

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

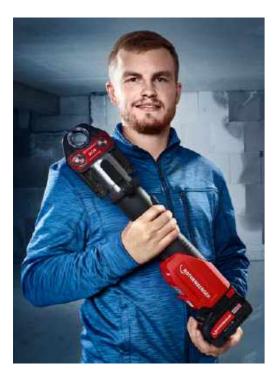
Welcome to ROTHENBERGER!

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 140 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

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.

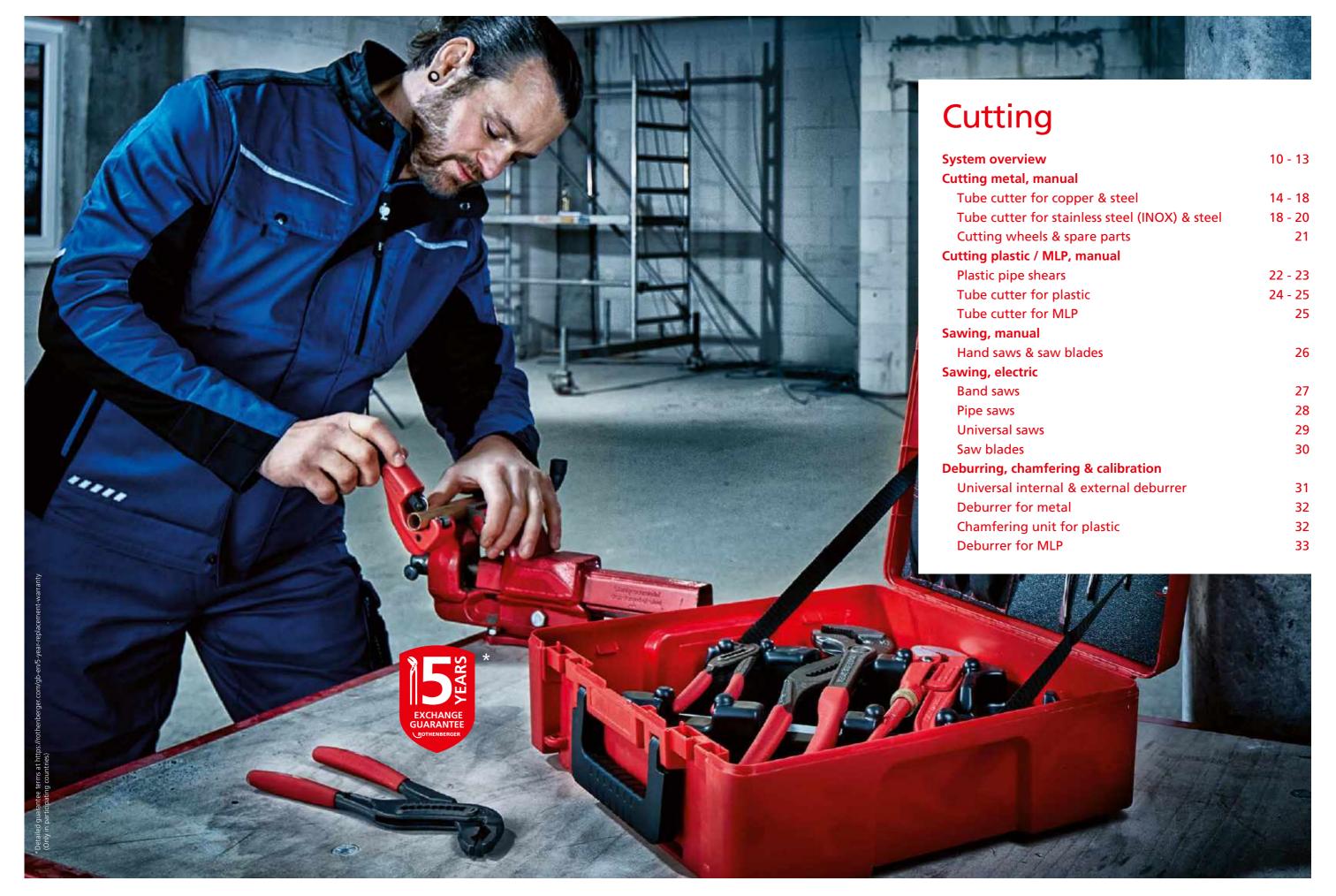
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Cutting

System overview

System overview

TC 35 DURAMAG

TC 35 C

TC 35 DURAMAG

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 6-35 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	150 x 60 x 40 mm	160 x 60 x 40 mm
Weight:	255 g	470 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	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes	Refrigeration technology	PE-,PP-, PVDF-, PVC, plastic-coated pipes	Stainless steel	Cu, brass, Al, thin-walled steel pipes
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TC 42 XL	









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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
Extras:	Internal pipe deburrer, spare cutter wheel	Spare cutter wheel			
Weight:	430 g	550 g	550 g	550 g	430 g
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
Working range:	Ø 6-42 mm (1/4-1.5/8")	Ø 10-42 mm (3/8"-1.5/8")			











Page	16	16	16	16	17
Suitable for:	Cu, brass, Al, thin-walled steel pipes				
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
Weight:	110 g	125 g	140 g	270 g	305 g
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
Working range:	Ø 3-16 mm (1/8-5/8")	Ø 6-22 mm (1/4-7/8")	Ø 6-22 mm (1/4-7/8")	Ø 3-28 mm (1/8-1.1/8")	Ø 3-30 mm (1/8-1.3/8")

Pipe cutters for metal **TUBE CUTTER TUBE CUTTER Automatic pipe Automatic pipe Chain pipe 30 PRO INOX** cutter size 1 cutter size 2 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, Internal pipe deburrer, Internal pipe deburrer, Internal pipe deburrer spare cutter wheel spare cutter wheel spare cutter wheel Suitable for: Cu, brass, Al, Stainless steel, Cu, brass, Al, Cu, brass, Al, Cu, brass, Al, thin-walled steel pipes thin-walled steel pipes, thin-walled steel pipes, thin-walled steel pipes, plastic-coated pipes plastic-coated pipes plastic-coated pipes Page 17 17 17













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

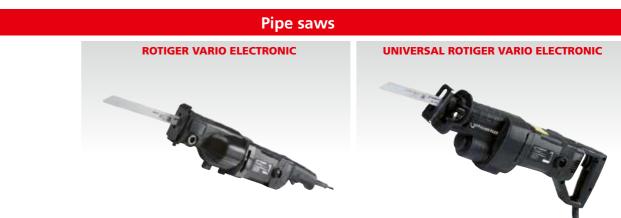
System overview

System overview

Plastic pipe cutters TC 125 PL TC 168 PL **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") 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, Internal pipe deburrer Internal pipe deburrer spare cutter wheel Suitable for: PE, PP, PEX, PB, PE, PP, PEX, PB, PE, PP, PEX, PB, PVDF-pipes, sound-PVDF-pipes, sound-PVDF-pipes, soundisolated drain pipes isolated drain pipes isolated drain pipes 24 24 Page

	Plastic shears							
	ROCUT TC 26 ROCUT TC 32 ROCUT PS 35 ROCUT PS 26/42							
	F		7	7				
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	PP, PE, PEX, PB, PVDF, MLP	PP, PE, PEX, PB, PVDF, MLP	PP, PE, PEX, PB, PVDF, MLP				
Page	22, 23	22, 23	22, 23	22, 23				

	ROCUT TC 42	ROCUT TC 50	ROCUT TC 63	ROCUT TC 75
			1	
Working range:	Ø 0-42 mm (0-1.5/8")	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	260 x 120 x 25 mm	280 x 130 x 30 mm	480 x 165 x 35 mm
Weight:	447 g	600 g	700 g	1,740 g
Suitable for:	PP, PE, PEX, PB, PVDF, MLP			
Page	22, 23	22, 23	22, 23	22, 23



Working range:	Up to Ø 6"	-
Power:	1,500 W (230V, 110V)	1,600 W (230V), 1,300 W (110V)
Speed:	0 - 2,200 rpm	1,000 - 2,800 rpm
Weight:	4.3 kg	3.7 kg
Hub:	26 mm	26 mm
Dimensions:	491 x 94 x 108 mm	440 x 120 x 80 mm
Saw blade holder:	Universal, U-shaft, special pipe saw blades	Quick tensioning for universal saw blades
Extras:	Chain tensioning device up to Ø 6"	-

29 Page

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 Ø 6 - 35 mm / TC 42 Pro MLP Ø 6 - 42 mm

TC 35 INOX / TC 42 Pro INOX

Stainless steel pipes

TC 35 INOX Ø 6 - 35 mm / TC 42 INOX Ø 6 - 42 mm



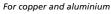


KEY FEATURES

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

Metal casing with DURAMANT coating: rugged and robust







For MLP pipes



TC 42 PRO MLP (No. 70109)

For INOX (stainless steel) pipes



For refrigeration technology



TUBE CUTTER 35 DURAMAG counter display

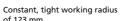
Counter display includes six **TUBE CUTTER 35 DURAMAG**

Product profile

KEY FEATURES

- Improved performance
- Higher stability with noticeably less weight







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

Cutting metal, manual

Set (No. 1000002190) includes: TUBE CUTTER 35 6 - 35 mm (No. 70027), cutter wheel for TC 35, Cu-Ms-Al-Fe, 5 pcs. (No. 070017D), ROBOX B2350 (No. 1500002641)

Set (No. 1000002002) includes: TUBE CUTTER 35. 6 - 35 mm (70027), internal & external deburrer 6 - 35 mm (No. 1500000237), 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	► ○	inch	\sqrt{g}			No.
TUBE CUTTER 35 DURAMAG (Cu, brass, Al, thin-walled pipe)	6 - 35	1/4" - 1.3/8"	255	1	4	70027
TUBE CUTTER 35 + cutter wheel set, ROBOX 5	6 - 35	1/4" - 1.3/8"	360	1	20	1000002190 *
Handtool set prepare to press	6 - 35	1/4" - 1.3/8"	460	1	20	1000002002
TUBE CUTTER 35 DURAMAG counter display	6 - 35	1/4" - 1.3/8"	1,700	1	6	070027DB
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	1	4	070027C
TUBE CUTTER 35 DURAMAG MLP	6 - 35	1/4" - 1.3/8"	255	1	4	70108
TUBE CUTTER 35 PRO INOX DURAMAG (stainless steel)	6 - 35	1/4" - 1.3/8"	255	1	4	70055
TUBE CUTTER 35 INOX + cutter wheel set, ROBOX 5	6 - 35	1/4" - 1.3/8"	500	1	20	1000002222 *
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	550	1	4	70029
TUBE CUTTER 42 PRO MLP	6 - 42	1/4" - 1.5/8"	550	1	4	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	550	1	4	70072
TUBE CUTTER 42 PRO INOX (stainless steel)	6 - 42	1/4" - 1.5/8"	550	1	4	70070
					* F	OBOX system p. 340

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	ΔgΔ	No.
TUBE CUTTER 42 XL	500	1000001748
Spare cutter wheel (contains 5 pcs.)	20	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	chrome, lir	mited edition	220	1000000046
Spare axle			5	70080
Spare cutter whee	el INOX		20	070007X
Spare cutter whee	el (3 pcs.) fo	or Cu, Al, 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			No.
MINICUT I PRO MINICUT II PRO		1/8 - 5/8" 1/4 - 7/8"		1	4	70401 70402
Spare cutter wheel Spare axle			20 5	1(5)		070017D 70041

MINICUT 2000

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

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





KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes
- 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	6 - 22	1/4 - 7/8"	140	1	4	70105
Spare cutter wheel			20	1(5)		070017D
Spare axle			5	1		70041

MINI MAX

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

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



ROBOX B2350 (No. 1500002641)

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	1	4	70015
MINICUT I PRO -	MINI MAX,	ROBOX 5		•	1000	002191*
Spare cutter who	eel		20	1(5)	0	70017D
Spare axle			5	1		70041

* ROBOX system p. 340

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.	Model	$\Delta_g \Delta$		
TUBE CUTTER 30 PRO	3 - 30	1/8 -1.3/8"	305	1	4	71019	Spare cutter wheel (5 Pcs.)	20	1	070
TUBE CUTTER 50	12 - 50	1/2 -2"	520	1	4	70065	Spare axle	5	1	

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	► mm	▶ 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 deb	urring blade		5	21652	Size 1 Spare	axle		20	70042
Size 1 spare cutt	er wheel (5 pcs.)		20	070017D	Size 1 Spare	deburrer complete	9	5	750004100
Size 2 spare cutt	er wheel (2 pcs.)		20	070057D	Size 2 Spare	axle		5	751004200
Size 2 spare deb	urring blade		5	21652					

ACCESSORIES

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

Model	► O⊲ mm	▶ inch	\sqrt{g}	No.
Chain pipe cutter Spare cutter wheel chain	20 - 100	1 - 4"	575 180	70285 70286



Secretary.		
	6	(aphicwete/con
-	No. 70285	

Model		No.
Internal / external deburrer, Ø 6 - 35 mm	31	1500000237
Internal / external deburrer, Ø 10 - 54 mm	31	1500000236
GRATFIX	32	21655
UNIGRAT	32	21660
Snare cutter wheels	21	











ROSLICE

Cutting

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









Ergonomic form



KEY FEATURES

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

Self-clamping and self-alignment

Prevents the deformation of the pipe

Non-slip surface

Reliable grip

Pipe cutting possible near the wall



Indicates rotating direction

Quick cutting with just a few turns

	Model ►(→ mm/inch		$\Delta_g \Delta$	No.
_	ROSLICE	12 mm	1	240	88812
	ROSLICE	15 mm	1	230	88815
	ROSLICE	18 mm	1	260	88818
	ROSLICE	22 mm	1	250	88822
	ROSLICE	3/4"	1	240	88832
	Spare cutter wheel	1/2", 12 mm	5	36.3 0	88840D
	Spare cutter wheel	5/8"-7/8", 15-22 mm	5	34.6	88841D
	Spare cutter wheel	1/2"-3/4", 18 mm	5	37.4 0	88842D

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** Spare cutter wheel always

Internal deburrer

Retractable

Model	mm	inch	\sqrt{g}		No.
TC 30 PRO INOX	3 - 30	1/8 - 1.1/8"	305	4	71085
Spare cutter wheel	(5 pcs.)		20	1(5)	070056D
Spare axle			5		70041

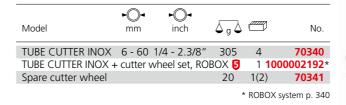
TUBE CUTTER INOX

Ratchet telescopic pipe cutter Ø 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!





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	►O inch	$\sqrt[]{g}$	No.
TC 35 INOX	6 - 35	1/4 - 1.3/8"	440	70055
TUBE CUTTER INC	X + cutter w	heel set, ROBC)X 👨 1	1000002222*
TC 42 PRO INOX	6 - 42	1/4 - 1.5/8"	510	70070

* ROBOX system p. 340

Set (No. 1000002222) includes: TURE 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	∆ g △	No.
Spare cutter wheel (5 pcs.)	20	070056D
Spare deburring blade	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	1000001747
Cutter wheel CSST pipe (contains	5 pcs.)	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



- 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	$\sqrt[]{g}$	No.	Model	Δ _g Δ	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

Precise cutting of stainless







Model	► mm	▶ inch	$\sqrt[4]{g}$	No.	Model	►O mm	▶ inch	∆ _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 cutt	ter wheel (3 p	cs.)	20	070046D	1.1/4" spare cutter v	wheel (2 pcs.	.)	20	070088D
1.1/4" spare axle	2		5	701011500	1.1/4" spare axle			5	701011500
2" spare cutter v	vheel (3 pcs.)		20	070051D	2" spare cutter whe	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	31	1500000237
Internal / external deburrer, Ø 10 - 54 mm	31	1500000236
GRATFIX	32	21655
UNIGRAT	32	21660
Spare cutter wheels	21	

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 MINICUT II PRO	3 - 16 mm 6 - 22 mm	70401 70402	070017D 070017D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 18.5	5 5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70023 70023	-	Copper pipe (Cu), brass pipe (Ms), aluminium pipe (Al),
MINICUT 2000	6 - 22 mm	70105	070017D	4.8 / 5.90 / 18.5	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	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	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	5 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 steel pipe (Fe),
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	5 5	4.0 4.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70067 70067	21652 21652	PVC hard plastic pipe, plastic-coated pipe
TUBE CUTTER 50	12 - 50 mm	70065	070017D	4.8 / 5.90 / 18.5	5	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe
AUTOMATIC Size 1		70030	070017D	4.8 / 5.90 / 18.5	5	3.0	70042	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled
	6 - 67 mm	70031	070028D	4.8 / 5.90 / 23.6	3	7.0	70042	4.7 / 16 / M4	-	21652	PE, PP, VPE, PB and PVDF pipe:
pipe cutter		70142	070057D	8.0 / 14.0 / 29.0	2	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	3	13.0	751004200	7.9 /23.5/1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes
312e 2	30 127 11111	70032	055053D	8.0 / 13.0 / 30.5	2	8.0	751004200	7.9 /23.5/1/4"	-	21652	thin-walled PP pipes
		70032	055074D	8.0 / 11.0 / 45.0	2	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	2	16.0	751004200	7.9 /23.5/1/4"	-	21652	PE, PP, VPE, PB and PVDF pipe
			055053D	8.0 / 11.0 / 30.5	2	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	3	2.5 2.5	70080 + 70081 70080 + 70081	4.7 / 9 / SR 4.7 / 9 / SR	80679 80679	-	Cu, Ms, Al, Fe thin-walled Cu, Ms, Al, Fe thin-walled
TUBE CUTTER 42 PRO PVC	6 - 42 mm	70072	070028D	4.8 / 5.90 / 23.6	3	7.0	70041	4.7 / 14 / M3	70067	-	PE, PP, VPE, PB and PVDF pipe:
en de la la contra	1/8" - 1.1/4"	70040	070046D	7.5 / 14.0 / 25.7	3	5.5	701011500	7.4/30/-	70047	_	Steel pipe (Fe)
Steel pipe cutter SUPER	1/8" - 2"	70045	070051D	9.0 / 17.0 / 31.5	3	6.0	70053	8.9 / 35 / -	70052	-	Steel pipe (Fe)
Steel pipe cutter ENORM	2" - 4"	70060	070061D	9.7 / 20.0 / 41.0	2	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	5.5	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
TUBE CUTTER INOX	10 - 54 mm	70340	70341	5.0 / 21.0 / 30.0	2	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	5 5	4.0 4.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70068 70068	21652 21652	Stainless steel pipe Stainless steel pipe
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	2 2	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

Cutting plastic / MLP, manual

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 and PVDF pipes up to Ø 75 mm

KEY FEATURES

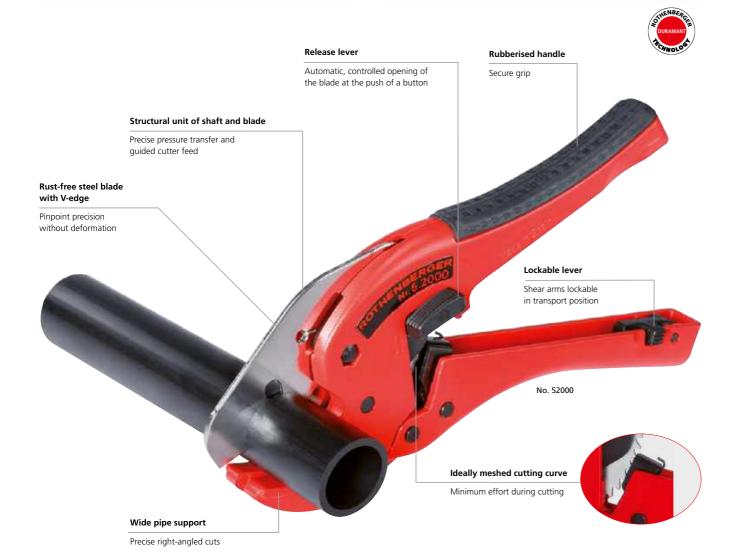
- Minimum effort during cutting
- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button

KEY FEATURES

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

TECHNICAL DATA

ROCUT	Professional:	ROCUT 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



Set (No. 1000002193) includes: ROCUT TC 42, 0 - 42mm (No. 52000), ROBOX B2650 (No. 1500002763)

ROCUT TC 50 / TC 75 Professional

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



ROCUT TC 63 Professional

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



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)



Cutting plastic / MLP, manual



Model	► mm	► ○ inch	ΔgΔ			No.
ROCUT TC 26	0 - 26	0 - 1"	370	1	4	52005
ROCUT TC 26, counter display	0 - 26	0 - 1"	3,700	1(10)	1	052005D
ROCUT TC 32	0 - 32	0 - 1.1/4"	220	1	4	52040
ROCUT PS 35	6 - 35	1/4 - 1.3/8"	740	1	20	55005
ROCUT PS 26 / 42 S, adjustable	6 - 42	1/4 - 1.5/8"	950			55015
ROCUT TC 42 Professional	0 - 42	0 - 1.5/8"	447	1	4	52000
ROCUT TC 42 Professional, ROBOX 5	0 - 42	0 - 1.5/8"	590	1	12	1000002193*
ROCUT TC 50 Professional	0 - 50	0 - 2"	600	1	4	52010
ROCUT TC 63 Professional	0 - 63	0 - 2.1/2"	700	1		52030
ROCUT TC 75 Professional	0 - 75	0 - 3"	1,600	1		52015
					* RC	DBOX system p. 340

ACCESSORIES No. 52042 No. 52011 No 55007 No 52031

Model	► mm	▶ inch	\sqrt{g}		No.
Spare stainless steel blade for TC 32	0 - 32	0 - 1.1/4"	120	1	52041
Spare stainless steel blade for PS 35 S	6 - 35	1/4 - 1.3/8"	30	1	55006
Spare stainless steel blade for PS 26 / 42 S	6 - 42	1/4 - 1.5/8"	60	1	55007
Spare stainless steel blade for TC 42 Professional	0 - 42	0 - 1.5/8"	120	1	52042
Spare stainless steel blade for TC 50 Professional	0 - 50	0 - 2"	120	1	52011
Spare stainless steel blade for TC 63 Professional	0 - 63	0 - 2.1/2"	130	1	52031
Spare stainless steel blade for TC 75 Professional		0 - 3"	190	1	52016

Cutting plastic / MLP, manual

TUBE CUTTER 67 / 125 / 168 PL Automatic

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



APPLICATION AREA

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



KEY FEATURES

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

TECHNICAL DATA

TC 67 PL:	6 - 67 mm	1/4 - 2.5/8"
TC 125 PL:	50 - 125 mm	2 - 5"
TC 168 PL:	110 - 168 mm	4.3/8" - 6.5/8"









Model	► O -	inch	Cutting- depth	$\Delta_{kg}\Delta$		No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	7.0	0.7	1	70031
TC 125 PL	50 - 125	2 - 5"	13.0	1.6	1	70032
TC 168 PL	110 - 168	4 - 6.5/8"	16.0	1.7	1	70033
TC 67 PL,	counter disp	lay			1 (4)	070031D
Cutting wh	neels, spare p	arts 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	► mm	No.
Jacket pipe cutter	0 - 32 mm	21500
Spare blade ROCUT PPD		21505

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

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



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 guidance
- Fast and simple adjustment of the working range due to the feed being synchronised with the feeder rotation
- Optimum, fatigue-free operation with the optimised ergonomic handle
- Only one tool for cutting and deburring due to integrated, retractable internal pipe deburrer
- Spare cutter wheel in the handle

Model	► mm	inch	Δgδ	=		No.
TC 35 MLP	6 - 35	1/4 - 1.3/8"	440	1	10	70108
Spare cutter whee	TC 35/4	2 MLP	19	1	5	070188D

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	ΔgΔ			No.
TC 42 PRO MLP		1/4 - 1.5/8"		1	10	70109
TC 42 PRO PVC Spare cutter wheel		1/4 - 1.5/8" VC	510 10	1	4	70072 070028D

230 V 110 V

Cutting

Sawing, manual

ROBO Super

Safety saw frame

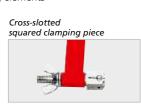
- Minimizes risks: safety handle with exact guidance
- Room for spare blades in holder
- Optimum saw blade tensioning: quick tensioning device with fine adjustment integrated in handle
- Ideal for cutting in confined spaces: 90° rotatable



Model	Clamping width mm	$\Delta_g \Delta$	No.
ROBO Super saw frame	300	680	71206
including saw blade HSSE 4	4 Plus (No. 71213)		

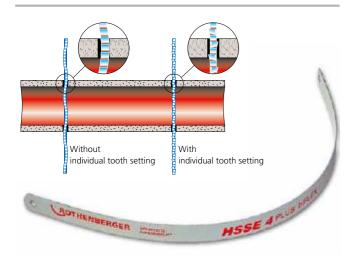
Metal saw frame

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





Model Clamping width mm $\sqrt[4]{g}$		nm $\sqrt[]{g}$	No.
Metal saw frame without saw l	blade 300	530	300013



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.

ROBO Mini

Small saw frame

- Handle with ergonomic form enables powerful sawing in tight spaces
- Large dimension tightening screw



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

UNI small saw PUK

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



Model CI	amping width mm	δ _g 4	No.
PUK static, with UNIVERSAL saw blade	150	100	842100
PUK adjustable, with UNIVERSAL saw blade (w. A	150	140	71215
UNIVERSAL saw blade for metal	150 (32 TPI)	20	71217
Saw blade for wood	150 (14 TPI)	20	71216

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			No.
HSSE 4 Plus	300	24	20	1	100	71213

PORTACUT 185 BSR / BSP

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

KEY FEATURES

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



Sets include: PORTACUT 185 BSR and/or BSP, 2 band saw blades HSS bimetal 14 TPI

Model	$\sqrt{\Delta_{kg}}$	230 V	110 V
PORTACUT 185 BSR	43	56710	56717
PORTACUT 185 BSP	49	56711	56718

Cutting power	Straig	ht Cuts	45° C	uts
Machine Type	O mm	□ mm	O mm	☐ mm
185 BSR	180	150	-	_
185 BSP	180	150	85	75

Band saw blades for PORTACUT 185 BSR / BSP

				for pipes and profiles			
Dimensions mm	TPI	Material		Steel	INOX	\triangle g \triangle	No.
1,640 x 13 x 0.65	8	SS	starting from	10.0 mm	-	100	56602
1,640 x 13 x 0.65	10	SS	starting from	8.0 mm	-	100	56603
1,640 x 13 x 0.65	14	SS	starting from	6.1 mm	-	100	56604
1,640 x 13 x 0.65	14	bimetal	starting from	6.1 mm	from 2.0 mm	100	56605
1,640 x 13 x 0.65	24	SS	up to	3.6 mm	to 1.6 mm	100	56607
1,640 x 13 x 0.65	18	bimetal	up to	3.6 mm	to 1.6 mm	100	56608





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

Sawing, electric

ROTIGER VARIO Electronic

Pipe saw

Powerful and fast-cutting universal saw for the professional use during installation, demolition and repair work.

Product profile

KEY FEATURES

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







Reliable guidance of the saw



TECHNICAL DATA

Performance: 1,500 W

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

Weight: 4.3 kg Distance: 26 mm

Dimensions: 491 x 94 x 108 mm

Saw blade attachment:

Universal, U-shaft, special pipe saw blades



L- and U-shaft attachments



Precise 90° cuts

Set (No. 50305/50306) includes: ROTIGER VARIO Electronic, chain tensioning device, 5 x HSS bimetal saw blades

Model	$\sqrt[]{\log \Delta}$	230 V	110 V
ROTIGER VARIO Electronic	7.0	50306	50305
Chain tensioning device up to 6	5"		50311
Tensioning device 2 in 1			50312
(Chain tensioning device up to	6" + collet c	hucks up to 2	2")

Fig. ROTIGER VARIO Electronic

Universal ROTIGER VARIO Electronic

Universal electronic saw

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

Product profile

KEY FEATURES

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











TECHNICAL DATA

Performance: 1,600 W with 230 V / 1,300 W with 110 V Speed: 1,000 - 2,800 rpm (adjustable with wheel)

Weight: 3.7 kg Distance: 26 mm

Dimensions: 440 x 120 x 80 mm

Saw blade attachment: Quick tensioning for universal saw blades







Set (No. 50301/50302 includes: Universal ROTIGER VARIO Electronic, 5 x HSS bimetal saw blades

Model	$\sqrt[]{\log \Delta}$	230 V	110 V
UNIVERSAL ROTIGER VARIO Electronic	7.0	50301	50302







Saw blades

UNIVERSAL HSS bimetal / TCT TIGER SAW BLADES

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

Cuttabl materia		Material	L x W x thickness mm	TPI		Reference	□ *	No.	
A		HSS bimetal	150 x 20 x 0.9	24	L	S 922 AF	1 (5)	865784	A ************************************
2		HSS bimetal	150 x 20 x 0.9	18	L	S 922 EF	1 (5)	865785	THE NAME OF THE PARTY OF THE PA
2		HSS bimetal	150 x 20 x 0.9	14	L	S 922 BF	1 (5)	865786	- SE W
2		HSS bimetal	200 x 20 x 0.9	18	L	S 1022 EF	1 (5)	865787	THE MANAGEMENT AND ADDRESS OF THE PARTY OF T
2		HSS bimetal	200 x 20 x 0.9	14	L	S 1022 BF	1 (5)	865788	D TE 排作
		HSS bimetal	300 x 20 x 0.9	10 - 14	L	S 1222 VF	1 (5)	865789	
	Guss	TCT coated	225 x 20 x 1.5	30 grit	L	S 1130 RF	1 (5)	865793	2 TO 8 W 100 P

HSS bimetal

Special saw blades with U-shaft

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

Cuttable materials	Material	L x W x thickness mm	TPI		Reference	*	No.	
2	HSS bimetal	140 x 25 x 1.6	8	U	S 920 CF	1 (5)	865795	
2	HSS bimetal	200 x 25 x 1.6	8	U	S 1120 CF	1 (5)	865796	₹ □□ ₹ • • • • • • • • • • • • • • • • • • •
2 ::	HSS bimetal	150 x 25 x 1.0	10 - 14	U		1 (5)	865798	
4 🔆	HSS bimetal	200 x 25 x 1.0	10 - 14	U		1 (5)	865799	Z = E-37-1111

^{*5} pcs. in plastic carrying case (minimum purchase)

Special pipe saw blades

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

Cuttable materials	Material	L x W x thickness mm	TPI			No.	
2	HSS	140 x 25 x 1.6	8	L	1	50260	
2	HSS	200 x 25 x 1.6	8	L	1	50261	Comment of the last of the las
2	HSS	290 x 25 x 1.6	6 - 8	L	1	50263	
4	HSS-E	140 x 25 x 1.6	14	L	1	50264	
4	HSS-E	200 x 25 x 1.6	8	L	1	50265	- Indianal and the
2	HSS	200 x 25 x 1.6	6 - 8	L	1	50266	COLUMN TWO

Universal internal & external deburrer

Quick and easy deburring Ø 4 - 54 mm (1/8 - 2")

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







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

Deburrer adaptor I / II

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

- 1					
Product profile					
KEY FEATURES					
 User-friendly solution for deburring pipes "internal and external" 					
Saves time					
Precise burr-free deburring without effort					







Drive shaft

For the deburring with portable
screwdriver or drill

Model	ΔgΔ	No.
Deburrer adaptor I for No. 1500000237 Deburrer adaptor II for No. 1500000236		11044 11045



Deburring, chamfering & calibration

GRATFIX HSS / UNIGRAT

Deburrer

KEY FEATURES

- Replaceable blades
- GRATFIX with plastic cartridge grip
- Grip recess is raised at the end and prevents 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



Model No. UNIGRAT with HSS deburring blade 30 **21660** GRATFIX with deburring blade No. 1 21655 GRATFIX with deburring blade No. 1 - 2 - 3 80 **21651** HSS deburring blade No. 1 Universal 10 **21652**

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	► O•	$\Delta_g \Delta$	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

Ratchet pipe deburrer 1/4 - 2" Quick and clean deburring For steel pipes, with smooth-running ratchet, cutting bit made of tempered steel Quick adjustment Spare deburrer bit (No. 70296) Handy, lockable reversal of the ratchet Model Internal deburrer with ratchet 1/4 - 2" 13 - 60 2,680 **70289**

Spare deburrer

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 multilaver pipes (MLP) through chamfering to approved standards
- Simultaneous chamfering

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



Fig. ROGRAT MLP deburrer set

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ROGRAT MLP system - manual chamfering attachments

ROGRAT type	Press system	Pipe measurement mm	Color code	ΔgΔ	No
TH 14		14.0 x 2.00	•	51	14121
TH 16	Henco / MHS	16.0 x 2.00	•	53	14122
TH 18	Giacomini	18.0 x 2.00	•	58	14123
TH 20		20.0 x 2.00	•	93	14124
TH 26		26.0 x 3.00	•	108	14126



Color coding prevents confusion

System optimised chamfer



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

Model	For size mm	$\sqrt[]{g}$	No.
TH Henco/HMS	16 - 20 - 26	760	14250
Basic handle		250	14000
System carrying case		250	14005



System overview

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	39	40 41	40 41	40 41

Drill bits						
	High SPEED Plus-natural stone*	DX- High SPEED Plus*	SPEED STAR DX*			
		Cionamican	Agorni mentitir			
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 Ø 10 mm = 50 mm from Ø 12 mm = 120 mm	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length			
Application:	wet	wet & dry	wet & dry			
Tiles:	ී ී	S	ී			
Granite:	888	S	66			
Marble:	888	S	66			
Brick:	66	\$\$\$**	\$\$\$* *			
Masonry:	Ġ	\$\$\$* *	GG**			
Lime-sand brick:	Ġ	\$\$\$* *	GG**			
Asphalt:	66	\$\$\$* *	\$\$\$* *			
Screed:	66	666	86			
Concrete:	ප් ප්ර	666	86			
Reinforced concrete:	866	88	868			
Page	46	47	48			

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

System overview

Stationary drilling









	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	40, 41	42, 43	42, 43	44, 45

* Drilling range with distance plate expandable up to 500 mm

RODIA diamond core drilling

Hand-operated & stationary drilling

Space welding

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

SPACE WELDING

Wet and dry drilling with new technology:

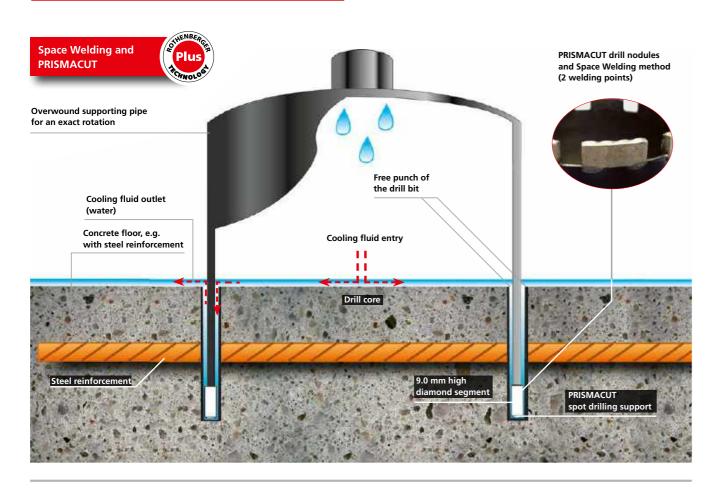
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20%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

PRISMACUT

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

PRISMACUT

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



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



SPEED STAR DX drill bits on page 48

RODIA diamond core drilling

Hand-operated & stationary drilling

RODIADRILL Ceramic

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

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

Product profile

APPLICATION AREA

Hand-operated wet drilling in:

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

KEY FEATURES

- For all common G 1/2" drill bits
- Fatigue-free operation with the 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



RODIADRILL Ceramic set 3.4 FF40150

ACCESSORIES

Model





 $\Delta_{kq}\Delta$



No.









