 Hz	110 V / 115 V 50 / 60 Hz
Electronically controlled	5.35	55317	55854

Spare parts

Model	$\sqrt[]{\log \Delta}$	230 V 50 / 60 Hz	110 V / 115 V 50 / 60 Hz
Spare blade (1 set = 2 pcs.)	0.10		55163
Hex key size 8	0.20	321218	321218
Transport box, protective cover red	25.00	55759	55759
Steel carrying case	2.82	54020	54020









Universal electrofusion welding units for PE- and PPpressure fittings up to 400 and up to 1200 mm diameter

USB



Product profile

KEY FEATURES

- Safety: The Heat-Control (HC) function evaluates based on ambient temperature, device temperature and fitting and checks if the next fitting can be welded completely.
 This process is fully automated and indicated through a green or a red light shown on the display. This prevents any emergency shut-off of the unit due to overheating.
- Performance: Due to the Active-Cooling (AC) function, the unit is ideally fitted for continuous use since the heat removal is maximised by the installed ventilator.
- Complete solution: All cables are securely stowed away inside the robust housing. The housing also offers sufficient space for accessories, tools or fittings.
- Professional documentation: All saved welding sequences can be transferred to a computer with a USB drive. From the computer the data can be archived and printed using the read out programme "RODATA 2.0".
- Barcode generator: "RODATA 2.0" offers also the possibility to encrypt the name of the welder and the name of the construction site as a barcode. This barcode can then be scanned at the job site.

TECHNICAL DATA:

Mains voltage:230 VFrequency:50/60 Hz

Power: 3,000 VA, 70 % ED

Output current (nominal output): 80 A Welding voltage: 8 - 48 V

Ambient temperature: -10 °C up to 60 °C

Working range

ROFUSE 400 TURBO: Fittings up to 400 mm For Fittings up to 1200 mm

Protection class: IP 54

Transmission interface: USB v. 2.0

Storage capacity: 2000 welding logs **Weight incl. welding cable:** approx. 21.5 kg

(Basic unit without accessories)

Practical pocket Language neutral instruction manual for the welder's name Easy to operate and scan site-code Height-adjustable cover Can be used USB as a sun shield Simple data transmission **Robust housing** The cable can be HENBERGER stowed away securely ROFUSE 400 TURBO Clear display Allows intuitive operation. The program sequence can be adapted individually Wireless scanner Simple and unlimited handling

Model	$\sqrt[]{\log \Delta}$	No.
ROFUSE 400 TURBO	21.5	1000000999

Model	$\Delta_{kg}\Delta$	No.
ROFUSE 1200 TURBO	21.5	1000001000



Electrofusion welding

ROWELD ROFUSE Sani 160/315

Universal electro-fusion welding unit for drainage pipe with welding sockets up to Ø 315 mm

230 V





Product profile

APPLICATION AREA

Universal electrofusion welding unit for PE drainage pipe fittings. For the following makes:

40 - 160 mm: Geberit, Akatherm-EUR, Coes, Valsir,

WAVIN-Duo, Aquatherm and Vulcathene-Euro

200 - 315 mm: Valsir, Akatherm, Eurofusion, Geberit and Coes

KEY FEATURES

- Microprocessor controlled welding unit with automatic temperature and voltage compensation
- Icon-based software for intuitve and easy operation
- Visual monitoring of the welding process via large illuminated display
- Robust and impact-resistant housing (IP 54)
- Automatic welding parameter detection

TECHNICAL DATA

Dimensions:

 Input voltage:
 180 - 280 V (230 V)

 Frequency:
 40 - 70 Hz

 Output voltage:
 5 A controlled

Protection class: IP 54

Working range: up to Ø 160 mm (Sani 160)

up to Ø 315 mm (Sani 315)

Temperature range: -5 °C up to + 40 °C **Weight:** 2.4 kg (Sani 160)

3.9 kg (Sani 315) 110 x 200 x 80 mm

Welding cable: 3 m

Welding in

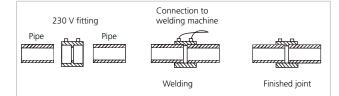






Robust packaging in ROCASE





Model	$\Delta_{kg}\Delta$	No.
ROWELD ROFUSE Sani 160 in ROCASE	2.4	1000002630
ROWELD ROFUSE Sani 315 in ROCASE	3.9	1000002631

Socket welding

ROWELD P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm

Product profile

APPLICATION AREA

Socket welding unit for use with heating spigots and heating sockets \varnothing 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
- Long service life and according to DVS regulations
- All important information at a glance
- Safe operation with the temperature control as per DVS regulations

230 V







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

Power: 800 W

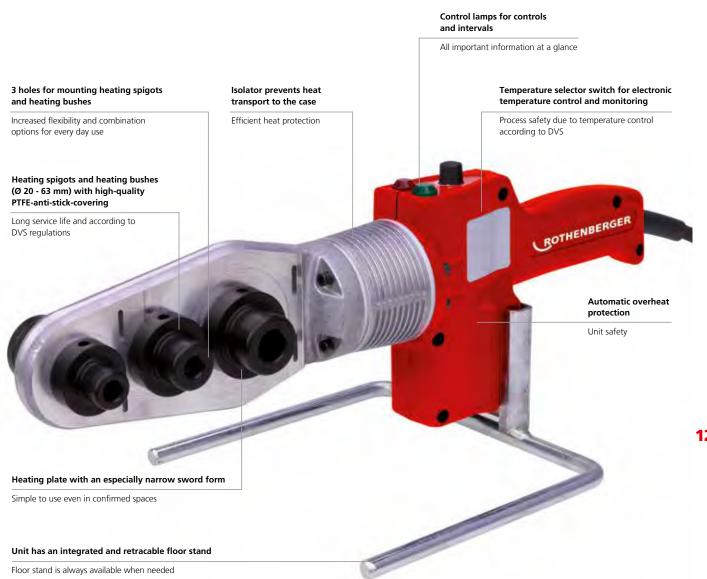
Model: Thermostatic or electronically controlled

Pipe diameter: For sockets, pipes and fittings

from Ø 20 - 63 mm

Voltage: 230 V, 50/60 Hz

110/115 V, 50/60 Hz



Socket welding

ROWELD P 63 S-6 Sword sets

P 63 S-6 Sets include: Heating spigots, hex key size 6 (No. 321216), socket-head screws, table mounting clamp, loor stand, plastic carrying case



Fig. P 63 S-6, thermostatically controlled

Electronically controlled for a constant temperature!



Fig. P 63 S-6, electronically controlled

Model	Working range Ø mm	Power watts	Description	$\Delta_{kg}\Delta$	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	053895X
P 63 S-6 set	20, 25, 32	800	electronically	4.30	053890X	
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	053891X	
P 63 S-6 single unit		800	thermostatic	1.78	053897X	
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 and 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

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	► O	Control Model	Δ_{kg}	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







Adaptor plate



Heating spigots / Heating sockets (Form A)

Model	$\Delta_{kg}\Delta$	No.	Model	$\Delta_{kg}\Delta$	No.
16	0.06	55585	50	0.37	55593
18	0.08	55587	63	0.60	55594
19	0.08	55588	75	0.89	55595
20	0.08	55589	90	1.33	55596
25	0.10	55590	110	2.07	55597
32	0.17	55591	125	2.33	55598
40	0.26	55592			

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

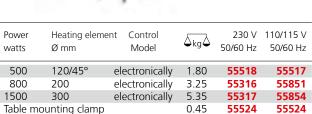
APPLICATION AREA

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





		ACCE	SSORIES		
Model	$\sqrt{\log \Delta}$	No.	Model	\(\rangle \text{kg} \rangle \)	No.
Table mounting clamp for P 125			Floor stand for ROWELD P 125	0.44	55539
Adaptor plate for butt welding ROWFLD P 125 @	7 160 mm ('1 set = 2 i	ncs) non-stick Teflon coating	1 15	55536

Peeling device

For secure, quick preparation of the pipe, in transport case.



Model	Ø Working range	No.
Size I	32 - 110 mm	53240
Size II	110 - 500 mm	53250

Squeezing device

Mechanical:

Range of use from Ø 32 - 63 mm. To avoid damage to the squeezed area, distance plates can be adjusted on the side.

Hydraulic:

Range of use from Ø 75 - 225 mm. Functions as mentioned above. With this unit you can reform squeezed pipes with the help of the rounding shells.



Model	Ø Working range	No.
Squeezing device mechanical Squeezing device hydraulic	32 - 63 mm 75 - 180 mm	53200 53210
Squeezing device hydraulic	160 - 225 mm	53220

Clamping device

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.



Quad clamps

For manufacturing standard connections with rod shaped material Ø 63 - 225 mm.



Re-Rounding clamps

For fixation of the welding depth and for rounding PE pipes after squeezing.



Model	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	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 clamp	63 mm	53271
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
Re-Rounding clamp	25 mm	53281
Re-Rounding clamp	32 mm	53282
Re-Rounding clamp	40 mm	53283
Re-Rounding clamp	63 mm	53285

Cutting

ROCUT UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm

Product profile

APPLICATION AREA

For cutting of plastic pipes made of PE, PP and PVC. For use on the building site or in the workshop

KEY FEATURES

- 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 HzPower:1,750 WOuter pipe diameters:160 - 355 mmWall thickness pipe:8 - 40 mm

Transport box without saw (No. 1200000526)



Four rubberised clamping and guide rollers ensure right-angled cuts with no misalignment



Secure clamping and optimum pipe centring are guaranteed by the central trapezoidal clamping device





Model	$\Delta_{kg}\Delta$	No.
ROCUT UKS 160 / 355, complete with		1000000532
HM saw blade (No. 55505), without transport	t box	
Spare HM saw blade 180 x 30 mm	0.6	55505
Transport box 700 x 350 x 500 mm	16.8	1200000526

ROCUT XL

Pipe cutter for pipes Ø 125 - 315 mm

Product profile

APPLICATION AREA

For cutting-off pipes in trenches, for making repairs or extensions



Model	► ○ -	inch	Wall thickness	No.
ROCUT XL	125 up to 125 mm	4"	max. 11.4 mm	1500000789
ROCUT XL :	225 up to 225 mm	8"	max. 18 mm	1500000790
ROCUT XL:	315 up to 315 mm	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	0.5	1500000793
For ROCUT XL 225	0.7	1500000794
For ROCUT XL 315	2.1	1500000795

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Cutting

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	► ○	∑ _g ∆	No.
Chamfering unit size 1	16 - 110	720	55050
Chamfering unit size 2	32 - 160	800	55051
Spare blade size 1 and 2		30	55058

ACCESSORIES











Model		Model	
Pastic pipe shears	22	Deburrer	34
Pastic pipe cutters	27	Mounting	311
Pastic pipe cutting and chamfering tools	26		



PLASTIC PIPE WELDING TECHNOLOGY

ROWELD

Innovative and reliable highest quality pipetools and machinery can be found in the hands of excellent skilled craftsmen and on construction sites all around the globe.







System overview

Complete solutions

ROKLIMA MULTI 4F

ROCADDY 120 R32 Analog/ ROCADDY 120 R32 CL Analog ROCADDY 120 R32 Digital/ ROCADDY 120 R32 CL Digital







Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	-	✓	✓
CO ₂ subcritical (R744):	-	-	✓
System size:	< 24 kW	< 24 kW	< 24 kW
Page	278 - 279	280	280

Refrigeration circuit control

ROCOOL 600

2- and 4-ways manifold connection 5/16" 2- and 4-ways manifold connection 1/4" **Pressure hoses**









Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	-	✓
CO₂ subcritical (R744):	✓	-	-	\checkmark
System size:	all	all	all	all
Page	281	282	282	283

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Refrigeration and air-conditioning technology

System overview

		Ev	acuation			
	ROAIRVAC R32 1.5	ROAIRVAC R32 CL 2.0	ROAIRVAC R32 3.0	ROAIRVAC R32 CL 5.0	ROAIRVAC R32 6.0	ROAIRVAC R32 9.0
		CAS 10		CAS 10		
Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	✓	✓	✓	✓
CO ₂ subcritical (R744):	✓	\checkmark	✓	\checkmark	\checkmark	\checkmark
Cordless:	-	\checkmark	-	✓	-	-
System size:	< 24 kW	< 40 kW	< 74 kW	< 100 kW	< 123 kW	> 124 kW
Page	286 - 287	288	286 - 287	288	286 - 287	286 - 287

Recovery					
	ROREC	ROREC PRO Digital			
		GOTHENSERGER			
Refrigerants class A1: (R134a, R410A etc.)	✓	✓			
Refrigerants class A2: (R32, R1234yf etc.)	-	✓			
CO ₂ subcritical (R744):	-	-			
System size:	< 24 kW	all			
Page	289	290			

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

- Everything you need within reach
- Simple menu guidance guarantees appropriate use









R22















- Pressure resistance up to 80 bar guarantees full use with heat pumps

- Fully automatic control gives time for parallel work
- Safe transport

TECHNICAL DATA

17 kg Weight: 1 x 10⁻² mbar Final vacuum: Scale range: up to 100 kg Resolution: 10 g Pressure hose length: 2,500 mm Pump rating: 42 I / min



Interactive 16-digit display with 4 function buttons

All required parameters can be easily entered

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

Sturdy, compact metal casing

Protects all components such as vacuum pump and scale

Integrated high vacuum pump with 42 I/min suction power

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

Shock-resistant low pressure and high pressure gauges for various refrigerants



Secure storage of all accessories



Pressure hoses: 2.5 m long with



Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces



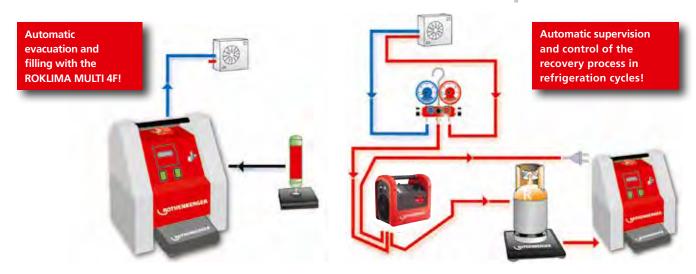


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1:

Refrigeration and air-conditioning technology

Complete solutions



ROKLIMA MULTI 4F in use (evacuation and charging)



Set (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 F - 5/16" SAE M (No. 170016), precision digital scale up to 100 kg, automatic control, vacuum and pressure switch, mineral oil (No. 169200)