Model	No.	Model		No.
Freehand drill support up to Ø 83 mm	FF35750	Water supply hose with "agua-stop"		FF35302
Quick change adaptor	FF35751	HSP Nature stone drill bits	46	
Pressurized water container 10 l	FF35028	Water collection ring, stationary		FF35700
Special water supply hose	FF35301	•		

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

TECHNICAL DATA (DRILL STAND)

RODIACUT 150:

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

With water collection ring max. Ø 132 mm

Drill motor

Ø 60 mm adaptor:

280 x 440 x 810 mm LxWxH: 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



RODIA diamond core drilling

RODIADRILL 160

Drill motor







TECHNICAL DATA (DRILL MOTOR)

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

RODIADRILL 200

Drill motor









TECHNICAL DATA (DRILL MOTOR)

RODIADRILL 200 Drill motor: Threaded adaptor: G 1/2" and 1.1/4" UNC Power 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 71 Nm 34 Nm 17 Nm Torque: Clamping neck: Ø 60 mm



drill motor RODIADRILL 160 (No. FF40165), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW36 DIN894 (No. FF70036), allen key 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), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW36 DIN894 (No. FF70036), allen key 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	$\Delta_{kg}\Delta$	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	39	FF40150	RODIA DRY CLEANER 1600	51	FF35144
Pressurized water container 10 l	50	FF35028	Water collection ring, stationary (for No. FF30150)	50	FF35700
Vacuum pump RODIA-VAC	49	FF35200	Drill bits 46	- 48	

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Hand-operated & stationary drilling

RODIA diamond core drilling

Hand-operated & 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:

Stationary wet drilling in reinforced concrete: Ø 10 - 200 mm Stationary dry drilling in masonry: Ø 10 - 225 mm Hand-operated wet drilling in reinforced concrete: Ø 10 - 82 mm Hand-operated dry drilling in masonry: Ø 10 - 250 mm

TECHNICAL DATA (DRILL STAND)

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

260 x 510 x 980 mm LxWxH:

Hub: 650 mm Weight: 19.7 kg

4 applications with just one unit



RODIACUT 250 / RODIADRILL 500

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

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

2 applications with just one unit



RODIADRILL 200

Drill motor







TECHNICAL DATA (DRILL MOTOR)

RODIADRILL 200 Drill motor: G 1/2" and 1.1/4" UNC Threaded adaptor: 2,700 W / 2,400 W Power input / output: 3-speed transmission 1. gear 2. gear 3. gear Torque: 71 Nm 34 Nm 17 Nm Clamping neck: Ø 60 mm

RODIADRILL 500

Drill motor









TECHNICAL DATA (DRILL MOTOR)

RODIADRILL 500 Drill motor: Threaded adaptor: G 1/2" and 1.1/4" UNC Power input / output: 4.000 W / 3.000 W 3-speed transmission: 2. gear 1. gear Nominal speed: 215 rpm 430 rpm 785 rpm 185 Nm 107 Nm Torque: Drill 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), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW36 DIN894 (No. FF70036), allen key 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

Set (No. FF34260) includes: drill stand RODIACUT 150 (No. FF30250), drill motor RODIA-DRILL 500 (No. FF40400), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW32 DIN894 (No. FF70032), allen key 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 500 (No. 1300002469), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggle HC/AF (No. 4100000441)

Model	$\sqrt[]{\log}$	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	39	FF40150	RODIA DRY CLEANER 1600	51	FF35144
Pressurized water container 10 l	50	FF35028	Water collection ring, stationary (fo	r No. FF30150) 50	FF35700
Vacuum pump RODIA-VAC	49	FF35200	Drill bits	46 - 48	

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



Stationary drilling

RODIA diamond core drilling

Stationary drilling

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 Ø 32 - 400* mm Stationary dry drilling in masonry

Ø 32 - 400* mm

KEY FEATURES

- Drill angle adjustments from -15° up to +45°, in 2.5° steps
- 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

28.4 kg Weight:

460 x 260 x 1,100 mm LxWxH: Hub: 680 mm



230 V

RODIADRILL 500

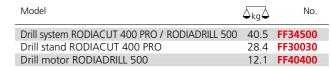
Drill motor



Set (No. FF34500) includes: drill stand RODIACUT 400 PRO (No. FF30030), drill motor RODIADRILL 500 (No. FF40400), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW32 DIN894 (No. FF70032), allen key 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 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 500 Threaded adaptor: G 1/2" and 1.1/4" UNC Power input / output: 4,000 W / 3,000 W 3-speed transmission: 1. gear 2. gear 3. gear Nominal speed: 215 rpm 430 rpm 785 rpm Torque: 185 Nm 107 Nm 55 Nm Drill motor adaptor: Dovetail plate



















Model		No.	Model		No.
Submersible water pump RODIAPUMP	50	FF35029	Drill bits	46 - 48	
Pressurized water container 10 l	50	FF35028	Distance plate 60 mm		FF35136
RODIA DRY CLEANER 1600	51	FF35144	Copper rings 1.1/4"	49	FF35190
Mounting articles	49		Extensions	50	

RODIA diamond-drill bits

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

KEY FEATURES

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

9 mm high segments with high diamond concentration

Extremely easy cutting, very long service life in granite tiles



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

00

KEY FEATURES

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

TECHNICAL DATA

G 1/2" adaptor

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

Effective length: \emptyset 6.3 - 10 mm = 50 mm Ø 12 - 67 mm = 120 mm

Special length of 300 mm available upon request

*Single segment mounting from Ø 45 mm



Overwound drill bits

Suitable for

Balanced rotation reduces wear

Drilling of the hardest materials

Threaded adaptor G 1/2"

Suitable for all other ROTHENBERGER drilling machines

6.3

8.3

10

12



0.17

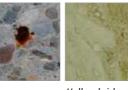
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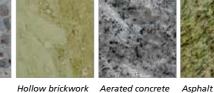
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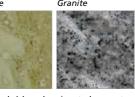
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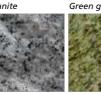




30

35

40









Adaptor

FF44855

FF44860

FF44865

FF44867

G 1/2" No.

RD 160

RD 200

Adaptor Adaptor G 1/2" No. Ø mm G 1/2" No. FF44806 15 0.20 FF44815 24

FF44816

FF44818

FF44820

FF44822

0.20

0.21

0.22

m	$\Delta_{kg}\Delta$	Adaptor G 1/2" No.	Ø mm	${\textstyle {\textstyle \int_{kg}}} {\textstyle {\textstyle \int}}$
	0.22	FF44824	55*	0.65
	0.25	FF44830	60*	0.72
	0.30	FF44835	65*	0.76
	0.34	FF44840	67*	0.79
	0.60	FF44850		

^{*} with single segment mounting

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







Marble

20

30

40

52

62

RD 160*

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

Highest service life and universal application!

 $\Delta_{kg}\Delta$

0.5

0.6

0.7

0.9

1.2

1.4

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

 $\Delta_{kg}\Delta$

1.6

19

2.1

2.4

2.6

2.9





Adaptor

FF44620

FF44630

FF44640

FF44650

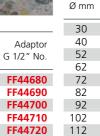
FF44660

FF44670

G 1/2" No.







122

FF44730





Space Welding and

PRISMACUT

TECHNICAL DATA									
G 1/2" connection (400 mm effective length)									
Drill bits	Segment	Segment dimensions (L x W x 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	ection (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							

Special segment mix

Ouicker drilling progress and extremely long service life



Extremely easy cuts.



$\Delta_{kg}\Delta$	Adaptor 1.1/4" No.	Ø mm	$\sqrt[]{\log \Delta}$	Adaptor 1.1/4" No.
0.7	FF44030	132	4.6	FF44130
1.2	FF44040	142	5.0	FF44140
1.6	FF44050	152	6.4	FF44150
1.9	FF44060	162	7.0	FF44160
2.3	FF44070	172	7.5	FF44170
2.6	FF44080	182	8.0	FF44180
3.0	FF44090	200	9.0	FF44200
3.4	FF44100	220	11.4	FF44220
3.8	FF44110	250	13.6	FF44250
4.2	FF44120	300	19.3	FF44300

16

18

20

22

FF44808

FF44810

FF44812

FF44814

Ø mm

82

92

102

112

122

132

RODIA diamond core drilling

RODIA diamond-drill bits

SPEED STAR DX

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

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

- 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

Space welding and **PRISMACUT**





TECHNICAL DATA Drill bits Segment Segment dimensions (L x W x H) Ø 10 - 38 mm 16 x 3.0 x 7.0 mm Ø 40 - 48 mm 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 20 x 5.0 x 9.0 mm Connection G 1/2": Effective length 400 mm Connection 1.1/4" UNC: Effective length 430 mm

PRISMACUT For better drill behaviour OTHENBERGE Overwound drill bits

Balanced rotation reduces wear

Extremely high diamond concentration

Faster drilling progress



Suitable for

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



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

Ø mm	$\overline{\Delta_{kg}} \overline{\Delta}$	Adaptor 1.1/4" No.	Ø mm	$\sqrt[]{\log \Delta}$	Adaptor 1.1/4" No.
20	0.5	FF00020	112	3.8	FF00110
25	0.6	FF00025	122	4.2	FF00120
30	0.7	FF00030	125	4.3	FF00125
40	1.2	FF00040	132	4.6	FF00130
46	1.4	FF00045	142	5.0	FF00140
52	1.6	FF00050	152	6.4	FF00150
56	1.7	FF00055	162	7.0	FF00160
66	2.1	FF00065	200	9.0	FF00200
72	2.3	FF00070	250	13.6	FF00250
76	2.4	FF00075	280	17.6	FF00280
92	3.0	FF00090	300	19.3	FF00300
102	3.4	FF00100	350	23.6	FF00350
108	3.6	FF00105	500	39.1	FF00500

RODIA diamond core drilling

Accessories hand-operated & stationary drilling

Vacuum pump RODIA-VAC

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



Vacuum-sets

No. FF35710



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. FF 35122) 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





Thread interfaces

Between motor connection and drill bit







No. FF35091

Copper rings 1.1/4"

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



Special diamond drills for tiles and natural stone

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



SDS-plus hammer drill



Model	$\Delta_{kg}\Delta$	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, wl. 160 mm	0.16	111429*
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" UNC outer thread	0.50	FF35080
1.1/4" UNC inner thread to G 1/2" inner thread	0.70	FF35095
Adaptor DD-BI to G 1/2" + 1.1/4"	0.50	FF35091
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
Threaded interface WÜRTH to 1.1/4"	0.60	FF35101
Copper ring 1.1/4"	0.05	FF35190

* Cordless rotary hammer p. 331

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

Extraction systems

Accessories hand-operated & stationary drilling

Water supply

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





Model	$\sqrt[]{\log \Delta}$	No.
Submersible water pump, 230 Volt	4.40	FF35029
Water supply hose with Aqua-Stop	0.20	FF35302

Model	$\Delta_{kg}\Delta$	No.
Pressurized water container, 10 litre	5.50	FF35028
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	$\sqrt{\log \Delta}$	No.
Water collection ring, stationary (up to Ø 132 mm		
Spare rubber membrane (for FF35700)	0.0	FF55131
Water collection ring, stationary (up to Ø 200 mm)	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 ler in mm	\int_{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 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	$\overline{\triangle_{kg}\triangle}$	No.
Extraction rotor (drill bit 1.1/4" UNC / motor G 1/2")	1.90	FF40056



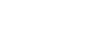


RODIA DRY CLEANER 1600

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









High cleaning efficiency

water retention of 15 litres

2 polyester-filter cassettes with

99.9% dust retention (max. 20 l),







Bending

System overview

System overview

TUBE BENDER

TUBE BENDER Maxi

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	-	Ø 12 - 18 mm (3/8 - 5/8") •⊙ 1 mm, soft	-
Working range:	-	Ø 14 - 26 mm (5/8 - 7/8")	Ø 14 - 32 mm
MLP		•⊙2 mm	•⊙2 mm
Page	56	57	58

	Pull bending		
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	-	-	-	-
Page	59	59	60	60

Push bending				
	ROBULL type E	ROBULL type ME		
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	-	-		
Page	64, 65	66, 67		



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68 - 70

Manual

3

Bending

Manual

TUBE BENDER

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

Product Profile

APPLICATION AREA

Suitable for pipes made of:

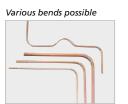
Copper (soft) and

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

KEY FEATURES

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

Ratchet arm with Release lever bayonet coupling Quick change of the Quick release and reset of the bending formers bending formers Ergonomic design One-handed operation Compact design Accurate bending even in restricted spaces Open bending frame Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all Mechanical ratchet feed levels Quick and accurate bending













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

Model	$\Delta_{kg}\Delta$		No.
Basic set (basic tool, back plates, plastic case)	1.00	1	24010
TB set 5 - 6 - 8 - 10 mm	2.84	1	24131
TB set 6 - 8 - 10 - 12 mm	3.03	1	24132
TB set 8 - 10 - 12 mm	2.82	1	24133
TB set 1/4 - 5/16 - 3/8 - 1/2"	2.92	1	24134
Basic tool without bending segments	0.36	1	766004016
Support segment	0.05	1	24048
Back plate without support segment	0.14	1	24049

TUBE BENDER bending segments

Model	► Size	$\sqrt[4]{g}$	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"

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

Bending

Manual

TUBE BENDER MAXI MLP

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

Contractor Contractor

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

Ratchet arm with Adjustable bending bayonet coupling frame Bending formers Production of U-bends. counter bends, swan-neck easily changed bends and connecting bends possible at all levels Ideal for use in confined spaces and for one-handed operation Plastic bending formers and support segments with increased conductivity Release lever Optimum bending results Quick release and resetting of bending formers Mechanical ratchet feed Quick operation Fig. TUBE BENDER MAXI MLP Body made of resistant

Sets (No. 23065 / 23095) include: TUBE BENDER MAXI MLP (No. 23076), support brackets (No. 23080), bending segments in carrying case

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

ACCESSORIES

die-cast steel

Sturdy and long-lasting



Universal field operation











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 segment 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



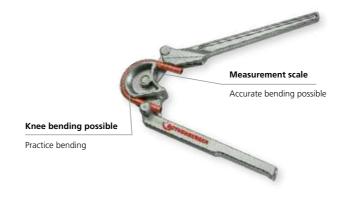
Size	max. mm	Radius mm	L mm	$\Delta_{kg}\Delta$	No.
3/8" / 10 1/2" 5/8" / 16	1.0	40 47 76	530 530 770	2.1	767050016 1000000445
3/4"	1.0	76	770		767750016

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

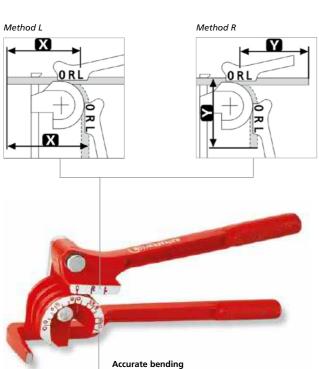
- Universal bender for sanitary and heating installations refrigeration and air-conditioning systems
- Long handles allow for better leverage in the bending of semihard copper pipes
- Bending pliers with sliding carriage for millimetre-exact bending
- Accurate adjustments between the bending radius and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



► ○ - Size	mm	R Radius mm	k → 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

Bending

Manual



Minimum size chart and bending

radius display on measurement scale

MINIBEND

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

KEY FEATURES

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

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

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

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

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

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

Standard bender 180°

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

KEY FEATURES

- Bending 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	k──≯		
Size	Radius mm	L mm	$\Delta_g \Delta$	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 mn	n 24	305	640	25131
1/2"	30	390	1,680	25142
5/8"	58	450	1,830	25136

Accurate bending Minimum size chart and bending radius display on measurement scale

ACCESSORIES



Description		No.
Internal / external deburrer	31	1500000236
Bending spray, 150 ml	61	25120

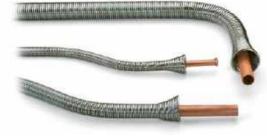
Copper tube bending springs

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

KEY FEATURES

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

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



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

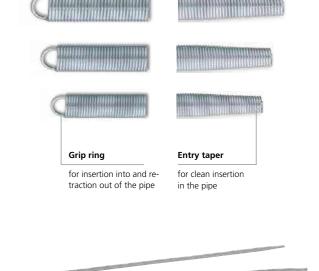
MLP internal bending springs

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

	-	-		
Model	Bending spring	Pipe	ΔgΔ	No.
MLP-internal-bending spring	g 6.0 mm	12 mm	90	25441
MLP-internal-bending spring	g 8.0 mm	14 mm	120	25442
MLP-internal-bending spring	g 10.0 mm	16 mm	150	25443
MLP-internal-bending spring	g 12.0 mm	18 mm	180	25444
MLP-internal-bending spring	g 13.5 mm	20 mm	220	25445
MLP-internal-bending sprin	g 19.0 mm	25/26 mm	380	25446



Bending spray

For bending copper and steel pipes

KEY FEATURES

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

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





Internal / external deburrer	31	1500000236
Description		No.

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	d					
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

ROLUB-Anti-Block-System Less effort due to lower friction and optimum distribution of the bending spray **ROLUB-Anti-Block-System!** Optimum combination of ROLUB guide shoe and the bending former Perfect bending results without friction marks Made from highquality forged 0% Anlegepunkt | Biegespray a = Anlegemaß | verwenden -7/8"H+WPLUS2.4522 Retains shape and remains stable Minimum size chart and bending radius display Accurate bending Thread for the attachment of the additional lever Bending formers with base plate (accessories) Easy bending through Free-hand bending possible

ROBEND H+W PLUS bender

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



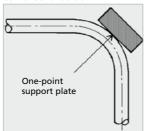
ROBEND H+W PLUS bender

-	▶€	R	\sqrt{a}	
Size	max mm	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	nal lever for t	wo-handed	bending)*
Lever (shor	t) for bending	formers Ø 8 mm	า / 3/8″	25075
Lever for b	ending former	s Ø 10 - 15 mm		25076
		s bigger than Ø	15 mm	25078
Bending sp	oray, 150 ml	J.		25120
ROCASE 6	414			1300003542

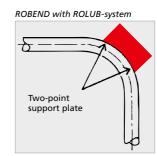
*Possible from 10 mm

1300004002

Conventional bender



Plastic inlay f. ROCASE 6414





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

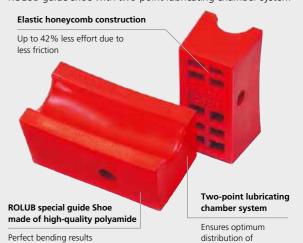
Model	Description	► mm	$\sqrt[]{\log \Delta}$	No.
ROBEND H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	24500
ROBEND H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	24501
ROBEND H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	24502
ROBEND H+W PLUS	15 - 18 - 22 mm	1.0	14.9	24505
ROBEND H+W PLUS	1/2 - 5/8 - 3/4"	1.0	13.6	24503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

ROLUB Anti-Block special guide shoe

▶○		
Size	∑ _g ∆	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



lubrication

without friction marks

clamping on a vice

Manual hydraulic

ROBULL type E

For precise, manual hydraulic cold bending up to 90°

Product profile

APPLICATION AREA

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

ROBULL type E:

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

Carbon steel suitable for

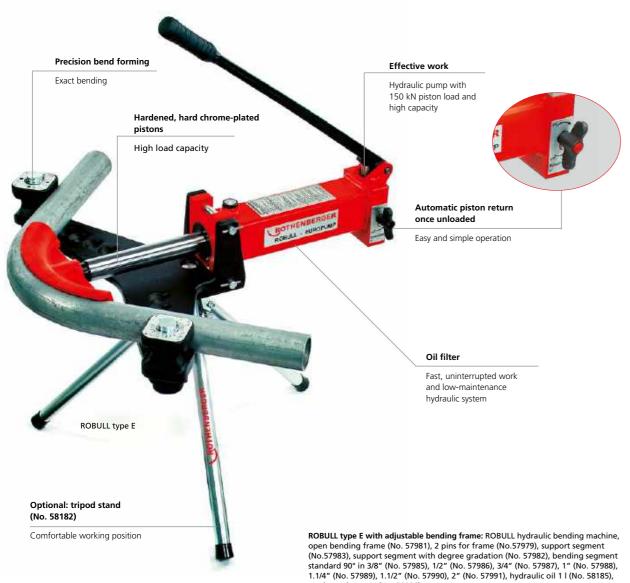
welding and thread-cutting: Ø 3/8 - 2"





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



steel carrying case (No. 58206)

ROBULL type E with foldable bending frame: same scope of delivery as the ROBULL type E with adjustable bending frame but with foldable bending frame (No. 58002)

Model	Description	$\sqrt[4]{\log \Delta}$		No.
ROBULL type E	without accessories	16.8	1	057950X
ROBULL type E	with adjustable bending frame and accessories (see above)	59.8	1	057966X
ROBULL type E	with foldable bending frame and accessories (see above)	72.6	1	057961X

ROBULL type E





Fig. similar

ROBULL type E bending segments

Small bending radius (red)

inch	► O•	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	► □ ◄ mm	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	$\sqrt[b]{\log \Delta}$	No.
Bending frame, adjustable Support segments f. ROBULL E / ME with degree gradation (1 piece)	15.2 2.6	57981 775004000
Support segments f. ROBULL E / ME without degree gradation (1 piece)	2.6	57983

Model	$\sqrt[b]{\log \Delta}$	No.
Sup. seg. w/ degree gradation, foldab	ole, E/ME12.5	775504100
Locking pin	0.3	57979
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182
Steel case	10.0	996277400





Electro-hydraulic

ROBULL type ME

For precise, power hydraulic cold bending up to 90°

Product profile

APPLICATION AREA

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

ROBULL type ME:

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

Carbon steel suitable for

welding and thread-cutting: Ø 3/8 - 2"

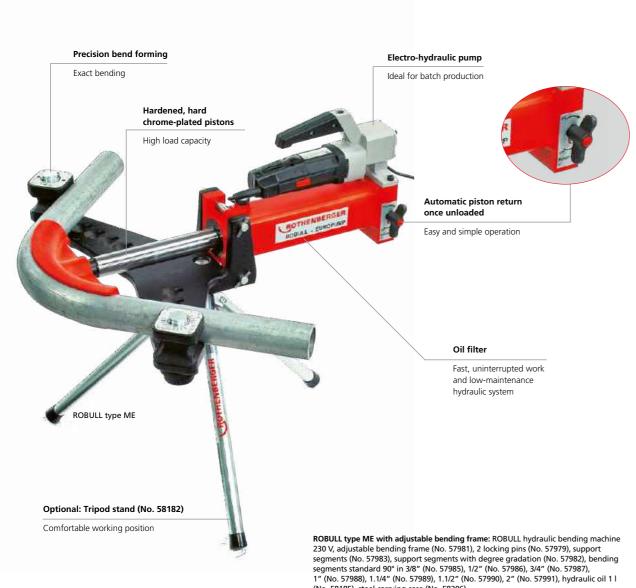






KEY FEATURES

- 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



(No. 58185), steel carrying case (No. 58206)

ROBULL type ME with foldable bending frame: same scope of delivery as ROBULL type ME with adjustable bending frame but with foldable bending frame (No. 58002)

Model	Description	$\sqrt[]{\log \Delta}$		No.
ROBULL type ME	without accessories	17.8	1	057969X
ROBULL type ME	with adjustable bending frame and accessories (see above)	59.8	1	057973X
ROBULL type ME	with foldable bending frame and accessories (see above)	72.6	1	057972X

ROBULL type ME





Fig. similar

ROBULL type ME bending segments

Small bending radius (red)

inch	► O•	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	mm	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	$\sqrt[b]{\log \Delta}$	No.
Bending frame, adjustable Support segments f. ROBULL E / ME with degree gradation (1 piece)	15.2 2.6	57981 775004000
Support segments f. ROBULL E / ME without degree gradation (1 piece)	2.6	57983

Model	$\sqrt[4]{\log \Delta}$	No.
Sup. seg. w/ degree gradation, foldable,	E/ME12.5	775504100
Locking pin	0.3	57979
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182
Steel case	10.0	996277400



Bending

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

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
- 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



ROTHENBERGER







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

ROBEND 4000 sets

ROLUB-Anti-Block-System!

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 special guide shoe made of high-quality polyamide

Perfect bending results without friction marks

> Optional: Tripod stand



Fig. similar

Forged aluminium former ROBEND bending segment



Two-point lubricating chamber system

Ensures optimum distribution of lubrication



Pre-adjustment of the bending angle without tools



Model	Description	Pipe type	$\Delta_{kg}\Delta$	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 mm	Cu, Fe et al.	20.60	1000001548
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 segme	ents Cu, Fe et al.	14.50	1000001559















Model	No.	Model	
Bending spray, 150 ml	25120	Pipe cutter	14 - 25
Guide shoe axle	25743	Internal / external deburrer	31
ROBEND carrying case, for 5 segments up to Ø 30 mm	995830200	Hard soldering torch (SUPER FIRE 4 with MAPP ²⁾ gas)	148-157
Tripod stand, foldable	25748	Brazing solder	177
ROBEND carrying case, for 32 mm (1.1/4") and 35 mm (1.3/8")	1000001564	, and the second se	
ROBEND 4000 bending sets can be found on 70			

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

Bending

ROBEND 3000/4000 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	$\sqrt[]{\log \Delta}$	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

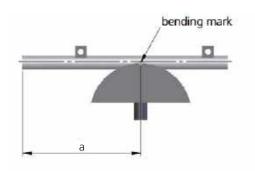
► ○ ◄ Size	Wall thickness mm	Bending radius mm	δ_{kg}	No.
12 mm	1.0	42	0.48	25612
14 mm	1.0	49	0.48	25614
15 mm	1.0	52	0.53	25615
16 mm	1.0	56	0.60	25616
18 mm	1.0	72	1.17	25618
20 mm	1.0	80	1.42	25620
22 mm	1.2	88	1.42	25622
28 mm	2.0	112	2.90	25628
32 mm*	2.0	128	3.40	1000001561
35 mm*	2.0	140	3.60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

► ○ - 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. Only matching with optional plastic carrying case (No. 1000001564).

Push bending



45°- arc



Symbols

 L_1 , L_2 = Leg length = Lay out length = Total length of the pipe piece = Distance / pipe end - wall = Distance / pipe middle - wall = Minimum length* = Reserve length*

90°- arc



Calculation examples TUBE BENDER MAXI

Specifications:

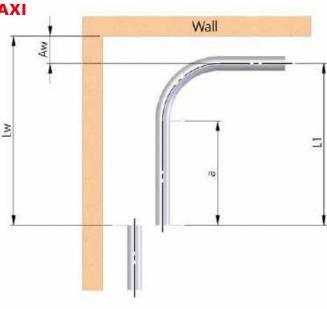
Installation in corner areas $L_{\rm W} = 1,200 \; {\rm mm}$ $A_W = 30 \text{ mm}$ Pipe-Ø 12 mm, 90°-arc

Sought after:

Leg length L₁ Applied size a

Solution:

Summary from the TUBE BENDER MAXI bending table



 $L_1 = L_W - A_W = 1,200 - 30 = 1,170 \text{ mm}$ Leg length

Applied size $a = L_1 - L_R = 1,170 - 7.5 = 1,162.5 \text{ mm}$; $L_R ... Tabular value$

TUBE I	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	-

48.5 56.0

64.0 68.0

18.5 24.0

20.5 24.5

28.5 31.0

8.0 12.0

52.5 58.0

27.0

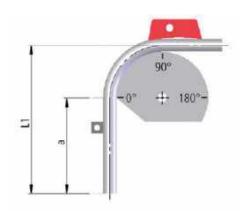
67.0 72.0

at 180°

Bending

Bending tables

Pull bending



Symbols

 L_1 , L_2 = Leg length = Lay out length

= Total length of the pipe piece

= Distance / pipe end - wall

= Distance / pipe middle - wall

= Minimum length*

= Reserve length*

45°- arc



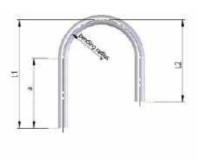
180°- arc



 $a = L_1 - L^R$



 $a = L_1 - L_R$



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

Calculation examples ROBEND 3000 / ROBEND 4000

Specifications:

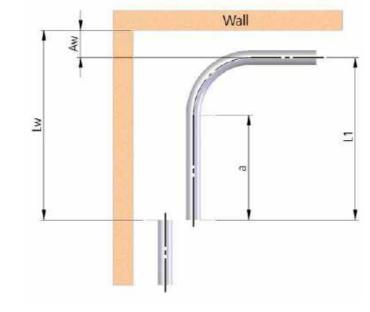
Installation in corner areas Lw = 1,200 mmAw = 30 mmPipe-Ø 12 mm, 90°-arc

Sought after:

Leg length L₁ Applied size a

Solution:

Summary from the ROBEND 3000/4000 bending table



 $L_1 = L_W - A_W = 1,200 - 30 = 1,170 \text{ mm}$ Leg length

Applied size $a = L_1 - L_R = 1,170 - 42 = 1,128 \text{ mm}$; $L_R ... Tabular value$

Ø / Ws mm / Inch	Bending radius R (mm)	Reserve length L _R mm	Minimum length L $_{\rm M}$ mm	Reserve length L _R mm	Minimum length L _M mm	Reserve length L _R mm	Minimum length L $_{\rm M}$ 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
MIN	IBEND	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 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	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
10 12	30.0 36.0	11.5 14.0	1.3 1.5	30.5 36.5	14.5 15.0	30.5 36.5	34.0 37.5

at 90°

at 45°

ROBEND H+W Plus

1/2"	42.0	16.5	1.8	49.5	22.5	49.5	53.0	
5/8"	58.0	22.5	2.5	64.0	28.5	64.0	67.0	
MUL	MULTIBEND		at 45°		at 90°		at 180°	
for Ø mm	Bending radius R (mm)	Reserve length L _R mm	Minimum length L $_{\rm M}$ mm	Reserve length L _R mm	Minimum length L $_{\rm M}$ mm	Reserve length L _R mm	Minimum length L $_{\rm M}$ mm	
8	24.0	9.5	1.0	24.0	10.0	24.0	26.0	
10	30.0	12.0	1.3	30.5	14.5	30.5	32.5	
12	36.0	14.0	1.5	36.5	15.5	36.5	37.5	
14	42.0	16.5	1.8	42.0	19.5	42.5	44.0	
15	48.0	19.0	2.0	48.0	22.0	48.0	53.0	
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	

48.5 56.0

64.0 68.0

24.0

2.0

2.5

1.0

18.5 21.0

22.5 25.5

7.0 9.5

47.5 54.0

58.0 66.0

24.0

15

5/16"

ROBE	ROBEND 3000/4000		at	45°	at	at 90° at 180°		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



System overview

ROLOCK expander power torque

Expander A0

Expander



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	-
Page	78-79	81	83

ROMAX expander **AC ECO MAXI**



Operation mode:	Electro-hydraulic	Hydraulic
Working range: Copper	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2.5 mm, soft, semi-hard	Ø 8-110 mm (5/16-4.1/4") •⊙ 3 mm, soft, semi-hard
Working range: Aluminium	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2.5 mm, soft	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
Page	02	0.4

ROTHENBERGER

	Expander head	ds	
Expander head ROLOCK	Expander head standard	Expander head type S	Flanged riveted expander head

Working range: Copper	Ø 8-42 mm (5/16-1.3/4") •⊙ 1.6 mm, soft, semi-hard	Ø 8-42 mm (5/16-1.3/4") •⊙ 1.6 mm, soft, semi-hard	Ø 22-67 mm (1-2.1/2") •⊙ 2.5 mm, soft, semi-hard	Ø 15-38 mm •⊙ 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	-
Page	80	80	82	82

	Expander head H2, type 2*	Expander head H2, type 3*	Step expander head
Working range: Copper	Ø 28-70 mm (1.1/8-2.3/4") •⊙ 2.5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") ◆⊙ 3 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") •⊙ 2.5 mm, soft, semi-hard
Norking range: Aluminium	Ø 28-70 mm (1.1/8-2.3/4") •⊙ 2.5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") ◆⊙ 3 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") ◆○ 2.5 mm, soft
Norking range: Precision steel	Ø 28-70 mm (1.1/8-2.3/4") •⊙ 2.5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") ◆⊙ 3 mm, soft, semi-hard	-
Norking range: itainless steel	Ø 28-70 mm (1.1/8-2.3/4") •⊙ 2.5 mm, soft, semi-hard	Ø 70-110 mm (2.3/4-4.1/4") → 3 mm, soft, semi-hard	-
Page	85	85	83

Expanding, extracting, flaring

Expanding, manual

ROLOCK expander power torque

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

Product profile

APPLICATION AREA

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

Copper (soft and semi-hard): Ø 8 - 42 mm, 5/16 - 1.3/4"

max, wall thickness 1.6 mm

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

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

max. wall thickness 1.6 mm Stainless steel (soft): Ø 8 - 22 mm, 5/16 - 7/8" max, wall thickness 1.0 mm







KEY FEATURES

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



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

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



Fig. similar **ROLOCK** expander power torque sets Model No. 2.9 3.3 3.3

12500 12 - 15 - 18 - 22 mm 12 - 15 - 18 - 22 - 28 mm 12503 10 - 12 - 16 - 22 - 28 mm 12505 12 - 14 - 16 - 18 - 22 mm 12509 10 - 12 - 14 - 16 - 18 - 22 mm 12511 10 - 12 - 15 - 16 - 18 - 22 - 28 mm 12537 3.6 12 - 14 - 16 - 18 - 22 - 28 - 32 mm 12538 3/8 - 1/2 - 5/8 - 3/4 - 1' 12517 3.3 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 12522 1/2 - 5/8 - 7/8 - 1.1/8" 3.0 12524 12 - 15 - 18 - 22 - 28 - 35 - 42 mm 12526 1/2 - 3/4 - 1" 29 12535 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8" 12536 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8" 4.5

EPT-Technology (Enclosed Power Transmission)

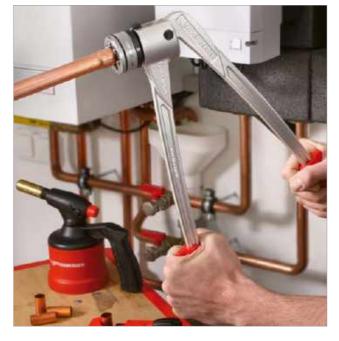
The expander head offers the following technical benefits:

Concealed bent lever:

Protection against dirt and external mechanical damage

Energy efficient through optimised force transmission: Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort

For efficient, fitting-free installation of pipes



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	80	Expander adaptor type S	85
Expander heads type S / riveted expander heads	82	Brazing solder	177 - 179
Pipe cutter	14 - 25	High-performance torch (SUPER FIRE 4 with MAPP ¹⁾ gas)	150 - 151
Internal / external deburrer	31		

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

Reliable pipe connection according to DVGW standards

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

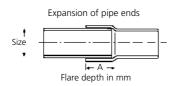
Product profile

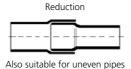
KEY FEATURES

- 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 fiedd Staffdard
Standard screwable expander head,
still compatible with the ROLOCK Expande

Expander head standard	
Standard screwable expander head, still compatible with the ROLOCK Expander	

	ma	ax. wall th	nickness	mm (soft) A	I	ROLOCK	Standard
mm	Cu	Al	Fe	Inox	mm	ΔgΔ	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

- 04	m	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	bility, d	lelivery tim	e and p	rice of cus	tom prod	ducts for	other pipe	2

diameters available upon request.

Description		Description	
ROLOCK expander power torque	78	ROCASE 4414 red, without inlay	339
ROLOCK COMBI KIT expander / tee-extractor	87		

Suitable for ROTHENBERGER ROLOCK expander power torque

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

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

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

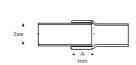


Expanding, extracting, flaring

Expanding, manual

Expander head type S

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





Accurate guidance of the segments through the reinforced expander head casing

	m	ax. wall t	hickness r	nm	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

inch	m Cu	nax. wall th Al	nickness n Fe	nm Inox	A-size mm	\sqrt{g}	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	$\sqrt[]{g}$	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	► mm	Outer diaflange mm	Distance flange pipe end mm	ΔgΔ	No.
Ì	15	1.5	18	4	110	11955
	18	1.5	21	4	110	11958
I	22	1.5	25	6	120	11962
	28	1.5	31	6	370	11968
	35	1.5	38	6	400	11975
ı	20	1.5	// 1	6	420	11070

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



► 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

Product profile

APPLICATION AREA

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

Expanding, extracting, flaring

Suitable for pipes made of:

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

KEY FEATURES

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

ROMAX expander AC ECO MAXI

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

Product profile

APPLICATION AREA

Suitable for pipes made of:

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

KEY FEATURES

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

KEY FEATURES

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

TECHNICAL DATA

Weight: approx. 13.7 kg 230 V / 50 Hz Motor:





Article available upon request!2

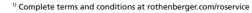
Fully automatic expanding process

6-fold step expander

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

2. Switch directly within reach

Various holding positions possible, even



For a constant axial thrust

RO SERVICE+ only valid in participating countries
2) Availability, delivery time and price of custom products for other pipe

diameters available on request.



Expanding, hydraulic

Hydraulic expander system H 600

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

Product profile

APPLICATION AREA

Suitable for normal and thick walled pipes made of:

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

Precision and stainless steel: Ø 8 - 110 mm, 5/16 - 4.1/4"

max. wall thickness 3.0 mm

KEY FEATURES

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

TECHNICAL DATA 1.2 kW Rated power: Rated current: 2.1 A 80 - 600 bar Operating pressure: 700 bar Max. operating pressure: **Delivery capacity:** 0.82 I / min

IP 54

400 V / 1,200 W

Safety category:

Actuation:



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 l (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 l (No. 58185), without expande

Model	$\Delta_{kg}\Delta$	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 Ø 22 - 67 mm, 1 - 2.1/2" Expander heads type S: (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	$\Delta_{kg}\Delta$	No.
Electro-hydraulic expander pistol H1	2.9	12001
Adaptor H1 / type S	0.6	11007
Adjusting tool for H1	0.9	12017

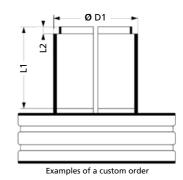
ACCESSORIES		
Description	$\sqrt[]{\log \Delta}$	No.
Expander head H2 / type 2, 28 - 70 mm	2.5	12078
Expander head H2 / type 3, 70 - 110 mm	3.0	12080
Adaptor H2 / type S	1.1	12097
Adjusting tool for H2	0.9	12018





Custom-made products* Riveted expander heads H2

Only one head necessary for every pipe diameter. When ordering, please fill out form and state the applicable dimensions L1 / L2 / D1



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"!

	- 0-	-		
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

¹⁾ Complete terms and conditions at rothenberger.com/roservice * Availability, delivery time and price of custom products for other pipe diameters available on request. RO SERVICE+ only valid in participating countries

Expanding & extracting, manual

	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	•	•		•	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. 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)

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

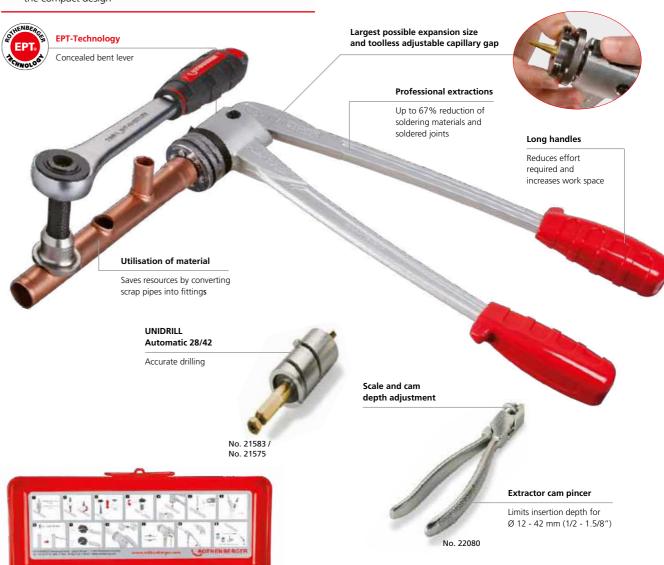


Fig. similar

► Description $\sqrt{\log \lambda}$ Model ROLOCK COMBI KIT 12 - 15 - 18 - 22 mm 4.4 ROLOCK COMBI KIT 12 - 14 - 16 - 18 mm 2.6 12602 ROLOCK COMBI KIT 1/2 - 5/8 - 7/8 - 1.1/8" 1 **12604** 2.8 ROLOCK COMBI KIT 1/2 - 3/4 - 1

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

Double V-block

Accurate and firm

Burr-free operation

(square, 3/4")

mm / inch

1.1/8

1.1/4"

1 3/8

1.1/2"

1 5/8

2.1/8"

Socket 19 mm

Square connection 3/4"

Special hook design

90° branches

positioning for exact

Specially polished, forged

and tempered extractor hooks

Easy insertion into the drilled hole

Ratchet adaptor (No. F80053 and F80054) with No. 22050 / 22054 included in scope of delivery

Drill Ø

mm

14

19

22

26

30

mm

11

11

Note: For copper pipes (soft), the use of an extractor support is recommended! (95)

19

-

mm

2.5

2.5

2.5

25 2.5

Spare extractor hooks

Ø 10 - 54 mm (3/8 - 2.1/8")

Hooks, specially polished, tempered from

No.

22064

22065

22035

22068

22050

22054

F80053

F80054

470

480

700

700

700 900

1,380

1,380

Extracting, manual

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): Aluminium:

Ø 10 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm 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"

max. wall thickness 2.5 mm

Made in Germany!

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



KEY FEATURES

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

Scale and cam depth adjustment Extractor cam pincer Limits insertion depth for Ø 12 - 42 mm (1/2 - 1.5/8") No. 27180 Optimum capillary gap Professional extractions Limits the insertion depth **UNIDRILL Automatic 28/42** Optimal positioning Accurate drilling No pipe removal Extractions even on



installed pipes possible

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	$\overline{\Delta_{kg}\Delta}$		No.
Tee-extractor set 12 - 15 - 18 - 22 mm	3.4	1	22100
Tee-extractor set 12 - 15 - 22 - 28 mm	3.6	1	22101
Tee-extractor set 12 - 15 - 18 - 22 - 28 mm	3.9	1	22103
Tee-extractor set 10 - 12 - 15 - 18 - 22 mm	3.5	1	22102
Tee-extractor set 12 - 14 - 16 - 18 - 22 mm	3.6	1	22109
Tee-extractor set 10 - 12 - 14 - 16 - 18 - 22 mm	3.7	1	22111
Tee-extractor set 12 - 15 - 18 - 22 - 28 - 35 - 42	mm 5.5	1	22126
Tee-extractor set 15 - 22 - 28 mm	3.6	1	22127
Tee-extractor set 1/2 - 5/8 - 3/4 - 7/8"	3.4	1	22121
Tee-extractor set 1/2 - 5/8 - 7/8 - 1.1/8"	3.7	1	22124
Tee-extractor set 1/2 - 3/4 - 1"	3 3	1	22135

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

Product profile

- Burr-free operation with the specially polished extractor hooks
- Easy insertion into the drilled hole with the special trapezoidal

▶ mm / inch	mm	Drill Ø mm	● mm	ΔgΔ	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	squar

- O-	$\overline{}$	
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

Precise drilling of the pipe	
without a centre punch – drill st	(
prevents perforation of the pipe	9



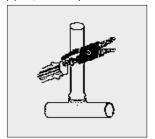
Insert extractor hook into the drilled hole and screw the bell



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



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

Tee-extractor

KEY FEATURES

- Uniform and proper material extraction without scratches or burrs

- Accurate and firm positioning for exact 90° branches

mm / inch	mm	Drill Ø mm	mm	ΔgΔ	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

-		
inch	$\Delta_g \Delta$	No
3/8"	60	1300005058
1/2"	70	1300005059
5/8"	140	1300005049
3/4"	140	1300005060
7/8"	200	130000506
1"	210	1300005062
1.1/8"	220	130000506
1.1/4"	270	1300005064
1.3/8"	290	1300005054
1.1/2"	290	130000505!
1.5/8"	320	130000506
2"	520	1300005067
2.1/8"	560	1300005057

firmly against the drill hole





Accessories extracting, manual



No. 1500002894 Adaptor for the use with extractor



Model	SW	$\Delta_g \Delta$	No.
10 - 42 mm, 3/8 - 1.3/4"	3/4" ■ 3/4" ■	435	27180
50 - 54 mm, 2 - 2.1/8"		1,140	27181

EVERCOOL

Drill and extraction paste

KEY FEATURES

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



Model	Contents	ΔgΔ	No.
EVERCOOL	50 g	80	21549

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	$\delta_g \delta$	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



Model	► □ ≺ mm	inch	● SW	\sqrt{g}	No.
UNIDRILL 28	10 - 28	3/8 - 1.1/8"	11	110	21583
UNIDRILL 42	10 - 42	3/8 - 1.5/8"	11	430	21575

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

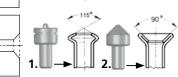
E- contour, simple flare:

Standard flaring contour

D-contour, double flare:

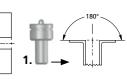


hydraulic lines Connection by means of coupling rings, sealed by means of flaring surface



180° flares:

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







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

Description	▶ ○ mm	\sqrt{kg}	No.
DB 10 set	4.75 - 5 - 6 - 8 - 9 - 10 mm	2.64	26013
Flaring attachment	4.75 / 5 mm	0.20	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

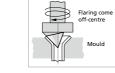


Description	► ○ mm	$\Delta_g \Delta$	No.
Pressure cone		20	26010
Clamping spindle		90	26015
Flaring spindle		300	26016
Distance bolt		30	26017
Set of clamping blocks	(2 pcs.) for pipes	190	26011
4.75	- 5 - 6 - 8 - 9 - 10 mm		

ROFLARE REVOLVER

Revolver reeling flaring tool

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





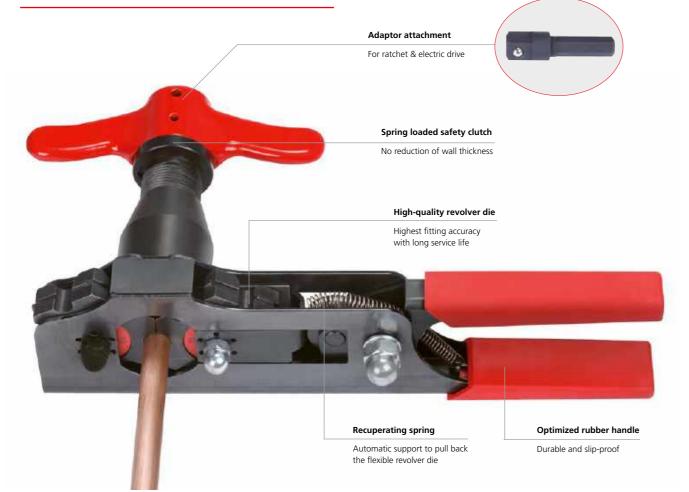
E-contour single flare

Product profile

- Guaranteed norm flares
- Produces leak free joints

KEY FEATURES

- One-handed quick clamping system
- Automatic depth stop: perfect positioning of the pipe to the flaring cone



Set (No. 1000000230) includes: ROFLARE REVOLVER metric incl. ratchet adaptor, dies Ø 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. 100000046), ROCASE 4212 (No. 1300003334)

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

Compact design enables use



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



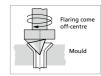
Reeling flaring tool

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



Expanding, extracting, flaring





E-contour single flare



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

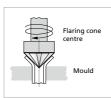
Model	► mm / inch	No.
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"	222401
Set EB Set EB	1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4" 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm	222402 222403
	Dies	
Metric Imperial	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 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	∆ g ∆	No.
Set EB	4 - 16 mm	3/16 - 5/8"	900	222601

Flaring and bending set

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





Flaring and bending set (No. 26020) includes: MINICUT I, Ø 3 - 16 mm (No. 70401), internal and external deburrer, Ø 4 - 36 mm (No. 11006), double flare press DB 10

Model	► mm	$\Delta_{kg}\Delta$	No.
Flaring / bending set	4.75 - 5 - 6 - 8 - 9 - 10	5.5	26020

(No. 26013), TUBE BENDER set, Ø 4.75 - 10 mm (No. 24112)

Fig. similar

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	$\sqrt[b]{\log \Delta}$	No.
ROTORQUE AIRCON	1.5	1000000224
ROTORQUE REFRIGERATION	1.4	1000000225

Connection 9 x 12



Expanding, extracting, flaring

ROTOROUE AIRCON

- 10 110 Nm
- ± 4% accuracy
- 1 Nm adjustment steps
- ROTORQUE REFRIGERATION
- 10 70 Nm
- ± 3% accuracy
- 1/2 Nm adjustment steps Suitable for cylinder heads' work



Fig. ROTORQUE AIRCON torque wrench



Fig. ROTORQUE REFRIGERATION torque wrench

DIN -Norm

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!

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	$\Delta_{kg}\Delta$	No.
Torque wrench set, 7 pcs.	3.5	175001



System overview

ROMAX Compact TT (Twin Turbo)







			,	
Operation mode:	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Jaw fixture rotatable:	270°	270°	270°	270°
Constant Force Technology (CFT):	✓	\checkmark	\checkmark	✓
Controlled press cycle:	✓	\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	\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:	✓	\checkmark	-	-
Page:	100-101	104-105	106	107

ROTHENBERGER Constant Force Technology

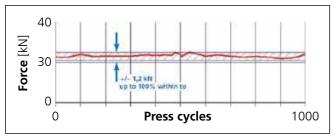
The CFT guarantees a constant axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections.

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 and Fischer



Press jaws / press chains









Interchangeable





3-elemental



Press chains



Working range metal:	Ø 12 - 35 mm	_	Ø 12 - 54 mm	Ø 42 - 54 mm	Ø 42 - 54 mm
Working range multi-layer:	Ø 12 - 40 mm	Ø 12 - 32 mm	Ø 12 - 40 mm	Ø 50 - 63 mm	Ø 40 - 110 mm
Snap on:	-	-	-	-	✓
DURA LAZR TEC:	✓	-	\checkmark	✓	\checkmark
Long-term corrosion prot.:	✓	\checkmark	\checkmark	✓	\checkmark
3-bolt synch. mechanism:	✓	\checkmark	✓	✓	-
Precision-manufactured contour:	✓	✓	✓	✓	✓
Fits to >B< MaxiPro fitting system:	✓	-	✓	-	-
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
Page:	109	110	110	111	112

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.

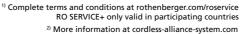
Controlled press cycle

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



Press machine compact

ROMAX Compact TT (TWIN TURBO)

Electro-hydraulic press machine for battery operated pressing of fittings up to Ø 40 mm (plastic/multi-layer) and/or up to Ø 35 mm (metal) with 19 kN.

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

- ROTHENBERGER press jaws compact starting on page 109
- Interchangeable press jaws:
- ROTHENBERGER interchangeable press jaws starting on page 110









TECHNICAL DATA

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

19 kN / 30 mm Piston force / hub:

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

270° rotatable jaw fixture Twin Turbo Design For easy use in confined spaces Perfectly balanced weight distribution Lightweight and easy to handle The press machine is 34 cm short and weighs only 2.5 kg Automatic controlled press cycles Piston retracts after reaching the necessary pressing force ROTHENBERGER **Turbo Pressure** Pressing of metal fittings up to Ø 35 mm within 3 seconds Constant Force Technology (CFT) For constant pressing force

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



The ROMAX Compact TT hanging



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



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

ROMAX Compact TT sets



Twin Turbo: What's behind it?

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

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

- 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	1	4.2	1000002809
ROMAX Compact TT basic set 1, 1x 2.0 Ah, EU	without press jaws	1	4.9	1000002115
ROMAX Compact TT basic set 1, 1x 2.0 Ah, UK	without press jaws	1	4.9	1000002123
ROMAX Compact TT basic set 2, 2x 2.0 Ah, EU	without press jaws	1	5.3	1000002116
ROMAX Compact TT press jaw set SV, 1x 2.0 Ah, EU	15 - 22 - 28	1	8.6	1000002117
ROMAX Compact TT press jaw set M, 1x 2.0 Ah, EU	15 - 22 - 28	1	8.6	1000002118
ROMAX Compact TT press jaw set M, 1x 2.0 Ah, UK	15 - 22 - 28	1	8.6	1000002124
ROMAX Compact TT press jaw set TH, 1x 2.0 Ah, EU	16 - 20 - 26	1	8.8	1000002120
ROMAX Compact TT press jaw set U, 1x 2.0 Ah, EU	16 - 20 - 25	1	8.6	1000002119
ROMAX Compact TT interchangeable press jaw set TH, 1x 2.0 A	Ah, EU 16 - 20 - 26 - 32	1	6.9	1000002113
ROMAX Compact TT interchangeable press jaw set U, 1x 2.0 A	h, EU 16 - 20 - 25 - 32	1	6.9	1000002112
ROMAX Compact TT interchangeable press jaw set RFz, 1x 2.0	Ah, EU 16 - 20 - 25 - 32	1	6.9	1000002111
ROMAX Compact TT interchangeable press jaw set CO, 1x 2.0	Ah, EU 12 - 16 - 20 - 25	1	6.9	1000002114

Model	No.
RO BP 18V / 2.0 Ah Li-Ion 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 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 start	ing on 📗 109











Pressing

>B< MaxiPro press system

>B< MaxiPro press system

>B< MaxiPro: Join the press revolution!

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

>B<MaxiPro 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







Air-conditioning and refrigeration

>B< MaxiPro Conex | Bänninger

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 Leak tightness: Helium ≤ $7.5 \times 10^{-7} \text{ Pa.m}^3/\text{s}$ at

+20°C, 10 bar

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

UL listing continues

operating temperature: 121°C

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

R410A, R507, R1234ze, R1234vf, R718, R450A, R513A, R448A, R449A, R407A, R427A, R438A,

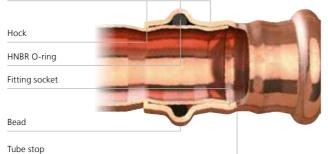
R417A and R422D

For full information, please visit Approved tube: 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/2.0 Ah battery (No. 1000001652), RO BC battery charger EU (No. 1000001654), 8x >B< MaxiPro 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		${\textstyle \sqrt[]{\log \Delta}}$	No.
ROMAX Compact TT + >B< MaxiPro press jaw compact set 1/4", 3/8", 1/2" 1/4"–1.1/8" + hand tools, EU	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	21.2	1000002121
ROMAX Compact TT + >B< MaxiPro press jaw compact set 1/4", 3/8", 1/2" 1/4"–1.1/8" + hand tools, UK	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	21.2	1000002125
>B< MaxiPro press jaw compact set 1/4", 3/8", 1/2" 1/4"–1.1/8" + hand tools	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	14.0	1000001989
ROMAX 4000 + >B< MaxiPro press jaw standard set 1/4", 3/8", 1/2" 1/4"–1.1/8" + hand tools, EU	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	24.3	1000002945
ROMAX 4000 + >B< MaxiPro press jaw standard set 1/4", 3/8", 1/2" 1/4"–1.1/8" + hand tools, UK	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	24.3	1000002946
>B< MaxiPro press jaw standard set 1/4", 3/8", 1/2"	', 3/4", 5/8", 7/8", 1", 1.1/8"	1	18.1	1000002207

How to install the >B(MaxiPro system?

»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. >B< MaxiPro is a mechanical joint, thus eliminating the need for nitrogen purge during the jointing 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



3. Use a pencil deburrer on internal edges



6. Ensure the O-ring is seated.

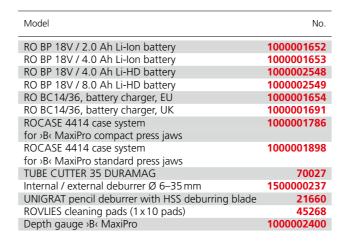


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9. Mark the completed joint.



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













Press machines standard

ROMAX 4000

Electro-hydraulic radial battery-powered press machine for system depending pressing of fittings up to Ø 110 mm with 32 - 34 kN.







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 110 and 3-elemental standard press jaws starting on page 111

ROTHENBERGER press chains standard starting on page 112

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

Service interval: 40,000 pressings / 2 years

270° rotation Press jaw fixture:

RO BP 18 V / 2.0 Ah Li-ion battery Power supply: RO BP 18 V / 4.0 Ah Li-ion battery

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

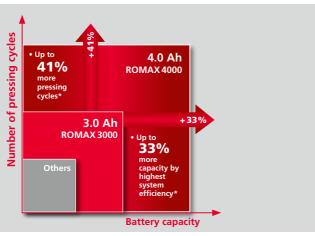
Pressings: Up to 240 times (with 4.0 Ah battery) (with SV 18 copper) Up to 105 times (with 2.0 Ah battery)

Fast and powerful pressings Pressed in 5 seconds with 32 - 34 kN Lightweight The machine weighs only 3.6 kg 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



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

ROMAX 4000 sets





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

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 BC14/36, battery charger, EU	1000001654
RO BC14/36, battery charger, UK	1000001691
ROCASE 6414, empty	1000001879
Press jaws & press chains starting on 110	











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
- 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

Press chains:

ROTHENBERGER standard press jaws, Press jaws: compatible with many other manufacturers starting page 110

ROTHENBERGER standard press

chains starting on page 112

Safety lock

No unintentional opening because a 180° rotation is necessary





270° rotatable jaw fixture

For easy use in confined spaces







Compatible jaw fixture

Suitable for many press jaws

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

ROMAX 3000 AC basic set 1000001001

ACCESSORIES

No.





\ ROTHENBERGER



5 m cable length Large operations radius



Mode No. ROCASE 6414 with inlay ROMAX 3000 AC 1000001877

Press jaws & press chains starting on 110

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

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 ECOis 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

Power supply:

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

Weight: approx. 4.5 kg (without press jaw) 32 kN / 40 mm Piston force / hub:

Nominal size: Ø 12 - 110 mm²⁾

Service interval: 10,000 pressings / 2 years Press jaw fixture: 270° rotation

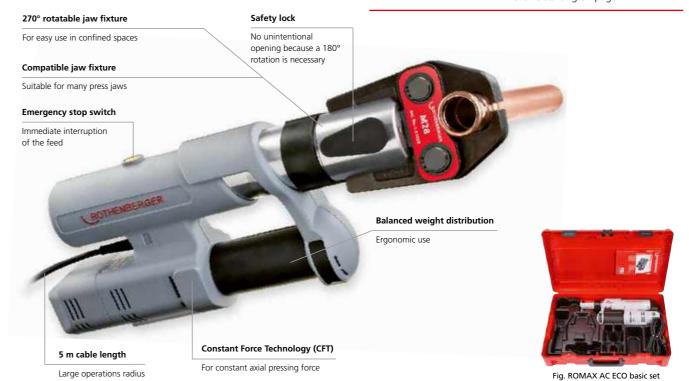
> 230 V / 50-60 Hz 110 V on request

COMPATIBLE PRESSING TOOLS

ROTHENBERGER standard press jaws, Press jaws:

compatible with many other manufacturers starting on page 110

Press chains: **ROTHENBERGER** standard press chains starting on page 112



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

Model	Description	Press jaws Ø mm		$\sqrt[]{\log \Delta}$	No.
ROMAX AC ECO basic set	in ROCASE 6414	without press jaws	1	8.9	15705
ROMAX AC ECO press jaw set SV	Basic set with press jaws type SV (Viega et al.)	15 - 22 - 28	1	13.4	15740
ROMAX AC ECO press jaw set M	Basic set with press jaws type M (Mapress et al.)	15 - 22 - 28	1	13.4	15750
ROMAX AC ECO press jaw set TH	Basic set with press jaws type TH (Henco et al.)	16 - 20 - 26	1	13.4	15730
ROMAX AC ECO press jaw set U	Basic set with press jaws type U (UNICOR et al.)	16 - 20 - 25	1	13.4	15760

ACCESSORIES

Model No. 1000001959 ROCASE 6414 with inlay ROMAX AC ECO Press jaws & press chains starting on 110











Model

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

Pressing

DURA LAZER TEC

DURA LAZR TEC

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).



LAZR 🗚



+ 40 % **HARDNESS AREAS** +100% **PRESS CYCLES WITH LASER HARDENING**

ROTHENBERGER press jaws before surface treatment



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 (plastic / multi-layer) and/or up to Ø 28 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 1 finger!

Batch numbering and individual testing

Secures the high-quality standard of material and press contour

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



Precision-manufactured contours

For optimum and reliable

pressings

Made of forged, highly resilient special steel

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

Permanent bolt

- Without potential weak points /
- Considerable reduction of the breakage risk
- Increased safety

Long-term corrosion protection

Optimum for heavy-duty field operation

Press jaws compact Ø 35 mm

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.

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!

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



 Adapted power flow Less wear and tear

Optimised inlet contour

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

Model Nο Press jaw compact, SV35 2.2 **1000002266** Press jaw compact, M35 2.2 1000002267

ACCESSORIES

SV35

Model Nο 1000002655 ROCASE 4212 with inlay compact press jaws Press jaw overview starting on 113











100% extended lifetime of the

press jaws among other things

Parts which have to be flexible

due to laser hardening

stav ductile

Adjustment of the plate

Durability increased by approx. 45%*

For ROMAX Compact TT

32-34 kN and compatible press jaw fixture



Made of forged, highly resilient special steel

with a constant axial thrust of

Wide jaw mouth for easy assembling



Precision-manufactured contours

For optimum and reliable pressings



Suitable for all press machines



of the jaw on the fitting



|--|

Model	$\Delta_{kg}\Delta$	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

Effective

ROTHENBERGER

00001274

M54

Press jaws standard 3-elemental

For ROMAX 4000, ROMAX 3000 AC and ROMAX AC ECO

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!

Easy handling / assembling

Optimized power distribution

3-elemental system

DURA LAZR TEC

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

interchangeable press jaws

Made of forged, highly resilient special steel

Guiding ridge

Safe admittance from

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

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, U ¹⁾	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 Precision-manufactured

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).

100% more press cycles with laser hardening*

3-bolt synchronised mechanism

- Highest precision when pressing
- Synchronised run of the law lever
- Open the jaw with just one finger!

Secures the high quality standard of material and press contour

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



For optimum and reliable pressings



Made of forged, highly resilient special steel

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

Permanent bolt

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

Long-term corrosion protection

Optimum for heavy-duty field

Optimised inlet contour Adapted power flow Less wear and tear

Press jaws standard sets

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



ROCASE case system

Stack, click, transport







Variable

Effective

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

Enough space for up to 7

press jaws in the ROCASE

Enough space for up to 4

press jaws in the ROCASE

4212 up to Ø 32 mm

4414 up to Ø 63 mm



Model	Press jaws Ø mm	$\sqrt[]{\log \Delta}$		No.
Press jaw standard set, SV	15 - 22 - 28	6.8	1	1000002068
Press jaw standard set, SV	15 - 18 - 22 - 28	8.7	1	015060X
Press jaw standard set, SV	42 - 54	10.5	1	015080X
Press jaw standard set, M	15 - 22 - 28	6.7	1	1000002067
Press jaw standard set, M	15 - 18 - 22 - 28	8.6	1	015062X
Press jaw standard set 3-elei	mental, M 42 - 54	12.0	1	1000001502
Press jaw standard set, TH	16 - 20 - 26	8.7	1	015063X
Press jaw standard set, U	16 - 20 - 25	7.3	1	1000002069
Press jaw standard set, G	16 - 20 - 26 - 32	8.8	1	015068X
Press jaw standard set, VP	16 - 20 - 25 - 32	9.4	1	015072X
Press jaw standard set, BE	16 - 20 - 26	8.7	1	1000002065
ROCASE 4414 with inlay up	to 7 press jaws	1.5	1	1000001807
ROCASE 4212 with inlay up	to 4 press jaws	1.6	1	1000001808

ROCASE starting on 339

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

Press jaws compact / standard

Interchangeable press jaw compact

ROTHENBERGER interchangeable press jaw for system dependent pressing of plastic fittings Ø 12 - 32 mm.

Combine various interchangeable

inserts with only one press jaw!

standard of material and

Interchangeable inserts set

Batch numbering and individual testing

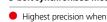
3-bolt synchronised mechanism

Secures the high-quality

press contour

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

DURA LAZR TEC



Increased stability and durability

Batch numbering and individual testing

Press jaw overview starting on 113

5

Press chains standard

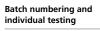
Press chains standard

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).



100% more press cycles with laser hardening*



Secures the high-quality standard of material and press contour

Long-term corrosion protection Optimum for heavy-duty field

operation



Fig. press chain SV54

Made of forged, highly resilient special steel

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

Comfortable operation even over long

Precision-manufactured contours

For optimum and reliable pressings

For an optimum force distribution

Clamping technology Self-clamping press chain

3 segments

Low weight

periods of work

on the fitting Two flexible elements for an optimal material flow on the fitting

3-bolt synchronised mechanism

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

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





Gripping the press chain with



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

* in comparison to previous models

Model	Press chains Ø mm	$\Delta_{kg}\Delta$		No.
Press chain set, SV with intermediate jaw ZBS1	42-54	7.3	1	1000001501
Press chain set, M with intermediate jaw ZBS1	42-54	7.3	1	1000001500
Intermediate press jaw ZBS1	For press chains SV, M and U up to Ø 54 mm	2.1	1	1000001126
Press chain standard, M	42 for ZBS1	1.3	1	1000001391
Press chain standard, M	54 for ZBS1	1.5	1	1000001392
Press chain standard, SV	42 for ZBS1	1.3	1	1000001393
Press chain standard, SV	54 for ZBS1	1.5	1	1000001394
Press chains overview starting on 113				

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 ZBS1 (No. 1000001126) for SV, M, Ø 42-54 mm or ZBS2 (No. 1000000123) for U Ø 63, 75, 90, 110 mm
Α			Metal / NE-Met		
	A1/2"	_	_	015222X	
	A3/4"	_	_	015223X	
	A1" A11/4"	-	_	015224X 015225X	
	A11/4 A11/2"	_	_	015225X 015226X	
	A2"	_	_	015227X	
M	M12	015151X	_	015101X	
	M15	015152X	_	015102X	
	M18	015153X	_	015103X	
	M22	015154X	_	015104X	
2010021	M28	015155X	_	015105X	
7 1 La	M35	1000002267	_	015106X	
	M42	_	_	1000001273	1000001391
V/CV	M54	— 01F261V	_	1000001274	1000001392
V/SV	V/SV12 V/SV14	015261X 015269X	_	015211X 015219X	
	V/SV14 V/SV15	015269X 015262X	_	015213X 015212X	
	V/SV16	015260X	_	015220X	
	V/SV18	015263X	_	015213X	
	V/SV22	015264X	_	015214X	
	V/SV28	015265X	_	015215X	
	V/SV35	1000002266	_	015216X	
	V/SV42	_	_	015217X	1000001393
	V/SV54	_	_	015218X	1000001394
R(H)	240		PEX / Multi-lay		
	R12	-	14863	015339X	
	R14 R16	015370X 015371X	14864 14865	015330X 015331X	
	R17	015371X 015378X	14866	015331X 015333X	
	R18	015376X 015379X	14867	015334X	
	R20	015374X	14868	015335X	
	R25	015380X	14707	015338X	
	R26	015376X	14708	015336X	
	R32	015377X	14709	015337X	
RFz	RFz12	_	14822	1000000173	
	RFz16	015180X	14823	015161X	
	RFz18 RFz20	01E101V	1000000124 14824	01E162V	
	RFz25	015181X 015182X	14825	015162X 015163X	
	RFz26	013102X	100000125	0131037	
	RFz32	015183X	14826	015164X	
TH	TH14	015395X	14842	015321X	
	TH16	015385X	14843	015322X	
	TH18	015398X	14844	015323X	
	TH20	015389X	14845	015324X	
_ <u>=</u>	TH25	015399X	14846	015325X	
电	TH26 TH32	015391X	14847	015326X 015327X	
	TH40	015393X 015401X	14848	015327X 015328X	
	TH50	- 013401X	_	1000001810	
	TH63	_	_	1000001811	
THG	THG32	1000000236	_	1000000235	
THT	THT32	015393H	_	015329X	
For more information					

For more information visit rothenberger.com

Overview press jaws / Pressnavigator app

System	Nominal size	Press jaws compact	Interchangeable insert	Press jaws standard	Press chains standard
		,	Compact Use only in combination with interchangeable jaws (No. 1000002134)	,	Only to be used with intermediate jaw ZB51 (No. 1000001126) for SV, M, TH Ø 40, 42, 50, 63 mm or ZB52 (No. 1000000123) for U Ø 63, 75, 90, 110 mm
U			PEX / Multi-lay		
	U14	015351X	14832	015311X	
	U16	015352X	14833	015312X	
	U18	015353X	14834	015313X	
	U20	015354X	14835	015314X	
 	U25	015355X	14836	015315X	
	U32	015357X	14838	015317X	
	U40	015358X	_	015318X	
	U50	_	_	_	
	U63	_	_	_	1000002947*
	U75	_	_	_	1000002949*
	U90	_	_	<u> </u>	1000002950*
	U110	_	_	_	1000002952*
RC	RC26	015277X	14837	015271X	
VP	VP14	015530X	14882	015230X	
	VP16	015531X	14883	015231X	
	VP20	015532X	14884	015232X	
	VP25	015533X	14885	015233X	
	VP32	015534X	14886	015234X	
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	
_5 3	G26	015366X	_	015306X	
	G32	015367X	_	015307X	
	G40	015368X	_	015308X	
HA	HA16	015580X	_	015280X	
	HA20	015581X	_	015281X	
	HA26	015582X	_	015282X	
	HA32	015583X	_	015283X	
	HA40	_	_	015284X	

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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.







App for smartphone & tablet FOR EASY VERIFICATION OF THE COMPATABILITY OF PRESS TOOLS AVAILABLE FOR iOS & Android!