Model	$\Delta_{kg}\Delta$	No.
ROKLIMA MULTI 4F	17.0	1000000138
Reducer nieces 1/4" SAF F - 5/16"	" SΔF M O 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 R32 (CL) Analogue/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

Flexible application with corded or battery-powered vacuum pump









(ROCADDY 120 analogue CL)



- Electronic digital scale ROSCALE 120 with a weighing capacity of 120 kg and a measuring accuracy per measuring step of 5
- 2-stage high vacuum pump ROAIRVAC (corded/accumulator) with integrated vacuum gauge and solenoid check valve.
- Digital installer aid for automatic calculation of superheat and subcooling. More than 80 refrigerants stored in the unit
- 2 analogue 4-way installer aids for the common refrigerants R22, R134a, R404A, R407C and the high-pressure refrigerants R410A and R32
- Pressure hose set of 3 PLUS series hoses with shut-off valve for safe working with refrigerants
- TUBE CUTTER 35 and MINICUT II PRO for cutting tubes of diameter 6 - 35 mm to length



Bottle adaptor for 1 kg and 2 kg refrigerant bottles for connection to the scale

Secure mounting of the bottle during charging

Automatic calculation of superheat and subcool. Optionally upgradable through attachment of a vacuum probe and a reading out function

ROCADDY 120 R32 Analog / Digital (No. 1000002560/1000002561) includes: 2-stage vacuum pump ROAIRVAC R32 1.5 (No. 1000002399), 4-way manifold (No. 170502) / 4-way manifold (No. 1000001427) (Analogue), ROCOOL 600 (No. 1000000560) clamping thermometer (No. 1000000540) (Digital), pressure hose set 5/16" SAE 1.500 mm (No. 1500000030), pressure hose set 1/4" SAE 1.500 mm (No. 1500000028), ROSCALE 120 (No. 173004), 3/8" SAE F – 1/4" SAE M (No. 89501), 2 x 5/16" SAE F – 1/4" SAE M (No. 01700RD), 5/16" SAE M – 1/4" SAE F (No. 170016), bottle connection 1/4" (No. 173205), bottle connection 5/16" (No. 173204), mineral oil (0,4 l), Tube Cutter 35 (No. 70027), Minicut II Pro (No. 70402), transport case (No. 169051)

Model		Perform	nance	$\Delta_{kg}\Delta$	No.
R410A	R22	R134a	R407C	R404A	R32
ROCADDY	120 R32				
Analog		42 1/1	min	20 1	1000002560
Digital		42 1/1	min	19 1	1000002561

ROCADDY 120 R32 CL Analog / Digital (No. 1000003622/1000003623) includes: 2-stage vacuum pump ROAIRVAC R32 2.0 CL* (No. 1000003229), 4-way manifold (No. 170502) / 4-way manifold (No. 1000001427) (Analogue), ROCOOL 600 (No. 1000000569) / clamping thermometer (No. 1000000540) (Digital), pressure hose set 5/16" SAE 1.500 mm (No. 1500000030), pressure hose set 1/4" SAE 1.500 mm (No. 1500000030), pressure hose set 1/4" SAE M (No. 89501), 2 x [5/16" SAE F - 1/4" SAE M (No. 01700RD), 5/16" SAE M - 1/4" SAE F (No. 170016)], bottle connection 1/4" (No. 173205), bottle connection 5/16" (No. 173204), bottle connection for R32 (No. 173206), mineral oil (0,4 l), Tube Cutter 35 (No. 70027), Minicut II Pro (No. 70402), 8.0 Ah Li-HD battery (No. 1000002549), charger (No. 1000001654), transport case (No. 169051)

Mini tube cutter and pipe cutter

For cutting Ø 6 - 35 mm pipes to length

Model		Pe	erformance	∆kg	۵	No.
R410A	R22	R134a	R407C	R404A	R507	R32
ROCADE	OY 120 R	32				
CL* Ana	log	!	57 I/min	21	1000	003622
CL* Digi	tal		57 I/min	20	1000	003623

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.
- More than 80 refrigerants incl. R32 and 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

Pressure display: bar, psi, Kpa, MPa

Temperature display: °C, °F

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): ± 0.5% fs Temperature measurement range: -50 °C to +200 °C

Working temperature: -10 °C to +50 °C 4x 1/4" SAE Connections:

Max. recording time: 12h (device), 96h (red box)

> An absolute all-rounder due to the unique modular system!

Large screen

All important data at a single glance. Strong backlight for dark environment

Connection for the temperature sensor T1

For automatic measurement of superheat data

Connection for the external vacuum probe

For very precise measurement of the vacuum level directly at the refrigeration system

Pressure sensors "Made in Germany"

Precise measurement from -1 to 60 bar

T-connection with Schrader valve 1/4" SAE

3-way function: Evacuation and filling without changing a hose

Y-connections 1/4" SAE

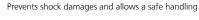
A connection and sealing plug in one. Simple transport of hoses when not in operation

Set (No. 1000000569) includes: ROCOOL 600, 1 temperature sensor Set (No. 1000000570) includes: ROCOOL 600, 2 temperature sensors, carry case Set (No. 1000000572) includes: ROCOOL 600, 2 temperature sensors, red box and data viewer software, carry case

Model	No.
Set with 1 temperature sensor (in the blister) Set with 2 temperature sensors (in the case)	1000000569 1000000570
Set with 2 temperature sensors, red box, data viewer software (in the case)	1000000572

Solid and non-tacky rubber coating ROTHENBERGER 184 4 100

Model



Connection for the temperature sensor T2

For automatic measurement of subcool data

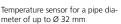
Green and red LEDs

An optical signal is displayed once an adequate vacuum level is reached or leakage in the system and also a warning of overpressure



Connection of the Red Box

To record data for up to 96 hours and independent read out of data at a PC





External vacuum probe for very precise measurement of the vacuum



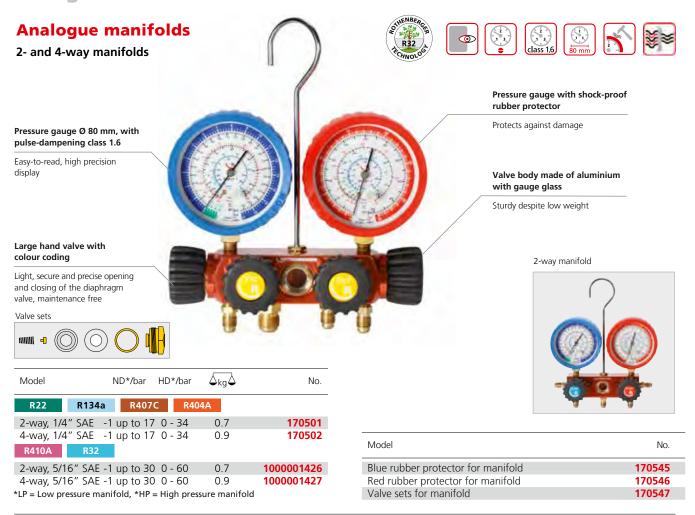
Set (No. 1000000539) includes: Red box, data viewer software, connection cable, external power supply

Red box, software, connection cable,	1000000539
external power supply	
Temperature sensor	1000000540
Vac probe	1000000541



Nο

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	tandard"				
R22	R134a	R407C	R404A		
Manifold s	et 2-way "	Standard"		2.7	170600
R410A	R32				
Manifold s	set 2-way "	Standard"		2.7	170607
4-way "S	tandard"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way l	"Standard"		2.8	170601
R410A	R32				
Manifold s	et 4-way l	"Standard"		2.8	170606
4-way "P	lus"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way II	"Plus"		2.8	170602
R410A	R32				
Manifold s	set 4-way II	"Plus"		2.8	170608
Plastic carr	y case			1.4	171505

(only for 170602 and 170608)

No loss of refrigerant

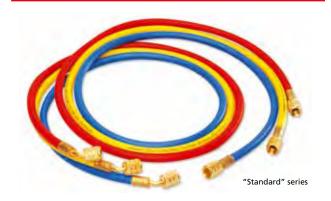
3-piece pressure hose sets

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		Connectio	n Lmm	No.
Vacuum h	ose	3/8" SAE	1,500	1500000032
R22	R134a	R407C	R404A	
	essure hoses	1/4" SAE	1,500	1500000024
Pressure h	ose yellow	1/4" SAE	1,500	1500000025
R410A	R32			
Set of 3 pi	essure hoses	5/16" SA	E 1,500	1500000026
Pressure h	ose yellow	5/16" SA	E 1,500	1500000027













Pressure hose from the series "Plus" with ball valve

Model		Connection	k → L mm	No.
R22	R134a	R407C	R404A	
	ressure hoses nose yellow	1/4" SAE 1/4" SAE	1,500 1,500	1500000028 1500000029
R410A	R32			
	ressure hoses nose yellow	5/16" SAE 5/16" SAE	,	1500000030 1500000031

Tool set Climate I + II

Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

Product profile

APPLICATION AREA

- Monitor temperature and pressure
- Quality hoses with high bursting pressure
- Pipe cutter for all pipe cross-sections from 3 - 35 mm (1/8" - 1.1/8")
- Measurement of ambient and ventilator air temperature
- Clean, kink-free bending of all common pipe cross-sections
- Optimum flaring connections for all types of air-conditioners

Set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses standard 1/4" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", universal flaring tool (No. 222601), plastic case

Set Climate II (No. 170605) includes: 2-way manifold (No. 1000001426), set of pressure hoses standard 5/16" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", reeling flaring tool (No. 222402), plastic case

Model	$\sqrt[4]{\log \Delta}$	No.
Tool set Climate I	2.3	170604
Tool set Climate II	2.4	170605



















No. 170604



Leak testing and locating

Nitrogen set

Multiple uses for refrigeration systems

Этинская

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!



5/16" SAE adaptor for connecting to R410 units



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 ³)		259060
Nitrogen bottle, each 950 cm ³	6	259008
Filling hose with pressure gauge		259010
Connection 5/16" SAE internal, 1/4" SAE	external	01700RD

Leak testing and locating

ROLEAK Pro

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)

Product profile

KEY FEATURES

- Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds
- Suitable for R32
- Simple determination of the refrigerant concentration
- Adjustment of the sensor tips zero measurement point for simple detection of the leak
- Reference leak for functionality test included
- Easy accessibility of even hard to reach leaks







R410A

R134a R407C R404A

TECHNICAL DATA

Leak status: LED display Sensor length: 40 cm

Leak detection rate: 3 g/a within 3 seconds

Weight: 400 g

Working temperature: 0 °C up to 40 °C

Voltage: 6 V (4 AA batteries included)



No. 1500002241

Model No.

ROLEAK Pro 1500002241 in plastic case



Evacuation

ROAIRVAC R32

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



Gas ballast valve

Reduction of water vapour in the oil container, guarantees higher evacuation power and service life

Special filter

Reduces oil mist on exhaust vent



Ergonomic handle

Light, compact and easy to transport

Removable cable

Prevents cable damage

Integrated vacuum gauge

Simple and fast control of the evacuation process

Integrated solenoid valve

Prevents backwash of oil into the refrigeration system

Light and high-quality casing

Protects the integrated components

Increased torque and long service life * (only with ROAIRVAC R32 1.5, 3.0 and 6.0)

Four-pole motor*





Optimal positioned viewing glass and oil drains for simple draining of the oil



Practical: operating instructions always



13

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ROAIRVAC R32 Series

Two-stage rotary vane pump for evacuation in accordance with DIN 8975

Туре	ROAIRVAC R32 1.5	ROAIRVAC R32 3.0	ROAIRVAC R32 6.0	ROAIRVAC R32 9.0
No.	1000002399	1000002713	1000001231	1000002714
Pumprating	1.5 CFM / 42 I/min /	3.0 CFM / 85 I / min /	6.0 CFM / 170 I/min /	9.0 CFM / 255 l/min /
	2.5 m³/h	5.1 m³/h	10.2 m³/h	15.3 m³/h
Vacuum stages	2	2	2	2
Final vacuum	15 micron / 0.02 mbar			
Motor rating	190 W / 1720 r/m	250 W / 1720 r/m	550 W / 1720 r/m	750 W / 3440 r/m
Voltage	230 V	230 V	230 V	230 V
Frequency	50 Hz / 60 Hz			
Connection	1/4"	1/4"	1/4"	1/4"
with adaptor	5/16" SAE M/3/8" SAE M			
Oil capacity	250 ml	330 ml	580 ml	590 ml
Weight	10.1 kg	11.9 kg	17.3 kg	18.4 kg
Manifold Ø	45 mm	50 mm	80 mm	80 mm

Future-proof product for the increased use of R32 refrigerants





ROAIRVAC R32 1.5 (42 l/min)



ROAIRVAC R32 3.0 (85 l/min)



ROAIRVAC R32 9.0 (255 l/min)

Mineral oil is included in all pump deliveries



ROAIRVAC R32 6.0 (170 l/min)

Scope of delivery ROAIRVAC: vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	$\Delta_{kg}\Delta$	No.
ROAIRVAC R32 1.5	42 l/min	10.1	1000002399
ROAIRVAC R32 3.0 ROAIRVAC R32 6.0	85 l/min 170 l/min	11.9 17.5	1000002713 1000001231
ROAIRVAC R32 9.0 Mineral oil 1 litre	255 l/min	18.4	1000002714 169200

ROAIRVAC R32 1.5 - vacuum pump in use with the digital manifold ROCOOL 600 $\,$



ROAIRVAC R32 2.0/5.0 CL

Battery driven two-stage vacuum pump

Product profile

KEY FEATURES

- Compatible with CAS battery system
- Solenoid check valve to protect the refrigeration system from oil contamination during power outage
- Protects the integrated components with the light and high-quality casing
- Gas ballast valve for reduction of water vapor in the oil container
- Special filter reduces oil mist on exhaust vent
- 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









TECHNICAL DATA

2.0 CFM / 57 l/min Pump rating: Vacuum stages: Final vacuum: 23 micron 15 micron

Voltage: 18V 18V

5/16" SAEM / 5/16" SAEM / 3/8" SAE M 3/8" SAE M

Ergonomic handle

Light, compact and easy to transport

Battery LED indicator

Easy management of remaining battery power

CAS battery

Compatible with more than 200 power tools from 20 manufacturer

Brushless Motor

For wear-free work and longer machine life

R32 2.0 CL R32 5.0 CL 5.0 CFM / 142 l/min Motor power: 185 W/3.600 r/m 550W/1.800r/m Connection: 1/4" 1/4" with Adapter:

Oil capacity: 180 ml 350 ml

Gas ballast valve

Reduction of water vapour in the oil container, guarantees higher evacuation power and service life.2)

Special filter

Reduces oil mist on







Light and high-quality casing

No. 1000003229



No. 1000003231



No. 1000003230



No. 1000003233

One battery, many solutions.