Google Play



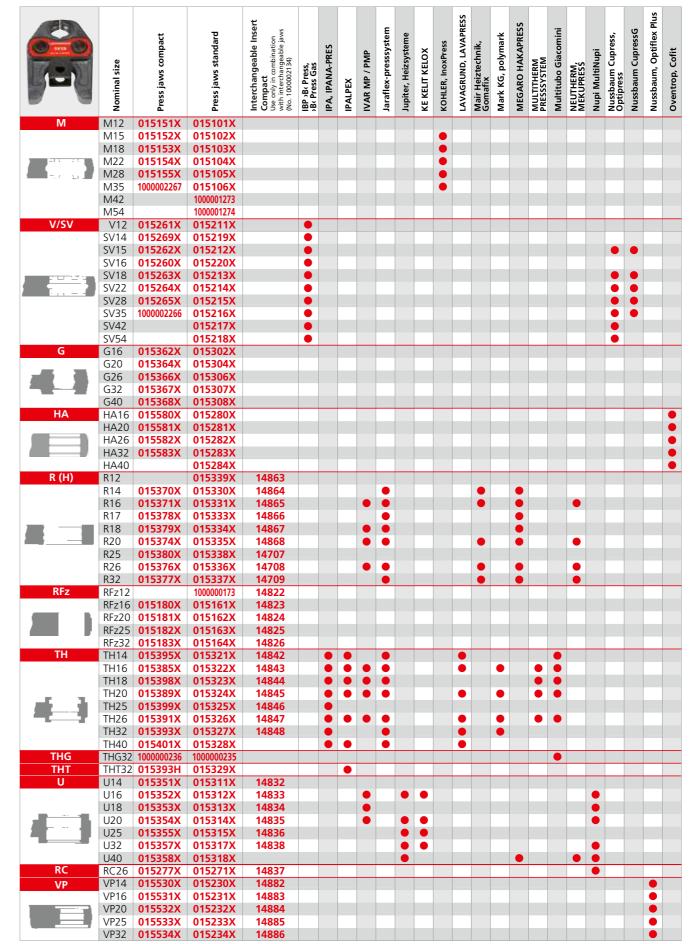
M12 **015151X 015101X** M15 015152X 015102X M18 **015153X 015103X** M22 **015154X 015104X** M28 **015155X 015105X** M35 1000002267 015106X M42 1000001273 M54 1000001274 V12 **015261X 015211X** SV14 015269X 015219X SV15 **015262X 015212X** SV16 **015260X 015220X** SV18 **015263X 015213X** SV22 **015264X 015214X** SV28 **015265X 015215X** SV35 | 1000002266 | 015216X SV42 015217X SV/54 015218X G16 **015362X 015302X** G20 **015364X 015304X** G26 **015366X 015306X** G32 **015367X 015307X** G40 **015368X 015308X** HA16 **015580X 015280X** HA20 **015581X 015281X** HA26 **015582X 015282X** HA32 **015583X 015283X** HA40 015284X R12 015339X 14864 R14 **015370X 015330X** R16 **015371X 015331X** 14865 14866 14867 R18 **015379X 015334X** R20 015374X 015335X 14868 R25 **015380X 015338X** R26 **015376X 015336X** 14708 14709 RFz12 14822 14823 RFz16 **015180X 015161X** RFz20 **015181X 015162X** 14824 RFz25 **015182X 015163X** 14825 RFz32 **015183X 015164X** 14826 TH14 **015395X 015321X** TH16 **015385X 015322X** 14843 TH18 **015398X 015323X** 14844 TH20 015389X 015324X 14845 TH25 **015399X 015325X** 14846 14847 TH26 015391X 015326X TH32 **015393X 015327X** 14848 TH40 015401X 015328X THG32 1000000236 1000000235 THT32 **015393H 015329X** U14 **015351X 015311X** U16 **015352X 015312X** 14833 U18 **015353X 015313X** 14834 U20 015354X 015314X 14835 U25 **015355X 015315X** 14836 015357X 015317X 14838 U40 **015358X 015318X** RC26 **015277X 015271X** 14837 VP14 **015530X 015230X** 14883 VP16 | **015531X** | **015231X** VP20 **015532X 015232X** 14884 VP25 015533X 015233X 14885 VP32 **015534X 015234X**

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Overview system approvals

	l 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	Mepla	Giacomini Giacoflex, Goaco Therm	HAKA, Fimisol, HAKAP- RES, HAKA, GERODUR	Harden 2000, Polypex 2000	VDF	efix	HIDROTEC KLIMATEC	Hitec Sistema, Multis- trato	IBP >Br Press Rotguss, Inox
	Nominal size	Press jav	Press jav	Interchal compact Use only in with interd (No. 100000	Eurotub System	F.B.Q. B	Frabo Fi Steel, 3	Frabo M	FRÄNKIS	Gabo, G	GAROS	Geberit	Geberit Stainles	Geberit Carbon	Geberit Mepla	Giacomini Gia Goaco Therm	HAKA, F RES, HA	Harden 2000	Henco PVDF	Herz pipefix	HIDROT	Hitec Sistrato	IBP >B. P
M	M12 M15	015151X 015152X	015101X 015102X		•							•	•	•									
	M18	015153X	015103X									•	•	•									
	M22 M28	015154X 015155X	015104X 015105X									•		•									
	M35	1000002267	015105X									•	•	•									
	M42		1000001273										•	•									
V/SV	M54 V12	015261X	1000001274 015211X				•						•	•									
V/3V	SV14	015269X	015211X			•	•																
	SV15	015262X	015212X			•	•																•
	SV16 SV18	015260X 015263X	015220X 015213X																				
	SV22	015264X	015214X			•	•																•
	SV28	015265X	015215X			•	•																•
	SV35 SV42	1000002266	015216X 015217X				•																
	SV54		015218X			•	•																•
G	G16	015362X	015302X												•								
-5 3	G20 G26	015364X 015366X	015304X 015306X												•								
	G32	015367X	015307X												•								
110	G40	015368X	015308X												•								
НА	HA16 HA20	015580X 015581X	015280X 015281X																				
	HA26	015582X	015282X																				
	HA32	015583X	015283X																				
R (H)	HA40 R12		015284X 015339X	14863																			
	R14	015370X	015330X	14864													•						
	R16 R17	015371X 015378X	015331X 015333X	14865 14866													•						
_	R18	015376X	015333X	14867																			
	R20	015374X	015335X	14868					•								•						
	R25 R26	015380X 015376X	015338X 015336X	14707 14708													•						
	R32	015370X	015337X	14709													•						
RFz	RFz12	0454000	1000000173	14822																			
		015180X 015181X	015161X 015162X	14823 14824																			
		015182X	015163X	14825																			
TIL		015183X	015164X	14826																			
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843					•		•												
	TH18	015398X	015323X	14844						•						•		•	•			•	
_E 1	TH20 TH25	015389X 015399X	015324X 015325X	14845 14846				•	•	•	•					•		•	•	•		•	
-	TH25	015399X 015391X	015325X 015326X	14847				•	•	•	•					•		•	•			•	
	TH32	015393X	015327X	14848					•		•											•	
THG	TH40	015401X 1000000236	015328X 1000000235							•						•				•			
THT		015393H	015329X															•					
U	U14	015351X	015311X	14832																			
	U16 U18	015352X 015353X	015312X 015313X	14833 14834																	•		
	U20	015354X	015314X	14835				•	•												•		
7	U25	015355X	015315X	14836																	•		
	U32 U40	015357X 015358X	015317X 015318X	14838					•								•						
RC	RC26	015277X	015271X	14837				•															
VP	VP14	015530X	015230X	14882																			
	VP16 VP20	015531X 015532X	015231X 015232X	14883 14884																			
	VP25	015533X	015233X	14885					•														
	VP32	015534X	015234X	14886																			

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Overview system approvals

	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 1000002134)	PIPELIFE RADOPRESS	POLYSAN Press-System	Prandelli, MULTYRAMA	Raccorderie Metalliche Inoxpress, Steelpress	Raccorderie Metalliche, Aespres	Raccorderie Metalliche Inoxpress Gas	RIQUIERA A SERTIR	ROTH SISTEMA ROTHAPRESS	Roth-Roth Rohr- installationssysteme	Sanha 3fit-PRESS SYSTEM 14 mm - 63 mm	SANHA NiroSan Serie 9000, 17000 Gas, 18000, 19000	SANHA Press Serie 10000, 11000 Gas,12000, 13000	SANHA PURAPRESS Serie 8000	SANHA-NiroSan-Press- system Chronimo	Simplex SiRoCon Cu / E	Simplex SiRoCon PPSU H	Simplex SiRoCon PPSU TH	SST-Rolltec Delphi-Press, STS Systemtechnik	THERMOVAL, THERMOSMART	Tiemme, Cobrapress
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	015269X	015219X												•	•	•							
	SV15 SV16	015262X 015260X	015212X 015220X																					
	SV18	015263X	015213X												•	•	•	•						
1E	SV22 SV28	015264X 015265X	015214X 015215X												•		•							
	SV35	1000002266	015216X												•	•	•	•						
	SV42		015217X														•							
G	SV54 G16	015362X	015218X 015302X																					
	G20	015364X	015304X																					
488	G26 G32	015366X 015367X	015306X 015307X																					
	G40	015368X	015307X																					
HA	HA16	015580X	015280X																					
	HA20 HA26	015581X 015582X	015281X 015282X																					
	HA32	015583X	015283X																					
R (H)	HA40 R12		015284X 015339X	14863																				
II (II)	R14	015370X	015339X	14864			•						•											
	R16 R17	015371X	015331X 015333X	14865 14866			•													•				
_	R18	015378X 015379X	015333X 015334X	14867																				
	R20	015374X	015335X	14868			•						•							•				
	R25 R26	015380X 015376X	015338X 015336X	14707 14708																				
	R32	015377X	015337X	14709			•						•							•				
RFz	RFz12	015180X	1000000173	14822 14823							•													
		015180X	015161X 015162X	14824							•													
	RFz25	015182X	015163X	14825							•													
TH	RFz32 TH14	015183X 015395X	015164X 015321X	14826 14842		•																•	•	•
	TH16	015385X	015322X	14843	•	•						•		•							•	•	•	•
	TH18 TH20	015398X 015389X	015323X 015324X	14844 14845	•	•						•		•							•			
4 3	TH25	015399X	015325X	14846								•												
7 7	TH26	015391X	015326X	14847	•	•								•							•	•	•	•
	TH32 TH40	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																				
<u>#</u> #	U20 U25	015354X 015355X	015314X 015315X	14835 14836																				
	U32	015357X	015317X	14838																				
RC	U40 RC26	015358X 015277X	015318X 015271X	14837			•																	
VP	VP14	015277X	015271X 015230X	14882																				
	VP16	015531X	015231X	14883																				
	VP20 VP25	015532X 015533X	015232X 015233X	14884 14885																				
	VP32	015534X	015234X	14886																				

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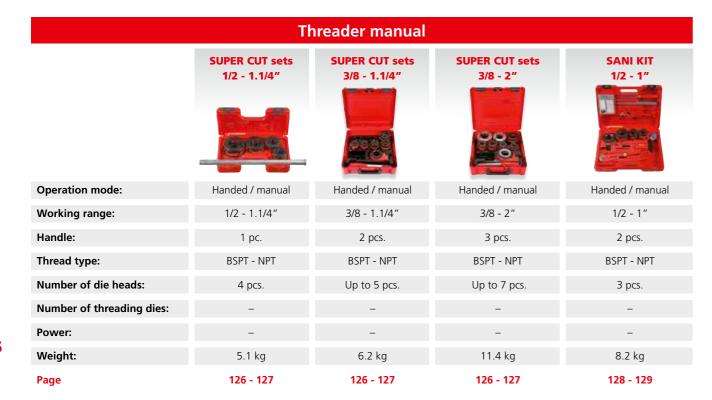
	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 1000002134)	TIEMME, SERIE PA / PG	Tradesa Serie 700	Ulrich VARIOFLEX HAKA-PRESS,	UPONOR UNIPIPE, UNICORE, Airpipe	Valsir PEXAL	Vescal, Metalplast	VIEGA PROFIPRESS 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		•										•									
272 27	M22	015154X	015103X		•										•									
=1 f ≥1 d	M28	015155X	015105X												•									
	M35 M42	1000002267	015106X 1000001273		•										•									
	M54		1000001274												•									
V/SV	V12 SV14	015261X 015269X	015211X 015219X									•				•								
	SV15	015262X	015213X								•	•				•								
	SV16	015260X	015220X								•	•												
	SV18 SV22	015263X 015264X	015213X 015214X																					
	SV28	015265X	015215X								•	•				•								
	SV35 SV42	1000002266	015216X 015217X								•	•												
	SV54		015217X								•	•												
G	G16	015362X	015302X																					
-5 3	G20 G26	015364X 015366X	015304X 015306X																					
	G32	015367X	015307X																					
НА	G40 HA16	015368X 015580X	015308X 015280X												•									
IIA	HA20	015581X	015281X												•			•						
	HA26	015582X	015282X												•	•		•						
	HA32 HA40	015583X	015283X 015284X																					
R (H)	R12		015339X	14863																				
	R14 R16	015370X 015371X	015330X 015331X	14864 14865					•															
	R17	015378X	015333X	14866			•																	
	R18 R20	015379X 015374X	015334X 015335X	14867 14868			•		•															
	R25	015374X	015333X	14707																				
	R26	015376X	015336X	14708			•		•													•		
RFz	R32 RFz12	015377X	015337X 1000000173	14709 14822			•																	
	RFz16	015180X	015161X	14823																				
		015181X 015182X	015162X 015163X	14824 14825																				
		015183X	015164X	14826																				
TH	TH14			14842										•										•
	TH16 TH18	015385X 015398X	015322X 015323X	14843 14844		•											•							
_F %	TH20	015389X	015324X	14845		•								•			•	•	•				•	•
4	TH25 TH26	015399X 015391X	015325X 015326X	14846 14847										•			•		•				•	•
	TH32	015393X	015327X	14848		•								•					•				•	•
THG	TH40	015401X 1000000236	015328X 1000000235											•			•						•	•
THT		015393H	015329X														•							
U	U14	015351X		14832																				
	U16 U18	015352X 015353X	015312X 015313X	14833 14834						•										•	•			
A	U20	015354X	015314X	14835				•												•	•			
7	U25 U32	015355X 015357X	015315X 015317X	14836 14838						•										•	•			
	U40	015357X							•	•														
RC	RC26 VP14	015277X 015530X		14837 14882																				
VP	VP14 VP16	015530X 015531X	015230X 015231X	14882									•											
	VP20	015532X	015232X	14884									•											
-	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886									•											
	JL	3.000 1.00	J.525 IA	500																				

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6

System overview



Threader electric									
	SUPERTRONIC 1250	SUPERTRONIC 2000							
	63								

Operation mode:	Handed / electric	Handed / electric
Working range:	1/2 - 1.1/4"	1/2 - 2"
Thread type:	BSPT - NPT	BSPT - NPT
Number of die heads:	4 pcs.	6 pcs.
Number of threading dies:	-	-
Power:	800 W	1,010 W
Weight:	12.8 kg	14.5 kg
Page	130 - 131	132 - 133

	Threader stationary										
	ROPOWER 50 R	SUPERTRONIC 2 SE	SUPERTRONIC 3 SE	SUPERTRONIC 4 SE							
Operation mode:	Stationary	Stationary	Stationary	Stationary							
Working range:	1/2 - 2"	1/2 - 2"	1/2 - 3"	1/2 - 4"							
Thread type:	BSPT, NPT, BSPP, BSW, metric	BSPT, NPT, BSPP, BSW, BSW, metric	BSPT, NPT, BSPP, BSW, metric	BSPT, NPT, BSPP, BSW, metric							
Number of die heads:	1 pc.	1 pc.	2 pcs.	2 pcs.							
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	136 - 137	138 - 139	138 - 139	138 - 139							

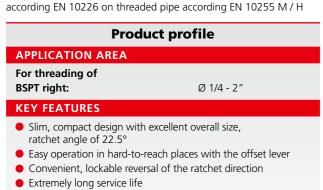
Roll grooving machines									
	Hand roll groover 1-12"	ROGROOVER 1-6"	ROGROOVER 1-12"						
Operation mode:	Handed-manual / handed-electric	Handed-electric / stationary	Stationary						
Working range:	1 - 12"	1 - 6"	1 - 12"						
Drive unit:	SUPERTRONIC 1250 / 2000	SUPERTRONIC 2000 / 2 - 4SE	Motor						
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	142	142	143						

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

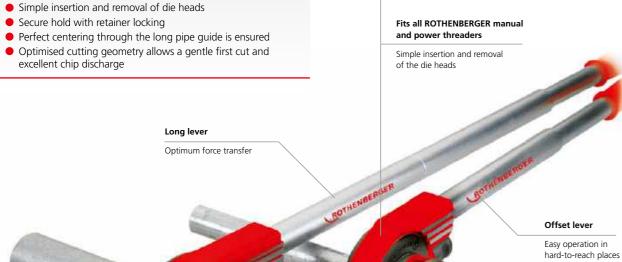


Power optimisation with the offset hand lever!

Quick change die heads

Secure hold

Positive octagonal universal drive with retainer locking



Convenient, lockable

reversal of the ratchet

Made of high quality tempered steel Extremely long service life

> With ratchet handle 1/4" - 2" the attachment of the 1/4" - 1.1/4" die head results with the use of the adaptor (No. 600011500)





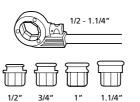
SUPER CUT when working at the





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)



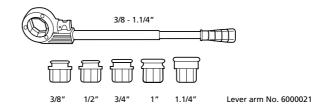
Lever arm No. 6240021

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)

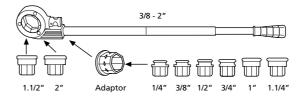


Model	Description	$\Delta_{kg}\Delta$	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	070790X



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



ACCESSORIES

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	141











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

Threading manual

Threading & grooving

Threading manual

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



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





	~~
Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	141









Threading electric

SUPERTRONIC 1250

Power threader Ø 1/4 - 1.1/4"

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

Product profile

APPLICATION AREA

For threading of

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









TECHNICAL DATA

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



Ideal for portable operation due to its compact design and weight of only 4.9 kg



Small head shape (11 cm)



KEY FEATURES

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

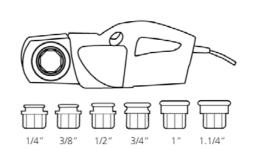
Dimensions: 456 x 168 x 76 mm



SUPERTRONIC 1250 set

carrying case (No. 995858100)

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



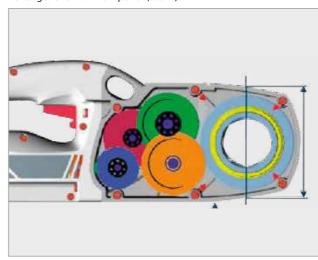


Small – Fast – Light

Fig. SUPERTRONIC 1250 set (No. 71450)

Model	Description	$\Delta_{kg}\Delta$		230 V	110 V
SUPERTRONIC 1250 set, BSPT	1/2 - 3/4 - 1 - 1.1/4"	14.5	1	71450	71451
SUPERTRONIC 1250 set, NPT	1/2 - 3/4 - 1 - 1.1/4"	13.0	1	71454	71453
SUPERTRONIC 1250	with forged pipe clamp, without die heads	3.9	1	71470	
Pipe clamp for SUPERTRONIC 1250	Up to max. 1.1/4"	1.6	1	865008700	865008700

Helical gears for maximum power (800 W)



Portable, fast and easy steel pipe processing



ACCESSORIES

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	141









running and long service life

Pipe roughing

Ideal for confined spaces (corners and shafts)

6

Threading electric

SUPERTRONIC 2000

Power threader Ø 1/4 - 2"

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

Product profile

APPLICATION AREA

For threading of

BSPT right: Ø 1/4 - 2" Ø 1/4 - 2"

High reduction gears with spur wheel teeth, induction tempered, 7 parallel gear shafts, each ball bearing mounted High, consistent power transmission when fully loaded

Performance:

Strong 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

Hardened, interlocking prism pipe clamp Secure grip in both turning Large mechanism for switching directions directions User-friendly work Strong 1,010 W motor, double insulated with VDE and CEE, interference free Universal motor for reliable, professional long-term use 1,010 W universal motor Low energy consumption Compact gear housing Ideal for confined spaces Off-set die head Direct seating with tension ring locking mounting Performance: 1,010 W! Die heads are held firmly Threading possible

Easy insertion of the die heads

in place



Use with roll grooving tool



ROFIX adaptor (No. 71271)



High reduction gears

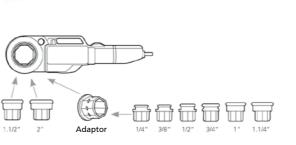


SUPERTRONIC 2000 set

Set includes: SUPERTRONIC 2000 with pipe clamp (No. 71280), ROFIX adaptor (No. 71271), and precision die heads, ROCASE 6414 (No. 1300003336) with inlay

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







Model	Description	$\Delta_{kg}\Delta$		230 V	110 V
SUPERTRONIC 2000 set, BSPT R	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	14.5	1	71256	71258
SUPERTRONIC 2000 set, NPT	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	14.5	1	71257	71259
SUPERTRONIC 2000	with forged pipe clamp, without die heads	6.8	1	71250	71251
SUPERTRONIC 2000 set	in ROCASE with ROFIX and forged pipe clamp	11.2	1 10	00002011	1000002016

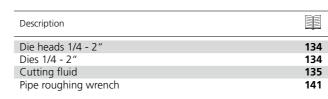
Work in confined spaces



Die heads with the tripod universal workbench



ACCESSORIES













even close to walls

With enlarged shaving discharge chambers

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

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

Reduced production tolerances to increase

the service life by up to 10%

Fully automatic production process

Extra wide and exchangeable threading dies

Highest demands and long

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.
1/4"	070907X
3/8"	070908X
1/2"	070912X
3/4"	070913X
1"	070914X
1.1/4"	070915X
1.1/2"	070849X
2"	070850X

Threading dies

Precision threading dies

- Gentle first cut, extremely long life, 4 pieces / pack
- Optimum results are achieved with original ROTHENBERGER thread cutting fluid



BSPT R	No.
1///	070024
1/4" 3/8"	070831X 070832X
1/2"	070833X
3/4"	070834X
1"	070835X 070836X
1.1/4	070869X
2"	070870X

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

ROFIX adaptor

Fits small external octagonal die heads from Ø 1/4 - 1.1/4"

• Easy insertion of the die head with tension ring locking



Model	$\sqrt[4]{\log \Delta}$	No.
ROFIX adaptor with tension ring locking	0.8	71271

RONOL

High-performance cutting oil

Product profile

KEY FEATURES Excellent cooling and lubricating properties

unhealthy polychlorinated biphenyl (PCB)

- 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

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

Model	Contents	$\Delta_{kg}\Delta$		No.
RONOL spray can	600 ml	0.58	12	65008
RONOL canister	5 l	4.60	4	65010





RONOL SYN

High-performance cutting fluid

Product profile

KEY FEATURES

- Excellent cooling and lubricating properties
- Able to handle high pressure
- Longer life for the cutting tool Safe for skin contact
- Also suitable as cold lubrication when cutting metal

TECHNICAL DATA

No mineral-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	$\Delta_{ka}\Delta$		No.
RONOL SYN spray can	600 ml	0.75	12	65013
RONOL SYN canister	5	5.20	4	65015







Optimal lubrication and

cooling of the die heads

Long life of the die heads

Fig. collapsible stand (No. 56051)

included in delivery!

Threading electric

Threading & grooving

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" Ø 3/8 - 2" BSW, B. S 84: 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!

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



Internal deburrer, snap in, 3-blade

Burr-free work

Impact hammer chuck with maximal clamping-force

No pipe slippage

Self-centering rear chuck

Quick and precise alignment of the pipe

Easy to maintain machine design

Motor double insulated in accordance with VDE

Safe operation

Stable high torque motor

Constant power transferral

Off-set spindle lubrication

Easy maintenance

Machine slightly angled

Reduced oil consumption, oil coating in pipe interior is avoided



Geared oil pump with filter system and adjustable fluid qualities

Large plastic shavings collection trough

Constant oil flow quantities

Easy to clean

1) Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries ²⁾ RIDGID is a registered trade mark of the Emerson Electric Co., St. Louis, USA

SS dies BSPT 1/2" - 3/4" (No. 056370X), 1" - 2"(No. 056371X), Die head type R safety foot switch (No. 56335), collapsible stand (No. 56051), tool Automatic die head with integrated oil feed Long life of the die heads

Transportation frame

ROPOWER 50 R

(Included in delivery)

Carriage with storage space and a mount for the foot switch

Clearly arranged work

Collapsible undercarriage

Set includes: ROPOWER 50 R, automatic die head 1/2" - 2"(No. 56052),

Comfortable transport

With 2 plastic wheels

High mobility

Safety foot switch (No. 56335)

Increased safety







Thread roughing



Cost-effective production



Model	Volt		$\Delta_{kg}\Delta$	No.
ROPOWER 50 R with automatic die head:				
BSPT R 1/2 - 3/4", 1-2"	230 V	1	88.5	56050
BSPT R 1/2 - 3/4", 1-2"	110 V	1	88.5	56045
BSPP R 1/2 - 3/4", 1-2"	230 V	1	88.5	56057
NPT 1/2" - 3/4", 1-2"	230 V	1	88.5	56015
Collapsible stand ROPOWER 50 R		1	19.2	56051
Spare cutting wheel (PANDA 40, PANDA 90, PISET 3 SG, Nr. 6 SC 2 S, 2 SE, 3 S, 3 SE, 4 S, 4 SE)		1	0.02	70074
Supporting bolt for transport frame (4 pcs.)			0.7	56049
Supporting legs (4 pcs.)			5.0	56488

Description		No.
Cutting fluid	135	
Automatic die heads	140	
Threading dies	140	
NIPPEL MAX	141	
Pipe roughing wrench	141	56500
ROGROOVER 1-6"	142	56505











Threading & grooving

110 V

230 V

230 V

Threading electric

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)

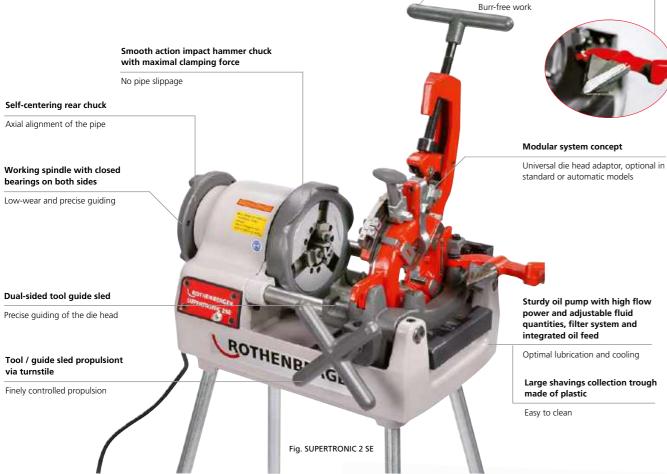
KEY FEATURES

- 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

230 V 110 V SERVICE*



Impact hammer chuck with inter-changeable clamping jaw, optimal clamping properties through flexible adjustment



Automatic die heads with quick adjustment of thread size, automatic thread length and finely adjustable



\ ROTHENBERGER



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

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)

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 	шча	- JA	I A

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



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"

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

TECHNICAL DATA	TEC	шып	$\sim \Lambda I$		A T A
	TEC	ниг	CAI	- 7/	AIA

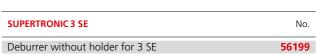
1,700 W Power: 33 rpm Speed: Weight, with die heads: 100 kg

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 2 - 3" (No. 56006), SS threading dies 2 1/2 - 3" (No. 56489), safety foot switch (No. 56335), supporting legs (No. 56491), tool

SUPERTRONIC3 SE	$\Delta_{kg}\Delta$	230 V	110 V
with standard die head BSPT R 1/2 - 3/4", 1 - 2", 2 - 3"	100	56250	56253
with automatic die head BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 3	100	56255	56254





SUPERTRONIC 4 SE

Compact threader Ø 1/2 - 4"

SUPERTRONIC 4 SE with automatic die head

TECHNICAL DATA

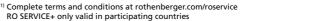
Power: 1,750 W 22 / 50 rpm Speed: Weight, with die heads: 120 kg Dimensions (L x W x H): 750 x 540 x 480 mm

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),

$\Delta_{kg}\Delta$	230 V	110 V
120	56465	56475
	56466	
	56200	
25	57050	
	0	120 56465 56466 56200







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 quick-adjustment
- Automatic adjustable thread length for serial production
- Flexible work: Each thread size offers individual fine adjustment of the thread depth without recentering dimension change

Please note: The die heads do not include threading dies!

Precision threading dies

High material quality and precise workmanship guarantee easy cutting, clean threads and extremely long service life with outstanding chip discharge. Manufactured from high-quality tempered steel (only available in sets 4 or 5 pieces / pack)



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

Overview die heads / threading dies

4	- 1	•		M	1	R	2 SE	3 SE	4 SE
ı	Die heads		Т	hreading dies	5	20	١ĕ	١ĕ	ĭ
Thread type	Size	No.	Size	No. SS-steel	No. HSS-steel stainl. steel/ Inox pipe	ROPOWER	SUPERTRONIC	SUPERTRONIC	SUPERTRONIC
Automatic	die heads	suitable 1	for RIDGID ¹⁾ th	reading die	es .	2	S	S	S
BSPT R	1/2 - 2"	56052	1/4 - 3/8" 1/2 - 3/4" 1 - 2"	56369 056370X 056371X	56379 56380 N/A	•			
NPT	1/2 - 2"	56053	1/4 - 3/8" 1/2 - 3/4"	56372 56373	N/A N/A	•			
			1 - 2"	56374	N/A	•			
		56054	1/2 - 3/4"	56058	N/A	_	_	_	_

BSPT R 1/2 - 2" 56266 1/2 - 3/4" 56003 56235

			1- 2"	56007	56236	•	•	•
	2.1/2 - 3"	56288	2.1/2 - 3"	56291	56237			•
	2.1/2 - 4"	56289	2.1/2 - 4"	56294	56238			
NPT	1/2 - 2"	56271	1/2 - 3/4"	56111	56180		•	•
			1 - 2"	56112	56181		•	•
	2.1/2 - 3"	56268	2.1/2 - 3"	56295	56183			•
	2.1/2 - 4"	56269	2.1/2 - 4"	56296				
			3.1/2 - 4"	l l	56184			

ROTHENBERGER standard/manual die heads

BSPT R	1/4 - 3/8"	56153	1/4 - 3/8"	56001	56135	•	•	•	•
	1/2 - 2"	56156	1/2 - 3/4"	56003	56235	•	•	•	•
			1 - 2"	56007	56236	•	•	•	•
	2 - 3"	56104	2 - 3"	56006	56121			•	•
	3.1/2 - 4"	56032	3.1/2 - 4"	56008	56122				•
NPT	1/4 - 3/8"	56118	1/4 - 3/8"	56110	N/A	•	•	•	•
	1/2 - 2"	56156	1/2 - 3/4"	56111	56180	•	•	•	•
			1 - 2"	56112	56181	•	•	•	•
	2.1/2 - 3"	56104	2.1/2 - 3"	56114	N/A			•	•
BSPP	1/2 - 1.1/4"	56076	1/2 - 3/4"	56095	N/A	•	•	•	•
			1 - 1.1/4"	56096	N/A	•	•	•	•
	1.1/2 - 3"	56077	1.1/2 - 2"	56097	N/A			•	•
			2.1/2 - 3"	56098	N/A			•	•

BSW	3/8 - 1"	56153	3/8"	56009	56161	•	•	•	•
			1/2"	56010	56162	•	•	•	•
			5/8"	56011	56163	•	•		•
			3/4"	56012	56164	•	•	•	•
			7/8"	56013	56165	•	•	•	•
			1"	56014	56166	•	•	•	•
	1.1/8 - 2"	56310	1.1/8 - 1.1/4"	56185	N/A	•	•	•	•
			1.1/2"	56186	N/A	•	•	•	•
			1.5/8 - 1.3/4"	56187	N/A	•	•	•	•
			1.7/8 - 2"	56188	N/A	•	•	•	•

			1.770 2	30.00)	_	•	
									_
Metric	10 - 24	56133	10	56081	56351	•	•	•	•
			12	56082	56352	•	•	•	•
			14 - 16	56083	56353	•	•	•	•
			18 - 22	56085	56355	•	•	•	•
			24	56088	56358	•	•	•	•
	27 - 36	56315	27	56189	N/A	•	•	•	•
			30 - 33	56190	N/A	•	•	•	•
			36	56191	N/A	•	•	•	•

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

English bolt threads - BSW

Whitworth pipe threads: british standard parallel screw Exterior pipe threads: form B.S.W, B.S 84, 55° flank angle

Metric bolt threads - M

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

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	$\sqrt{\log \Delta}$	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



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

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



Threading & grooving

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"

- 1/2" ratchet for both adjustment

- Quick connection of pipes anywhere where welding is not allowed!
- Easy transportation due to small dimension
- Adjustable and finely-controlled arrester

Application on tripod workbench



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



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

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
- Easy to transport with the lightweight aluminium casing
- Adjustable and finely-controlled arrester for consistent groove depth
- Convenient, easy and time-saving operation

Model	$\sqrt{\log \delta}$		No.
ROGROOVER for SUPERTRONIC 2000	14.5	1	56509
ROGROOVER for ROPOWER 50 R, SC 2 SE, REX 2"	14.5	1	56505
ROGROOVER for SUPERTRONIC 3 SE and REX 3"	14.5	1	56506
ROGROOVER for SUPERTRONIC 4 SE	14.5	1	56507
ROGROOVER for RIDGID ¹⁾ 300	16.0	1	56504
ROGROOVER for REX 4"	14.5	1	56508

Extremely light: 12 kg!