Founded in 2018, 20 manufacturers are already using the Cordless Alliance System, CAS for short, as of September 2021. CAS is the first cross-manufacturer battery system.

Model	$\sqrt[]{\log \Delta}$	No.
ROAIRVAC R32 2.0 CL	3.7	1000003229
ROAIRVAC R32 2.0 CL incl. battery Li-HD,	6.1	1000003230
8.0 Ah 18 V and charger in ROBUCKET		
ROAIRVAC R32 5.0 CL	7.5	1000003231
ROAIRVAC R32 5.0 CL incl. battery Li-HD,	10.5	1000003233
8.0 Ah 18 V and charger in ROBUCKET		

Refrigeration and air-conditioning technology

Recovery and filling

ROREC

Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants of all kinds

1 3











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 A1 refrigerants of the type CFC, HCFH

and HFC

Capacity: gaseous: 0.26 kg / min

fluid: 1.85 kg / min push/pull: 6.22 kg / min

Electrical data: 230 V / 50 - 60Hz

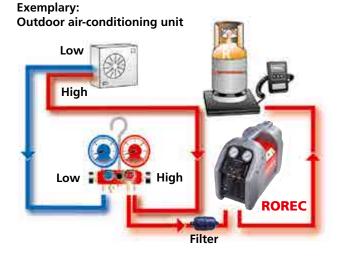
Power: 370 W **High pressure switch:** 38.5 bar

Dimensions: 490 x 244 x 353 mm

Weight: 17 kg



Recovery of refrigerant



Simple and precise reading with the glycol filled pressure gauge



- 11	· (2)		211
- 113	0.3	*	-11
- 80			-
- 10	-		- 61
- 101	100	1 25	
- 10			

Practical storage compartment

for accessories on the back

Model	Connected Load	$\sqrt{\log \Delta}$	No.
ROREC Filter	370 W	17.0 0.12	168605 168713
riitei		0.12	100713



ROREC PRO Digital

Refrigerant recovery device

Lightweight recovery unit for the recovery of refrigerants of the classes A1, A2L and A2 (incl. R32), suitable for all unit sizes thanks to its high recovery rate.

Product profile

KEY FEATURES

- Suitable for refrigerants of the classes A1, A2L and A2 (incl. R32)
- Compact design with a weight of less than 12 kg
- Digital display and one-knob control
- Maintenance free operation with the oil-free 2-piston compressor
- 4-pole motor guarantees the durability of the machine
- Automatic shut-off and automatic restart once the pressure increases again
- Emptying of refrigerant residues with the PURGE function







TECHNICAL DATA

Recovery rate: gaseous: 0.5 kg / min; 30 kg / h

fluid: 3.5 kg / min; 210 kg / h push/pull: 9.5 kg / min; 570 kg / h

Power supply: 230 V / 50 - 60 Hz

Power: 730 W **High pressure switch:** 38.5 bar

Product dimensions: 380 x 250 x 350 mm

Weight: 12 kg

Digital display

Clearly structured display of the measured pressure values

Low pressure switch

Automatic shut-off and automatic restart once the pressure increases again



Oil-free 2-piston compressor

Very high recovery rate with maintenance free operation



Practical storage compartment

Storage of accessories in the back



Shoulder strap for transport over

Clearly structured digital display



Model	$\Delta_{kg}\Delta$	No.
ROREC PRO Digital	12.0	1500002637
Filter	0.12	168713

Recovery and 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





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

Refrigeration and air-conditioning technology

Weight capacity: 120 kg or 264 lbs Accuracy: +/- 0.5% Resolution: 5 g / 0.2 oz.

Working temperature: -10° C up to +49° C / 14 up to +120° F

1/4" SAE for 1 - 2 lit. bottles Connection:

9 V **Battery:**

Platform size: 230 x 230 x 53 mm

Weight: 3.28 kg



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

- 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.
R410A	Refrigerant R410A in cardboard pack	kaging	
1 steel k	oottle 5/16" SAE, 800 g	6	170912
2 steel k	oottle 5/16" SAE, 1,600 g	4	170932
R32	Refrigerant R32 in cardboard packagi	ing	
1 steel k	oottle 1/2" SAE, 780 g	6	170960
2 steel k	oottle 1/2" SAE, 1,800 g	4	170961





Accessories

SANIFRESH

Deodorising cleaning spray



Product profile

KEY FEATURES

- Removes the threat of disease and allergies practical and ecologically friendly solution for removing mites, dust, bacteria and spores
- Spray is applied directly to affected surface
- Economical spray can with spray nozzle and spray tube
- Removes unpleasant odours. Pleasant mint smell

Model		Volume	No.
Sanifresh (contains 12 bottles)	1	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 Adaptor, W21.8 x 1/4" SAE M connection	173204 170950
with seal for 2 sized bottles Adaptor W21,8 LEFT x 1/4" SAE M connection	1500003381
for combustible refrigerants like R32	1300003361
Adaptor 1/2" LEFT - 5/16" SAE M connection	173206
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	01700RD
with valve trigger	

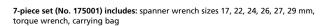
Torque wrench set

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**







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	$\Delta_{kg}\Delta$	No.
Torque wrench set, 7 pcs.	1.7	175001





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

- For straightening the plate fins of heat-exchangers
- 6 different sizes in one tool



Model	Product dimensions	No.
Plate fin comb	8 - 9 - 10 - 12 - 14 - 15 fins per inch	224500

Refrigeration and air-conditioning technology

General instructions for the use of refrigerants

Refrigerant data from CFC-alternative refrigerants

Refrigerant	Composition	ODP	GWP	Temperature glide
R22 (HFCKW refrigerant)	CHCLF2	0.05	1,810	-
R134a (HFKW-chlorine-free refrigerant)	CF3CH2F	0	1,430	_
R32 (HFKW-chlorine-free refrigerant)	CH2F2	0	675	-
R404A (HFKW-chlorine-free blends)	52% R143a, 44% R125, 4% R134a	0	3,922	_
R507 (HFKW-chlorine-free blends)	50% R143a, 50% R125	0	3,985	-
R407C (HFKW-chlorine-free blends)	23% R32, 25% R125, 52% R134a	0	1,774	7.5K
R410A (HFKW-chlorine-free blends)	50% R32, 50% R125	0	2,088	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

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Refrigeration and air-conditioning technology

Conversion table pressure, temperature

Conversion table pressure

mbar	Micron	TORR	mm HG Vakuum
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







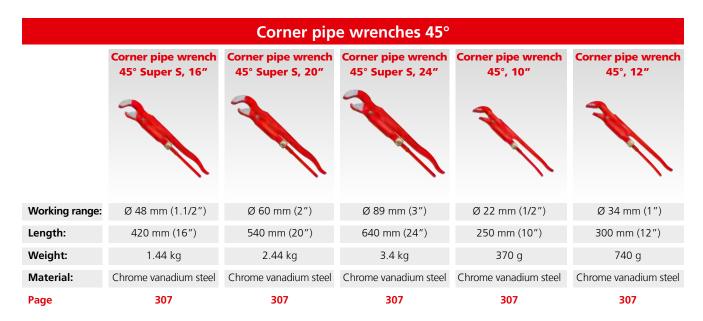
System overview





Water pump pliers				Corner pipe v	wrenches 45°
	Wapu type SPK 7"	Wapu type SPK 10"	Wapu type SPK 12"	Corner pipe wrench 45 ° Super S, 10"	Corner pipe wrench 45 ° Super S, 12"
		The state of the s	Tell	3	The same of the sa
Working range:	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")	Ø 22 mm (1/2")	Ø 34 mm (1")
Length:	175 mm (7")	250 mm (10")	300 mm (12")	250 mm (10")	300 mm (12")
Weight:	165 g	315 g	475 g	400 g	810 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	305	305	305	307	307

System overview



Cor	Corner pipe wrenches 45°			Pipe wrenches 90°			
	Corner pipe wrench 45 °, 16"	Corner pipe wrench 45 °, 20"	Pipe wrench 90° 12"	Pipe wrench 90° 16"	Pipe wrench 90° 20"		
	3	The state of the s					
Working range:	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 34 mm (1")	Ø 48 mm (1.1/2")	Ø 60 mm (2")		
Length:	420 mm (16")	540 mm (20")	300 mm (12")	420 mm (16")	540 mm (20")		
Weight:	1.34 kg	2.4 kg	740 g	1.34 kg	2.4 kg		
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel		
Page	307	307	307	307	307		

	Pipe wrenches 90°			One-handed pipe wrenches HEAVY DUTY			
	Pipe wrench 90° 24"	Pipe wrench 90° 36"	HEAVY DUTY 6"	HEAVY DUTY 8"	HEAVY DUTY 10"		
Working range:	Ø 89 mm (3")	Ø 114 mm (4")	Ø 22 mm (1/2")	Ø 32 mm (1")	Ø 48 mm (1.1/2")		
Length:	640 mm (24")	750 mm (36")	152 mm (6")	200 mm (8")	250 mm (10")		
Weight:	3.4 kg	5.6 kg	250 g	400 g	780 g		
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel		

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System overview

One-handed pipe wrench HEAVY DUTY **HEAVY DUTY 14" HEAVY DUTY 24" HEAVY DUTY 36" HEAVY DUTY 12" HEAVY DUTY 18"** Working range: Ø 60 mm (2") Ø 60 mm (2") Ø 73 mm (2.1/2") Ø 89 mm (3") Ø 141 mm (5") Length: 300 mm (12") 350 mm (14") 450 mm (18") 600 mm (24") 900 mm (36") Weight: 1.25 kg 1.68 kg 2.67 kg 4.32 kg 7.5 kg Material: Chrome vanadium steel 308 308 308 308 308 Page

One-handed pipe wrench HEAVY DUTY			One-handed pipe wrench ALUDUR			
	HEAVY DUTY 48"	HEAVY DUTY 60"	ALUDUR 10"	ALUDUR 14"	ALUDUR 18"	
	7	The same of the sa	7	Th	Th	
Working range:	Ø 168 mm (6")	Ø 203 mm (8")	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 73 mm (2.1/2")	
Length:	1,200 mm (48")	1,300 mm (60")	250 mm (10")	350 mm (14")	450 mm (18")	
Weight:	15.8 kg	24 kg	480 g	990 g	1.63 kg	
Material:	Chrome vanadium steel	Chrome vanadium steel	Aluminium	Aluminium	Aluminium	
Page	308	308	308	308	308	

	Pliers wrench				
	ALUDUR 24"	ALUDUR 36"	ALUDUR 48"	ALUDUR 60"	ROFAST
	Th	Th	Th	TA	Tisk to the second seco
Working range:	Ø 89 mm (3")	Ø 141 mm (5")	Ø 168 mm (6")	Ø 200 mm (8")	Ø 50 mm (1.7/8")
Length:	600 mm (24")	900 mm (36")	1,200 mm (48")	1,300 mm (60")	254 mm (10")
Weight:	2.51 kg	5 kg	8.42 kg	14.6 kg	580 g
Material:	Aluminium	Aluminium	Aluminium	Aluminium	Chrome vanadium steel
Page	308	308	308	308	310

One-handed pipe wrench STILLSON











Page	308	308
Material:	Steel, drop forged	Steel, drop forge
Weight:	280 g	590 g
Length:	200 mm (8")	250 mm (10")
Working range:	Ø 27 mm (3/4")	Ø 34 mm (1")

308	308
Steel, drop forged	Steel, drop forged
715 g	1.04 kg
300 mm (12")	350 mm (14")
Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")

Ø 60 mm (2") 450 mm (18") 1.74 kg Steel, drop forged 308

One-handed pipe wrench STILLSON

ROCASE case system









		_
Working range:	Ø 73 mm (2.1/2")	Ø 102 mm (3.1/2")
Length:	600 mm (24")	900 mm (36")
Weight:	3.08 kg	5.69 kg
Material:	Steel, drop forged	Steel, drop forged

Sizes:	5
Volume:	5.7 until 48.2 l
Weight:	0.63 until 2.64 kg
Material:	ABS plastic

2	
0.65 until 1.37 l	
0.00 (1.0.47.1	
0.09 until 0.17 kg	
ABS plastic	

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Power tools



Voltage:	18 V				
Max. torque soft:	34 Nm				
Max. torque hard:	60 Nm				
Drill-Ø steel:	13 mm				
Drill-Ø soft wood:	38 mm				
No-load speed: 0 - 450 / 0 - 1,600 /min					



Voltage:	18 V
Max. torque:	400 Nm
Max. impact rate: 4,250	/min.
Bit retainer: Male square1/2" (12.7 mm)	
Speed/torque le	vels: 12



Voltage:	18 V
Grinding wheel Ø: 125 mm	
Idle frequency: 8,000 /min.	



Voltage:	18 V
Max. single b (EPTA):	olow energy 2.2 J
Max. impact rate:	4,000 /min.
Drill-Ø concre	e t: 24 mm

Bit retainer:

SDS-plus



Max. lumin. flux:	410 lm
Max. operation ti	me
per battery load:	
18 V/2.0 Ah: 4.5 St	d.
18 V/4.0 Ah: 9.1 St	d.
Weight:	0.46 kg

Pliers

ROGRIP M

Quickly adjustable water pump pliers

KEY FEATURES

- Durable: Due to double hardening, the teeth are particularly wear-resistant
- Slip-resistant: The shape of the teeth (self-locking), the 3-touchpoint grip on the pipe and the soft-touch handle, prevent slipping of the pliers
- Large gripping capacity: 30% more gripping capacity*: 10" pliers up to 2" pipe diameters

TECHNICAL DATA

- Chrome vanadium steel tempered, drop forged with heavy-duty box joint
- Polished head and joint
- Double hardened jaws, extremely durable

Model	Working range		No.
ROGRIP M 7" 1K	1.1/4"	6	1000002697
ROGRIP M 7" 2K	1.1/4"	6	1000002698
ROGRIP M 10" 1K	2"	6	1000002699
ROGRIP M 10" 2K	2"	6	1000002700



ROGRIP F

Quickly adjustable water pump pliers

KEY FEATURES

- Durable: Due to double hardening, the teeth are particularly wear-resistant
- Slip-resistant: The shape of the teeth (self-locking), the 3-touchpoint grip on the pipe and the soft-touch handle, prevent slipping of the pliers
- Large gripping capacity: 30% more gripping capacity*: 10" pliers up to 2" pipe diameters
- Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment

Curve-Shape-Design: especially ergonomic



3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 2"



Model	Working range		No.
ROGRIP F 7" 1K	1.1/4"	6	1000002701
ROGRIP F 7" 2K	1.1/4"	6	1000002702
ROGRIP F 10" 1K	2"	6	1000002704
ROGRIP F 10" 2K	2"	6	1000002705



ROGRIP XL

Quickly adjustable water pump pliers

KEY FEATURES

- 16" pliers up to 3.1/2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- 14 point size adjustment

TECHNICAL DATA

- Chrome vanadium steel tempered, drop forged with heavy-duty box joint
- Polished head and joint
- Double hardened jaws, extremely durable

Enourmos gripping width of 3.1/2" reliable grip during application



<u>L</u> inch	mm	► O • max. inch	► max. mm	ΔgΔ	No.
16"	440	3.1/2"	102	1,400	1000000328

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







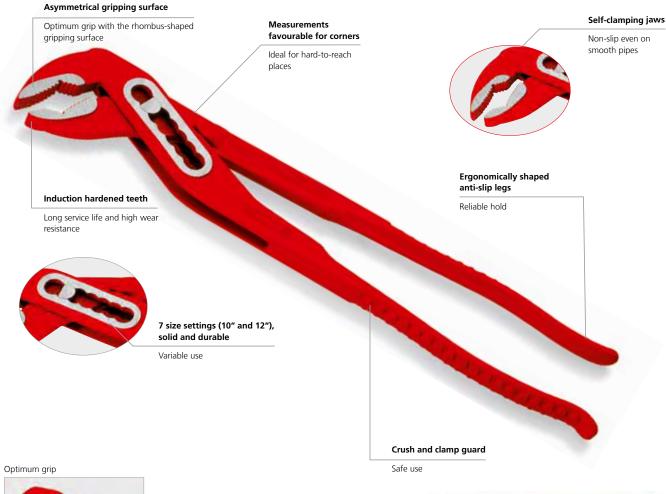
Product profile

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



No.	<i>[1111</i>]	$\Delta_g \Delta$	► max. mm	▶ ⊘ ¬ max. inch	<mark>L ⊲</mark> mm	inch
70527	6	150	34	1"	175	7"
70528	6	290	43	1.1/4"	250	10"
70529	6	460	48	1 1/2"	300	12"



Pliers

Water pump pliers type SPK

KEY FEATURES

 Features similar to type SP, additionally with plastic covered handles







Increased safety: Plastic covered handles!



inch	L mm	▶ ○ ◄ max. inch	► ○ ◄ max. mm	ΔgΔ	<i>(1111</i>)	No.
7"	175	1"	34	165	6	70521
10"	250	1.1/4"	43	315	6	70522
12"	300	1.1/2"	48	475	6	70523
10"	Counte	er display (1	2 pcs.)			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

- 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 r	► ○ - max. inch	► max. mm	∑g ∆		No.
9.1/2"	245	1.1/2"	48	330	1	70591
12"	300	2"	60	560	1	70592
16"	420	4"	114	1,150	1	70593





Pliers sets

ROBOX pliers sets **⑤**

3-part pliers sets for holding and turning of diverse types of pipes

3-part set (No. 1000002188) includes: corner pipe wrench 45°, SUPER S, 1" (No. 070122X), ROGRIP M 10" 1K (No. 1000002699), ROGRIP M 7" 1K (1000002697), ROBOX B2650 (No. 1000002763)

3-part set (No. 1000002189) includes: one-handed pipe wrench ALUDUR, 14" (No. 70160), ROGRIP M 10" (No. 100002699), ROGRIP M 7" 1K (1000002697), ROBOX B2650 (No. 1000002763)

For the individual pliers see 302 - 310

Model	√kg Å No	٥.
Pliers set w/ corner pipe wrench, ROBOX (3 pcs.)	1.6 1000002188	
Pliers set w/ ALUDUR, ROBOX (3 pcs.)	1.7 1000002189 ° * ROBOX system p. 3	



Professional sets

Practice-oriented set of pipe wrenches and pipe cutter

3-part set (No. 070130X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), pipe wrench 2" (No. 070124X)

4-part set (No. 070135X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528), TUBE CUTTER 35 (No. 70027)

3-part set (No. 070140X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528)

Model	$\sqrt[]{\log \Delta}$	No.
Set 1 - 1.1/2 - 2"	5.0	070130X
Set 2 - 1.1/2" + wapu SP 10" + TC35	3.1	070135X
Set 3 - 1.1/2" + wapu SP 10"	2.7	070140X







No. 070130X

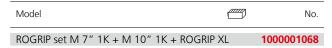
No. 070135X

No. 070140X

ROGRIP pliers sets

The quickly adjustable water pump pliers generation ROGRIP is available as practice-oriented sets in two different sizes.

3-part set (No. 1000001068) includes: ROGRIP M 7" 1K (No. 1000002697), ROGRIP M 10" 1K (No. 1000002699), ROGRIP XL 16" (No. 1000000328)





No.1000001068

Corner pipe wrench 45°, SUPER S

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

KEY FEATURES

- Self-clamping: 3-point clamping ensures reliable and firm grip even on smooth pipes
- Reliable grip and non-slip with teeth set against turning direction, induction hardened
- Double-T profile jaws, ideal for clamping different material forms, enables universal application





Inch	mm	Inch	p L mm	ΔgΔ		No.
1/2"	22	10"	250	400	6	070121X
1"	34	12"	300	810		070122X
1.1/2"	48	16"	420	1,440		070123X

Inch	► O	Inch	p L mm	√ _g ∆		No.
2"	60	20"	540	2,440		070124X
3"	89	24"	640	3,400	1	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	⊾ Inch	<mark>⊩ L</mark> mm	\sqrt{g}	No.
1/2"	22	10"	250	370	070131X
1"	34	12"	300	740	070132X

Inch	mm	Inch	mm	ΔgΔ	No.
1.1/2"	48	16"	420	1,340	070133X
2"	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







No.	Δgδ	mm	⊩L Inch	► O -	Inch
070110X	740	300	12"	34	1"
070111X	1,340	420	16"	48	1.1/2"
070112X	2,400	540	20"	60	2"

Inch	mm	⊩ Inch	mm	\sqrt{g}	No.
3"	89	24"	640	3,400	70113
4"	114	36"	750	5,600	70114

Pliers

One-handed pipe wrench HEAVY DUTY

KEY FEATURES

- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of pipe-Ø using scale on hook
- Wearing parts replaceable: hook and heel jaw can be purchased separately
- Monoblock cast body with high strength, double T profile, forged jaw and hook, fine polished, teeth set against turning direction, induction hardened, tempered and non-slip adjustment screw



2-part set (No. 1000002194) includes: one-handed pipe wrench HEAVY DUTY 6" (No. 70148), ROBOX B2350 (No. 1500002641)

Model	$\Delta_{kg}\Delta$	No.
One-handed pipe wrench	0.33 10000	02194*
HEAVY DUTY 6", ROBOX 5		

* ROBOX system p. 336





US-norm GGG-W-651 type II class A

	⊩_ Inch	mm	► □ Inch	► O	$\sqrt{\log kg}$		No. pliers	No. hook	No. jaws
Ī	6"	160	3/4"	26	0.25	1	70148	70199	70189
	8"	200	1"	32	0.40	1	70150	70200	70190
	10"	250	1.1/2"	48	0.78	1	70151	70201	70191
	12"	300	2"	60	1.25	1	70152	70202	70192
	14"	350	2"	60	1.68	1	70153	70203	70193
	18"	450	2.1/2"	73	2.67	1	70154	70204	70194
	24"	600	3"	89	4.32	1	70155	70205	70195
	36"	900	5"	141	7.5	1	70156	70206	70196
	48"	1,200	6"	168	15.80	1	70157	70207	70197
	60"	1,300	8"	203	24.00	1	70158	70208	70198

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	mm	Inch	mm	$\sqrt[]{\log \lambda}$		No. pliers	No. hook	No. jaws
10"	250	1.1/2"	48	0.48	1	70159	70201	70191
14"	350	2"	60	0.99	1	70160	70203	70192
18"	450	2.1/2"	73	1.63	1	70161	70204	70194
24"	600	3"	89	2.51	1	70162	70205	70195
36"	900	5"	141	5.00	1	70163	70206	70196
48"	1,200	6"	168	8.42	1	70168	70207	70197
60"	1,300	8"	203	14.60	1	70169	70208	70198

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	► O-	mm	$\sqrt[]{\log \lambda}$		No. pliers	No. hook
8"	200	3/4"	27	0.28	1	70350	70374
10"	250	1"	34	0.59	1	70351	70375
12"	300	1.1/4"	43	0.72	1	70352	70376
14"	350	1.1/2"	48	1.04	1	70353	70377
18"	450	2"	60	1.74	1	70354	70378
24"	600	2.1/2"	73	3.08	1	70355	70379
36"	900	3.1/2"	102	5.69	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	mm	► ○ - Inch	► O ¬	$\sqrt{\log \lambda}$	No. pliers	No. hook	No. jaws
						70201 70203	







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	L mm	► O - Inch	► mm	$\Delta_{kg}\Delta$	No. pliers	No. hook	No. jaws
		2" 2.1/2"		890 1,490		70203 70204	



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

► ○ ◄ max. Inch	► □ - max. mm	Inch	p ∟ mm	$\Delta_g \Delta$		No.
4"	115	12"	300	780	1	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

►O- max. Inch	▶ ⊘ ⊲ max. mm	jaws width mm	L mm	$\sqrt{\log \Delta}$	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	



Model	$\sqrt[]{\log \Delta}$	No.
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!

►O- max. Inch	► O - max. mm	⊩_ Inch	<mark>⊫∟</mark> mm	$\sqrt[]{g}$		No.
1"	35	14"	356	740	1	70545
Plastic jav	NS			10		70548

Fitting key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces





Model	<mark>⊢</mark> CI mm	amping widt mm	th and depth mm	Δgδ	No.
Grid adjustment	260	75	45	690	350850
Roll adjustment	275	65	45	780	350900

ROFAST pliers wrench

For gripping, holding, clenching and bending of chrome-plated fittings with delicate surfaces

KEY FEATURES

- Gentle to surfaces: Smooth, parallel jaws enable use on delicate surfaces
- Versatile: Replaces spanner sets (0 50 mm or 0 1.7/8") and dispenses with use of other tools
- Convenient handling: Excellent pressing and clamping force with 10x force transfer for high gripping power



► ○ max. Inch	► max. mm	<mark>⊩ L ⊲</mark> Inch	<mark>⊩L</mark> ⊲ mm	√ _g √	No.
1.7/8"	50	10"	254	580	1500003170

SANIGRIP/SANIGRIP PL

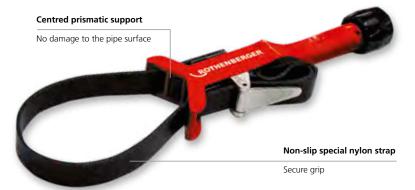
Valve pliers PL

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
- Optimum grip is ideal for plastic screw joints up to Ø 62 mm (siphon)



Model	Inch	mm	max. mm m	· ○ • in. mm	√g Å	No.
SANIGRIP	10"	250	80	14	270	70415
SANIGRIP PL	10"	250	62	14	280	70416



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	► □ -	► □ ⊲ Inch	$\sqrt{\log \Delta}$	No.
EASYGRIP Spare strap EASYGRIP	20 - 160	6″	1.0 0.1	55075 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	► O ⊸ mm	<mark>L⊣</mark> Inch	mm	$\sqrt[]{g}$	No.
3"	89	12"	300	280	70240
Spare strap	3"			20	70268
8"	220	12"	300	290	70241
Spare strap	8"			30	70269



Installation wrenches

UNI stepped key set

Radiator valve stepped key and ratchet 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 UNI stepped key	670 120	10	73297 73298
Gas stepped key 1/2" ratchet	80 440		73280 27180





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
- Three inner threads M8, M10 and M12 for hanger bolts



Model	Dimensions mm	∑ _g ∆	No.
Sanitary four way key multifunctional	220 x 220	610	351043

Sanitary four way key

Chrome vanadium special steel

KEY FEATURES

Multi-functional combined key:

- Four external hexagonal 3/8", 1/2", 3/4", 1" for short tap, extensions, installation and removal of heating valves and tank connectors
- Three inner threads M8, M10 and M12 for hanger bolts (wash basin fittings)



Model	Dimensions mm	\sqrt{g}	No.
Sanitary four way key	220 x 220	590	351044
multifunctional			

Installation wrenches

RO-QUICK

Valve key



KEY FEATURES

- Quick and problem-free use by the installation of bathtubs, basins and sinks
- Can be used from the bottom up
- With 2 facing, spring mounted locking cams, as well as holder with T-handle
- Adaptor with star handle for showers, bathtubs (optional accessory)
- Torque-proof immediately on insertion

No damage to chrome-plated parts!

Model	⊢ L mm	\sqrt{g}	No.
RO-QUICK set			70439
RO-QUICK valve key	120	300	70414
Adaptor	75	70	70413

ROCLICK

Combined open-ended / hinged ratchet wrench

Chrome vanadium steel, polished and high shine chrome-plated

KEY FEATURES

- Moveable ring ratchet allows for use even in tight spaces
- Precise work with the fine-running ratchet (72 teeth)

Small operating radius of only 5°!



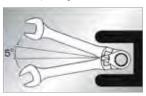
Fig. ROCLICK wrench set



7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	ΔgΔ		No.
ROCLICK spanner set. 7 pcs.	1.150	1	70490

Small 5° operating radius



Adjustable inclination angle





Installation wrenches

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!