Model	No.
Support rail 2"	56510
Support rail 3"	56511
Support rail 4"	56512
Seating adaptor SUPERTRONIC	56514
Pressure roller set 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

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

Control panel

emergency stop switch

- 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

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

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

685 x 474 x 960 mm **Dimensions:** Voltage: 110 V-50 Hz, 230 V-50 Hz / 60 Hz

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

Fine adjustment of groover depth

and regulation



Adjustable pipe support stand Ball bearing suspensions for easy handling

Function only via foot switch Safety for the user

3-way adjustment of the pressure



Drive shaft and



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

Set includes: ROGROOVER machine 1 -12", pipe support stand, drive shaft, 1 - 1.1/2", 2 - 6" and 8 - 12" (No. 1000002262-2264), diameter messuring tape

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

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



oldering devices		
	System	overview



Cylinder	E-soft soldering		
	AIRPROP	TURBOPROP	ROTHERM 2000
		· Section 1	

Page	156	157	162 - 163
For use with:	Propane, butane	Propane, butane	230 V
Special- application:	-	-	Soft soldering without flame
Brazing:	up to Ø 22 mm	up to Ø 28 mm	-
Soft soldering:	up to Ø 54 mm	up to Ø 54 mm	up to Ø 54 mm

Cartridges & cylinders						
	Acetylene	Oxygen				
Application:	Brazing, welding, cutting	Brazing, welding, cutting				
Valve:	DIN 477-1	M 10x1 (one-way) / G 3/4" RH				
Pressure:	19 bar	110 bar (one-way) / 200 bar				
Content:	5 l, 10 l	950 ml (one-way) / 2 l, 5 l, 10 l				
Page	170	170				



Soft soldering Up to 450 °C



Brazing 450 °C - 1100 °C



> 1100 °C



Cartridge soft sold	iering	Kootin	g & sneet meta	I works
ROFLAME 4 PIEZO	ROFIRE 4 ROFIRE 4 PIEZO	MULTI MOBILE	MULTI 300 propane soft soldering kit	ROOFING set
			No. of the last of	

Soft soldering:	Up to Ø 22 mm	Up to Ø 22 mm	✓	\checkmark	✓
Brazing:	-	Up to Ø 15 mm	-	-	-
Special application:	-	-	Sheet metal working	eet metal working Sheet metal working	
For use with:	Supergas C 200	Multigas 300	Multigas 110	Propane, butane	Propane, butane
Page	152	153	158	159	160

Cartridges						
	MAPP¹) gas	Maxigas 400	Multigas 300	Supergas C 200 TSS	Multigas 110	
Flame temperature:	Up to 2,700 °C	Up to 2,200 °C	Up to 1,900 °C	Up to 1,800 °C	Up to 1,900 °C	
Application:	Soft soldering & brazing	Soft soldering & brazing	Soft soldering	Soft soldering	Soft soldering	
Valve:	7/16" EU	7/16" EU	7/16" EU	Pierceable cartridge	7/16" EU	
Content:	788 ml / 380 g	600 ml / 352 g	600 ml / 338 g	314 ml / 190 g	110 ml / 60 g	
Page	154	155	155	155	155	

Cartridge brazing

Bonding

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

Brazing in gas installation

- "Twist ,N' Load" system (5 different burner available) exchange of the burner with only one movement
- 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

of high-quality aluminium

Exchange of the burners with one movement (5 different burners available)



Elaborately manufactured brass /

stainless steel design

Long service life

been securely locked Dual safety

Reliable (up to 30,000 ignitions)

Locking button

Continual use with only one hand

ROTHENBERGER MAPP¹⁾ gas

Up to 2.5 hours of brazing with one cartridge

High flame temperature based on cyclone swirl





Pin-point burner (460 °C):

(No. 35455) For fine soldering; precise and stable flame

Standard burner (700 °C):

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

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 Ø 300 mm and for heating; powerful, wind-stable soft flame

SUPER FIRE 3 HOT BOX

KEY FEATURES

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





7

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. MAPP1) ga	as A) 1 4 100000 2	2369
SUPER FIRE 3 HOT BOX EU (incl. MAPP1) ga	as B) 1 4 100000 2	2370
SUPER FIRE 3 HOT BOX EU (incl. MAPP1) ga	as C) 1 4 1000002	2371

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	1	4	35436
SUPER FIRE safety adaptor 7/16" to 1"	1	1	035648X







ACCESSORIES











Model		Model	
Welding blanket	173	Fittings solder	175
Internal brushes for copper pipes	173	ROVLIES cleaning pads	173
Solder	177 - 179	ROSOL soldering paste	175

Cartridge brazing

Bonding

SUPER FIRE 4

Ergonomic brazing unit

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

Product profile

APPLICATION AREA

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

protected environment) **Soft soldering:** up to Ø 35 mm

KEY FEATURES

- Rapid 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









Optimized fine regulating valve

Ergonomically

designed handle

Robust, light and

rubberized surface

slipfree through

Precise flame adjustment faster opening and closing



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

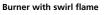
"Twist 'N' Load"

Fast "Twist 'N' Load" system

Exchange of the burner with

one movement (5 different burner available)

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





Only ignites if burner has been securely locked

✓ Safe

✓ Fast

✓ Reliable

High-performance piezo Reliable (up to 30,000 ignitions)

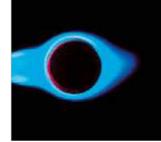
Locking button

Continual use with only one hand

Brazing in refrigeration / air-conditioning technology



High flame temperature based on cyclone swirl



Brazing in refrigeration / air-conditioning technology



Pin-point burner (460 °C):



Standard burner (700 °C):



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 Ø 300 mm and for heating; powerful, wind-stable soft flame

SUPER FIRE 4 HOT BOX

KEY FEATURES

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





5-part set (No. 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. MAPP ¹⁾ gas A)	1	4 10000	02364
SUPER FIRE 4 HOT BOX EU (incl. MAPP1) gas B)	1	4 10000	02366
SUPER FIRE 4 HOT BOX EU (incl. MAPP1) gas C)	1	4 10000	02368
SUPER FIRE 4 HOT BOX US (incl. MAPP1) gas US) 1	4 10000	01630

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	4	1500001355
SUPER FIRE safety adaptor 7/16" to 1"	1	1	035648X



No 035648X



No. 1500001355

ACCESSORIES











Model		Model	
Welding blanket	173	Fittings solder	175
Internal brushes for copper pipes	173	ROVLIES cleaning pads	173
Solder	177 - 179	ROSOL soldering paste	175

ROFIRE GLOBAL

Ergonomic torch for brazing and soft soldering applications

APPLICATION AREA

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

Cartridge brazing/soft soldering

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	$\Delta_g \Delta$	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 up to Ø 42 mm Soft soldering:



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

ROFIRE Swivel PRO twin

Twin cyclone burner

Coupling: 1" US Brazing: Soft soldering:



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



	2 Souper	BRAZI
Model	Δgδ	No
DOCIDE Control DDO toda LIC	400	2504





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

ROFIRE 4

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

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

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	ΔgΔ	No.
ROFIRE 4, without gas	300	1500002921
ROFIRE 4, with Multigas 300	750	1000002359

Cartridge soft soldering



Bonding



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



even upside down (360°)

Protective collar

Longer construction for a stable

positioning on cartridges

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



Soft soldering in drinking water and heating installation



Disposable gas cartridges can be found on pages 154 - 155

Coupling: 7/16" EU Handle: Plastic, rubberized **Burner:** Stainless steel & brass

TECHNICAL DATA



Model	$\Delta_g \Delta$	No.
ROFIRE 4 PIEZO, without gas	300	1500002922
ROFIRE 4 PIEZO with Multigas 300	750	1000002360



Rubberized plastic for light,

ergonomic handling with

perfect grip

Cartridge brazing/soft soldering

MAPP¹⁾ gas

High performance brazing and soldering gas

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

Product profile KEY FEATURES

Cartridge brazing

• 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

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	788 ml	12/360	035521-A
Languages: DE, GB, FR, ES, IT, PT			
MAPP ¹⁾ gas 7/16"EU, B	788 ml	12 / 360	035521-B
Languages: DK, NL, SE, FI, FR, RUS			
MAPP ¹⁾ gas 7/16"EU, C	788 ml	12 / 360	035521-C
Languages: CZ, PL, HU, BG, TR, RO)		
Torches can be found starting on 148			



Patented design for high-pressure gases

Protective collar

Stabilizes the torch and protects against accidental drops







SUPER FIRE 3 HOT BOX

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)	788
Weight (g)	380
Unit per PU ‴	12
PU 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

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

Maxigas 400

High-performance welding, cutting and brazing gas for flame temperatures up to 2,200 °C. Gas cartridge with 7/16" EU coupling thread





Model	Maxigas 400
No.	035570-A/-B
EAN code	4004625355701 (A)
Product size (mm) (W x H)	65 x 260
Content (ml)	600
Weight (g)	352
Unit per PU (24
PU 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)	195
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

Multigas 300

Propane / butane gas mixture for flame temperatures up to 1,900 °C. Gas cartridge with 7/16" EU coupling thread







Multigas 300
035510-A/-B
4004625355107 (A)
65 x 260
600
338
24
9
3
648
60
38,880
191
800 x 1,200 x 1,000
405 x 272 x 264

Multigas 110

Gas cartridges for flame temperatures up to 2,100 °C, suitable for MULTI MOBILE soft soldering unit. The special construction allows 360°-overhead operation with 7/16" EU coupling thread



Product size (mm) (W x H)

Number of pallets per truckload

Pallet size (mm) (L x W x H)

Carton size (mm) (L x W x H)

Model

EAN code

Content (ml)

Unit per PU

Layer per pallet

Units per pallet

PU per layer / pallet

Units per truckload

Pallet weight (kg)

Weight (g)



Multigas 110

1500000459

4004625378977

45 x 150

110

60

12

30

1800

60

108,000

198

800 x 1,200 x 1,000

185 x 140 x 160

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.



Carton size (mm) (L x W x H)



360 x 275 x 280

C 200 TSS
035901-A/-B
4004625390627 (A)
90 x 95
330
190
36
9
3
972
60
58,320
350
800 x 1,200 x 1,180

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

Cylinder brazing











Shut-off valve

gas escape

Prevents uncontrolled

TECHNICAL DATA

Self-induced air: Torch: Hose coupling:

Turbine and combustion chamber Surface treated, chromed brass

Optimised valve technology

Absolutely gas tight

G 3/8" LH

Built-in gas turbine in brazing burner Smooth-turning economy valve Bundled, concentrated and hot flame Gas-saving operation Absolutely gas-tight connection thanks to dual O-ring technology

Fast burner exchange without tools

Fig. similar



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)

No. 31092

Model	$\sqrt[]{\log \lambda}$	No.
AIRPROP brazing set without propane regulator AIRPROP brazing set with propane regulator	2.8 3.1	31092 31091
(No. 32081) (W 21.8 LH – G 3/8 LH) Flame cleaning torch 20/50 mm	0.2	30922

M14 x 1

AIRPROP brazing burner with threaded coupling

Ø mm	<u>L</u> mm	g/h 2 bar	kWh – kcal – BTU	$\delta_g \delta$	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	<u>L</u> mm	g/h 2 bar	$kWh - kcal - BTU$ $\sqrt[4]{g}$ 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

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

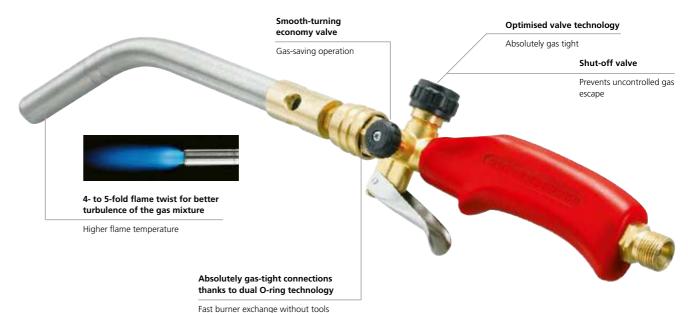
- High flame temperature due to turbine with increased oxygen self-induced air and 4- to 5-fold flame chamber
- Fast burner exchange without tools
- Gas-saving operation with the smooth-running economy valve
- Shut-off valve prevents uncontrolled gas escape

TECHNICAL DATA

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

Fine 360°

G 3/8" LH Hose coupling:





Sets include: safety handle with push-in coupling (No. 211121116), brazing burner with push-in nipple Ø 12 mm (No. 31032) / Ø 15 mm (No. 221031500) / Ø 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	$\sqrt[]{kg} \sqrt[]{}$	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 set with propane regulator	3.1	31037
(No. 32083) (POL 7/8 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	\sqrt{g}	No.
10 mm	165	70	1.89 - 770 - 3,050	70	31031
12 mm	175	110	1.41 – 1,210 – 4,815	90	31032
15 mm	195	180	2.30 - 1,980 - 7,855	110	221031500
18 mm	230	240	3.07 - 2,640 - 10,485	160	221031800

Cartridge soft soldering

MULTI MOBILE set

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

Product profile

KEY FEATURES

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

Professional soft soldering with maximum mobility and safety!

TECHNICAL DATA

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



Integrated support rack

Safe placement of the soldering device

Professional soft soldering with high mobility and safety



Set (No. 1000000390) includes: MULTI MOBILE soft soldering cartridge tool incl. hammer shaped copper piece 250g (No. 1300000784), 2 Multigas 110 gas cartridge (No. 1500000459), 2 nozzles (No. 1500000461), steel case (No. 1500000460)

Model	ΔgΔ	No.
Copper piece, hammer shape	250	1000000514
Copper piece, pointed shape	245	1000000512

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

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

Product profile

KEY FEATURES

- For all types of fine soldering in the areas of electronics and telecommunications
- For working with lead (gutters, laminations, roof edging, ventilation shafts etc.)
- Propane handle with heat insulated wooden grip
- Rotatable air / rotary valve
- for the adjustment of an especially fine flame
- Rotatable hose coupling M10 x 1 LH

TECHNICAL DATA

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



No. 35488

Model	$\sqrt{\log \Delta}$	No.
MULTI 300 set A without propane regulator	4.1	35486
MULTI 300 set A with propane regulator	4.3	35489
(No. 242206000)		
MULTI 300 set B	9	35488

Cylinder soft soldering











3-part set (No. 35486) includes: soft soldering iron copper head with 350 g flat (No. 520849), 2 m propane hose (No. 30927), small propane cylinder 0.425 kg with hook (No. 33079)

13-part set (No. 35488) includes: soft soldering iron with copper head 350 g flat (No. 520849), soft soldering torch Ø 17 mm (No. 520856) / Ø 20 mm (No. 520857), wide torch 45 mm (No. 520845), propane regulator 0-6 bar (No. 242206000), 2 m propane hose (No. 30927), small propane cylinder 0.425 kg with hook (No. 33079), refilling adaptor (No. 32207), torch spanner (No. 35530), open-ended spanner (No. 32073), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35487)

ACCESSORIES





















Model	$\Delta_g \Delta$	No.	Model	$\sqrt[4]{g}$	No.
Soft soldering iron with handle, iron torch,	940	520849	Copper head 250 g flat	270	32098
iron holder, wind protector, copper head flat 35	0 g		Copper head 250 g pointed	270	32099
Handle with hose coupling M 10 x 1 L	300	520850	Copper head 350 g flat	370	32075
Iron burner with coupling M 15 x 1	70	520865	Soft soldering torch size 5, Ø 17 mm, M 15 x 1	70	520856
Iron holder with foot	100	520866	Soft soldering burner size 7, Ø 20 mm, M 15 x 1	120	520857
Wind protector	100	520867	Steel case	3,390	35487
Safety igniter	60	32077	Replacement flints, tin (5 pcs.)	15	32088

Accessories cylinder brazing/soft soldering

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



Burner support included!

Ideal for roofing and asphalt work



and 5.0 m propane hose



600 mm burner tube with support

5-part set (No. 30954) includes: pro performance torch (No. 223216300) propane hose (No. 32203), torch su), 600 mm torch pipe (No. 236010	
Model	ΔgΔ	No
ROOFING set	1,920	30954
POOEINIC sot	1.060	USUUEE!

5 m propane hose Large working range

TECHNICAL DATA

600 mm burner tube

Burner support

Model	\triangle g \triangle	No.
ROOFING set	1,920	30954
ROOFING set	1,960	030955X
(as No. 30954, with piezo ignition)		
ROOFING set	2,300	30957
(as No. 30954, with pressure regulator No.	30925)	
Burner support	60	252010000

Extensions

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



<mark>⊩ L</mark> mm	\sqrt{g}	No.	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	<mark>L</mark> mm	g/h 2 bar	kWh – kcal – BTU	Δgδ	No.
oper	1				
45	102	2500	32.00 - 27,500 - 109,280	240	223090616
51	112	3800	48.60 - 41,800 - 165,970	270	223090716
63	138	6700	85.70 - 73,700 - 292,670	440	223090916
close	ed				
45	102	2500	32.00 - 27,500 - 109,280	240	223214500
51	112	3800	48.60 - 41,800 - 165,970	270	223215100
57	126	5500	70.35 - 60,500 - 240,257	350	223215700
63	138	6700	85.70 - 73,700 - 292,670	440	223216300

Safety propane handles

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

Model	ΔgΔ	No.
Safety propane handle with push-in coupling	350 2	11121116
Safety propane handle with M 14x1 coupling	290 2	11111116
Repair kit with shut-off valve, complete	10	30101
Repair kit with regulating valve, complete	10	30102



Propane regulators

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

Inlet	Outlet	Working pressure Bar	Perform- ance kg/h	ΔgΔ	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 2	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 L	Inlet	Outlet	Standard	Interior-Ø mm Wall thickness	ΔgΔ	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



Propane hose cut-off valve

Nominal pressure 1.5 - 4 bar, brass, DIN / DVGW tested. Automatic interruption of gas supply if hose is damaged or loosened, push-button for resetting after interruption

Inlet	Outlet	Performance kg/h	Δgδ	No.
G 3/8" LH	G 3/8" LH	10	130	35925



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 fo	ot G 3/8"	LH empty	2.75	33079
Protective collar for No. 33079				35636





Electric soft soldering

Electric soft soldering

ROTHERM 2000

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

Product profile

APPLICATION AREA

For simple, safe and time-saving soft soldering without a flame. Particularly suitable for repair and modification work in surroundings or rooms with a fire hazard, as well as in building refurbishment. Soft Soldering of copper pipes: 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













- Handle shell will not overheat
- 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

2,000 W Power:

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

10.5 kg

KEY FEATURES

No purchasing on handling of gas cylinders necessary

Soldergun cable: 4 m

Weight:

Soldering without open flame! 2,000 W Thermal overload protection Automatic device shut-off High-performance. short soldering times Generously dimensioned stainless steel cooling ribs No overheating of the handle shells ROTHENBERGER ROTHERM 2000

solder gun cable Large working radius, also

Soldering without open flame No risk of fire from flammable walls, floor coverings, plastic parts etc.

Highly flexible, extra long 4 m

when working under ceilings

Comfortable transport and convenient use

Compact design

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!



Fig. similar

230 V 50/60 Hz ROTHERM 2000 soft soldering set 17.8 36702 ROTHERM 2000 soft soldering unit 13.6 36700 Steel case 36715

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



Warming up of the soldering ioint without open flame





Simple replacement of electrodes and electrode holders



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

Gas-welding

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

Product profile

- Practically complete emptying of gas cylinders (money-saving)
- Super compact for working in confined spaces
- Efficient and economical professional use

Fine Max

Small, very light handle (280 g)

Super compact for working in

confined spaces

KEY FEATURES

- For use with all conventional gases and cylinder oxygen

Low gas pressure of only 0.2 bar

Town gas and oxygen

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

Universal soldering and welding torch

For use with all conventional gases and cylinder oxygen

Flexible pipe welding attachments



Dispersion burners for warming up





Safe and quick



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)

Efficient and economical professional use

BOTHENBERGER

Model	oxygen	fuel gas	∆ _g ∆	No.
ALLGAS 2000 set (acetyle	ne)		3,100	35300
ALLGAS 2000 handle	G 1/4" RH	G 3/8" LH	280	35303
Mixing burners with union	n nut		40	35304

Welding tips and welding att Model	welding range mm	Δgδ	No.
Welding tip size 1	0.2 - 1.0	10	35305
Welding tip size 2	1.0 - 2.0	10	35306
Welding tip size 3	2.0 - 3.0	10	35307
Welding tip size 4	3.0 - 4.0	10	35308
Welding tip size 5	4.0 - 5.0	10	35309
Dispersion burners for warm	ning up	20	35311
Welding tip holder, can be u	ised as a spanner	20	35312
Flexible welding tip size 1	2.0 - 3.0	40	35313

4.0 - 5.0

With safety devices to prevent flashbacks

KEY FEATURES

TECHNICAL DATA

Flame temperature:

Gas:

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

ALLGAS 2000 PS 0.5 / 2 Compact

Portable brazing equipment with carrying frame

Secure transport in closed supporting frame

• Portable, light brazing equipment • Ideal for mobile building-site and repair use

Working temperature: 1,150 °C

Small propane cylinders can be refilled

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

Product profile

Propane and oxygen

2,850 °C

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	$\Delta_{kg}\Delta$	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	170	









7

Bonding





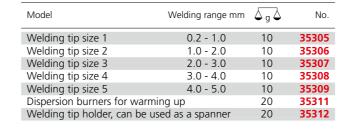
Fig. similar



The bottle colors shown are without obligation! Fig. similar

ALLGAS 2000 welding tips

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







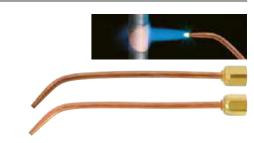






Flexible pipe welding attachments

Model	Welding range mm	$\sqrt[]{g}$	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	3531







ALLGAS 2000 set

Further accessories can be found on 165

Flexible welding tip size 2

Coupling / union nut size 14

40

10

35314

Gas-welding

ALLGAS Mobile Pro

Mobile brazing equipment with safety devices

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

Product profile

KEY FEATURES

- Mobile brazing set with a total weight lower than 6 kg incl. cartridges
- High-quality saftety devices for both gas hoses to prevent flashbacks
- MAPP¹⁾ gas pressure regulator with an adjustable range of 0 - 2 bar for a constant, low consumption and an efficient flame adjustment





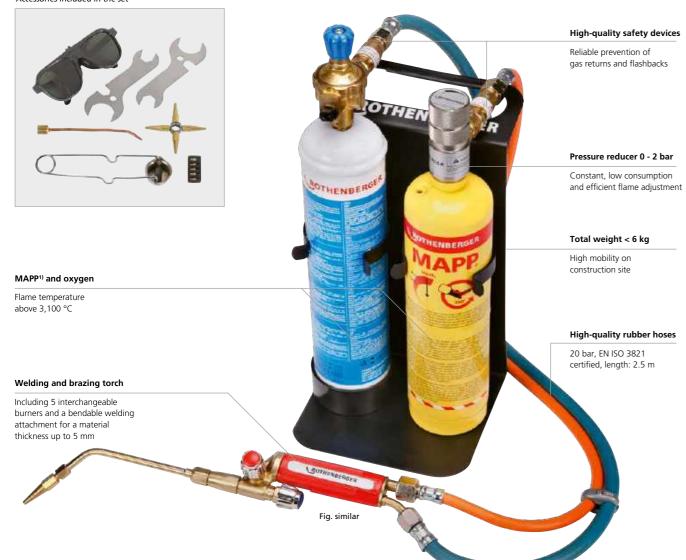




TECHNICAL DATA

Gas: MAPP1) gas with oxygen over 3,100 °C Flame temperature: Working temperature: 1,300 °C

Accessories included in the set



Model	Δ_{kg}	No.
ALLGAS Mobile Pro 1" US, w/o cartridges		1000000529
ALLGAS Mobile Pro 1" US, with cartridges	5.95	1000000743
ALLGAS Mobile Pro 7/16" EU, w/o cartridges	3.86	1000000642
ALLGAS Mobile Pro 7/16" EU, with cartridges	5.70	1000000558
MAPP ¹⁾ gas 1" US, 788 ml	0.9	35698
MAPP ¹⁾ gas 7/16" EU, 788 ml	0.9	035521-A
Oxygen steel cylinder disposable 950 ml 110 har	1 33	35750

Model	$\Delta_{kg}\Delta$	No.
Pressure regulator 1" US f. MAPP ¹⁾ / LPG		1000000620
Pressure regulator 7/16 " EU f. MAPP1) / LPG	0.35	1000000627
Pressure regulator M10 x 1 f. oxygen	0.35	1000000629

ALLGAS 2000 PS 0.5 / 2 Basic

Portable fitter's brazing equipment

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



The bottle colors shown are without obligation Fig. similar







Bonding



KEY FEATURES

- Compact and handy construction for mobile building-site and
- 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	$\Delta_{kg}\Delta$	No.
ALLGAS 2000 PS 0.5 / 2 Basic set	14.4	35651
Further accessories can be found on	170	

ROXY 400 L

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

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



The bottle colors shown are without obligation! Fig. similar











Space saving storage in service vehicles!



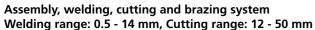
19-part set (No. 035780X) includes: handle with fine regulating valve (No. 35580), Maxigas 400 (No. 035570-A), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 263003700), oxygen pressure reducer according to DIN 0-315 / 200 bar 0-16 / 10 bar (No. 35634), hose set, 3 m without handle (No. 35785), oxygen blowback protection (No. 1000000633), 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 A5 (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738), carrying frame (No. 35727)

Model	Δ_{kg}	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 0.3 mm	0.01	35712
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

Three-gas welding

Bonding

Assembly, welding, cutting and brazing system





The bottle colors shown are without obligation! Fig. similar









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

Fine (360) (360) (Max

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. 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), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

Model	$\Delta_{kg}\Delta$	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



ncluding gas cylinders 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 l, filled (No. 35179), oxygen cylinder 10 l, 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	${\textstyle \sqrt[]{\log}}$	No.
RE 17 three-gas system AMS 10/10	66	35401
RE 17 as in No. 35401 cutting range 12 - 25 mm.	65	35798

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	$\sqrt[]{kg} \sqrt[]{}$	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		
, , , , , , , , , , , , , , , , , , , ,		

No. 35480

No. 35324

RE 17 welding attachments

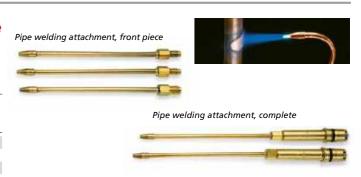
	Welding range mm	$\Delta_{\alpha}\Delta$	No.
	vveiding range min		110.
Welding attachment	0.5 - 1.0	140	35325
Welding attachment	1.0 - 2.0	150	35326
Welding attachment	2.0 - 4.0	170	35327
Welding attachment	4.0 - 6.0	190	35328
Welding attachment	6.0 - 9.0	220	35329
Welding attachment	9.0 - 14.0	260	35334
-			



RE 17 welding attachments, bendable

Pipe welding attachment, complete Flexible copper tips

Welding range mm	Δgδ	No.	Welding range mm	ΔgΔ	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

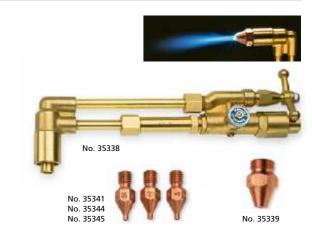


RE 17 wing-lever cutting attachment

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 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

L m	Inlet	Outlet	Internal Ø x Wall thickness	$\Delta_{kg}\Delta$	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

<mark>L </mark> m	Inlet/Outlet Oxygen	Inlet/Outlet Acetylene	Interior Ø x Wall thickness	$\sqrt[b]{\log \lambda}$	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



Lightweight steel cylinders, filled

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

1			
1			Fillin
	Model	Contents	
	Oxygen	950 ml	
	Oxygen	2	
	Oxygen	5 1	
	Oxygen	10 l	
	Acetylene	51	
	Acatulana	10 I	

The bottle colors shown are without obligation! Fig. similar

	Fillian annual Linkship	α	

Model	Contents	Filling pressure bar	Height mm	Ø mm	$\sqrt[]{kg} \sqrt[]{}$	No.
Oxygen	950 ml	110	340	70	1.33	35750
Oxygen	2	200	420	110	4.6	35635
Oxygen	51	200	595	145	14.0	35188
Oxygen	10 l	200	980	145	17.0	35189
Acetylene	5 I	18	595	145	13.0	35178
Acetylene	10 l	18	980	145	23.0	35179



ROTHENBERGER

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	$\sqrt[b]{\log \Delta}$	No.
Transport trolley for	8.9	35354
5 / 10 l acetylene / oxygen cylinders		

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	ure Inlet	Outlet	$\sqrt[]{\log \Delta}$	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





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

Model	max. working pressure	Coupling	√ _g ⟨	No.
Handle-mounted, oxygen	25.0 bar	G 1/4"	RH 150	540360
Handle-mounted, acetylene	1.5 bar (ace)	G 3/8" I	LH 160	540365
	5.0 bar (prop	ane/CNG	5)	
Reducer-mounted, oxygen	25.0 bar	G 1/4" I	RH 120	1000000633
Reducer-mounted, fuel gas	1.5 bar (ace)	G 3/8" I	LH 120	1000000631
	4.0 bar (prop	ane/CNG	5)	
Handle, oxygen	20.0 bar	G 1/4" I	RH 100	1000000764
Handle, fuel gas	1.5 bar (ace)	G 3/8" I	LH 100	1000000762
	4.0 bar (prop	ane/CNG	ā)	



No. 1000000633



No. 540360





No. 540365



No. 1000000764

No. 1000000762

Protective guard for pressure reducer

Impact protection, rugged steel construction, mounts on connection coupling

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



With slot, open

• •			
Model	Color	$\langle g \rangle$	No.
For oxygen pressure reducer	blue	50	511427
For acetylene pressure reducer	vellow	50	511428



No. 1000000631





Oxygen refilling bend

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

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



Safety igniters

Powerful spark, wear-free hard alloy friction surface

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





No. 32077



Protective bracket included in delivery for steel cylinders without cap,

Accessories soldering & welding

Accessories soldering & welding



Hand-held welding mirror

Model	$\Delta_g \Delta$	No.
Steel wire handle with clamp / ball joint Spare steel mirror		540850 540851

Magnet welding mirror

Model	$\Delta_g \Delta$	No.
With flexible metal tube / ball joint Spare steel mirror		540855 540851



Burners cleaner

Model	ΔgΔ	No.
Burners cleaner, in folding case, 11 pcs.	20	510105



Torch spanner

Model	Δgδ	No.
With 10 wrench sizes	210	510106



Soldering flux and container for hydrochloric acid

Model	\sqrt{g}	No.
With screw cap retaining band for 150 ml content	40	530250



Ammonia stone

For cleaning of copper pieces after soft soldering

Model	LxBxH		Δgδ	No.
Ammonia stone, pressed	65 x 45 x 40 mm	1	15	530310





Welding goggles EN 166

With thermal glasses as per EN 169

Model	Glas	$\overline{ \Delta_g \Delta}$	No.
Nylon safety goggles	A 4	60	540620
	A 5	60	540621
	clear, non-splintering	60	540622
Replacement glass (pair)	A 4	30	540625
	A 5	10	540626
	clear, non-splintering	30	540627
Screw-ring safety goggles	A 4	90	540640
	A 5	90	540641
Replacement glass (Ø 50 mm	n) A 4	30	540675
	A 5	10	540676

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			$\Delta_g \Delta$	No.
ROVLIES	1(10)		80	45268
ROVLIES counter display		36(10)	2 180	045268D





Internal brushes for copper pipe

For fast cleaning of the soldering surface with rugged plastic handle

► O•	Δgδ	No.
12	80	854181
15	100	854183
18	120	854185

mm	Δgδ	No.
22	140	854186
28	140	854187



Hand wire brushes

Model	Number of rows	$\sqrt[]{g}$	No.
Standard steel	3 rows	130	561351
Standard steel	4 rows	130	561352



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: 1.4 mm Weight: 1,000 g/m²





Model	LxWxH	ΔgΔ	No.
Welding blanket	500 x 330 x 5 mm	300	31050

Flame reflectors

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



65/22

	1		
Model	Width mm	Adaptor Ø mm	ΔgΔ
65 / 15	65	8 – 15	100

Fitting soft solder according to EN standard

Standard	Solder composition	Melting		Suitable for soft solder	Recommended heat source	
type according to EN 9453	in weight %	range °C	Pipe material	Fittings material	Recommended flux according to EN 94454-1	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 composition	Melting	Working	Suitabl	e for installation t	echnology brazing	Recommended flux according to	Recommended heat source
type according to ISO 17672	in weight %	range °C	temperature °C	Pipe material	Fittings material	Flux	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 touch with MARRII gas
CuP 281	Ag 5 / Cu 89 / P 6	645 - 815	710	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 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)

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

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

Fitting solder 1 S

Quality soft solder **S-Sn97Ag3**, melting range 221 °C - 240 °C, for use with ROSOL 1 S fittings solder paste

Solder wire Ø	Description	$\Delta_g \Delta$	No.
2 mm	250 g coil	270	45252
3 mm	250 g coil	270	45250

Fitting solder 3

ROSOL 1 S

Model

Fittings solder paste

only for use with fitting solder 1 S

ROSOL 1 S in plastic bottle 250 g

Quality soft solder, S-Sn97Cu3, melting range 230 °C - 250 °C, for use with ROSOL 3 fittings solder paste

Solder wire Ø	Description	ΔgΔ	No.
2 mm	250 g coil	270	45257
3 mm	250 g coil	270	45255





ROSOL soldering paste

Quality soft soldering flux according to 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

ROSOL 3

 $\Delta_{g}\Delta$

270 **45220**

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

Quality soft soldering flux, metal content: S-Sn97Ag3,

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	ΔgΔ	No.
Fittings soft solder flux in plastic jar 35 ml	35	45266



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

Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest Alloy (weight %):

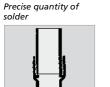
650 °C - 810 °C Melting range:

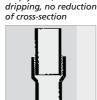
Joinable materials: Copper, gunmetal, brass, bronze Use of flux with: Gunmetal, brass, bronze with hard solder paste LP 5

Package size: 250 g plastic bag









Simply heat, no

Model	appr	ox. Content rings	$\Delta_g \Delta$	No.
Hard solder rings S 2, Ø 12	mm	395 pcs.	260	40512
Hard solder rings S 2, Ø 14	mm	268 pcs.	260	40514
Hard solder rings S 2, Ø 15	mm	244 pcs.	260	40515
Hard solder rings S 2, Ø 18	mm	186 pcs.	260	40518
Hard solder rings S 2, Ø 22	mm	106 pcs.	260	40522
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	$\Delta_g \Delta$	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	ΔgΔ	No.
HKM in plastic bottle	50 g	65	35611



Flux brush

Model	Width mm	Length mm	Δgδ	No.
Flux brush	13	140	20	530261

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

TECHNICAL DATA

Alloy (weight %): Cu 94 / P6 710 - 890 °C Melting range: 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:

Joinable materials: Copper, gunmetal, brass, bronze Flux required with: Gunmetal, brass, bronze with hard

solder paste LP 5

Content	Square section mm	Length mm	√ _g √	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

Ag 2 / Cu 91,8 / P 6,2 Alloy (weight %): Melting range: 645 - 825 °C

Working temperature:

Copper, gunmetal, brass, bronze Joinable materials: Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

Content	Square section mm	Length mm	√ _g √	No.
1 kg carton	2 x 2	500	1,025	40212
1 kg carton	3 x 3	500	1,025	40213

Accessories soldering & welding

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

710 - 840 °C Melting range: Working temperature:

Copper, gunmetal, brass, bronze Joinable materials: 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

Content	Square section mm	Length mm	ΔgΔ	No.
1 kg carton	2 x 2	500	1.025	40005

TECHNICAL DATA

Alloy (weight %): Ag 5 / Cu 89 / P 6 Melting range: 645 - 815 °C Working temperature: 710 °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	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

TEC	ны	$\sim \Lambda I$	

Alloy (weight %): Ag 15/CU 80/P5 Melting range: 645 - 800 °C Working temperature:

Copper, gunmetal, brass, bronze Joinable materials:

Flux required with: Gunmetal, brass, bronze with hard

solder paste LP5

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

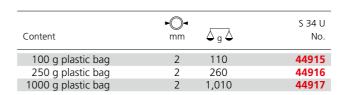
TECHNICAL DATA

Alloy (weight %): Ag 34 / Cu 36 / Zn 27.5 / Sn 2.5 630 °C - 730 °C Melting range:

Working temperature:

Joinable materials: Steel, malleable cast iron, copper,

gunmetal, copper and nickel alloys





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

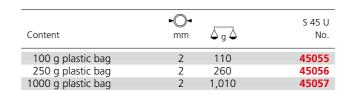
Ag 45 / Cu 27 / Zn 25.5 – 3.5 / Sn 2.5 Alloy (weight %): Melting range: 640 °C - 680 °C

Working temperature: 670 °C

Joinable materials: Steel, malleable cast iron, copper,

gunmetal, copper and nickel alloys,

stainless steel







Testing & pressure range:

Hub suction capacity:

Suitable for:

0 - 60 bar

45 ml / stroke

Oil, water and glycol

Precision testing pumps manual

0 - 25 bar

16 ml / stroke

Oil, water and glycol

0 - 30 bar

16 ml / stroke

Oil, water and glycol

Page 183 185

ROTHENBERGER

Analogue / digital testing device for gas and water connections





Testing & 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			
Page	184	Page	188	186

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

Hub suction capacity:

0 - 60 bar, with 1 bar steps Testing and pressure range:

0 - 860 psi, with 20 psi steps 0 - 6 MPa, with 0.1 MPa steps

approx. 45 ml/stroke

12 l Tank capacity:

495 x 165 x 255 mm Dimensions (L x W x H): R 1/2"

Connection:

Container RP 50-S: Steel, DURAMANT coated

Container RP 50-S INOX: Stainless steel

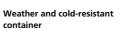
ROTHENBERGER

Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

Additional pressure gauge with fine scaling 0.1 bar optional

Enables very precise readings up to a range of 16 bar (No. 61316)



Testing hose with steel mesh

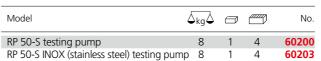
Precise measurement

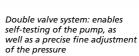
5 year rust-free guarantee -DURAMANT coated



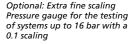














ACCESSORIES	

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

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



Testing & leak detection

Testing of water lines & containers

RP PRO III

Self-priming electric testing pump up to 40 bar

Product profile

Testing of water lines & containers

APPLICATION AREA

Electrical testing pump for the automatic pressure testing of piping and containers up to 40 bar in accordance with national and international standards

KEY FEATURES

- Comfortable, automatic filling and pressure testing of piping and containers
- Compact and robust plastic casing for simple handling at the building site
- Liquid supply freely selectable: optional self-priming up to a maximum of 1 m or from a pressure source. Suitable for oil, water and glycol
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Glycerine cushioned pressure gauge absorbs pressure surges which makes pressure reading easier

TECHNICAL DATA

Testing and pressure range: 0 - 40 bar, with 1 bar steps

Optimal weight distribution

0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps

Flow Rate: max. 61/min Dimensions (L x W x H): 375 x 290 x 300 mm

Connection: R 1/2" 220 - 240 V / 50 HZ and Mains voltage:

110 V / 50 - 60 HZ Performance: 1.3 kW

Container: ABS-plastic

Comfortable to carry Valve for pressure adjustment Precise labelling on handle Thermal automatic shutdown Glycerine pressure gauge Prevents overloads and damage to the pump Easy for the user to read during high dynamic alternating loads Installation diagram on unit Eases the direct connection ROTHENBERGER **Function overviev**

Model	$\Delta_{kg}\Delta$	110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose	16.0	V12110016	61185
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			

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"

Steel, DURAMANT coated Container:



For the daily work on site



Model		Pressure range	$\Delta_{kg}\Delta$			No.
Testing pun	np TP 25	up to 25 bar	4.6	1	4	60250
Maintenan	ce package T	P 25		1		60251

RP 30

Simple and light testing pump for compression testing up to 30 bar

Product profile

APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction as well as for industrial containers up to 30 bar in accordance with international and national standards

KEY FEATURES

- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Shock and corrosion resistant ABS plastic container with reinforced floor

TECHNICAL DATA

Testing and pressure range: 0 - 30 bar, with 1-bar steps 0 - 440 psi, with 20 PSI steps

Hub suction capacity: 16 ml / stroke Dimensions (L x W x H): 440 x 200 x 240 mm

R 1/2" Connection: ABS-plastic Container:



mon house building applications



Model	Pressure range ($\Delta_{kg}\Delta$			No.
Testing pump RP 30	up to 30 bar	4.5	1	4	61130
High pressure hose with	1/4" connection	0.4	1		R6112500









Direct overview of the functions

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.

Testing of gas & water lines











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
- 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)

Pressure range 0 - 20 bar / 0 - 2 MPa High pressure sensor: (resolution 0.01 bar / 0.001 MPa)

essung an

9

High- and low-pressure sensor from

1 mbar/hPa up to 20 bar / 2 MPa

in one device

urgen-ZRGI 2008 en-EN 506-4

OTEST GW DIGITAL V3

Leak rate measurement: Leak rate 0 – 12 l/h (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

Pressure and leakage testing for gas pipelines according to TRGI 2018



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. 1500002853), adaptor nozzle pressure to NW5 plug (No. 61018), air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017),

Model

ROTEST GW Digital V3 – Set gas / water

1500002677

No.

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 measure-
- ments 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

16.2 MB



Management of measurement series = RoData V3

Sample log according to DIN EN 806-4 with diagram

Overview of measurement series with graph

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



Measurement overview RoData Mobile App



Start screen RoData Mobile App

Testing of gas & water lines

Product profile

APPLICATION AREA

Analogue testing unit for the implementation of the following tests:

Gas: Load and leakage test for newly installed gas lines in accordance with DVGW-TRGI worksheet 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

Water: Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)

KEY FEATURES

- Quick and precise pressure reading over water column without electronic
- Testing time and pressures in accordance with DVGW-TRGI and TRWI clearly arranged on unit cover
- Sturdy unit: High reliability when used on the building site

DVGW-TRGI worksheet G 600 (October 2018) conforming!



Testing scale up to 150 mbar on transparent extending tube element





Pressure gauge: 4 bar / 0.4 MPa
Water column: 180 mbar / hPa
Testing accuracy: 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)

Continuous scaling up to 150 mbar

Measurement chart in unit

Legible scaling

Testing times and testing pressure from lawmakers at a glance

Foam inlay

High transport safety and protection of the components

Compact measuring station

Designed to serve in real-life situations through quick, exact gas pressure measurements

Model in combination with basic unit $\triangle_{kg}\triangle$ No. with 5 test plugs and supply end cap 7.6 61700 with 5 test plugs without supply end cap 7.3 61701

Set components

Model		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	1500002853
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



No. 1500002853

No. 1500002876

No. 1500002852

No. 1500002851

Gas test plug / adaptor

Suitable for gas lines up to 1.5 bar

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	\sqrt{g}	N
Conical s	shape with pneum	natic connection		
Size 0	3/8 - 1/2"	15 - 18	45	35126
Size 1	1/2 - 1"	22 - 28	80	35126
Size 2	3/4 - 1.1/4"	35 - 42	125	35126
Size 3	1.1/4 - 2"	54 - 64	175	35126
Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	ΔgΔ	N
Cylindric	al shape with pne	umatic connectio	n	
Size 1	3/4"	22	60	35127
Size 2	1"	28	75	35127
Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	ΔgΔ	N
Conical	shape with hose c			
Size 0	3/8 - 1/2"	15 - 18	200	35122
Size 1	1/2 - 1"	22 - 28	300	35122
Size 2	3/4 - 1.1/4"	35 - 42	300	35122
Size 3	1.1/4 - 2"	54 - 64	400	35122
Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	ΔgΔ	N
Conical s	shape with 2 ball v	/alves		
Size 1	1/2 - 1"	22 - 28	260	35123
Size 2	3/4 - 1.1/4"	35 - 42	420	35123
Size 3	1.1/4 - 2"	54 - 64	700	35123
Model	Steel exterior Pipe Ø inch	Copper exterior Rohr Ø mm	ΔgΔ	N
Conical	shape with 1 ball v	/alve		
Size 0	3/8 - 1/2"	15 - 18	200	35122
Size 1	1/2 - 1"	22 - 28	350	35122
Size 2	3/4 - 1.1/4"	35 - 42	390	35122
Size 3	1.1/4 - 2"	54 - 64	600	35122
With doul	ble plug valve - with	hose snout		
Model			ΔgΔ	N
		n. connection	290	35126



RGER

Inspection glass
Water level control

Testing & leak detection

Testing of waste water lines

Set for testing in accordance with DIN EN 1610 and 1986 in combination with GW Digital (version 2.1 or newer)

Product profile

APPLICATION AREA

Testing balloon and accessories for the leakage testing of ground water piping using air in accordance with $\boldsymbol{\text{DIN}}\ \boldsymbol{\text{EN}}\ \boldsymbol{\text{1610}}\ \boldsymbol{\text{and}}\ \boldsymbol{\text{DIN}}$ 1986, part 30. Suitable for nominal diameters of 65 to 250 mm



KEY FEATURES

- Handy set: One testing and sealing balloon for the most common pipe diameters (included in set are diameters 75 - 150 mm, additional balloons available in accessories)
- Easier positioning of the balloon, even in hard to reach places using various push and filling rod sizes
- Body material is made out of aluminium and eases the positioning of the testing balloon through the pipe system
- Sturdy balloons made of natural rubber are temperature, use and waste water resistant. If the balloon becomes damaged, a simple repair is possible

TECHNICAL DATA

Maximum operating pressure: 1.5 bar Push rod length:

11-part house connection test set (No. 61340) includes sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 1500002856), filling hose (No. 61365), test valve, filling valve (No. 61367), push rod (No. 61380), holding rope (No. 61368), upright pump with pressure gauge (No. 61369), plastic case (No. 61370), cover (No. 91123), plastic case inlay for upright

Model	$\Delta_{kg}\Delta$		No.	Ø Testing/sealing balloon	Testing balloon No. Seal	ing balloon No.
House connection test	7.8	1	61340	Ø 65 - 100 mm Ø 75 - 150 mm	61358 1500002856	- 61352
				Ø 90 - 250 mm	1500002857	61353

ROLeak Agua Plus

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

Product profile

KEY FEATURES

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



KEY FEATURES

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

TECHNICAL DATA

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

2. Stage: 540 - 4,000 Hz

3. Stage: 0 - 4,000 Hz

Operating time: ca. 50 h

Weight: 300 g (Handheld device)

Level of protection: IP 41

Improved Sound compared with previous models!

6-parts Set (1500000922) includes: basic unit, headphones, magnetic adaptor, 2 x extensionstick, tripod-adaptor, plastic case

Model	$\sqrt[4]{\log \lambda}$	No.
ROLeak Aqua Plus	1.6	1500000922

ROTEST Electronic 3

Leak detection on gas lines

Product profile

APPLICATION AREA

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

KEY FEATURES

- Leaks are optically as well as acoustically displayed
- With the help of the 42 cm long, flexible testing head and the integrated lamp, even dark and hard to reach places can be tested
- Quick and precise leak location of even the smallest leak source: The sensitivity of the unit can be adjusted continuously in a range from < 50 ppm - 1 Vol %
- Shock-proof soft case jacket and simple one-handed operation of the unit for use on the building site
- Optical display of battery status



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

ROTEST

Leak detection on gas lines

• Simple use - always ready to use

APPLICATION AREA

KEY FEATURES

locating of leaks

TECHNICAL DATA

building of foam

Model

Model	$\Delta_{kg}\Delta$	No.
ROTEST Electronic 3	1.5	66080

Product profile

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

• Highly sensitive foaming spray for a quick and reliable

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

Content $\triangle_{a} \triangle$

400 ml 470

400 ml 470







TECHNICAL DATA

Detects: Natural gas, propane, butane, methane, acetone, alcohol, ammonia, benzyl, ethylene,

gasoline, hydrogen, industrial solvents, jet fuel,

paint thinner, naptha, toluene < 50 ppm – 1 Vol % (Methan) Sensitivity:

Power supply: 9 Volt battery



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





No.

65000

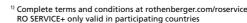
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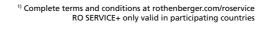




ROTEST leak detection spray

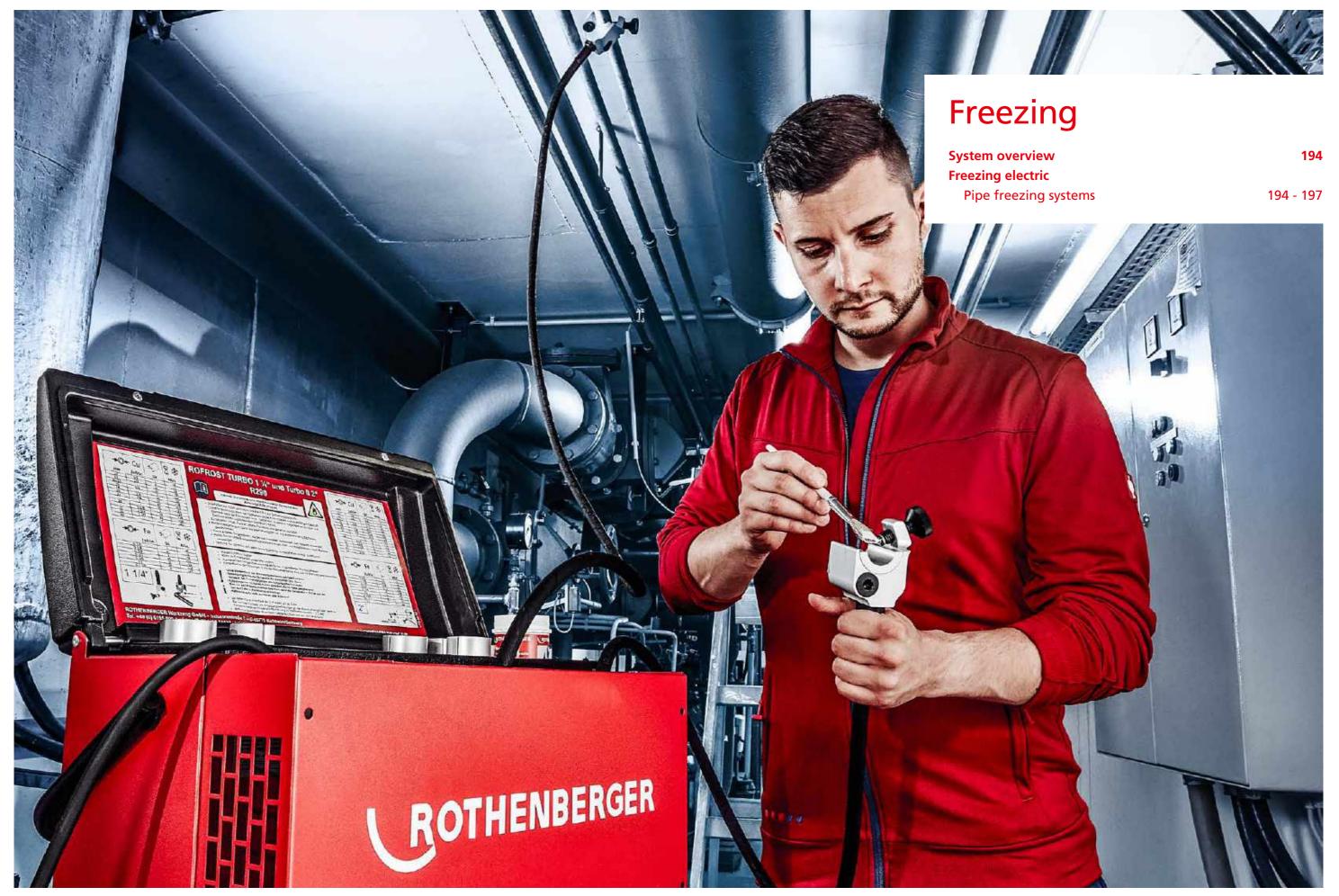
ROTEST leak detection spray







ROTHENBERGER



Freezing

Freezing electric

System overview

Freezing electric ROFROST Turbo R290 1.1/4" **ROFROST Turbo R290 2"**

Working range Cu:	10 - 42 mm (3/8 - 1.3/8")	10 - 54 mm (3/8 - 2.1/8")
Working range Fe:	1/8 - 1.1/4"	1/8 - 2"
Reduction inserts:	up to 12 pcs.	up to 15 pcs.
Freezing hose:	2.5 m	2.5 m
Refrigerant:	R290	R290
Page	194 - 195	194 - 196

ROFROST Turbo R290 1.1/4" / ROFROST Turbo R290 2"

Pipe freezing system for copper, steel and stainless steel



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 to be frozen - even close to the wall



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"

Ø 1/8 - 1.1/4" ROFROST Turbo R290 1.1/4" Steel pipes:

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	$\sqrt[]{\log \Delta}$	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
Expansion set for ROFROST Turbo with reduction inserts size II, III, V, VII		62230
additional sets upon request		

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

Freezing

Freezing electric

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 environmentallly 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

1) Complete terms and conditions at rothenberger.com/roservice

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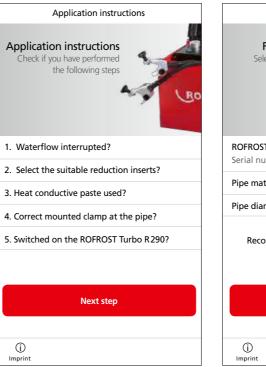


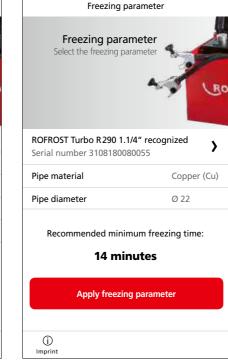
Model	$\overline{\triangle_{kg}} \overline{\triangle}$	230 Volt 50 Hz
ROFROST Turbo R290 2"		
with reduction inserts size II, III, V, VII, IX, D, E, F (see ROFROST reduction insert overview) + heat conductive paste	24.3	1500003001
Expansion set for ROFROST Turbo with reduction inserts size II, III, V, VII		62230
additional sets upon request		

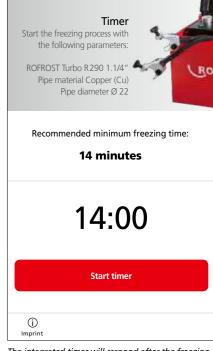
ROFROST App

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

Checklist for the freezing process

Size	► ○ ≺ Nominal size Cu	► ○ ≺ Nominal size Cu	Nominal size Fe	\sqrt{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	► Nominal size Fe	ΔgΔ	No.
C' . A	20		2/4//	100	62224
Size A	28 mm	-	3/4"	190	62231
Size B	-	1.1/8"	-	180	62232
Size C	32 mm	1.1/4"	-	170	62233
Size D	35 mm	1.3/8"	1"	170	62234
Size E	42 mm	-	1.1/4"	165	62235
Size F	-	-	1.1/2"	155	62236
Size G	54 mm	2.1/8"	-	145	62237

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

ROFROST heat conductive paste





Heat conductive paste enables fully automatic freezing without spraying!

Description	Contents	∑ _g ∆		No.
ROFROST heat conductive paste	150 ml	130	1	62291







ROSCOPE mini		ROSCOPE i2	000 modules	
ROSCOPE mini	Module TEC	Module 25/16	Module 25/22	Module ROLOC PLUS

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 & 640 Hz, 33 kHz
Picture format:	JPG	JPG	JPG	JPG	-
Picture resolution:	320 x 240 pixel	640 x 480 pixel	640 x 480 pixel	640 x 480 pixel	-
Video format:	-	AVI	AVI	AVI	-
Video resolution:	-	320 x 240 pixel	640 x 480 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	-
Page	202	204	205	204	206











	•	•	•
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	720 x 600 pixel
Video format:	AVI	AVI	AVI
Video resolution:	720 x 600 pixel	720 x 600 pixel	720 x 600 pixel
Storage:	SD-card	SD-card	SD-card
WiFi:	✓	✓	✓
Protocol feature:	✓	✓	✓
Audio-recording:	✓	✓	✓
Data handling:	✓	✓	✓
_			

Video inspection

Inspection & locating

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

Storage:

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 180° Leveling:

30 pictures



Quick inspection of hollow spaces



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	1	1000002268

Magnet-accessory

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
- USB charging function

Versatile and user-friendly!

3.5" touchscreen

640 x 480 pixel resolution (JPEG)

Ergonomic handling

Function keys arranged closely together

Slip-free handle

For comfortable and effort saving operation - even over long periods of time













Display: 3.5" touchscreen (color)

Video format:

TECHNICAL DATA

JPEG, 640 x 480 pixels Picture format: Mini-USB, AV-Out, SD-card slot Connection: Li-Ion battery 3.7 V / 5.2 Ah Power supply:

Compatible connection

Previous ROTHENBERGER modules can be used

WiFi

Easy data transfer to mobile devices

SD-card slot

Memory space for audio, video and image data

Integrated microphone

Integrated speaker

For audio playback



Powerful Li-Ion battery

For an extra long battery life and short charging times

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.

ROSCOPE i2000 App

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



Module TEC

Self-leveling camera for the inspection of hollow spaces and



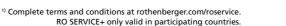
Module 25/16 & 25/22

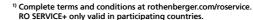
Waterproof pipe module for pipe inspection in 90° bends from Ø 40 mm to 100 mm



Module ROLOC PLUS Easy to use pipe and sonde locating device incl. precise depth









3.5" touchscreen (color) (technical data

about basic unit available on page 208)

with 4 extra bright LED lights

Li-Ion battery 3.7 V / 5.2 Ah,

2 AA batteries (transmitter)

125 LUX (0.5 m)

16 m

8.5 mm

512 Hz

3.9 kg

Ø 25 mm, **self-leveling** and waterproof,

ROSCOPE i2000 module TEC

Video inspection

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

100 LUX (0.5 m) **Brightness:**

1 m Cable length:

Li-lon battery 3.7 V / 5.2 Ah Power supply:

Weight:

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	1	1500000696
Module TEC (without basic unit) Set (hook, magnet, mirror)	1	69601 69615
. , , , ,		



Inspection of hollow spaces



Camera head with high-performance LEDs



ROSCOPE i2000 module 25/22

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

Product profile

KEY FEATURES

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 40 mm

TECHNICAL DATA

3.5" touchscreen (color) (technical data Display:

about basic unit available on page 192) Ø 25 mm, waterproof, with 8 LED lights

Camera head: 100 LUX (0.5 m) **Brightness:**

22 m Cable length: Cable diameter: 5.5 mm

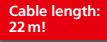
Li-lon battery 3.7 V / 5.2 Ah Power supply:

Weight: 3.1 kg

Set ROSCOPE i2000 module 25/22 (No. 1000000860) includes: ROSCOPE i2000 basic unit, module 25/22, module TEC, charger, plastic carrying case

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

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Inspection of rain downpipes



Inspection of floor drains



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

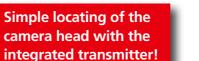
ROSCOPE i2000 module 25/16

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)
- Extremely flexible camera head for 90° bends starting from Ø 50 mm
- Can be used with guide skid up to Ø 100 mm
- Self-leveling picture
- Integrated transmitter for the precise locating of the camera head
- ROSCOPE i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module



Easy data transfer

TECHNICAL DATA

Display:

Camera head:

Brightness:

Frequency:

Weight:

Cable length:

Power supply:

Cable diameter:

Integrated transmitter For the precise locating

of the camera head

Self-leveling camera head

Picture is always upright, no loss of orientation

> Guide skid for module 25/16 and 25/22

For centring of the camera head, better

illumination of the pipe

For the power supply of the integrated transmitter (2 AA batteries included

in delivery)

3.5" touchscreen

640 x 480 Pixel resolution



Stable stand without slipping and damaging the surface

Inspection of access line







Inspection of rain drainpipes

Set ROSCOPE i2000 module 25/16 (No. 1000000842) includes: ROSCOPE i2000 basic unit, module 25/16, module TEC, charger, plastic carrying case

No
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No. 74629

Video inspection

ROSCOPE i2000 module ROLOC PLUS

Easy to use pipe and sonde locating device. Available as a complete unit as well as locating module for the ROSCOPE i2000 basic unit

Product profile

KEY FEATURES

- Pin-point location of the sonde
- Precise depth measurement
- Different frequencies can be chosen
- Simple and clear menu design guides step-by-step through the locating process
- Telescopic function makes transporting in case easier

TECHNICAL DATA

Display: 3.5" touchscreen (color) (technical data

about basic unit available on page 208)

512 and 650 Hz, 33 kHz active/passive, Frequencies:

50/60 Hz passive

Li-lon battery 3.7 V / 5.2 Ah Power supply: 95 x 32 x 30 cm (operating mode) **Dimensions:** 67 x 32 x 9 (transportation mode)

Weight:

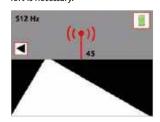


Easy to use pipe and sonde locating device incl. precise depth measurement

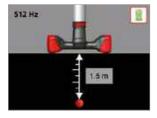
\ ROTHENBERGER



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	1	1000000861
+ module TEC		
Module ROLOC PLUS (without basic unit i200	0) 1	1500000057

ROSCOPE i2000 & ROCAM 4 Plus app

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

Product profile

KEY FEATURES

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

TECHNICAL DATA

ROSCOPE i2000:

Compatibility: iOS 5.1 or newer, Android 4.0 or newer

Size: 4.1 MB

ROCAM 4:

Compatibility: iOS 8.1 or newer, Android 4.0 or newer

12 MB Size:

Live Image



Picture and video

recordina

Editing Display

Change to edit settings

Settings / notes

Color palette

Editing

- Pen and rubber
- Text
- Rectangle, circle, arrow



Available for iOS and Android!



Inspection of basin drains



Sending of edited pictures directly from the place of action

RO SERVICES WIFE CAS SERVICES

ROCAM 4 Plus - 30 m

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 of damage)
- 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 & video format: JPG / AVI (resolution 720 x 600)

Ø 25 mm, waterproof with 8 LEDs

with 10 LEDs

Ø 40 mm, self-levelling and waterproof

Ø 30 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-Ion battery 18 V/4 Ah

Main adaptor 110 - 230 V, 50 - 60 Hz

Li-Ion battery 18V/4.0 Ah

(same as ROMAX 4000) Long battery operation

time (up to 6 hours)

Digital metre count

Precise determination of

Exchangeable reel system

Large operating range from

Nο

Ø 40 mm pipe diameter

30 m/8 m

WiFi transmitter

Simple data transmission to mobile devices

Removable display unit with 10.4" color-touchscreen

confined spaces

Integrated speakers Direct audio replay



Cover protected connections for



Locating with ROSCOPE module



Mode



Set (No. 1500002613) includes: ROCAM 4 Plus - 30 m cable, Ø 30 mm camera head, rolling skid, accessory bag including: location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

Integrated microphone Voice recording for

documentation possible

ROCAM 4 Plus - 30 m cable, 30 mm head, EU	1500002613
ROCAM 4 Plus - 30 m cable, 40 mm head, EU	1500002614
ROCAM 4 - mini-module, 8 m, 25 mm camera head	1500001472

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

ROCAM 4 Plus - 65 m

Inspection camera for pipes from Ø 40 – 300 mm with 65 m cable length, with integrated software for



Comfortable transport over long distances

Transport trolley with extendible handle

New platform based battery



No.

1500002615

1500002616



Transport trolley with

ROCAM 4 Plus mini module

ROCAM 4 Plus - 65 m cable, 30 mm head, EU

ROCAM 4 Plus - 65 m cable, 40 mm head, EU

Model

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

ROCAM 4 - 8 m mini-module, 25 mm camera head 1500001472

Set (No. 1500002615) includes: ROCAM 4 Plus - 65 m cable w/ transport trolley,

Ø 30 mm camera head, rolling skid, accessory bag including: location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

Product profile		
KEY FEATURES		
Professional inspection of small pipe diametersEasy 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, 8 m cable ROCAM 4 Plus mini module, 16 m cable 1500003296











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

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

Video inspection

Inspection & locating

ROCAM camera heads

Camera heads made of high-quality materials for professional inspection of pipes from Ø 70 up to 300 mm

Product-profile

KEY FEATURES

Excellent brightness:

- The ROCAM camera head Ø 30 mm has over 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



High flexibility and durability

Model	No.
Camera head Ø 30 mm	1500000123

Model No. Camera head Ø 40 mm 1500000122

Rolling skids

Recommended for distances from 10 m

APPLICATION AREA

ROCAM accessories

Rolling skids RS40/150 for pipe diameters Ø 150 - 200 mm Rolling skids RS40/200 for pipe diameters Ø 200 - 300 mm

KEY FEATURES

- Optimized view of the pipe section
- Less pushing resistance with the fully rubberized wheels



No. 69118

No. 69119

Model	ΔgΔ		No.
For camera heads Ø 40 mm:			
Rolling skids Ø 150 mm	700	1	69118
Rolling skids Ø 200 mm	700	1	69119

Brush attachments

To improve the overview in pipes from Ø 100 – 200 mm

APPLICATION AREA

Brush attachment **Ø 100** for use in pipe Ø 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)

*Use with guide skid No. 69112 / 1500000817

Brush attachement camera head (front)

Model	ΔgΔ		No.
Brush attachment Ø 100*	200	1	69113
Brush attachment Ø 150*	300	1	69117

Rolling skids ROCAM 4 Plus

For centring of the camera head in pipes for a better overview and illumination

APPLICATION AREA

Guide skid for pipe diameters Ø 70 - 150 mm Guide skid with brush attachment for pipe diameters Ø 70 - 200 mm

KEY FEATURES

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens





No. 69112 / 1500000817

No. 69111 / 1500000120

Model	ΔgΔ		No.
For camera heads Ø 30 mm:			
Guide skid for Ø 150 mm	200	1	1500000120
Guide skid for brush attachments	200	1	1500000817
For camera heads ø 40 mm:			
Guide skid for ø 200 mm	200	1	69111
Guide skid for brush attachments	200	1	69112

Battery pack system CAS, mains adaptor & 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-Ionen



10



Model		No.
RO BP18/4, 4.0 Ah 18V Li-Power battery	1 1000	001653
RO BC14/36, battery charger, 230 V, EU	1 1000	001654
ROCAM 4 Plus adaptor, 230 V, EU	1 1000	002085





Mountable transmitter



System overview

System overview



Connection:	1"	1"
Max. pipe diameter:	Ø 50 mm	Ø 50 mm
Max. water pressure:	7 bar	7 bar
Documentation:	-	✓
Page:	217	216

	Pipe cle	eaning		
WC-Blitz	ROPOWER HANDY	ROSPIMATIC CL	ROSPI 6 H+E Plus	ROSPI 8 H+E Plus
	-			
	(a =) (
	三			

Operation mode:	Mariual	IVIdTIUdI	Electric	Manual / electric	Mariual / 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:	224	224	225	223	223

224	224	225	223	223
R 550	RODRUM M 13	RODRUM M 16	RODRUM L 16	R 600
				o le constant de la c

Operation mode:	Electric	Electric	Electric	Electric	Electric
Working range:	Ø 20 - 100 mm	Ø 70 - 100 mm	Ø 70 - 125 mm	Ø 70 - 125 mm	Ø 20 - 150 mm
Max. spiral length:	40 m	30 m	45 m	45 m	60 m
Spiral diameter:	16 mm	13 mm	16 mm	16 mm	8**/10**/16/22 mm
Power:	440 W	620 W	620 W	620 W	690 W
Page:	226	230	230	230	226







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:	219	219

		Pipe cleaning		
ROSPI 10 H+E Plus	RODRUM S 10	Manual drain cleaner 3 S	RODRUM S	









Manual / electric	Electric	Manual	Electric
Ø 20 - 70 mm	Ø 40 - 70 mm	Ø 50 - 100 mm	Ø 50 - 100 mm
10 m	10 m	15 m	15 m
10 mm	10 mm	13 mm	13 mm
-	440 W	-	440 W
223	228,229	224	228, 229

R 650	
	е



R 750







Electric	Electric	Electric	Electric	Electric	Fuel
Ø 20 - 150 mm	Ø 50 - 200 mm	Ø 70 - 250 mm	Ø 70 - 250 mm	Ø 70 - 250 mm	Ø 100 - 600 mm
65 m	80 m	60 m	80 m	100 m	140 m*
8**/10**/16/22 mm	16**/22 mm/32 mm	20 mm	22** / 32 mm	22 / 32 mm	32 mm / rod system
1,350 W	1,400 W	620 W	1,400 W	1,400 W	4,800 W
227	227	230	232	232	233



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^{**} only usable with collet, clamping jaws or adaptor magazine (see page 234) ** only usable with collet, clamping jaws or adaptor magazine (see page 234)

Flushing & pipe cleaning

Flushing

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

SERVICE 1 SERVICE 2 230 V





TECHNICAL DATA

Pipe connection: R 1" GK-Coupling Max. pipe diameter: DN 50/2" Max. flow rate: 5 m³/h 7 har Max. water pressure: Max. water temperature: 30 °C Protection class: IP 20 Oil deposition rate: 99.9%

Particle retention rate: 0.3 µm compressor

Max. operating pressure: 8 bar Engine power: 1.5 kW 230 V - 50 Hz Mains connection: Dimensions (H x W x D): 630 x 380 x 340 mm

Large LED display for flow rate amounts and metering impulse, membrane keyboard with program selection keys

Clearly arranged control panel

Ouick connect NW 7.2



For removing deposits in floor heating and radiators

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 eDM -Documentation

Professional

✓ Easy

Fast

Function switch

Enables you to change to **ROCLEAN** function

ROPULS eDM App with



ROPULS eDM with ROCLEAN function for cleaning and conservation



\ ROTHENBERGER

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

Mode ROPULS eDM flushing compressor with hoses 28 1000001134

ROPULS eDM App

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

KEY FEATURES

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













ROPULS flushing compressor

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



For removing deposits in floor heating

Clean heating systems save energy

mission 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

Enables you to change to

ROCLEAN function

Mode

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

28 **1000000145** ROPULS flushing compressor with hoses

ROPULS with ROCLEAN function: Flushing of drinking water pipes









Model No. **ROCLEAN Injector** 1000000190 Pressure regulator 2 bar ROCLEAN cleaning and conservation on page 218

1) Complete terms and conditions at rothenberger.com/roservice

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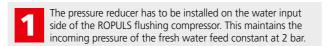


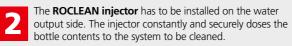


¹⁾ Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries 2) Only for Android devices

ROCLEAN function

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









0.3

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.



Cleaning and preservation st	eps:
Before cleaning	
Step 1: Mechanical cleaning	
Step 2: Chemical cleaning	_
Srep 3: Preserving	

\ ROTHENBERGER

Preservative for radiators and surface heating systems

Pressure regulator 2 bar



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



Disinfection of drinking water systems

1500000203



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



Model	Color code	$\sqrt[]{\log \Delta}$		No.
ROCLEAN injector		1.1	1	1000000190
Pressure regulator 2 bar		0.3	1	1500000203
Chemical cleaning:				
 Radiator heating system 	ems 🛑	6.3	6	1500000200
 Surface heating system 	ns 🛑	6.3	6	1500000201
Preservative		6.3	6	1500000202
Disinfection		6.3	6	1500000157

ROCAL 20 / ROMATIC 20

Decalcifying pump with flow direction change

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

Fig. ROCAL 20

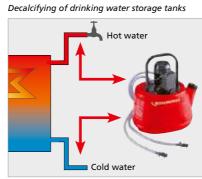


TECHNICAL DATA

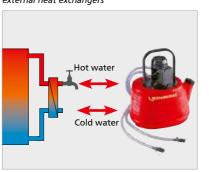
Connection: R 1/2" 15 l Tank volume: 230 V 50 Hz Power supply: Motor rating: 150 W 40 I / min. Volume flow: **Delivery height:** 10 m



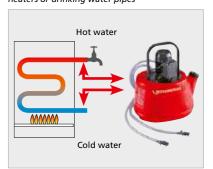




Decalcifying of fresh water stations and external heat exchangers



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 1/2-1/2", 2x double socket 3/4-3/4", 2 x reduction piece 1/2-3/4"

Model	$\Delta_{kg}\Delta$		No.
ROCAL 20	6	1	61100
ROMATIC 20	6	1	61190

ACCESSORIES







Decalcifying chemical for ROCAL 20, ROMATIC 20 see 220

230 V

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

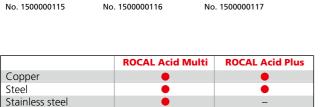
ROCAL Acid Plus

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





suitable	- unsuitable

Model	$\Delta_{kg}\Delta$	8 8	No.
ROCAL Acid Multi	5	1 4	1500000115
ROCAL Acid Multi	10	1 2	1500000116
ROCAL Acid Multi	30	1	1500000117

No. 61105	No. 61106	No.	61110
	ROCAL	Acid Multi	ROCAL Acid Plus
Aluminium		•	-
Brass		•	_

suitable	- unsuitable

Plastic

Model	$\sqrt[]{\log \Delta}$		No.
ROCAL Acid Plus	5	1 4	61105
ROCAL Acid Plus	10	1 2	61106
ROCAL Acid Plus	25	1	1500000914

Neutralizer powder

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

Product profile

RANGE OF USE

Use is necessary after ROCAL Acid Plus / ROCAL Acid Multi has been used. The neutralizer dissolves in water. The decalcification pump and system are flushed with this solution. The PH value in the system and pump is neutral afterwards.

Model	$\Delta_{kg}\Delta$	a =	No.
Neutralizer powder	1	1 5	61115
Neutralizer powder	10	1 2	61120





ROSOLAR PUMP / ROSOLAR PUMP PLUS

Solar filling pump

Product profile

KEY FEATURES

A generously dimensioned container opening For easy and secure filling

Optional: A fleece filter bag

For preservation of the internal

filter when flushing older plants

with strong pollution

- 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 spill

TECHNICAL DATA

Dimensions ($H \times W \times D$): **Container volumes:** Hoses:

30 I Length: 2 x 3 m Connections: 3/4" Heat resistant: up to 100 °C

49 x 51 x 76 cm

Height-adjustable telescopic grip (76 - 110 cm)

Small and flexible if required

Heat resistant hoses (up to 100 °C)

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

A dirt filter with sight glass

Filters residues out of the medium



ROTHENBERGER

No.

1500001235





Hose connection with



Model 1500000135 ROSOLAR PUMP (with centrifugal pump) ROSOLAR PUMP PLUS (with impeller pump) 1500000136 Fleece filter bag ROSOLAR (10 pcs.) 1500001236

Return flow cover (for filter bags)

Pipe cleaning manual

ROPUMP SUPER PLUS

Professional force pump cleaner

The optimum introduction tool for the removal of obstructions in basins, bowls, tubs and toilets etc., using water pressure

Product profile

KEY FEATURES

- Optimal 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







Model	${\textstyle \sqrt[]{\log}}$		No.
ROPUMP SUPER PLUS	2.00	1	072070X
with 2 adaptors (long, short)			
ROPUMP SUPER PLUS	3.30	1	1000001762
3 adaptors (long, short, wide) and too	lbag		
Adaptor long	0.66	1	72071
Adaptor short	0.16	1	72072
Adaptor wide	0.40	1	72073

ROPUMP



Dissolves obstructions in drains, basins, showers, bathtubs etc.