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

7-part set (No. 1750.01) includes: spanner wrench sizes 17 - 22 - 24 - 26 - 27 - 29 mm, torque wrench, carrying bag

Model	$\sqrt{\log \Delta}$	No.
Torque wrench set, 7 pcs.	3.5	175001

Ratchet spanner ROCLICK

Chrome vanadium, head black atramentized



Model	Key width mm	mm	\sqrt{g}	No.
Ratchet spanner ROCLICK	10	134	80	70420
Ratchet spanner ROCLICK	11	137	80	70419
Ratchet spanner ROCLICK	12	137	80	70421
Ratchet spanner ROCLICK	13	137	90	70422
Ratchet spanner ROCLICK	14	140	90	70423
	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	<mark>⊩L⊲</mark> mm	\sqrt{g}	No.
Ratchet spanner ROCLICK	16	184	130	70424
Ratchet spanner ROCLICK	17	184	140	70425
Ratchet spanner ROCLICK	19	188	188	70426
Ratchet spanner ROCLICK	21	230	230	70427
Ratchet spanner ROCLICK	24	240	240	70418

SWO adjustable wrench

Chrome-vanadium steel, chrome-plated and polished finish



- Metric measuring scale on jaws for easy jaws pre-setting and sizing of nuts, bolts, pipes, etc.
- Great accessibility in confined spaces, non-protruding jaw shank at maximum opening
- Absolutely parallel jaw surfaces ensure perfect grip of nuts and screws

Size	<u>L</u> up to	Clamping width up to mm (Inch)	ΔgΔ	No.
6"	176 mm	34 (1.3/8")	205	1500001509
8"	216 mm	39 (1.1/2")	345	1500001510

Installation wrenches

Basin nut wrench

Special chrome vanadium steel, drop forged, very tough

DURAMANT ACMINOLOGI

KEY FEATURES

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation







Clamping range mm	Clamping range Inch	mm	$\sqrt[]{g}$		No.
19 - 32	3/4" - 1.1/4"	235	475	1	70228

Telescopic basin nut wrench

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation



Clamping range mm	Clamping range Inch	p ∟ d mm	$\sqrt[4]{g}$	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 - 2.1/2"	290 - 470	780	70227

Basin nut pliers

Special chrome vanadium steel, drop forged, coated with adjustment screw



Model	mm	∑ _g ∆	No.
Basin nut pliers	270	580	351050

Basin nut wrench set 3/8"

The basin nut wrench set is used for loosening or tightening nuts at hard to access spots. The movable T-Grip enables a optimal use of force.





Model	ΔgΔ	No.
Set: Extension 200 mm, T-Grip, Key-width 36-47 and bag	1000	100108
Set: Extension 200mm, T-Grip, Key-width 27-32-36 and bag	1050	100109
Set: Extension 200mm, T-Grip, Key-width 32-36-47 and bag	1200	100110

Screwdrivers

EUROLINE

Screwdrivers

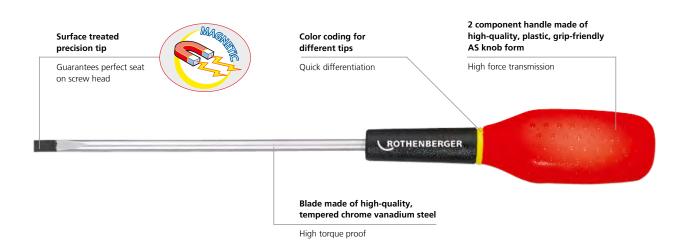
Product profile

KEY FEATURES

- High force transmission with 2 component handle
- High torque
- Guarantees perfect seat on screw head
- Color 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





Screwdrivers sets

Model	$\sqrt[]{\log \Delta}$	No.
Screwdriver set Pozidriv	0.70	73571
Screwdriver set Phillips	0.70	73570

Sets include:	Pozidriv No. 73571	Phillips No. 73570
	140. 75571	140. 75570
	3.5 x 75 mm	3.5 x 75 mm
	4 x 100 mm	4 x 100 mm
	5.5 x 125 mm	5.5 x 125 mm
	6.5 x 150 mm	6.5 x 150 mm
	PZ 1 x 100 mm	
	PZ 2 x 125 mm	
\wedge		PH 1 x 100 mm
V		PH 2 x 125 mm

Screwdrivers

Chisel screwdriver set EUROLINE IMPAKT

Screwdriver with continuous, strengthened blade

Product profile

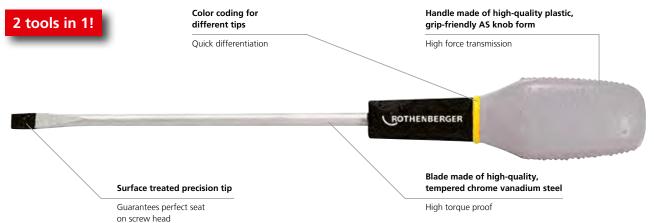
KEY FEATURES

 One-piece, strengthened blade with metal cap allows directed hammer blows, for example loosening stuck screws

Set (No. 73575) includes:

	5.5 x 100 mm
	6.5 x 125 mm
	8 x 150 mm
\sim	PH 1 x 80 mm
	PH 2 x 100 mm





Constant strenghtened blade with metal cap





5-part 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	\sqrt{g}	No.
Chisel screwdriver set EUROLINE IMPAKT, 5 pcs.	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{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-tester		



Installation aids

ROCHECK

Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

KEY FEATURES

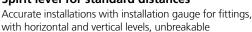
- With horizontal and head levels
- One side with 1/2" external screw thread

Precise Installation!



ROCHECK

Spirit level for standard distances



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	$\sqrt[]{g}$	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 n	nm 260	70665

Cartridge extractor set

Simple extraction of cartridges in taps



KEY FEATURES

- Simple extraction of cartridges in taps
- 4 adaptors with hook, threaded rod, screw or rivet adaptor for cartridges made before 1979, starting in 1979 and MOEM cartridges, as well as extraction tools

Simple use:

Screw the appropriate cartridge extractor on the threaded rod, attach to the cartridge, guide the cartridge body and counter piece over the thread rod, rotate the t-handle and pull the cartridge out of its seat.

Set (No. 854390) includes: T-handle (No. 854380), screw 12 \times 92 (No. 854381), turning handle (No. 854382), threaded rod M10 \times 130 (No. 854383), cartridge body 32 \times 131 (No. 854384), cartridge extractor with thread (No. 854385), cartridge extractor with hook (No. 854386), cartridge extractor 20 \times 45 (No. 854387), counter piece (No. 854388), steel carrying case

Model	ΔgΔ	No.
9-part set	1,250	854390

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

Model	⊢ mm	\sqrt{g}	No.
Standard spirit level	430	260	1500001583
Standard spirit level	600	340	1500001547
Standard spirit level	1,000	640	1500001548

ROMATIC and ruler

Measuring tape



KEY FEATURES

- Easy handling
- Automatic tape rewind
- With set/stop button that can be used as marker for repeated measurements



Model	Measuring length m	Tape width mm	ΔgΔ	No.
Tape measure ROMA	ATIC 5	19	230	77397
Folding ruler, woode	en 2		100	252100

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

	Zoll	<mark>⊨ L</mark> mm	Sheet thickness mm	ΔgΔ	No.
Ī	10"	250	1.0	450	71095

Installation aids

Electrical power combination pliers

- Equipped with an integrated ring spanner for M8 and M10 nuts/screws
- Inductive hardened blade to ensure a higher service life
- Asymmetric grip function can be used to grab round or flat materials



☆ 1000 V IEC 60900

L mm	ΔgΔ	No.
180	250	1500003163

Electrical multi insulation stripper

- Improvement of the common insulation stripper and does not need an adjusting screw
- Ideally suitable to strip Ø 5 16 mm cable coatings
- The stripping function enables cable stripping of singleor multicore cables up to Ø 5.0 mm



Δ	1000 V	
Δ	IEC 60900	

<u>L</u> mm	$\sqrt[]{g}$	No.
180	230	1500003167

Electrical long nose pliers

- Inductive hardened blade to ensure a higher service life
- Integrated M10 ring spanner to tighten/loosen nuts and screws
- Grab wires precisely, the serrated gripping surface ensures a tight, firm grip

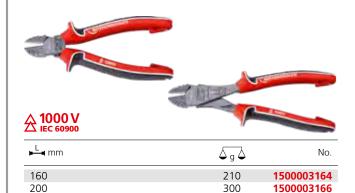


★ 1000 V IEC 60900

<mark>L ⊲</mark> mm	∆ _g ∆	No.
200	200	1500003168

Electrical edge cutter Electrical power edge cutter

- Inductive hardened blade to ensure a higher service life
- Wave profile of the blade provides an anti-slip function:
 The wire does not slip out while being cut
- Comfortable handling thanks to ergonomic 3K handles



Voltage Detector E-Detector 90-1000 V

The non-contact voltage tester detects AC voltage in a range of 90–1000 V. When voltage is detected, a red LED lights up. In addition, a flashlight is attached to the voltage tester.



Model	∑ _g ∆	No.
Voltage Detector E-Detector 90 – 1000 V	90	1500003374

Ergonomic electrical installation pliers

- Integrated stripping function, ring spanner and gripping zone for flat and round material
- Multi purpose tool makes lots of other tools obsolete
- Angled design enables low-fatigue working



RO DD60 cordless drill driver

The RO DD60 can be used as drill and screwdriver







KEY FEATURES

- Quick change of bit retainer and bits, for flexible working
- Spindle with hexagonal recess for screwdriver bits for working without chuck
- Precise working conditions thanks to integrated working light for illuminating the contact area
- Handy belt hook and bit holder can be fixed either on the right or left side

TECHNICAL DATA

Batteryvoltage: 18 V

Max. torque: 34 Nm / 60 Nm

Weight with battery pack: 1.9 kg Drill-Ø steel: 13 mm Drill-Ø soft wood: 38 mm

Spindle with hexagonal recess For screwdriver bits for working without chuck Quick change chuck Quick change chuck for flexible work Belt hook Can be fixed either on the right or left side LED-Light Integrated working light to illuminate the contact area Maximum power Intelligent battery management

Extremely powerful

4-pole motor for fast drilling and screwdriving

Bit holder

Can be fixed either on the right or left side

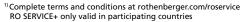


Set (No.1000001647) includes: RO DD60 drill driver, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), quick change chuck, quick change bit holder, belt hook and bit case, ROCASE 4414 anthracite (No. 1000001949)

Model No.

RO DD60 drill driver w/o battery and charger
RO DD60 drill driver set EU

100002035
1000001647



²⁾ More information at cordless-alliance-system.com

with charge indicator to control the

status of charge



Screw bits and drill bits

ROBIT PRO

32 pieces



Set (No. 1500002453) includes: 30-bit: 1/4" x 25 mm, PH: 1, 2, 2, 3 mm, PZ: 1, 2, 2, 3 mm, FD: 3, 4, 5, 6 mm, HW: 3, 4, 5, 6 mm, TX: 10, 15, 20, 25, 27, 30, 40 mm, TTX: 10, 15, 20, 25, 27, 30, 40 mm, TTX: 10, 15, 20, 25, 27, 30, 40 mm, quick release magnetic bit holder

KEY FEATURES

- Extensive bit set as perfect equipment for professional craftsmen
- High-quality material for heavy usage
- Adjustable belt-clip

Model No.

ROBIT PRO 32 pcs. 1500002453

ROBIT PRO torsion

15 pieces



Set (No. 1500002454) includes: 14-bit: 1/4" x 25 mm, PH: 1, 2 mm, PZ: 1, 2 mm, FD: 4, 6 mm, HEX: 3, 4, 5 mm, TX: 10, 15, 20, 25, 30 mm, quick release magnetic bit holder

KEY FEATURES

- For extrem usage
- Suitable for an impact wrench
- Special alloy for maximum life time

Model No.

ROBIT PRO torsion bit set 15 pcs. 1500002454

Toolkit sets

For versatile applications in installation and maintenance



Set (No. 1000002180) includes: 1x thin type lever ratchet handle with 72-teeth gear, 2x extension bars 50mm and 100mm, 1x universal joint, 1x sliding T-head 3/8" x 1/4", 12x sockets: 4-5-5,5-6-7-8-9-10-11-12-13-14mm, in soft foam and ROBOX B2350 (No. 1500002641)

Set (No. 1000002181) includes: 1x 1-1/4" bit holder, 52x bits 1/4" x 25 mm: 13x star bit (torx) 5-6-7-8-9-10-15-20-25-27-30-35-40 mm, 6x hex bit (H) 2-2.5-3-4-5-6 mm, 3x tri wing bit 1-2-3 mm, 5-ribe bit (RM) 5-6-7-8-9 mm, 9-pentalobe bit 7-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-10-15-1020-25-27-30-40-45 mm, 3-spline bit (M) 5-6-8 mm, 6-hex bit SAE (H) 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 4x torq bit 4–6–8–10 mm, 4x spanner bit 4–6–8-10 mm, in soft foam and ROBOX B2350 (No. 1000002641)

Set (No. 1000002182) includes: 10x bits 90mm: 2x Phillips: 1–2 mm, 2x Pozi: 1–2 mm, $6x\ torx:\ 10{-}15{-}20{-}25{-}30{-}40\ mm$ with color ring in soft foam and ROBOX B2350 (No. 1500002641)



Model

No.

17 pcs. socket set 1/4", ROBOX 5 1000002180* 53 pcs. special application bit set 1/4", ROBOX 5 1000002181* 10 pcs. color ring bit set 1/4", ROBOX 5 1000002182*

* ROBOX system p. 336

Hole saw

UNICUT HM

Carbide-tipped hole saws for cutting circular holes Ø 16 - 140 mm (5/8 - 5.1/2") without impact

Product profile

APPLICATION AREA

For stationary and free-hand cutting of circular holes. For iron, steel, V2A - V4A, cast, copper, bronze, aluminium, zinc, plastic, fibre-glass, chipboard and wood, light construction plaster boards without impact

KEY FEATURES

- For use even in high-speed hand drills and stand-mounted drilling machines due to anti-slip shaft
- Positive cutting angle for good chip removal
- Includes adaptor holder and replaceable HSS-Co5 centring drill up to 4 mm sheet thickness, cutting depth 10 mm





UNICUT HM

Hole saw set









pin Ø 6 mm (No. 21394), in plastic case

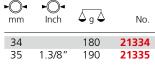
Model

UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm
Spare centering pin HSS 8 mm

21395

Set (No. 21300) includes: hard metal hole saws, drill paste 40 g and spare centering







Impact wrench

RO ID400 cordless impact wrench

Enables the quick assembly and disassembly of screws and hexagon nuts. The profiles of pre-wall installations and sprinkler systems therefore no longer pose a challenge.