Product profile			
KEY FEATURES			
Small and handyCompact and effective			
Model	Δgδ		No.
ROPUMP with flexible socket	500	1	71991

ROSPI H+E PLUS

Professional manual and electrical drain cleaning unit

Clean and comfortable removal of obstructions in kitchen, bath, toilets or drainage openings with drain cleaning spiral

Product profile

KEY FEATURES

- Removal of sinks and siphon filters is not necessary
- Switch from manual to electrical use within seconds
- Secure hold even at higher speeds during drill operation
- Impact-resistant and protected from dirt contamination

Hexagonal drive for conventional power drills





Electrical operation with cordless drill



Model	$\Delta_{kg}\Delta$	8		No.
ROSPI 6 H+E Plus 4.5 m	1.4	1	2	72090
ROSPI 8 H+E Plus 7.5 m	3.5	1	2	72095
ROSPI 10 H+E Plus 10.0 m	4.8	1	2	72005
For spare spirals see 245				

Manual operation



Flushing & pipe cleaning

Pipe cleaning manual

A universal manual drain cleaning unit for fast clearance of obstructions. The spiral permits the attachment of a wide range of ROTHENBERGER pipe cleaning tools with 16 mm couplings

KEY FEATURES

 Additional spiral cleaning effects with the use of a square spiral



Set (No. 71973) includes: ROPOWER PROFILE spiral 2.3 m without core (No. 72494), manual crank (No. 71976), safety gloves (No. H81401), separating pin (No. 72100), blade cutter Ø 25 mm (No. 72169)

Model	$\Delta_{kg}\Delta$		No.
ROPOWER HANDY complete	1.7	1	71975
ACCESSORIES			
Manual crank	0.4	1	71976
ROPOWER PROFILE CABLE w/o plastic core	1.2	1	72494

WC-BLITZ RO-3 toilet auger

KEY FEATURES

Flexible use even in hard-to-reach places With tough cleaning bulb auger. Extendable handle and 1 m spiral length, Ø 1/2"



Model	$\Delta_{kg}\Delta$		No.
WC-Blitz RO-3 complete with spiral	2.75	1	78551
WC-Blitz RO-3 with tool coupling	2.90	1 150	00001324

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	$\overline{\Delta_{kg}\Delta}$		No.
Manual drain cleaner type 3 S, complete	17.50	1	72003
Spare spiral Ø 13 mm x 15 m	7.00	1	72016
Cross-blade cutter Ø 35 mm	0.04	1	72176
Separating pin	0.01	1	72100
Further Ø 16 mm tools can be found on	238		

Professional drain cleaning unit up to Ø 50 mm

ROSPIMATIC CL

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

- 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

TECHNICAL DATA Application range:

Spiral with inner-core &

20 - 50 mm

Bulb auger: Ø 8 mm x 7.5 m Dimensions (without spiral): 420 x 200 x 200 mm

Compact design without power unit Little required space Hexagonal take-up

for battery drill Dual use for customer's own drill

Locking knob with torque limit

No squeezing of the spiral

Patented feeding mechanism Switching between forward and reverse without stopping the machine Free-wheel clutch for hexagonal take-up

Soft roll-out of the machine without hit to user's wrist.



With bulb-auger



With coupling for various tools



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 6	⇒	No.
ROSPIMATIC CL basic unit incl. 8 mm / 7,5 m spiral		1000002298
ROSPIMATIC CL set, w. 2nd spiral+cross-blade auger	1	1000002299
Spiral 8 mm x 7,5 m, w. bulb auger and steel core	1	72413
Spiral 8 mm x 7,5 m, with coupling and core	1	72425
Tool set 8 mm (4 pcs.)	1	72942
Protection hose f. ROSPIMATIC CL	1	72542

Easy connection to professional cordless drill driver



For additional accessories see 234



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











Model	$\Delta_{kg}\Delta$	230 V	110/115 V
R 550 w/ guide hose	16.0	72686	72631
Tool sets and accessories starting on	234		

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-spirals Rating: 440 W (power input) Voltage: 230 / 110 / 115 V, 50 Hz 583 rpm, RH and LH drive Speed:

Weight: 16.0 kg

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
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 50 m, with Ø 16 mm S-spirals
- Maximum working length 60 m, with Ø 22 mm S-spirals

TECHNICAL DATA

For pipe diameters: Ø 20 - 150 mm With direct attachment: Ø 22 and 16 mm spirals With adaptor magazine: Ø 8 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) 230 / 110 / 115 V, 50 Hz Voltage:

467 rpm, RH and LH drive Speed: Weight: 20.9 kg

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 65 m with Ø 22 mm S-spirals Max. working length:

55 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals

1,350 W (power input) Rating: 230 V, 50 Hz Voltage:

623 rpm, RH and LH drive Speed:

Weight: 22.8 kg









Model	$\Delta_{kg}\Delta$	230 V
R 650 w/ guide hose	22.8	72688
Tool sets and accessories starting on 234		

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: 70 m with Ø 22 mm S-spirals

80 m with Ø 32 mm S-spirals

55 m with Ø 16 mm S-spirals Rating: 1,400 W (power input)

230 V, 50 Hz Voltage: 467 rpm, RH and LH drive Speed:

Weight: 33.5 kg



Model	$\Delta_{kg}\Delta$	230
R 750 w/ guide hose	33.5	7268
Tool sets and accessories starting on 234		



Model	$\Delta_{kg}\Delta$	230 V	110/115 V
R 600 w/ guide hose	20.9	72687	72632
Tool sets and accessories starting on	234		

% 115 V **Pipe cleaning electric**

Flushing & pipe cleaning







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

Interchangeable drum

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

- 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

KEY FEATURES

- Flexible use:
- Drum interchangeable for different pipe diameters

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

Cleanout slots and drain plug Easy and fast cleaning of the drum

2-in-1 feeding unit

Suitable for Ø 10 mm and Ø 13 mm spirals

- Feeding and pressure relief with single handle
- Clean:

BOTHENBERGER

Spiral in detachable drum

APPLICATION AREA

- Compact 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

Product dimensions:

Working range/pipe diameter: Ø 40 - 100 mm Max. working length: 10 m (with 10 mm Spirals)

15 m (with 13 mm Spirals) 440 W Power (input): Speed (drum): 300 rpm 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)

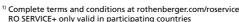
ACCESSORIES

Model	$\Delta_{kg}\Delta$	No.
RODRUM S 10 Drum RODRUM S 13 Drum Tool kit 16 mm	5.5 11.4 5.5	1000001275 1000001276 1000001308
Spirals, Drain cleaning tools 236		









Rubber feet

No damage to the floor

ROTHENBERGER

Pipe cleaning electric

Flushing & pipe cleaning

RODRUM M&L

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.

Product profile

KEY FEATURES

Loading device

Spiral protection

by releasing the lever

Rubber feed No damage of the floor

Model

RODRUM M 13

Fast tension relief from the

spiral to prevent damage just

• Interchangeable drums for quick and easy adaption to different pipe diameters without use of any tool

ROTHENBERGER

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 & L is a drum drain cleaning machine with
- Due to the interchangeable drums the machine can be adapted
- 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,

Power (input): 620 W Speed (drum): 270 r/min. **Product dimensions:** 77 x 56 x 87 cm

Interchangeable drum

Ø 13. 16. 20 mm spirals

3-in-1 feeding unit

No retrofitting neccessary



automatic spiral feed for removal of blockages in pipes from

110 V 230 V

- to different pipe diameters quickly without usage of any tools
- as well as public buildings like hotels or restaurants

TECHNICAL DATA	
Working range/pipe diameter:	Ø 70 - 250 mm
Max. working range:	30 m (with 13-mm-Spirals)
	45 m (with 16-mm-Spirals)
	60 m (with 20-mm-Spirals)
Dower (input):	620 W

Fast change between

Cleaning slots

Easy and fast cleaning of the drum

230 V

50 Hz

1000001711

1000001712

1000001713

1000001714

 $\Delta_{kg}\Delta$

45.5

50.2

68.0

for different spiral diameters

Interchangeable drums for adaption of the



RODRUM M & 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	$\sqrt[4]{\log \Delta}$	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. 2 x spirals 16 mm x 15 m	38.7	1000001729
RODRUM drum L 20 incl. spiral 20 mm x 20 m	36.8	1000001730

Model

Forked cutter 80, 20 mm*

Forked cutter 100, 20 mm*

Spiral 13x15 with inner core

Spiral 16x15 with inner core

RODRUM tool kit 20 mm

square coupling RODRUM tool kit 16 mm

Two-way root cutter 65, 20 mm*

Two-way root cutter 90, 20 mm*

Spiral 20 mm x 20 m w. inner core &

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*	0.10	1500002262

×	all 20	mm	auners	with	square	coupling
	all ZU	111111	auyers	VVILII	Square	Coupilliq







No. 1500002255

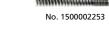


No. 1500002258



Adaptor, square-coupling to 22 mm T-coupling 0.25 **1500002267**

No. 1500002257





No. 1500002256



 $\Delta_{kg}\Delta$

15.5

0.15 **1500002263**

0.20 1500002264 0.39 **1500002265**

0.46 1500002266

10.8 1500002271

33.5 **1500002268**

72918

1000001731

1000001732



No. 1000001731

Loading device



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)

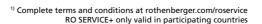
Set (No. 1000001732) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), bulb auger (No. 1500002255), cross-blade cutter (No. 1500002259), forked cutter (No. 1500002263),

Cleaning of a down pipe with 16 mm spiral





spirals 13 mm x 15 m, incl. 16 mm tool kit spirals 16 mm x 15 m, incl. 16 mm tool kit



spirals 16 mm x 15 m, incl. 16 mm tool kit RODRUM L 20 spirals 20 mm x 20 m, incl. 20 mm tool kit

Pipe & sewer cleaning machines

Industrial pipe and drain cleaning machines

For continuous industrial use in pipe and drain cleaning Ø 50 - 600 mm

Ideal for use in the following sectors: private households, pipe networks in industry, municipal enterprises, maintenance organisations, hotels, hospitals, for underground pipes, industrial pipelines, drains, roof drainage etc.

- Extremely powerful, very resilient, for continuous industrial use
- Steel tubular frame with side elements made from fibreglass-reinforced polyamide
- Stable, dismountable and corrosion-resistant designs
- Secure and radial clamping, optimal power transmission and functional reliability, simple replacement of clamping jaws
- Reinforced guide hose with quick coupling ensures the safe and kink-free guiding of the spiral and prevents contamination of the working area.

R 80

One-man professional machine for pipes Ø 50 - 250 mm

Product profile

KEY FEATURES

- Small, compact design permits the machine to pass through doorways
- Portable and easy to navigate stairs
- Transports easily in any service vehicle, collapsible
- Ideal for manhole inspections through defined working height
- Fatigue-free clamping when working with large spiral diameters and lengths
- Integrated, spacious toolbox

TECHNICAL DATA

For pipe diameters: Ø 50 - 250 mm

For drain cleaning spirals: Ø 22 and 32 mm (32 mm clutch jaws standard)

Max. working length: 80 m with Ø 32 mm S-spirals

70 m with Ø 22 mm S-spirals

Rating: 1.4 kW (1.9 HP) RH / LH rotation

Weight: 52 kg



Includes: basic machine, grease gun (No. 855156), allen keys (1 x No. 321515, 1 x No. 321188, 1 x No. 321189), open-ended spanners (1 x No. 310411,

Model	$\sqrt[]{\log \Delta}$	230 V 50 Hz
R 80 basic machine	52.0	72585

R 100 SP

One-man professional machine for pipes Ø 50 - 250 mm

Product profile

KEY FEATURES

- Ideal for confined spaces such as skylights or ducts
- Portable and easy to navigate stairs
- Adjustable working heights, foldable
- Extendable supporting feet
- Transports easily in any service vehicle

TECHNICAL DATA

For pipe diameters: Ø 50 - 250 mm Ø 22 and 32 mm For drain cleaning spirals:

Max. working length: 100 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals Rating: 1.4 kW (1.9 HP) RH / LH rotation 57 kg

Weight:

R 80 / R 100 SP - ACCESSORIES	$\sqrt[]{\log \Delta}$	No.
Guide hose FS 32 / 4 m Clutch jaws R 80 / 100 SP for 22 mm-Spirals Clutch jaws R 80 / 100 SP for 32 mm-Spirals	4.1 0.4 0.3	72559 72561 72562
Spirals and accessories see 234		



Includes: basic machine, grease gun (No. 855156), allen key (No. 321515), open-ended spanners (No. 310450)

Model	$\Delta_{kg}\Delta$	230 V 50 Hz
R 100 SP basic machine	57 N	72610

R 140 B

KEY FEATURES

For municipal and industrial applications Ø 100 - 600 mm

Product profile

Working range from Ø 100 - 250 mm with 32 mm spirals

• Effortless conversion from spiral to rodding operation

• Petrol engine, independent from electric power supply

Working range from Ø 150 - 600 mm with rod

Speed controlled by means of a manual throttle

With quick-change couplings for rodding tools

Ideal for rodding work in rural area pipes

Extremely powerful reversible drive

• 1 forward and 1 reverse gear

Manual slip clutch

Product profile

Flushing & pipe cleaning

Petrol engine 4,8 kW

TECHNICAL DATA

For pipe diameters: Ø 100 - 600 mm For drain cleaning spirals: Ø 32 mm Ø 6 mm, 3/4"

Max. working length: 100 m with 32 mm-spirals

140 m with rod

4.8 kW (6.6 HPS), petrol engine Rating: Motor: RH / LH rotation

2 gear reversible drive speed: 160 - 600 rpm

Weight: 97 kg

Guide hose Protection from damages and pollution of the surrounding Wide range of accessories Toolbox High flexibility for different jobs Storage for further accessories Integrated brake Safe stand of the machine Set includes: 25 x adaptor 3/4", 6 mm x 1,5 m (No. 78581), rod turning grip (No. 78580), tool adaptor for mounting 32 mm spirals (No. 72122), tool adaptor for 32 mm spiral rod coupling (No. H99569), rod tool adaptor (No. H99120), guide glove, left (No. 72120), guide glove, right (No. 72121), separating pin (No. 72101), funnel

auger (No. 72322), straight auger (No. 72321), bulb auger, 32 mm (No. 72363), retrieving auger, 32 mm (No. 72325), spiral sawtooth cutter, 32 mm (No. 72329), cross-blade cutter, 32 mm (No. 72374), forked cutter, D=76 mm (No. 72350), forked cutter, D=112 mm (No. 72351), toolbox (No. 402312), allen key, AF 3 (No. 321118), allen key, AF 4 (No. 321189), allen key, AF 5 (No. 321190), open-ended spanners, SW 10/13 (No. 310450), open-ended spanners, SW 17/19 (No. 310411)

Model	$\sqrt[b]{\log \Delta}$	No.
R 140 with rod and tool set	108.50	72971
R 140 basic machine	97.00	72970
Push rod 3/4", Ø 6 mm, 1.5 m	0.25	78581
Funnel auger	0.25	72322
Straight auger	0.25	72321
Rod truning grip	0.56	78580
Retrieving auger	0.10	72325
Spiral sawtooth cutter	0.15	72329
Guide glove, left	0.21	72120
Guide glove, right	0.21	72121

Model	$\Delta_{kg}\Delta$	No.
Separating pin	0.20	72101
Adaptor for 32 mm augers	0.10	72122
Forked cutter, Ø 76 length		72350
Forked cutter, Ø 112 length		72351
Guide hose FS 32 / length 4 m	4.10	72559
Standard 32 mm, spiral and tool set	41.00	072962X
More accessories see 234		

Scope of delivery

(No. 72971)

Flushing & pipe cleaning

Accessories pipe cleaning electric

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	$\sqrt[]{\log \Delta}$	No.
R 600/650	8 mm	10 m	1.8	72514
R 600/650	10 mm	10 m	1.8	72515





For machine type	For spirals-Ø	δ_{kg}	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	$\overline{\Delta_{kg}\Delta}$	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



Ceramic protection hose

- For the protection of ceramic
 - With adjustable holding clamp

For spirals	Length	${\textstyle \sqrt[]{\log}} {\textstyle \sqrt[]{\log}}$	No.
Ø 8, 10, 16 mm	540 mm	0.4	72705



Tripod stand

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: 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

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

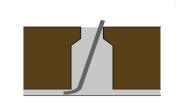
Model	$\sqrt[]{kg} \Delta$	No.
Spiral retrieving device	3.7	72135



Telescoping guide tubes

• No twisting: For safe spiral guidance in manholes and manhole covers

Model	Extended length m	Type	$\sqrt[]{\log \Delta}$	No.
For spirals Ø 16, 22 i	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





 $\Delta_{\mathsf{q}}\Delta$

220 **72142**

5,100 **72140**

Contents

0.2 |

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	$\sqrt[]{g}$	No.
Guide gloves left, leather	190	72120
Guide gloves right, leather	190	72121
Guide gloves (pair), rubber	160	1500000439

Separating pin

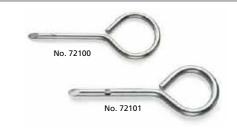
Model

Spray can

Plastic canister

• For disconnecting spirals and spiral tools

Model	Δgδ	No.
For spirals / tools with Ø 16 mm	20	72100
For spirals / tools with Ø 22 and 32 mm	30	72101
For spirals / tools with Ø 8 mm	15	72102



Spiral baskets

- Safe storage combined with convenient transport
- Perfectly suited for cleaning and preservation

1.3	72110
1.6	72112
2.3	72111
	1.6









ROTHENBERGER high-performance drain cleaning spirals

For the toughest demands during continuous operation

Product profile

KEY FEATURES

- Bevelled lead-ins on the T-groove coupling
- Quick, trouble-free coupling even when wearing gloves
- For the toughest demands even during continuous operation Different wire gauge can be chosen depending on use, high material characteristics, perfected production process
- Maximum spring tension with high elasticity and flexibility Specially hardening process
- Optimum high torque transmission Tightly wound spiral with short pitch
- Increased spiral tension when machine turns clockwise and depending on the resistance of the obstruction Professional left-handed wound spiral

TECHNICAL DATA

Manufactured from quality spring steel, type C DIN EN 10270-1 Material No. 1.1200

Specially hardened and tempered

Safety T-groove coupling system with NIROSTA- pressure pin locking mechanism

Spring mounted NIROSTA pressure pin with NIROSTA spring



Sufficient connecting coil



Various wire gauges

Flexible, depending on use

Insertion taper

Simple coupling of spirals and tools



ROPOWER profile cable

Additional cleaning effect with the squared profile

Spiral won't clog with dirt



T-groove made of Nirosta steel

Long lasting and high functional safety with the high-quality coupling design

Spiral / type	Short distance many bends	Long distance straight run	No clogging of the spiral with dirt	Additional cleaning power
Standard spiral	•	0	0	0
SMK-spiral	•	0	•	0
S-spiral	0	•	0	0
S-SMK-spiral	0	•	•	0
ROPOWER profile	0	•	•	•

O not suitable suitable

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
- No clogging of the spiral with dirt
- Especially suitable for working over long distances

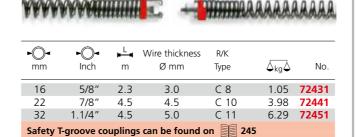


50% more cleaning power when used with the spiral tools

► O•	Core	► O⊲ Inch	m L	$\overline{ \triangle_{kg} \triangle}$	No.
16	•	5/8"	2.3	1.3	72490
Safety T-groove	couplings can be	found or	245		

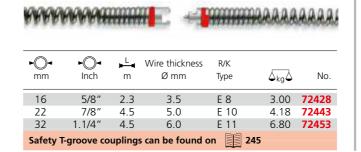
Standard spirals

• Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



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,



ROTHENBERGER lockring

One-of-a-kind safety ring for the optimum transmission of the torque pressure onto the coupling with 100% surface pressure

KEY FEATURES

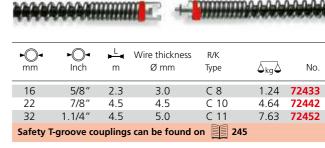
- Self locking connection of spiral and coupling: With increased stress on the spiral, the torque pressure on the spiral end is increased and is transferred with 100% surface coverage onto the coupling.
- Safety ring made out of flexible and self-binding material: With increased stress the ring will not slide, rather because of the 100% surface pressure, it adjusts itself to positively lock onto the
- Optimum force transmission for professional pipe cleaning
- Increased safety
- Increased durability / service life of the spiral





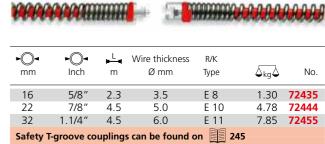
SMK-spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends
- Additional protection of the spiral from clogging with the plastic core



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,
- Additional protection of the spiral from clogging with the plastic core



Drain cleaning tools

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

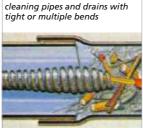
- Ø 16 mm 5/8"
- Ø 22 mm 7/8"
- Ø 32 mm 1.1/4"

See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

Bulb auger







The most common tool for

With lockring

Retrieving auger





Cross-blade cutter, serrated

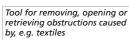


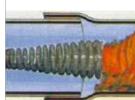




Funnel auger



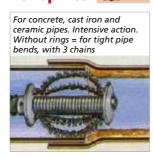




Chain-spinning head with spikes 241

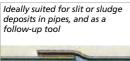


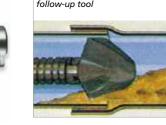




Spade head cutter







Carbide-tipped cutters





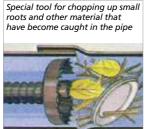


This carbide-tipped tool is used

Spiral sawtooth cutter



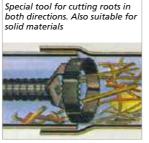




Two-way root cutter







Bulb auger, long

• With the longer, more flexible range the bulb auger is considerably more flexible in curves. Pipe from Ø 40 mm





Coupli mm / I	_	▶ ○	<mark>L</mark> 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	p ∟ mm	Working range mm	Δgδ	No.
16 / 5/8"	16	110	40 - 75	60	72161
22 / 7/8"	22	210	75 - 100	170	72221
32 / 1.1/4"	32	220	100 - 250	350	72321

Funnel auger

- For removing or opening up obstructions caused by textiles or paper
- Large grasping ability can also be used to retrieve spirals from drains



Coupling mm / Inch	mm	<mark>⊫ </mark>	Working range mm	ΔgΔ	No.
16 / 5/8"	32	110	50 - 100	80	72165
22 / 7/8"	55	185	110 - 150	280	72222
32 / 1.1/4"	60	195	100 - 250	500	72322

Bulb Auger, short

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions



Coupling mm / Inch	mm	<mark>⊢L</mark> mm	Working range mm	\sqrt{g}	No.
16 / 5/8"	28	115	40 - 75	70	72163
22 / 7/8"	40	180	75 - 100	220	72263
32 / 1.1/4"	50	220	75 - 250	490	72363

Retrieving auger

• Special tool designed with a claw for retrieving textiles, tools, spirals etc.



Coupling mm / Inch	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	► O -	<mark>⊩</mark> mm	Working range mm	Δgδ	No.
16 / 5/8"	24	83	50 - 75	60	72159
22 / 7/8"	37	125	60 - 100	180	72264

Drain cleaning tools

Flushing & pipe cleaning

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	► O	<mark>⊩L</mark> mm	Working range mm	ΔgΔ	No.
16 / 5/8"	40	40	50 - 75	30	72154
16 / 5/8"	30	40	50 - 75	20	72164

Standard tool for removing grease and other soft deposits, e.g. soap accumulations

Grease cutter

Coupling mm / Inch	► mm	<mark>L </mark> mm	Working range mm	Δgδ	No.
16 / 5/8" 16 / 5/8" 16 / 5/8"	25 35 45	35 45 56	40 - 75 50 - 75 60 - 100	30 40 50	72169 72170 72171
22 / 7/8"	45	60	60 - 125	80	72234

Spade head cutter

Curved special tool for silt and sludge deposits

Coupling mm / Inch	mm	<u>L</u> mm	Working range mm	Δgδ	No.
22 / 7/8"	65	65	100 - 150	150	72261
32 / 1.1/4"	65	70	100 - 150	250	72360



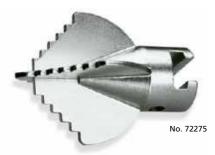
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Spiral sawtooth cutter

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

Coupling mm / Inch	► mm	mm	Working range mm	∑ _g ∆	No.
16 / 5/8"	35	25	50 - 75	40	72166
22 / 7/8"	45	40	75 - 100	100	72229
32 / 1.1/4"	65	55	75 - 100	210	72329

- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK-spirals!



Cross-blade cutter, serrated

- Powerful combination tool for grinding up and removing solidified obstructions
- For coarse removal of incrustations
- As preparatory tool for chain spinning

Coupling mm / Inch	► mm	<mark>L</mark> mm	Working range mm	ΔgΔ	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

Chain-spinning heads without ring and without spikes

Coupling mm / Inch	► mm	mm	Working range mm	Δgδ	No.
Without rin	ng, with 2 cha	ins			
16 / 5/8"	30	105	50 - 125	120	072185F
16 / 5/8"	30	155	100 - 125	160	72185
22 / 7/8"	50	170	100 - 150	530	72284
Without rir	ng, with 4 cha	ins			
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>⊩L⊣</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

► O•	mm	Working range mm	Δgδ	No.
, with 2 ch	nains			
30	155	50 - 125	160	72186
50	170	100 - 150	860	72278
, with 4 ch	nains			
40	155	75 - 125	280	72188
60	170	100 - 150	880	72299
80	220	100 - 200	1,460	72348
	, with 2 ch 30 50 , with 4 ch 40 60	with 2 chains 30 155 50 170 with 4 chains 40 155 60 170	mm mm mm , with 2 chains 30 155 50 - 125 50 170 100 - 150 , with 4 chains 40 155 75 - 125 60 170 100 - 150	mm mm mm $\frac{1}{\sqrt{g}}$ with 2 chains 30 155 50 - 125 160 50 170 100 - 150 860 with 4 chains 40 155 75 - 125 280 60 170 100 - 150 880





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	$\delta_g \delta$	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	► ○	⊩L 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	mm	⊩L mm	Working range mm	Δgδ	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	\sqrt{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

With lockring

Flushing & 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

Tool set S

Ø 16 mm, 5 pieces







Set (No. 72937) includes: separating pin 16 mm (No. 72100), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16 mm (No. 72169), crossblade cutter 16 mm (No. 72175)

Model	No.
16 mm tool set S (R 550, R 600, R 650)	72937

Tool set L



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

Model	No.
22 mm tool set L (R 600 R 650 R 750)	72938

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

Accessories pipe cleaning spirals

Spiral and tool sets

Standard Ø 16 mm













Set (No. 072945X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), 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	${\textstyle \sqrt{\log}} {\textstyle \sqrt{\log}}$	No.
Standard 16 mm	with standard spirals	12.0	072945X

Spiral and tool sets Standard Ø 16 / 22 mm







Set (No. 072956X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), 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	$\sqrt[]{\log \Delta}$	No.
Standard 16 - 22 mm	with standard spirals	38.0	072956X
SMK 16 - 22 mm	with SMK-spirals	39.0	072967X

Spiral and tool sets

THEORY THEORY IN THE PROPERTY OF THE PROPERTY

Standard Ø 22 mm

Manner Manner









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	072955)

Spiral and tool sets

Standard Ø 32 mm











Set (No. 072962X) includes: spiral basket 32 mm (No. 72111), 5 x 32 mm standard spirals (No. 72451), straight auger 32 mm (No. 72321), retrieving auger 32 mm (No. 72325), funnel auger 32 mm (No. 72322), spade head cutter 32/65 mm (No. 72360), spiral sawtooth cutter 32/65 mm (No. 72329), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\sqrt[]{\log \Delta}$	No.
Standard 32 mm	with standard spirals	37.0	072962X

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
- The wire diameter with an 8 mm spiral averages Ø 2 mm, and with 10 mm spirals Ø 2.5 mm
- Easy to use, even in tight bends, especially with 8 mm spirals also directly through sink strainers, crosses and drains without having to disassemble the drain or stench tap

mm	■ Wire Ø	m	Туре	Steel core	Use for ROSPI	$\sqrt[]{\log \Delta}$	No.
6.4	2 mm	4.5	-	-	R 6	0.8	72522
8	2 mm	7.5	C 1	-	R 8-R36	1.8	72412
8	2 mm	7.5	C 1 - IC		R 8-R36	2.3	72413
8	2 mm	10.0	-	-	R 8-R36	2.4	72414
8	2 mm	10.0	-		R 10 - R 36	3.0	72415
10	2.5 mm	10.0	C 5	-	R 10 - R 36	3.5	72422
10	2.5 mm	7.5	C 4	-	R 10 - R 36	2.9	72420
10	2.5 mm	7.5	C 4 - IC	•	R 10 - R 36		72424
10	2.5 mm	7.5	-		R 10 - R 36		72421*
10	2.5 mm	7.5	-		R 10 - R 36	2.9	72423*
*with T	-groove co	upling					



Reducing / extension pieces

For spirals with T-coupling

Model

Extension piece

Reducing piece

Extension piece

Reducing piece

Within limits, tools with larger or smaller lead-ins can also be adapted

negative

16 mm

22 mm

22 mm

32 mm

positive

16 mm

32 mm

22 mm

150

320

330



72460

72463

72462

Extension piece

Reducing pie
-
No. 72460

Safety T-couplings

16 mm 22 mm Mode 5/8" 7/8" for Standard and SMK-spirals 20 72150 72210 positive 72211 negative 20 72151 40

Fixing of broken spirals!

for Standard and SMK-spirals



No. 72210 No. 72211

High-pressure drain cleaning

High-pressure drain cleaning









Operation mode:	230 V	230 V	400 V	Fuel
Max. pipe diameter:	Ø 150 mm	Ø 150 mm	Ø 200 mm	Ø 200 mm
Max. working length:	10 m	20 m	40 m	40 m
Max. pressure:	90 bar	100 bar	190 bar	180 bar
Pump delivery:	11 l/min	13 l/min	17 l/min	19 l/min
Power:	1,500 W	2,300 W	5,000 W	8,100 W

230 V

HD 11/90

Self-priming compact unit from Ø 40 - 150 mm up to 10 m length





KEY FEATURES

- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

TECHNICAL DATA

Max. operating pressure: 90 bar Electric motor: AC supply Pump delievery: 11 l/min 1.5 kW Rating: Max. working length: 10 m 1,400 rpm Speed:

Scope of delivery: HD 11 / 90 (No. 76008), 10 m special high-pressure hose (No. 72810), pipe cleaning nozzle (No. 76053)

Model	$\Delta_{\text{kg}}\Delta$	230 V / 50 Hz
High-pressure pipe cleaning unit HD 11 / 90	29.5	76008

HD 13/100

100 bar high-pressure pipe cleaning unit with hose reel



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 Rating: 2.3 kW 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)

Model	$\sqrt[]{\log \Delta}$	230 V/50 Hz
High-pressure pipe cleaning unit HD 13/100	45.0	76020

HD 17/190

190 bar high-pressure cleaner with three-phase motor

Ø 200 mm



KEY FEATURES

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

TECHNICAL DATA

Max. operating pressure: 190 bar Electric motor: Three phase Pump delivery: 17 l/min Rating: 5.0 kW Max. working length: 40 m Speed: 2,800 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)

Model	$\sqrt[]{\log \Delta}$	400 V / 50 Hz
High-pressure pipe cleaning unit HD 17 / 19	0 50.0	76070

HD 19/180 B

180 bar high-pressure cleaner with petrol engine

Ø 200 mm

With petrol engine



KEY FEATURES

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

TECHNICAL DATA

8.1 kW Max. operating pressure: 180 bar Rating: 19 l/min Speed: Pump delivery: 1,800 rpm Max. working length: 40 m Petrol engine: Honda Tank capacity: Consumption: 3.2 l/h

Scope of delivery: HD 19 / 180B (No. 76090), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76053)

Model	$\Delta_{kg}\Delta$	No.
High-pressure pipe cleaning unit HD 19 / 180 B	78.5	76090

ACCESSORIES HD 11/90



	- kg	
Flexible, high-pressure hose with R 1/4" coupling,	DN 6	
Length 10 m	2.50	72810
Length 20 m	4.50	72812
Pipe cleaning nozzle, R1/4", stainless steel	0.04	76053
excl. forward jet spray, 4 holes, Ø 25 x 22 mm		
incl. forward jet spray, 5 holes, Ø 25 x 22 mm	0.04	76063
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77503
Cleaning lance with wide-angle nozzle	1.30	76073
for surface cleaning		
Injector suction pipe for cleaning agent,	0.05	76067
only for use with cleaning lance, length 1.2 m		
Water suction hose	0.20	76066
for intake from containers, length 3.0 m		

ACCESSORIES HD 13/100 - 17/190 -19/180



Model	$\Delta_{kg}\Delta$	No.
Flexible, high-pressure hose with R 1/4" coupling		
Length 10 m, NW 6 (HD 13/100, HD 17/190)	2.50	72810
Length 20 m, NW 6 (HD 13/100, HD 17/190)	4.50	72812
Length 40 m, NW 8 (HD 17/190, HD 19/180 B)	10.70	72820
Pipe cleaning nozzles R1/4", stainless steel	0.04	76089
excl. forward jet spray, 4 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
Injector suction pipe for cleaning agent	0.05	76067
only for use with cleaning lance, length 1.2 m		
Water suction hose, length 3.0 m	0.20	76066
for intake from containers		





Plastic pipe welding

System overview

System overview



Suited for:	PE, PP, PVC, PEX, PVDF, PB***	PE, PP, PVC, PEX, PVDF, PB***	PE	PE
Outer pipe diameter:	Ø 32 - 110 mm	Ø 110 - 160 mm	Up to Ø 125 mm	Up to Ø 225 mm
Wall thickness:	Up to max. 16 mm*	Up to max. 16 mm*	Up to max. 11,4 mm	Up to max. 18 mm
Operation mode:	Manual	Manual	Manual	Manual
Function:	Cutting, chamfering	Cutting, chamfering	Cutting	Cutting
Page	252	252	254	254

Butt welding						
	Heating element HE 120	Heating element HE 200	Heating element HE 300			
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:	-	-	-			
Operation mode:	-	-	-			
Page	255	255	255			

Electrofusion welding						
	ROFUSE Sani 160 / 315	ROFUSE 400 TURBO	ROFUSE 1200 TURBO			
Suited for:	PE	PE, PP	PE, PP			
Outer pipe diameter:	Up to Ø 160 / 315 mm	Up to Ø 400 mm	Up to Ø 1,200 mm**			
Fitting type:	Fittings for drainage pipe systems	Fittings for pressure pipe systems	Fittings for pressure pipe systems			
Voltage:	230 V	8 - 48 V	8 - 48 V			
Documentation:	-	✓	✓			
Page	259	260	260			

Cutting			Socket welding	
ROCUT XL 315		ROCUT UKS 160 / 355	ROWELD P 63-S6	ROWELD P 125
Suited for:	PE	PE, PP, PVC	PE, PP	PE, PP
Outer pipe diameter:	Up to Ø 315 mm	Ø 160 - 355 mm	Ø 32 - 63 mm	Ø 16 - 125 mm
Wall thickness:	Up to max.18 mm	Up to max. 40 mm	-	-
Operation mode:	Manual	Electrical	Manual	Manual
Function:	Cutting	Cutting	Socket welding	Butt welding, socket welding
Page	254	254	256	255

Butt welding manual						
	ROWELD P 110	ROWELD P 160	ROWELD P 250 A			
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:	SDR see technical data	SDR see technical data	SDR see technical data			
Operation mode:	Manual	Manual	Manual			
Page	262	264	266			

Butt welding hydraulic						
	ROWELD type Professional	ROWELD type Premium	ROWELD type Premium CNC			
		THE H PARTY OF THE	CHAPTER AND PRINTERS.			
Suited for:	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF			
Outer pipe diameter:	Ø 40 - 1200 mm	Ø 90 - 630 mm	Ø 90 - 630 mm			
Operation mode:	Manual	Semi-automatic	Automatic CNC controlled			
Voltage:	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz			
Documentation:	-	✓	✓			
Page	268	269	270			

Cutting

ROCUT 110 / ROCUT 160

Cutting and chamfering tool for right-angled cutting and chamfering (15°), Ø 32 - 160 mm

GENERALISEE

Product profile

APPLICATION AREA

Suitable for thin and thick-walled PVC, PE, PP, PEX, PB and PVDF pipes, as well as sound-insulated drain pipes. Utmost precision in a single operation

KEY FEATURES

- Only one tool required for cutting, chamfering and deburring
- Extremely long service life with optimum cutting geometry
- Special accessories for PE, PP, PEX, PB and sound-insulated pipes

KEY FEATURES

- Uniform chamfering of the entire pipe circumference
- Continuously adjustable pipe clamping pressure
- Integrated internal deburrer is stored in the handle
- Pipe cutting also possible without chamfering, as cutter blade shaft can be mounted with 180° offset

TECHNICAL DATA

ROCUT 110: Ø 32 - 110 mm **ROCUT 160:** Ø 110 - 160 mm



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) in plastic carrying case (No. 55016)



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), plastic carrying case (No. 55017)



Handheld operation

Clamping in a parallel vice

Model	Working range Ø mm	$\Delta_{kg}\Delta$	No.
ROCUT 110 set	50, 75, 110	3.9	55035