KEY FEATURES

- Unique brushless motor for quick work progress and highest efficiency for any application
- High torque accompanied by an exceptionally compact design
- Twelve speed/torque levels for a wide range of applications
- Handy belt hook, can be fixed either on the right or left side

TECHNICAL DATA

18 V Battery voltage:

Weight with

1.9 kg

Batterypack: Max. torque: 400 Nm Max. no-load speed: 0 - 2,150 rpm 4,250 rpm Maximum impact rate:

Unique brushless motor

For quick work progress and highest efficiency for any application

ROTHENBERGER

Belt hook

High torque

compact design

Accompanied by an exceptionally

Can be fixed either on the right or left side

Twelve speed / torque levels

For a wide range of applications

Maximum power

Intelligent battery management with charge indicator to control the status of charge



Can be fixed either on the right or left side



ROTHENBERGER

Set (No.1000001648) includes: RO ID400 impact wrench, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), bit holder, belt hook, ROCASE 4414 anthracite (No. 1000001949)

Model No.

1000002036 RO ID400 impact wrench w/o battery and charger RO ID400 impact wrench set EU 1000001648

Angle grinder

RO AG8000 cordless angle grinder

Smaller working steps such as the abrasive removal of hanger bolts or the cutting of a U-profile are handled quickly and easily. The slim design, as well as the rotating battery, enables work to be undertaken in cramped spaces and also simplifies working areas such as the disassembly area.





KEY FEATURES

- Slim design for prolonged comfort when working overhead or in areas with limited space
- Save time and be safe with the tool-free adjustable guard
- Detachable dust protection filter protects motor from coarse

TECHNICAL DATA

Battery voltage: Weight without

Batterypack: 1.7 kg Idle frequency: 8,000 / min⁻¹

18 V

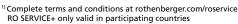
Grinding wheel Ø: 125 mm Spindle thread: M14



Set (No.1000001649) includes: RO AG8000 angle grinder, RO BP18/4 4.0 Ah battery (No. 1000001653), RO BC14/36 charger EU (No. 1000001654), guard, quick-locking nut, side handle, dust filter, ROCASE 4414 anthracite (No. 1000001947)

Model No.

1000002037 RO AG8000 angle grinder w/o battery + charger RO AG8000 angle grinder set EU 1000001649



²⁾ More information at cordless-alliance-system.com





General purpose tools

Cutting discs

Cutting disc assortment For burr-free and quick cutting of stainless steel, steel, cast iron and stone Description	No.	Alloyed and	High strength steel	Tool steel	Rust- and acid- resistant steel	Edged steel profiles	Steel panel	Welded joints	Edged stainless steel profiles	Cast	Alumniumalloying	Copper	Brass / bronze
Cutting disc INOX PROFI PLUS (115 x 1 x 22)	071533D		•	•		•	•	•		0		_	••
Cutting disc INOX PROFI PLUS (125 x 1 x 22)	071534D	•	•	•	••	•	•	•	•	0	••	••	••
Cutting disc INOX FINE CUT (115 x 0.8 x 22)	1500003464	•	•	•	•	••	••	••	••	0	•	•	•
Cutting disc INOX FINE CUT (125 x 0.8 x 22)	1500003465	•	•	•	•	••	••	••	••	0	•	•	•

●● = very well suited ● = well suited ○ = partially suited

INOX PROFI PLUS

Grinding / cutting discs for stainless steel (1 mm)

For thin sheet metal (e.g. in body work, tank equipment and container construction), steel cable, thin-walled profiles and pipes made of stainless steel and NE metals, composite materials (GFK), high-temperature materials

- This very thin wheel enables a one-of-a-kind clean cut with a minimum of effort in a short amount of time
- Millimetre accurate use, vibration-free operation without thermal blue discolouration or burr formation (burr-free)

Model	Dimensions mm	∆g∆		No.
PROFI PLUS box 115 (10 pcs.)	115 x 1 x 22	350	1	071533D
PROFI PLUS box 125 (10 pcs.)	125 x 1 x 22	450	1	071534D

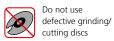








1500003465



INOX-FINE CUT

Cutting disc for stainless steel (0.8 mm)

For thin sheets, steel cables, thin-walled profiles and stainless steel tubes and non-ferrous metals, composite materials (GFK).

- Very high cutting speed ensures a soft and fast cut with minimum contact pressure
- Low flying sparks with extra fine and low-burr cutting pattern



Model	Dimensions mm	∆ g ∆	No.
INOX FINE CUT (10 pcs.)	115 x 0 8 x 22	333	1500003464

INOX FINE CUT (10 pcs.) 125 x 0,8 x 22

ROTHENBERGER

Rotary hammer and chisel

RO RH4000 cordless rotary hammer

The notion of compatibility improves the craftsmanship of the professional plumbers. With the help of the new cordless rotary hammer, slots can easily be drawn, tiling can be knocked into place and pipe clamps can be fastened. There are no working hindrances due to empty batteries, thanks to the ROTHENBERGER battery platform.

RO SERVICE+





KEY FEATURES

- Combination hammer with 3 functions: hammer drilling, drilling and chiselling
- Variospeed (V) electronics for working at customised speeds to suit various application materials
- S-automatic safety clutch: mechanical decoupling of the drive for safe working should the drill stop unexpectedly
- LED work light for optimum view of the drilling site
- Battery packs with capacity display for checking the charge status

TECHNICAL DATA

Battery voltage: 18 V Weight with batterypack: 2.9 kg Max. single blow energy (EPTA): 2.2 J Maximum impact rate: 4.000 /min. Drill-Ø concrete with hammer drills: 24 mm Drill-Ø masonry with core bits: 68 mm Drill-Ø steel: 13 mm Drill-Ø soft wood: 25 mm No-load speed: 0 - 1,100 /min.

Bit retainer: SDS-plus

Automatic safety clutch





Variospeed (V) electronics

For working at customised speeds to suit various application materials

LED light

Integrated working light to illuminate the contact area

Set (No. 100001650) includes: RO RH4000 rotary hammer (No. 1000002038), RO BP18/4 4.0 Ah battery (No. 1000001653), RO BC14/36 charger EU (No. 1000001654), hammer chuck for tools with SDS-plus shank end, rubber-coated side handle drilling depth guide, ROCASE 4414 anthracite (No. 1000001948)

Model	No.
RO RH4000 rotary hammer w/o battery + charge	r 1000002038
RO RH4000 rotary hammer set FU	1000001650

Chisel

High-quality, fully coated steel chisels with high life time. The construction and cutting edge geometry enable a heavy stock removal

Set (No. 1500002829) includes: flat chisel SDS-plus (No. 1500002825), sharp chisel SDS-plus (No. 1500002826), tile chisel SDS-plus, 40 mm (No. 1500002828), ROBOX B2650 (No. 1000002763)



Model	Length	No.
Tile chisel 80 mm SDS-plus 170 mm	170 mm	1500002824
Flat chisel SDS-plus 250 mm	250 mm	1500002825
Sharp chisel SDS-plus 250 mm	250 mm	1500002826
Hollow chisel 22 mm SDS-plus 250 mm	250 mm	1500002827
Tile chisel 40 mm SDS-plus 250 mm	250 mm	1500002828
Chisel set, 3 pcs. SDS-plus w/ ROBOX*		1500002829

the status of charge



¹⁾Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries

²⁾ More information at cordless-alliance-system.com

General purpose tools

Drill bits and lamp

SDS-plus hammer drill



Model	Ø	No.
Hammer drill SDS-plus	6 x 110 mm	111405
Hammer drill SDS-plus	8 x 110 mm	111411
Hammer drill SDS-plus	10 x 160 mm	111419
Hammer drill SDS-plus	12 x 160 mm	111424



Model	Ø	No.
Hammer drill SDS-plus	18 x 450/410 mm	111447
Hammer drill SDS-plus	22 x 450 mm	111452
Hammer drill SDS-plus	25 x 450 mm	111455

RO FL180 cordless LED lamp

The RO FL180 is the perfect companion for plumbing technicians and heating engineers. Due to its size and various adjustment functions, the RO FL180 emits the perfect amount of light and facilitates the everyday work of professional tradesmen.

KEY FEATURES:

- Powerful LED inspection lamp for uniform, bright illumination of the working area
- Compact and handy for versatile use
- Lamp head can be turned and swivelled through 180° providing almost infinite positions for the lamp
- Swivelling hook for suspending the lamp



Set (No.1000001651) includes: RO FL180 LED lamp, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), ROCASE 4212 anthracite

Model	No.
RO FL180 LED lamp w/o battery and charger	1000001734
RO FL180 LFD Jamp set FU	1000001651

TECHNICAL DATA

Max. lumin. flux: 440 lm

Max. operation time

per battery charge: 18 V / 2.0 Ah: 4.5h / 18 V / 4.0 Ah: 9.1h

Weight without

Batterypack: 0.46 kg



CAS battery and charger

CAS battery packs and charger

Unlimited combinations: Now you can combine machines, battery packs and chargers of different manufacturer with each other without any problems. CAS uses the world's most powerful battery pack system in the industry - from Metabo.

With more than 30 years of battery pack expertise, Metabo is pioneer in the battery pack technology and in the topic of "cordless construction site"



In comparison to the Li-Ion 4.0 Ah, the Li-HD 4.0 Ah is having less weight, a slimmer design, but still the same capacity.

Intelligent battery management







Capacity control for a permanent control of the filling level

66% faster charging



Model	No.
RO BP18/2, 2.0 Ah 18 V Li-Power battery RO BP18/4, 4.0 Ah 18 V Li-Power battery	1000001652 1000001653
RO BP18/4, 4.0 Ah 18 V Li-HD battery	1000002548
RO BP18/8, 8.0 Ah 18 V Li-HD battery	1000002549
RO BC14/36 battery charger, 230 V. EU	1000001654

100% compatibility for over 180 machines in the 18 V class!





¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries ²⁾ More information at cordless-alliance-system.com

General purpose tools

Hammers and chisels

Fitter's hammer

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft



Lump hammer

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft







Head weight $\sqrt[4]{g}$	Total weight $\Delta_g \Delta$	No.
300	470	322823

Head weight $\sqrt[4]{g}$	Total weight $\sqrt[4]{g}$	No.
1,250	1,380	322922

Chisel

Safety tempered impact head prevents splintering off the chisel head

- Silver lacquered tip
- Chrome-manganese-silicon-steel



14

Model	Length mm	Shaft mm	Cutting width mm	without hand protection $\sqrt[]{g}$	with hand protection $\sqrt[]{\int g}$	No.
Mason chisel, flat	300	16	22	470	560	77050

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



Jaw width mm	Clam width mm	nping depth mm	for pipes Inch	for pipes mm	$\sqrt[]{\log \Delta}$ No) .
120	125	65	3/8 - 1.1/2"	16 - 55	8.7 070705)	
140	150	80	3/4 - 2"	27 - 70	15.6 070735)	

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





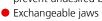


For mines / inch	▶ for pipes / mm	\[\lambda_ka\rangle	No
For pipes / inch	for pipes / mm	- Ky	No.
1/8 - 2"	10 - 60	3.7	70710
Spare jaws (contains: 3 pcs.)		0.2	70670
1/8 - 3"	10 - 89	7.9	70712
Spare jaws (contains: 3 pcs.)		0.2	70672
1/8 - 4"	10 - 114	11.7	70711
Spare jaws (contains: 3 pcs.)		0.2	70671

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







▶ ○	-0-	√. X	
For pipes / Inch	for pipes / mm	⇔ kg ⇔	No.
1/8 - 2.1/2"	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. 070705X) and rotatable table not included

Model	Dimensions / mm	Δ_{kg}	No.
ROBOY	650 x 400	14.9	70700

General purpose tools

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 with integrated chain vice
- Bending of pipes Ø 3/8" 1/2" 7/8" 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

Model	$\sqrt[4]{\log \Delta}$	No.
Tripod universal workbench w/ chain vice	16.0	70752
Tripod universal workbench w/o chain vice	15.3	70751
Tool 1/8" - 2"	21.0	70740

No. 70740 No. 70751

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 Pipe-fitter	1,200 x 550 x 835 1,000 x 700 x 835 1,200 x 750 x 835	30 0 32 38	70690X 70696 70698

General aids and tool bags

Hemp dispenser with roll



Model	No.
Roll 40 g / 40 m	70623

All-purpose marker

Writes on tile and glass



Carpenter pencil

Model	NO.
All-purpose marker	856911
Carpenter pencil	856907

Cutter knife



Model	No.
Cutter knife w/ 4 blades, 18 mm	1500000087
Blades for cutter knife (10 pcs.)	1500001299

Trendy tool bag

Lots of storage room for all your tools

Volume: ca. 42 l

Tool bag

 Offers a lot of pockets and tool holders with a waterproof plastic bottom





 Offers a lot of pockets and tool holders with a waterproof plastic bottom



DOTHEMBERGER	
	No.

Volume: ca. 15 l

Model	No.
Trendy tool bag (380 x 300 x 370 mm)	402311
Tool bag (450 x 285 x 335 mm)	1500001320

Tool bag, small (280 x 360 x 230 mm)

1500002182

Tool bag universal

Ideal for hand tools with straps and flaps inside the roll cover

Toolbox apprentice

Lots of storage room for all your tools



Model	No.
Toolbox apprentice	402312

Trendy shoulder toolbox

Model

Very light, handy bag for the most important tools



-	Volume: ca. 11 l		
4			U
		Same,	

Model No. Trendy shoulder toolbox (250 x 220 x 140 mm) 402308 1500002230 Tool bag universal (220 x 440 x 230 mm)

General purpose tools

Tool bags

Apprentice set, 50 pcs.

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), 10x HSSE 4 PLUS saw blades, fitter's hammer (300 g), lump hammer (1,250 g), PUK-hacksaw (290 mm) + 12x saw blades, basin nut wrench, stone chisel flat (300 x 16 mm), Ratched key ROCLICK 19 mm, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), wooden ruler (2 m), 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" 1K, installer toolbox, dimensions: 530 x 200 x 200 mm

Model		No.
Apprentice set, 50 pcs.	1	19166

General purpose tool set, 57 pcs.

Tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



Set (No. 1000001425) includes: TUBE CUTTER 35 DURAMAG (6 - 35 mm), UNI-stepped key + ratchet, Uni-small saw PUK, 10x saw blade for PUK-saw metal, saw bow ROBO Super, 10x saw blades BI-METALL HSSE 4 Plus, Ratched key ROCLICK 19 mm, EUROLINE screwdriver set (2x PH, 4x Sclot), spirit level, carpenters pencil, flexible ruler, MINICUT I Pro (3-16 mm), profi universal knife, hammer with hickory wooden handle, electrician chisel, flat, sanitary four way key, ROGRIP M XL (3.1/2"), ROGRIP M 10" 1K, ROGRIP M 7" 1K, ROCUT TC 42 (0-42mm), SWO adjustable wrench 8", tool bag (450 x 285 x 335 mm)

Model No. 1000001425 General purpose tools set, 57 pcs.

General purpose tool set, 17 pcs.

Compact tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



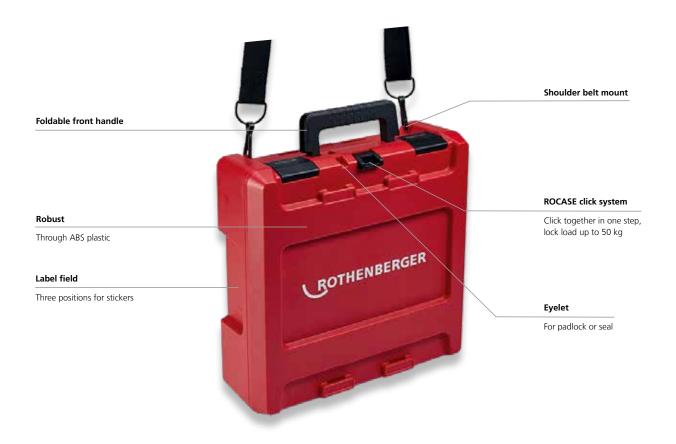
Set (No. 1000001745) includes: EUROLINE screwdriver set, water pump pliers SP 10", water pump pliers SP 7", professional cutter knife, MINI MAX Tube Cutter, 3-28 mm, GRATFIX HSS with spare blade, sanitary four way key multifunctional 3/8-1", flexible ruler, wooden, 2 m, aluminum spirit level, carpenter pencil, safety glasses UVEX, tool bag (280 x 360 x 230 mm)

Model No.

1000001745 General purpose tools set, 17 pcs.

ROCASE case system

	ROCASE 4212	ROCASE 4407	ROCASE 4414	ROCASE 6414	ROCASE 6427
	No. 1300003334	No. 1300005506	No. 1300003541	No. 1300003336	No. 1300003337
Outer dimension:	390 x 190 x 120 mm	390 x 390 x 70 mm	390 x 390 x 140 mm	590 x 390 x 140 mm	590 x 390 x 270 mm
Inner dimension:	377 x 150 x 100 mm	349 x 356 x 51 mm	348 x 352 x 122 mm	548 x 352 x 122 mm	548 x 352 x 250 mm
Volume in I:	5.7	6.3	14.9	23.5	48.2 l
Weight:	0.63 kg	1.2 kg	1.30 kg	1.89 kg	2.64 kg
Color:	red, anthracite	red	red, anthracite	red	red
Quantity of inlays (currently changed):	7		16	6	3



Model	No.
ROCASE 4212 red, without inlay 39 x 19 x 12 cm	1300003334
ROCASE 4212 anthracite, without inlay, 39 x 19 x 12 cm	1300003649
ROCASE 4407 red, without inlay 39 x 39 x 7 cm	1300005506
ROCASE 4414 red, without inlay 39 x 39 x 12 cm	1300003541
ROCASE 4414 anthracite, without inlay, 39 x 39 x 14 cm	1300003338
ROCASE 6414 red, without inlay, 59 x 39 x 14 cm	1300003336
ROCASE 6427 red, without inlay, 59 x 39 x 27 cm	1300003337

General purpose tools

Case system

ROCASE shoulder belt

Model	No.
ROCASE shoulder belt with logo	1500002239

ROCASE 4212/4414 foam inlay

Model	No.
ROCASE 4212 foam inlay	1500002449
ROCASE 4414 foam inlay	1500002450



ROCASE 4414 with tray and ROBOX

Set includes: ROCASE 4414, 2x ROBOX tray, 12x ROBOX B2350 (No. 1500002641)

Model	No.
ROCASE 4414 red, with 2 trays and ROBOXES	1000002108

ROBOX set for ROCASE 4414

Set includes: 1x ROBOX tray, 6x ROBOX B2350 (No. 1500002641)

Model	No.
ROBOX set for ROCASE 4414	1000002109

ROBOX

Model	No.
ROBOX B2350, 192 x 114 x 50 mm	1500002641
ROBOX B2650, 364 x 114 x 50 mm	1500002763





No. 1000002109



No. 1000002108

No. 1500002763

ROCASE 4407 with ROBOX

The ROCASE with a transparent lid is compatible with the other cases. In the inside of the case there is a structure to fix the ROBOXes.

KEY FEATURES:

Optimisation of the daily work because items are perfectly organised into the case

Set includes: ROCASE 4407, 6x ROBOX B2350 (No. 1500002641)

Model	$\sqrt[b]{\log \Delta}$	No.
ROCASE 4407 with ROBOX,	1.7	1000002625



Case system

ROCASE trolley

The ROCASE trolley allows an easy transportation of the ROCASE system and other bulky loads. It is foldable really easily and can be stored in the car. To fix the load at the trolley there is a strap included.

KEY FEATURES

- Load capacity up to 120 kg
- Ideal to carry ROCASEs
- Big wheel diameter: easy to go over stairs
- Including a long strap with hooks to fix the load

Model	$\sqrt[]{\log \Delta}$	No.
ROCASE trolley, 78 x 48.5 x 6 cm	7.0	1000002628



ROBUCKET

The ROBUCKET is a tool bucket for a versatile usage and can be fixed at the ROCASEs. To organise also small items in the bucket there is a ROBOX B2650 in the set included.

KEY FEATURES

- Handle allows comfortable transport
- ROBOX B2650 can be stored inside the bucket to stow accessories
- Liter display in the inside of the bucket
- Belt mount for shoulder straps

Model	$\Delta_{kg}\Delta$	No.
ROBUCKET with 1x ROBOX B2650,	1.6	1000002627
39.5 x 31.2 x 32.1 cm		



Hand tool kit 4414, 18 pcs.

Tool set in the ROCASE system with useful bags and tool holders.

KEY FEATURES

- Wide and practice-oriented tool range
- Dimensions: 390 x 390 x 140 mm

Set (No. 1000001955) includes:

Hand tool kit 4414, 18 pcs.

TUBE CUTTER 35 DURAMAG, ROCUT TC 42, ROGRIP M 7" 1K, ROGRIP M 10" 1K, ROGRIP XL, pipe wrench 1", uni stepped key set and ratchet, SWO adjustable wrench, EUROLINE screwdriver set, standard spirit level 430 mm, ROMATIC and ruler, shoulder belt with logo, in ROCASE completely



1000001955



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Legend

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 ISO 228-1, DIN 259			
BSPP	British Standard Pipe Parallel Thread, Cylindrical Pipe Thread as per ISO 7-1, EN 10226 (old DIN 2999)			
BSPT	British Standard Taper Pipe Thread			
BSR	Band Saw Pipe			
BSW	British Standard Parallel Screw: Thread of Whitworth Form B.S.W. B.S 84			
ВТИ	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			
G	Cylindrical External Thread, EN-ISO 228-1			
GW	Gas / Water			
HCFC	Hydrochlorofluorocarbons			
HD	High Pressure			
HFC	Hydrofluorocarbons			
HFCKW	Virgin Hydro Chlorofluorocarbons			
HFKW	Virgin Hydroflurocarbons			
нм	Carbide			
HRC	Hardness Rockwell Cone			
HSS	High Speed Steel			
HZ	Hertz			
IP	International Protection			
ISO	International Organization for Standardization			
Kcal	Kilocalorie			
KSO	Capillary Gap Optimizer			
L	Large			
LCD	Liquid Crystal Display			

Legend

Abbreviations

Abbreviation	Description			
LED	Light Emitting Diode			
MIM	Metal Injection Molding			
МРа	Megapascals			
MS	Brass			
MSR/MLP	Multi-layered Composite Pipe			
NM	Newton Metre			
NPT	National Pipe Thread (Standard US - ASME B1.20.1)			
РВ	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			
ΤÜV	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





230 V



115 V



110 V



Three-phase current 400 V



Battery-



Cable length



Battery + AC operation possible



Battery operation



Battery charger



Cordless Alliance System 1)

Miscellanezous



Can be used overhead



Can be used in confined spaces



Suitable for tight spaces



soldering up to 450 °C



Hot brazing 450 ° - 1100 °C



Max autogen welding 1100 °C



Fast cut



deformation from use



Dry drilling



Wet drilling



Up to 50% time-saving



Portable operation



360° rotatable



Fine adjustment of the flame

Product features



Ergonomic



Meets DIN standards



approved



Propane



Oxygen



Acetylene control



Shock absorption



On / off switch



LED display



Sturdy casing



Extension of hose possible



Piezo ignition



Economy valve



Pressure hose ball valve



Inspection window



Pressure hose length



Emergency stop switch



Lock button



Bayonet coupling





Thread lock



Pressure gauge display adjustable



Pressure gauge class 1 - 6



Pressure gauge size



Filling supports



Counter



Balance point in handle



Cable length



Measuring accuracy up to q



Scale range max. kg



Transport case



Heed safety warning



Heed industrial safety



Touchscreen



With USB connection



With video function



With photo function



Memory card



WiFi



ROCASE Case system



DURA LAZR TEC Laser hardening



5-Year-EXCHANGE GUARANTEE²⁾



eTOOL (NFC tag)



ROBOX Sorting system



Product apps for Android and iOS



Eco-friendly refrigerant

15

Pictograms

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 TT

19 kN for 40,000 press cycles

ROMAX AC ECO

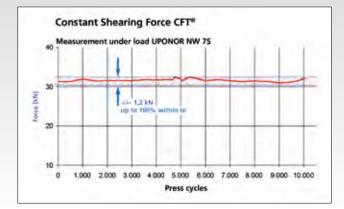
32 kN for 10,000 press cycles

ROMAX 4000

32 kN for 40,000 press cycles

ROMAX 3000 AC

32 kN for 20,000 press cycles





ROTHENBERGER DURAMAG Technology

The **DURAMAG Technology (High Tec Magnesium Body)** offers the following benefits:

- Improved performance
- Higher stability with considerably lower weight

DURA = Durable MAG = Magnesium



Packaging units

Packaging unit

for the sale of goods

General conditions for the sale of goods

Individually agreed sales and delivery terms supersede these GTCs in case of conflicts. For deliveries within Germany, please also note the Terms of Delivery and Payment set out on page 351.

§ 1 Scope

- 1. These General Terms and Conditions of Sale apply to all business relations of ROTHENBERGER Werkzeuge GmbH, Industriestraße 7, 65779 Kelkheim ("We" or "Us") with our customers ("Buyer" or "Purchaser"). The General Terms and Conditions of Sale (GTCS) shall only apply if the Buyer is a company, an entrepreneur, a legal person under public law or federal special funds (B2B business). We generally do not directly supply consumers (B2C business).
- 2. The General Terms and Conditions of Sale apply, in particular, to contracts on the sale and/or delivery of movable items ("Goods") without consideration given to whether or not we manufacture the Goods or purchase these from suppliers. Unless otherwise agreed, the GTCS in the version valid at the time of the Buyer's order or in any case in the version last notified to him in text form shall also apply as a framework agreement for similar future contracts. There is no requirement for us to refer to them again in each individual case.
- 3. Our GTCS apply exclusively. General terms and conditions of sale of the Buyer to the contrary or those that vary from our conditions, or supplementary conditions, shall only become an integral part of the contract if and insofair as we have expressly consented to the validity of such conditions. This approval requirement shall apply in any case, for instance including if the we unreservedly deliver Goods to the Buyer although we are aware of the Buyer's general terms and conditions of business.
- 4. Individual agreements entered into with the Buyer in individual cases (including subsidiary agreements, supplementary information and amendments) shall have preference over these GTCS. A written contract, or our written confirmation, shall be authoritative in respect of the content of such agreements, subject to proof to the contrary.

§ 2 Conclusion of contract

- All offers are subject to change without notice. Catalogue and leaflet details are only approximately authoritative. The right to make constructive amendments is reserved. Technical documentation (e.g. drawings, plans, calculations and references to DIN standards) are not binding for us unless agreed otherwise.
- 2. The Buyer shall be bound by its order for 4 weeks. The contract of purchase shall be deemed entered into if the order has been accepted in writing within this period or the delivery has been performed.
- 3. Supplementary information, amendments and subsidiary agreements are subject to written confirmation by us.

§ 3 Prices; terms and conditions of payment

- Unless agreed otherwise, the prices apply EXW (INCO-TERMS 2020), in relation to our respective stated location, without packaging, freight, postage, customs duties, surcharges and insurance etc., plus turnover tax. These costs shall be charged separately.
- 2. In respect of orders that do not exceed a net order value of € 250, we reserve the right to charge a minimum quantity surcharge of 10% of the order value, at the least, however, € 15.
- 3. For orders that are shipped to an address that differs from the orderer's address (so-called drop shipment), we charge a surcharge of 5% of the net order value.
- 4. Where advance payment is not agreed upon, payment is to be transferred to one of our stated accounts within 30 days form the invoice date and without deductions. The day of crediting on our account is authoritative in this respect. No cash discount for fast payment is granted.
- 5. In the event of default in payment on the part of the Buyer, we shall at least be entitled to the statutory default interest. This does not affect additional claims for default, for example against merchants in respect of the commercial interest after the due date.
- 6. Apart from cases of an explicit fixed price agreement, the parties undertake, at the request of a party, to agree, based

on good faith principles, on an appropriate price correction if, in the case of a contract with term of at least 12 months, at least four months after entering into the contract order-related costs increase or drop for us, in a manner that is verifiable and significant (more than 5%) for reasons that are not our responsibility, e.g. as a result of increased raw material prices or energy costs.

- 7. In the case of default in payment on the part of the Buyer or in the case of reasonable doubt about the Buyer's credit-worthiness (including facts that already applied at the time of entering into the contract) and which we were not aware of (or which we should have been aware of), we shall be entitled, prior to further performing the contract, to request advance payment for outstanding services or request the provision of security. Following the lapse in vain of a reasonable additional period for providing such securities, we shall be entitled (irrespective of further statutory rights) to withdraw from the contract.
- 8. Where the Buyer has authorised us to use SEPA direct debiting, such a direct transfer order collection shall normally be announced in advance in conjunction with the invoicing at the latest 1 (one) calendar day prior to the due date of the direct debit (pre-notification).

§ 4 Setting off, right of retention

The Buyer may only have the right to offset if its counterclaims have become res judicata, are not disputed or have been recognised by us. The Buyer shall only be entitled to exercise a right of retention insofar as its counterclaim is based on the same contractual relationship.

§ 5 Scope of delivery, variation from the order, procurement risk

- Our written confirmation of order is authoritative in respect of the scope of delivery. Partial deliveries are permitted and shall be noted on the delivery note.
- 2. Where special tools or parts are ordered, and production based on a specific quantity is not economically possible, we shall be entitled to increase or decrease the order quantity in a manner that is customary in trade by up to 10%, at least however by two items. The actual delivery quantity shall be charged.
- 3. Where products can only be delivered in a certain packaging unit, we reserve the right to round up to the amount for the next higher quantity of packaging unit or impose a surcharge in the sum of 10%.
- 4. We do not accept any procurement risk for the Goods to be delivered.
- 5. The cost of dead freight that is the responsibility of the Buyer or its shipping agent shall be borne by the Buyer.

§ 6 Delivery and performance time

- 1. Binding delivery times must be expressly agreed upon as such in writing. Other delivery time details that are not expressly agreed upon as binding are non-binding or approximate delivery time details, and we shall endeavour to honour these.
- 2. If, in exceptional cases, binding delivery periods have been agreed, they run from the date on which we confirm an order but not, however, before all order details, including the delivery, have been clarified and all the preconditions to be met by the Buyer have been met. Where the Buyer requests amendments after placing an order, and we consent to the amendment, a new delivery period shall start to run.
- 3. The day of notification of the readiness for despatch shall apply as the delivery day. Deliveries prior to expiry of the delivery time are permitted.
- 4. If events of so-called force majeure occur about which we furnish information in each case without delay, the delivery perriod shall be extended by the duration of the hindrance. Force majeure is equated with industrial disputes, official intervention, energy and raw material shortages, operational hindranc-

es that are not our responsibility such as those caused by fire, water and machine damage and all other hindrances which, in the case of an objective approach, have not been culpably brought about by us. If agreement is reached such that a delivery date, or a delivery period, has binding force and if such a date or period is exceeded by more than two months as a result of events of the aforementioned type, the Buyer shall be entitled to withdraw from the contract in respect of the part that has not yet been performed.

- 5. In the case of so-called call-off orders, we may request a binding classification two weeks after confirmation of order. If the Buyer fails to honour this request within three weeks, or if the Buyer defaults in acceptance, we shall be entitled to set an additional period of two weeks and once such a period has lapsed withdraw from the contract and claim for damages. Where not agreed to the contrary, as a matter of principle, deliveries ordered by way of a call-off are to be accepted within six months following confirmation of order.
- 6. Insofar as we are responsible for the failure to meet delivery dates that have been assured with binding force in exceptional cases, the Buyer shall be entitled to compensation of the proven damage sustained by the Buyer as a result of the default but, however, in terms of amount limited at most to 0.5% of the Goods value that is in default for each full week of the default and at most shall be entitled to 5% of the Goods value affected by the default. Compensation for further damage, in particular the loss of expected profit and other indirect damage, is excluded in accordance with Paragraph 9 of these GTCs.

§ 7 Shipping and passing of risk

- 1. Unless agreed otherwise, all deliveries apply ex warehouse or ex works (see Paragraph 3 of these GTCS), which is also deemed the place of performance for potential subsequent performance. As a result, the Buyer is responsible for transport/shipping and the risk of accidental loss or accidental deterioration shall pass to the Buyer upon handover to the carrier/ the person otherwise determined in respect of performing the consignment. This also applies to drop shipments.
- 2. Similarly, the risk of accidental loss/accidental deterioration shall pass to the Buyer upon dispatch if we send the Goods to the Buyer at the Buyer's request. We reserve the right to select the transport route and the means of transport. We are entitled, but do not undertake, to insure deliveries in the name and on account of the Buyer.
- 3. The handover or acceptance shall continue to apply if the Buyer defaults in acceptance. In addition, in the event of default in acceptance we shall be entitled, but do not undertake, to store the Goods at the Buyer's cost and risk.
- 4. In the event of a delivery stop as a result of default in payment or acceptance, or for another reason that is the Buyer's responsibility, the risk of the accidental loss/accidental deterioration shall pass to the Buyer at the latest upon notification of the readiness to dispatch.
- 5. Goods for which notice of readiness for dispatch has been given must be called-off without delay. Otherwise, we shall be entitled to send the Goods at our discretion or store them at the Buyer's cost and risk.
- 6. If acceptance is proposed or agreed, this is to be performed swiftly, following notification of the readiness for dispatch, at our respective, stated, supply plant. If acceptance is not performed irrespective of the setting of a reasonable additional period, or the Buyer waives acceptance, we shall be entitled to send the Goods without acceptance or store them at the Buyer's cost and risk.

§ 8 Warranty

1. The warranty period is 12 months from the passing of risk. By contrast, the statutory period applies with respect to claims resulting from the German Product Liability Act or claims attributable to the loss of life, physical injury or detrimental effects on health. Wear-and-tear parts are excluded from the guarantee. We shall not provide any quality guarantees where an individual agreement has not been entered into. Performing work under warranty does not constitute

General conditions

for the sale of goods

recognition or acceptance of a defect.

- 2. Returns that are not based on a faulty object of sale are not permitted. In the event that a return is permitted in an exceptional case as a result of an express, written agreement, a credit note shall only be issued by way of deducting at least 25% of the purchase price. All return delivery costs shall be borne by the Buyer.
- 3. In respect of the Buyer's warranty claims, it is required that the Buyer has honoured its obligations to inspect and provide notification of defects. We are to be notified in writing of obvious defects within eight calendar days from delivery and notified of hidden defects within the same period from the time at which they are identified. If the Buyer fails to properly inspect and/or provide notification of defects, our liability for the defect for which notification has not been provided, or has not been provided in good time, shall be excluded.
- 4. If the delivered item is faulty, we may choose whether to provide subsequent performance by way of rectifying the defect (subsequent improvement) or by delivering a fault-free items (replacement). Subsequent performance shall neither entail the dismantling of the faulty item nor new installation if we did not originally undertake to provide installation. The Buyer is to give us the necessary time and opportunity to provide the due subsequent performance, in particular handover the goods for which notification of defects has been provided for inspection purposes. In the event of replacement, the Buyer is to return the faulty item to us.
- 5. If it becomes clear following an inspection that an item was not faulty, we may request compensation from the Buyer for the costs arising from the unjustified complaint (in particular inspection and transport costs) unless the Buyer could not recognize that the item was not faulty.
- 6. The Buyer's claims for compensation for loss suffered or reimbursement of expenses incurred in vain shall only apply, including in the case of defects, in accordance with Paragraph 9 and in other respects are excluded.
- 7. The above limitation periods of the sales law also apply to the Buyer's contractual and non-contractual claims for damages that are based on faulty Goods unless application of the normal statutory limitation would, in an individual case, result in a shorter limitation period.

§ 9 Limitation of liability

- 1. Claims for compensation for loss suffered, irrespective of on which legal grounds these are based, are excluded unless we are to be accused of intent or gross negligence or of violating a key contractual obligation (see sub-section 2) more than just insignificantly. Where we are liable for simple negligence, the liability shall be limited to compensation of foreseeable, typical and direct damage. Compensation for indirect or collateral damage such as the loss of expected profit, loss of production and use and pecuniary damage regarding third party claims is excluded.
- 2. Key contractual obligations are obligations a) that protect the Buyer's key contractual legal positions that are to be granted to him in accordance with the content and purpose of the contract and b) such contractual obligations, the honouring of which is required to properly execute the contract and compliance with which the Buyer can normally expect.
- 3. The aforementioned liability limitations also apply in the case of violations of obligations by, or in favour of, persons whose culpability is our responsibility in accordance with le-

gal requirements. They do not apply if we have fraudulently concealed a defect, in the case of guaranteed provided in an exceptional case, to the Buyer's claims in accordance with the German Product Liability Act or as a result of loss of life, physical injury or detrimental effects on health.

§ 10 Rental containers and rental pallets

- 1. If we make the ordered Goods available to the Buyer on Euro pallets or other re-usable packaging, these are to be replaced by the Buyer within 7 calendar days with replacement items of the same type and value, or are to be returned to us. If this does not occur, we shall be entitled to invoice the Buyer for the used pallets/packaging at the replacement price
- 2. In the case of gas deliveries, rental containers or pallets shall only be handed over to the Buyer on a rental basis for the transport, storage and for the Buyer's own use of the acquired gasses. Any other use, or forwarding to third parties, is prohibited. After emptying, the Buyer is to return the containers and pallets to us without delay at its own cost.
- 3. The Buyer shall be liable for any damage, pollution or loss of rental containers or pallets, and in such cases undertakes to inform us without delay.
- 4. In respect of surrendered rental containers that are not contrasted with appropriate gas containers for longer than three months, we may request as security an amount in the sum of the respective list price of similar, new, containers. Such an amount falls due for payment immediately. As soon as the Buyer returns a container for which security has been provided, the security shall be returned to the Buyer without interest and less potential repair costs. If the Buyer fails to return the containers, the security amount shall be set off against the compensation for damages payable by the Buyer. Potential residual content in returned containers shall not be remunerated

§ 11 Reservation of title

- 1. We reserve ownership to the supplied Goods up until all existing claims resulting from the business connection (current account reservation) against the Buyer have been settled in full. Processing/finishing or conversion shall apply at all times in our name and by our order for us, however without any obligation for us, and without loss of our ownership.
- 2. The parties agree that the reservation of title also applies as extended reservation of title. The Buyer is entitled to sell the Goods during the course of normal business activities. Other disposal is prohibited, in particular an agreement on assignment prohibition with customers is prohibited that could result in the loss of our ownership.
- 3. The Buyer assigns to us at this point in time any claims to which the Buyer is entitled resulting from the use of the reserved Goods. If the Goods are sold with external items, or used as a substance, the assignment only applies to the revenue part that corresponds to the joint ownership part.
- 4. The entitlement to resell the object of sale shall become inapplicable if the Buyer discontinues its payment or defaults in payment. In such cases, we shall be entitled to disclose the assignment and collect the claim. The Buyer is to notify us without delay if an application is filed for the institution of insolvency proceedings regarding its assets.
- 5. The Buyer is only entitled to collect assigned claims during the ordinary course of business activities. The Buyer is to provide notification of third party access to the reserved goods without delay, and carry the cost of potential intervention.

The Buyer is to insure the reserved goods at replacement value and at its own cost, in particular against theft, water, breakage, fire and other damage. The Buyer is to treat the reserved goods with due care, in particular comply with the proposed maintenance and use notices.

- 6. We undertake at the Buyer's request to release securities insofar as the realisable value of the security exceeds the claims that are to be secured by more than 10%. We are free to choose the securities that are to be released
- 7. In the event of failure to pay the due purchase price irrespective of a reasonable additional period or if this can be dispensed with, we shall be entitled, in accordance with the statutory requirements, to withdraw from the contract and/or demand return of the Goods as a result of the reservation of title. The demand for the return of the Goods does not simultaneously contain a statement of withdrawal. Moreover, we are entitled to merely demand the return of the Goods and reserve the right to withdraw.
- 8. For the duration of the reservation of title, in the event of the occurrence of damage we shall be entitled to all rights resulting from insurance policies entered into by the Buyer. In the absence of agreements to the contrary, benefits resulting from the comprehensive insurance are to be used in full for the repair of the delivery item. If a repair is waived following our approval in the case of severe damage, we shall use the insurance benefit to repay the purchase price and the cost of ancillary performance

§ 12 Resale and export restrictions

- 1. The Buyer undertakes, in the case of an intended resale of the Goods, to comply with the statutory export restrictions and other applicable provisions, in particular national and international trading restrictions, boycotts and UN sanctions
- 2. If the Buyer violates its obligations resulting from sub-section 1, and if this results in damage or if a fine or an administrative fine is imposed against us, the Buyer shall insofar indemnify us.

§ 13 Applicable law and place of jurisdiction

- 1. The law of the Federal Republic of Germany applies to these General Terms and Conditions of Sale and the legal relations between us and the Buyer, by way of exclusion of international uniform law, in particular the UN Sales Law.
- 2. The place of business stated in sub-section 1 is deemed the exclusive, including the international, place of jurisdiction for all disputes resulting directly or indirectly from the contractual relationship. However, in all cases we are also entitled to bring legal action at the place of performance of the delivery obligation in accordance with these General Terms and Conditions of Sale or at the Buyer's general place of jurisdiction. This does not affect prior-ranking statutory requirements, in particular in respect of exclusive places of jurisdiction.

§ 14 Severability clause

In the event that individual provisions of these General Terms and Conditions of Sale are or become invalid, this shall not affect the validity of the other provisions. The parties undertake to replace the invalid provision with a legally valid regulation that comes closest to the economic objective of the invalid provision.

Date 01/2022

Additional terms of delivery and payment for Germany

The following terms apply in addition to the general conditions for the sale of goods (pages 360–361) for all deliveries within Germany:

Extra charges: Hazardous goods

€ 9.50 extra per delivery for hazardous goods

Example: no 035510-A

Solder material The prices for solder material depend heavily on the current prices of silver and copper. We reserve the right to charge extra due to increased raw-material prices; please ask for the

Drop shipment 5.00% surcharge on net order value Shipping costs flat rates within Germany:

Shipping is carried out by us via carriers of our choice. We charge the following flat rates for this:

Goods value Up to € 250.00 Up to € 399.99 As of € 400.00

Surcharge 10%, at least € 15.00 Flat rates net: € 12.00 net: € 12.00 net: free

Payment of deliveries within Germany:

30 days net from invoice date (no discount is granted).

Notes



ROTHENBERGER

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