ROCUT 160 with cutter blade



Model	Working range Ø mm	$\Delta_{kg}\Delta$	N
ROCUT 160 set	110, 125, 160	5.6	5506

ACCESSORIES

Model	\sqrt{g}	No.
Cutter blade for internal deburrer	10	21652
Plastic carrying case for ROCUT 110	850	55016
Plastic carrying case for ROCUT 160	1,400	55017
Internal deburrer with blade	150	55018
You'll find clamping jaw sets on 253		









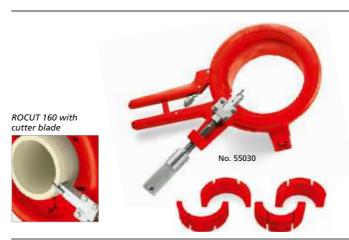
ROCUT 110 with

cutter wheel (No. 54950) (special accessories)

ROCUT 110 Basic unit Ø 32 - 110 mm

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

Model	► mm	ΔgΔ	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	ni-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	► O -	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 semi-c	ircular segm	ients)	



No. 55029 No. 55019

HM cutter clade inserts

ROCUT 110 and ROCUT 160

Model	Cutting depth m	ım $\sqrt[]{g}$	No.
Cutter blade shaft with	7.5	110	54960
Automatic copying and HM cutt	er blade insert	S	
Cutter blade shaft with	12.5	120	54961
Automatic copying and HM cutt	er blade insert	S	
Spare HM cutter blade insert for	7.5	10	55029
Cutting and chamfering 15°			
Spare HM cutter blade insert for	12.5	20	55019
Cutting and chamfering 15°			





Cutter wheels

ROCUT 110 and ROCUT 160

Model	Cutting depth mm	$\sqrt[]{g}$	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

Socket welding

Heating spigots /

Heating sockets

Adaptor plate

230 V 115 V 110 V

ROCUT UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm

Product profile

APPLICATION AREA

For cutting of plastic pipes made of PE, PP and PVC. For use on the building site or in the workshop

KEY FEATURES

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

TECHNICAL DATA

Voltage: 230 V, 50/60 Hz 1,750 W 160 - 355 mm Outer pipe diameters: Wall thickness pipe: 8 - 40 mm

Transport box without saw (No. 1200000526)



Four rubberised clamping & guide rollers with no misalianment



Secure clamping and optimum pipe centring are guaranteed by clamping device





Model	$\Delta_{kg}\Delta$	No.
ROCUT UKS 160 / 355, complete with HM saw blade (No. 55505), without transpor		1000000532
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

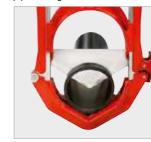


Model	mm	inch	Wall thickness	No.
ROCUT XL	125 up to 125 mm	4"	max. 11.4 mm	1500000789
ROCUT XL 2	225 up to 225 mm	8"	max. 18 mm	1500000790
ROCUT XL 3	315 up to 315 mm	12"	max. 18 mm	1500000792

KEY FEATURES

- Can be easily adjusted anywhere at the pipe
- Robust blade made of stainless steel

An optimised cutting angle for easier can be used at any desired position pipe cutting





The lower clamp can be folded out

completely. Therefore, ROCUT XL

Replacement blade

Scope of delivery: 1 replacement blade + fastening screws

Model	$\Delta_{ m kg}\Delta$	No.
For ROCUT XL 125	0.3	1500000793
For ROCUT XL 225	0.7	1500000794
For ROCLIT XI 315	2.1	1500000795

ROWELD P 125

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

APPLICATION AREA

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table

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
- Electronic temperature control and monitoring, as well as
- Saves time and money with quick-exchange system for
- 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	$\Delta_{kg}\Delta$	230 V 50/60 Hz
P 125 P 125 set			electronically electronically	3.10 17.05	55321 55546

Product profile

- and manufactured according to DVS regulations
- prevention against unintentional temperature adjustment
- heating plates



Heating spigots / Heating sockets (Form A)

		_	-		
Model	$\sqrt[]{\log \Delta}$	No.	Model	$\sqrt[b]{\log \Delta}$	No.
16	0.06	55585	40	0.26	55592
17	0.06	55586	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

No. 55321

ROWELD HE heating plates

Heating plates for butt welding of PE, PP, PVDF and PB pipes and fittings with Ø 20 - 250 mm

Product profile

APPLICATION AREA

Plastic pipe heating plates for free-handed working or workbench assembly using table mounting clamp

KEY FEATURES

- Long service life and manufactured according to DVS regulations
- Process reliability with the temperature control according to DVS, CEN and ISO standards
- Electronic temperature control and monitoring as well as prevention against unintentional temperature adjustment
- Save time and money with quick-exchange system for heating plates





Power watts	Heating eleme Ø mm	nt Control Model	$\overline{\triangle_{kg}\triangle}$	230 V 50/60 Hz	110/115 V 50/60 Hz
500	120/45°	electronically	1.80	55518	55517
800	200	electronically	3.25	55316	55851
1,500	300	electronically	5.35	55317	55854
Table moi	unting clamp		0.45	55524	55524

		ACCE	SSORIES		
Model	$\sqrt[]{\log \Delta}$	No.	Model	$\sqrt[]{\log \Delta}$	No.
Table mounting clamp for P 125 Adaptor plate for butt welding ROWELD P 125 Ø			Floor stand for ROWELD P 125 ocs.) non-stick Teflon coating	0.44 1.15	55539 55536

Plastic pipe welding

Socket welding

Socket welding

ROWELD P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm

Product profile

APPLICATION AREA

Socket welding unit for use with heating spigots and heating sockets Ø 20 - 63 mm with three simultaneously usable combinations for welding sockets, pipes and fittings up to Ø 63 mm

KEY FEATURES

- Increased flexibility and combination options for every day use
- Long service life and according to DVS regulations
- All important information at a glance
- Safe operation with the temperature control as per DVS regulations







KEY FEATURES

- Light and handy for fatigue-free use
- Simple to use even in confined spaces
- Floor stand is available at all times

TECHNICAL DATA

Voltage:

Power: 800 W

Model: Thermostatic or electronically controlled

110/115 V, 50/60 Hz

Pipe diameter: For sockets, pipes and fittings

from Ø 20 - 63 mm 230 V, 50/60 Hz

Control lamps for controls and intervals

All important information at a glance

temperature control and monitoring Process safety thanks to temperature control according to DVS

Temperature selector switch for electronic

CROTHENBERGER

Unit safety

Heating spigots and heating bushes (Ø 20 - 63 mm) with high-quality PTFE-anti-stick-covering

3 holes for mounting heating spigots

Increased flexibility and combination

and heating bushes

options for every day use

Long service life and according to DVS regulations



Isolator prevents heat

transport to the case

Efficient heat protection

Heating plate with an especially narrow sword form

Simple to use even in confirmed spaces

Floor stand is always available when needed

Unit has an integrated and retracable floor stand

ROWELD P 63 S-6 Sword sets

P 63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws, table mounting clamp, loor stand, plastic carrying case



Fig. P 63 S-6, thermostatically controlled

Electronically controlled for a constant temperature!



Fig. P 63 S-6, electronically controlled

Model	Working range Ø mm	Power watts	Description	$\sqrt[]{\log \Delta}$	230 V	110/115 V
P 63 S-6 set	20, 25, 32	800	thermostatic	4.30	053892X	053894X
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	thermostatic	5.30	053893X	1000001245
P 63 S-6 set	20, 25, 32	800	electronically	4.30	053890X	
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	053891X	
P 63 S-6 single unit		800	thermostatic	1.78	053897X	1000001270
P 63 S-6 single unit		800	electronically	1 78	053896X	

P 63 S-6 set thermostatically controlled





Heating spigots & sockets (Form A) for P 63 S-6

With high-quality non-stick Teflon coating with a long service life and manufactured according to DVS regulations

Working range Ø mm	ΔgΔ	No.
20	80	53511
25	100	53512
32	170	53513

Working range Ø mm	\sqrt{g}	No.
40	260	53514
50	370	53515
63	600	53516



PLASTIC PIPE WELDING TECHNOLOGY

rothenberger.com

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.

Plastic pipe welding

Electrofusion welding

ROWELD ROFUSE Sani 160/315

Universal electro-fusion welding unit for drainage pipe with welding sockets up to Ø 315 mm

Product profile

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

Weight:

180 - 280 V (230 V) Input voltage: 40 - 70 Hz Frequency: 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) -5 °C up to + 40 °C Temperature range:

> 2.4 kg (Sani 160) 3.9 kg (Sani 315)

Dimensions: 110 x 200 x 80 mm

Welding cable: 3 m

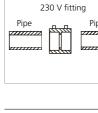












Connection to Welding Finished joint

Model	$\Delta_{kg}\Delta$	No.
ROWELD ROFUSE Sani 160 in ROCASE	2.4	1000002630
ROWELD ROFUSE Sani 315 in ROCASE	3.9	1000002631



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

Electrofusion welding

Electrofusion welding

ROFUSE 400 / 1200 TURBO

Universal electrofusion welding units for PE- and PPpressure fittings up to 400 and up to 1,200 mm diameter

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 V
Frequency:	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
ROFUSE 1200 TURBO:	Fittings up to 1,200 mm
Protection class:	IP 54
Transmission interface:	USB v. 2.0
Storage capacity:	2,000 welding logs

Weight incl. welding cable:

ROTHENBERGER

ROFUSE 400 TURBO

(Basic unit without accessories)

Practical pocket for the welder's name and scan site-code

approx. 21.5 kg

Height-adjustable cover

Can be used as a sun shield

Robust housing

The cable can be stowed away securely

Clear display

Easy to operate

Allows intuitive operation. The program sequence can be adapted individually

Simple data transmission

Language neutral instruction manual



Simple and unlimited handling

Model	$\sqrt[]{\log \Delta}$	No.
ROFUSE 400 TURBO	21.5	1000000999

ROTHENBERGER

Model	$\Delta_{kg}\Delta$	No.
ROFUSE 1200 TURBO	21.5	1000001000

Peeling device for electric socket welding

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	32 - 63 mm	53200
Squeezing device hydraulic	75 - 180 mm	53210
Squeezing device hydraulic	160 - 225 mm	53220

Clamping device for electric socket welding

For alignment and fixation of the pipe before and during the welding cycle.

Double clamp short

For alignment and fixation of the pipe before and during the welding cycle.



Quad clamps

For manufacturing standard connections with rod shaped material Ø 63 - 225 mm.



Rounding clamps

For fixation of the welding depth and for rounding PE pipes after squeezing.



Model	Ø	No
Double clamp adjustable	32 mm	5325°
Double clamp adjustable	40 mm	5325
Double clamp adjustable	50 mm	5325
Double clamp adjustable	63 mm	53254
Double clamp short	75 mm	5325
Double clamp short	90 mm	5325
Double clamp short	125 mm	5325
Double clamp short	140 mm	5325
Double clamp short	160 mm	5326
Double clamp short	180 mm	5326
Double clamp short	200 mm	5326
Double clamp short	225 mm	5326
Quad clamp	75 mm	5327
Quad clamp	90 mm	5327
Quad clamp	110 mm	5327
Quad clamp	125 mm	5327
Quad clamp	140 mm	5327
Quad clamp	160 mm	5327
Quad clamp	180 mm	5327
Quad clamp	200 mm	5327
Quad clamp	225 mm	5328
Rounded clamp	25 mm	5328
Rounded clamp	32 mm	5328
Rounded clamp	40 mm	5328
Rounded clamp	50 mm	5328
Rounded clamp	63 mm	5328



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









KEY FEATURES

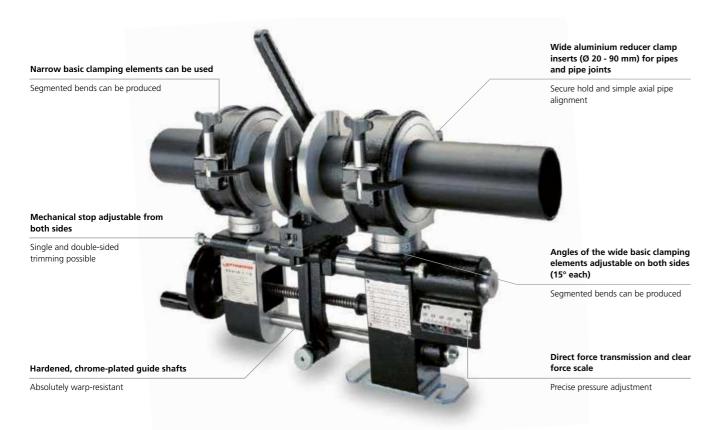
- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

TECHNICAL DATA

Ø 20 - 90 mm (SDR 41 - SDR 7.25) Pipe diameter: 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



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



Model	Working range Ø mm	Temperature control	$\sqrt[]{\log \Delta}$	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

ROWELD P 110 basic machine

Model	$\sqrt[b]{\log \Delta}$	No.
ROWELD P 110 basic machine	6.8	55787
with table mounting bracket		



Basic clamping set 110 mm

$\Delta_{kg}\Delta$	No.
2.5	55807
1.0	55808
1.0	55809
	2.5





Reduction inserts wide P 110

Each set includes 4 aluminium half-shells

►O⊲ mm	$\Delta_{kg}\Delta$	No.	►O⊲ mm	$\Delta_{kg}\Delta$	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
50	1.7	55123			



Reduction inserts narrow P 110

Each set includes 4 metal half-shells

► 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
50	0.5	55131			





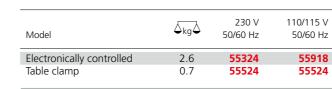
Manual trimmer unit

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









Flange adaptor clamping unit

For centred welding of flanges

Model	$\sqrt[]{\log \Delta}$	No.
Flange adaptor clamping unit	1.50	55199
Steel carrying case (540 x 345 x 355 mm)	14.20	55832
Allen key SW 6	0.03	321216
Allen key SW 8	0.05	321218





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 - 17.6)

The pressure applied can be

adjusted separately on both sides One-sided and two-sided milling

> Direct force transmission and a clearly arranged force scale Precise force adjustment

Weight: 34.4 kg 800 W Heating plate: Trimmer unit: 1,050 W

Multi-faceted options for clamping

All commonly used moulded bodies installed in a sanitary installation can be clamped

Anti-slip Ø 40 - 140 mm reduction clamping inserts with clamping force regulation

Secure mounting of pipes, moulded bodies, tight 45° forks and 90°



ROCASE 4414

Additional storage for accessories and tools





Basic clamping set (No. 54082) (special accessories)



Trimmer attachment



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	Working range Ø mm	Temperature control	$\sqrt[]{\log \Delta}$	230 V 50 Hz
ROWELD P 160 SANILINE complete	40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	1000002964

ROWELD P 160 SANILINE basic machine

Basic machine includes: Trimmer unit (1,050 W), heating plate (800 W), basic clamp set Ø 40 - 160 mm

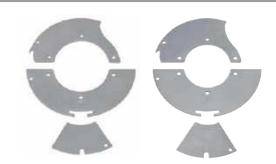
Model	$\Delta_{kg}\Delta$	230 V 50 Hz
ROWELD P 160 SANILINE	34.4	54005



Reduction inserts P 160 SANILINE

Set includes: Reducer inserts (4 half-shells), pipe supports

Nominal size	$\Delta_{kg}\Delta$	No.	► ○ ■ Nominal size	$\Delta_{kg}\Delta$	No.
40	1.6	54083	90	1.6	54088
50	1.6	54084	110	1.7	54089
56	1.6	54085	125	1.5	54090
63	1.6	54086	140	1.5	54091
75	1.6	54087			



Trimmer adaptor P 160 SANILINE

(special accessories)

Ø 40 - 75 mm for trimming 45° branches, replaceable blades

Model	$\sqrt[b]{\log \Delta}$	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	$\Delta_{kg}\Delta$	No.
Basic clamping set Ø 160 mm	5.3	54082

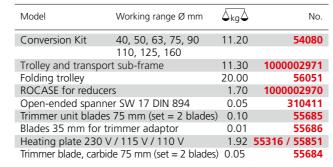




ROWELD P 160 SANILINE Conversion Kit

Converting existing ROWELD P 160 SANILINE with universal clamp system

Set (No. 54080) includes: Basic clamping set 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















ROWELD P 250 A

Plastic pipe welding machine Ø 40 - 250 mm

Product profile

APPLICATION AREA

For use on building sites and in the workshop. Particularly suited for sanitary installations, drain pipe laying as well as chimney reconditioning with PVDF liners

KEY FEATURES

- Versatile for difficult situations with the removable heating plates
- Protects against unintentional starting and derailing of the
- Single and double-sided trimming possible
- Warp-resistant for minimum drag and low pressure transfer loss



Mechanical stop adjustable



KEY FEATURES

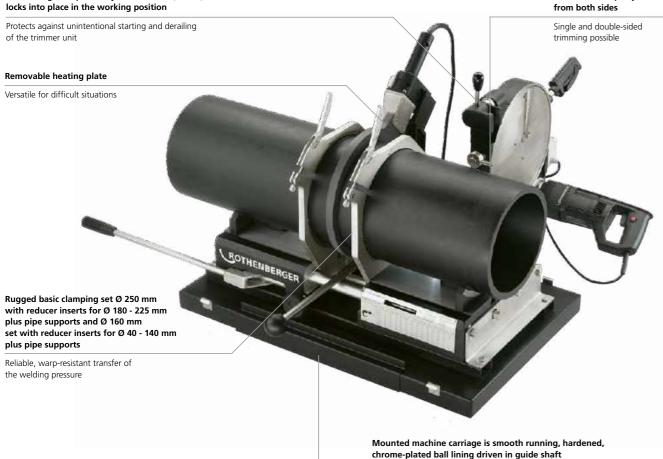
- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

TECHNICAL DATA

Ø 40 - 110 mm	(SDR 41 - SDR 7.25)
Ø 40 - 125 mm	(SDR 41 - SDR 11)
Ø 40 - 200 mm	(SDR 41 - SDR 17.6)
Ø 40 - 225 mm	(SDR 41 - SDR 26)
Ø 40 - 250 mm	(SDR 41 - SDR 33)
	Ø 40 - 125 mm Ø 40 - 200 mm Ø 40 - 225 mm

36.4 kg Weight: Trimmer unit: 450 W 1,200 W Heating plate:

Electric, high-torque safety trimmer unit (450 W) locks into place in the working position



Warp-resistant, for minimum drag force and low loss of pressure transfer

Model	Working range Ø mm	Temperature control	$\Delta_{kg}\Delta$	230 V 50 Hz
ROWELD P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 25	0 electronically	131.0	55795
ROWELD P 250 A basic mach	nine		36.1	55768

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 Ø 160 mm and 250 mm support fork inserts Ø 160 mm and 250 mm, reducer inserts and support fork inserts from Ø 40 - 140 mm and Ø 180 - 225 mm, installation tools, steel transport box 800 x 520 x 765 mm (LxWxH) and steel carrying case for reducer and support fork inserts

Basic clamping set P 250 A

Set includes: 2 basic clamps and 2 support forks

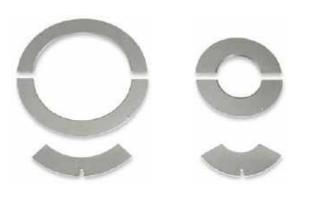




Reduction inserts P 250 A

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	$\sqrt[]{\log \Delta}$	No.	►O mm	$\sqrt[b]{\log \Delta}$	No.
32	1.89	55753	110	1.26	55746
40	1.89	55752	114	1.20	55745
50	1.81	55751	125	1.06	55744
56	1.83	55750	140	0.80	55743
63	1.75	55749	180	2.46	55721
75	1.68	55748	200	2.03	55718
90	1.50	55747	225	1.41	55719



Heating plate

Non-stick Teflon coating. Ø 300 mm, 1,500 W

Model	$\sqrt[]{\log \Delta}$	230 V 50 / 60 Hz	110 V / 115 V 50 / 60 Hz
Electronically controlled	5.35	55317	55854
Spare knife (1 set = 2 pcs.)	0.10		55163
Allen key size 8	0.20	321218	321218
Transport box, protective cover red	25.00	55759	55759
Steel carrying case	2.82	54020	54020



No. 55317 / No. 55854



ROWELD type Professional

Hydraulic butt welding machine Ø 40 - 1,200 mm Selection of components with a long service life ensures a low maintenance, robust and reliable operating mode.

Product profile

APPLICATION AREA

For heating element butt welding of PE, PP and PVDF pipes and moulded bodies. For use on the building site, in pipe trenches, on pipe bridges and in workshops. The ROWELD hydraulic type Professional with infinite pressure adjustment, an easily legible manometer and pressure reservoir for welding according to DVS and other internationally valid guidelines and standards.

WORKING RANGE		
Model	Ø mm	Ø Inch
P 160 B / P 5 B	40 - 160 mm	1.1/4" - 5"
P 200 B	63 - 200 mm	
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	710 -1,200 mm	28 - 48"

Flexible



Simple operation

Ideally matched components allow precise start-up of the pressure



Perfect parking for trimmer and heating plate

Fig. similar





ROWELD type Premium

Hydraulic butt welding machine Ø 90 - 1,200 mm

The Premium hydraulic system guides the user step-by-step through the welding process. All parameters are documented automatically.

Product profile

APPLICATION AREA

The ROWELD Hydraulic Premium with an integrated logging module for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

WORKING KANGE		
Model	Ø mm	Ø Inch
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	700 - 1,200 mm	28 - 48"

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

In accordance to DVS Logging:

Welding standards: DVS, further standards available upon

request, manual entry of welding parame-

Flexible

Set P 355 B

control panel

No. 1000000562



Simple operation Ideally matched

components allow precise start-up of the pressure



Perfect parking for trimmer and heating plate

Safe



Supply of power for heating element and trimmer unit over Professional Hydraulic (P 160 B-P 355 B/P 5 B-P 12 B)



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



Simple operation via touch



Trimmer with safety switch. Secures against unintended activation of the trimmer

rigid frame

Allows reliable weldings in virtually any environment



Safe operation – Automatic calcula-

tion, control and inspection of the

welding parameters

The pull-off fixture allows rapid



Butt welding

ROWELD type Premium CNC

Hydraulic butt-welding machine Ø 90 - 1,200 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	Ø Inch
P 250 B SA / P 8 B SA	90 - 250 mm	5 - 8"
P 250 B VA / P 8 B VA	90 - 250 mm	5 - 8"
P 355 B SA / P 12 B SA	90 - 355 mm	5 - 12"
P 500 B SA / P 18 B SA	200 - 500 mm	8 - 18"
P 630 B SA / P 24 B SA	315 - 630 mm	12 - 24"
P1200 B SA / P 48 B SA	710 - 1,200 mm	22 - 48"

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 movements are performed by the machine,

including dragging resistance and bead development measurement. Automatic extending heading element enables a fully-automatic welding process (optional,

not available for all machines)

Flexible



Simple operation

Ideally matched components allow precise start-up of the pressure



Safe

Perfect parking for trimmer and heating plate



virtually any environment

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



The new generation of ROWELD hydraulic controls for butt welding

The ROWELD hydraulic unit is available in a **Professional** and **Premium** version. The premium hydraulic unit is divided into **Premium** and **Premium CNC** capacities.

Everything at a glance	Fig. similar Type Professional	Type Premium	Type Premium CNC
Temperature control	•	•	•
Pressure reading analogue	•	_	_
Pressure reading digital	_	•	•
Pressure hold function	•	•	•
Logging system	_	•	•
Position sensor	_	_	•
Automatic parameter calculation	_	_	•
CNC-control	_	_	•
Touch screen	<u> </u>	•	•
Colour display 3.5"	_	•	•
Menu language Multi-lingual	_	•	•
USB port	_	•	•



Refrigeration & air-conditioning technology

System overview

System overview

	Complete solutions				
	ROKLIMA MULTI 4F	ROCADDY 120 R32 Analogue	ROCADDY 120 R32 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	276, 277	278	278		

	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.)	✓	✓	-	✓
CO ₂ subcritical (R744):	✓	-	-	✓
System size:	all	all	all	all
Page	279	280	280	281

		Evacuation		
	ROAIRVAC R32 1.5	ROAIRVAC R32 3.0	ROAIRVAC R32 6.0	ROAIRVAC R32 9.0
Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	✓	✓
CO ₂ subcritical (R744):	✓	✓	✓	✓
System size:	< 24 kW	< 74 kW	< 123 kW	> 124 kW
Page	284, 285	284, 285	284, 285	284, 285

	ROREC	ROREC PRO Digital
		GOTHEMBERGER
Refrigerants class A1: (R134a, R410A etc.)	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	-	✓
CO ₂ subcritical (R744):	-	-
System size:	< 24 kW	all
Dage	206	207

Recovery

Refrigeration & air-conditioning technology

Complete solutions

Automatic supervision and control of the

recovery process in

refrigeration cycles!

Complete solutions

ROKLIMA MULTI 4F

Fully automatic commissioning and maintenance of air-conditioning units and heat pumps

The innovative unit enables safe and comfortable operation on refrigeration systems. With simple menu navigation, 4 functions (4F) are automatically controlled.

Product profile

KEY FEATURES

- Pressure resistance up to 80 bar guarantees full use with heat pumps
- Everything you need within reach
- Simple menu guidance guarantees appropriate use
- Fully automatic control gives time for parallel work Safe transport

Sturdy, compact metal casing Protects all components such as vacuum pump

and scale



TECHNICAL DATA

Weight: 17 kg Final vacuum: 1 x 10⁻² mbar Scale range: up to 100 kg Resolution: 10 g Pressure hose length: 2,500 mm Pump rating: 42 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

with refrigerants without the risk

Plastic capillary hose

shut-off valve

For evacuation of the system in accordance with **DIN 8975**

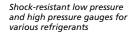
Integrated high

vacuum pump with

42 I/min suction power

Pull-out precision digital scale up to 100 kg

Secure stand for large and small containers





Secure storage of all accessories

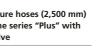
ROTHENBERGER

Pressure hoses: 2.5 m long with



Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces





Safe and comfortable operation

Safe, leak-free filling due to

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	1 10	00000138
Reducer pieces 1/4" SAE F - 5/16" SAE	M 0.1	1	170016

Secure storage of accessories: pressure hoses bottle adaptor.

Automatic

evacuation and

filling with the

ROKLIMA MULTI 4F!



Precision scale up to 100 kg Resolution: 10 g



Ergonomic, compact







ROTHENBERGER

(1 3 class 1.6)

• Electric digital scale ROSCALE 120 with a weight capacity of 120 kg and a measuring accuracy per measurement of 5 g

• 2-stage vacuum pump ROAIRVAC R32 1.5 with integrated

vacuum meter and solenoid valve, as well as a pump rating

automatic calculation of superheat and subcool. More than

2 analogue 4-way manifolds (with ROCADDY 120 R32 Analog)

for the common refrigerants R22, R134a, R404A, R407C and

• Pressure hose sets, each with 3 hoses from the "Plus" series

with shut-off valve for safe use with refrigerants

Digital manifold (with ROCADDY 120 R32 Digital) for the

80 refrigerants are on file in the unit

the high-pressure refrigerant R410A

TECHNICAL DATA

ROCADDY 120 R32 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



Sturdy plastic rolling case (fig. similar)



ROCADDY 120 R32 Analogue (No. 1000002560) includes: 2-stage vacuum pump ROAIRVAC R32 1.5 (No. 1000002399) with vacuum gauge and solenoid valve, 4-way manifold for R22, R32, R134a, R407C (No. 170502), 4-way manifold for R410A (No. 1000001427), pressure hose set 5/16" SAE each 1,500 mm with ball valve for R410A (No. 1500000030), pressure hose set 1/4" SAE each 1.500 mm with ball valve for R22, R32, R134a, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x adaptor 3/8" SAE F-1/4" SAE M (No. 89501), 2x adaptor [5/16" SAE F-1/4" SAE M with valve trigger (No. 01700RD), adaptor 5/16" SAE M-1/4" SAE F (No. 170016)], bottle connection 1/4" (No. 173205), bottle connection 5/16" (No. 173204), mineral oil (0.4 l), TUBE CUTTER 35 (No. 70027), MINICUT II Pro (No. 70402), transport case (No. 169051)

Model		Perforn	nance 4	∆ _{kg} ∆	No.
R410A	R22	R134a	R407C	R404A	R32
ROCADDY		42 /	min	20 1	000002560
R32 Analo	gue				

ROCADDY 120 R32 Digital (No. 1000002561) includes: 2-stage vacuum pump ROAIRVAC R32 1.5 (No. 1000002399) with vacuum gauge and solenoid valve, 1x digital manifold ROCOOL 600 (No. 1000000569), 1x clamping thermometer (No. 1000000540), pressure hose set 1/4" SAE each 1,500 mm with ball valve for R22, R32, R134a, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x 5/16" SAE F-1/4" SAE M with valve trigger (No. 01700RD), 1x 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		Pe	rformance	$\Delta_{kg}\Delta$	•	No.
R410A	R22	R134a	R407C	R404A	R507	R32
ROCADDY R32 Digital		4	2 I / min	19	1000	0002561

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

Micron, mbar, mmHg, Pa, mTorr Vacuum display: 9 V battery, 550 mAh Power source: 4.1/3" / 11 cm Screen size:

-1 up to 60 bar Pressure measurement range: Precision (at 22 °C): $\pm 0.5\%$ 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!



Connection for the external

Large screen

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

Schrader valve 1/4" SAE 3-way function: Evacuation and filling without changing a hose

T-connection with

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)	1000000569
Set with 2 temperature sensors (in the case)	1000000570
Set with 2 temperature sensors, red box,	1000000572
data viewer software (in the case)	

Solid and non-tacky rubber coating

Prevents shock damages and allows a safe handling

Connection for the temperature sensor T2

For automatic measurement of subcool data

Green and red LEDs

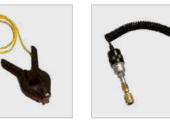
An optical signal is displayed once an adequate vacuum level is reached or leakage in the system and also a warning of overpressure

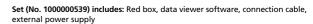


Connection of the Red Box

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





Temperature sensor for a pipe

Model	No.
Red box, software, connection cable,	1000000539
external power supply	
Temperature sensor	1000000540
Vac probe	1000000541



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

 $\sqrt{\log \lambda}$

0.7 1 **1000001426**

Model

Model

2-way "Standard"

4-way "Standard R22 R134a

R410A R32

R22 R134a

Manifold set 4-way II "Plus"

Manifold set 4-way II "Plus"

4-way "Plus"

Plastic carry case

Blue rubber protector for manifold

Red rubber protector for manifold

3 x 1,500 mm pressure hoses, plastic carrying case

R22 R134a R407C R404A

Manifold set 2-way "Standard"

Manifold set 2-way "Standard"

Manifold set 4-way I "Standard"

Manifold set 4-way I "Standard"

Valve sets for manifold

0.9

0.9

Pressure gauge with shock-proof

Valve body made of aluminium

2-way manifold

(class 1.6) (class 1.5) (class 1.5) (class 1.6) (class

Sets include: manifold, pressure gauge with Ø 80 mm, "Pulse-free", class 1.6,

No. 170545

170546

170547

2.7 **170600**

2.7 **170607**

2.8 **170601**

2.8 **170606**

2.8 **170602**

2.8 **170608**

171505

1.4

rubber protector

with gauge glass Sturdy despite low weight

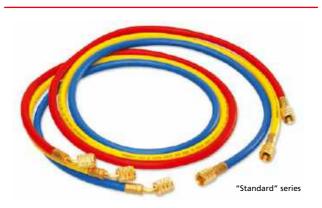
Protects against damage

3-piece pressure hose sets

Available in "Standard" and "Plus"

Product profile KEY FEATURES

- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10x longer service life compared to neoprene seal
- Working pressure 60 bar / burst pressure 300 bar. This is an 8% better pressure resistance as previously



Pressure hose from the series "Standard"

Model		Connection	L mm		No.
Vacuum h	nose	3/8" SAE	1,500	1	1500000032
R22	R134a	R407C	R404A		
Set of 3 p	ressure hoses	1/4" SAE	1,500	1	1500000024
Pressure h	nose yellow	1/4" SAE	1,500	1	1500000025
R410A	R32				
Set of 3 p	ressure hoses	5/16" SAE	1,500	1	1500000026
D		F/1/C// CAF	1 500	-1	4500000037



Pressure hose from the series "Plus" with ball valve

Model		Connection	k → L mm		No.
R22	R134a	R407C	R404A		
Set of 3 p	ressure hose:	s 1/4" SAE	1,500	1	1500000028
Pressure l	nose yellow	1/4" SAE	1,500	1	1500000029
R410A	R32				
Set of 3 p	ressure hose:	s 5/16" SAE	1,500	1	1500000030
Pressure	nose yellow	5/16" SAE	1,500	1	1500000031

Tool set Climate I + II

Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

Product profile

APPLICATION AREA

- Monitor temperature and pressure
- Quality hoses with high bursting pressure
- Pipe cutter for all pipe cross-sections from 3 - 35 mm (1/8" - 1.1/8")
- Measurement of ambient and ventilator air temperature
- Clean, kink-free bending of all common pipe cross-sections
- Optimum flaring connections for all types of air-conditioners

Set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses standard 1/4" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", universal flaring tool (No. 222601), plastic case

Set Climate II (No. 170605) includes: 2-way manifold (No. 1000001426), set of pressure hoses standard 5/16" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", reeling flaring tool (No. 222402), plastic case

Model	$\Delta_{kg}\Delta$		No.
Tool set Climate I	2.3	1	170604
Tool set Climate II	2.4	1	170605

R32 R22 R134a R407C R404A The ideal introduction into a whole new area of business!

No. 170604

Refrigeration circuit control

Analogue manifolds

2- and 4-way manifolds

Pressure gauge Ø 80 mm, with

pulse-dampening class 1.6

Easy-to-read, high precision

Large hand valve with colour coding

Valve sets

Light, secure and precise opening and closing of the diaphragm valve, maintenance free

R134a R407C R404A

*LP = Low pressure manifold, *HP = High pressure manifold

4-way manifold (for 170601, 170606, 170602 and 170608)

2-way, 1/4" SAE -1 up to 17 0 - 34 4-way, 1/4" SAE -1 up to 17 0 - 34

2-way, 5/16" SAE -1 up to 30 0 - 60

4-way, 5/16" SAE -1 up to 30 0 - 60

Manifold sets and pressure hoses 2-way manifold (for 170600 and 170607)

Manifold sets

Durable and highly precise tool

\ ROTHENBERGER

No. 170602

No loss of refrigerant

Pressure hose with ball valve "Plus"

Nitrogen set

Multiple uses for refrigeration systems

Leak testing & locating

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



ROTHENBERGER

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	259008
Filling hose with pressure gauge	259010
Connection 5/16" SAF internal 1/4" SAF external	01700RD

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







R22 R134a R407C R404A R507A

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

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





Light, compact and easy to

Removable cable

Prevents cable damage

Integrated vacuum gauge

Simple and fast control of

the evacuation process



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

Increased torque and long service life *(only with ROAIRVAC R32 1.5, 3.0

and 6.0)

Gas ballast valve

Reduction of water vapour in the oil container, guarantees higher evacuation power and service life

Special filter





Integrated solenoid valve

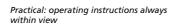
Prevents backwash of oil into the refrigeration system

Light and high-quality casing

Protects the integrated components

Optimal positioned viewing glass and oil drains for simple draining of the oil







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 m ³ /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 3.0 (85 l/min)



ROAIRVAC R32 9.0 (255 l/min)

Mineral oil is included in all pump deliveries





Scope of delivery ROAIRVAC: vacuum pump with 1/4", 5/16" SAE and 3/8" SAE

	Model	Performance	${\textstyle \bigwedge_{kg}} {\textstyle \bigwedge}$	No.
j	ROAIRVAC R32 1.5	42 l/min	10.1	1000002399
	ROAIRVAC R32 3.0	85 l/min	11.9	1000002713
	ROAIRVAC R32 6.0	170 l/min	17.5	1000001231
	ROAIRVAC R32 9.0	255 l/min	18.4	1000002714
	Mineral oil 1 litre			169200

ROAIRVAC R32 1.5 - vacuum pump in use with the digital manifold ROCOOL 600



1/4" SAE standard connection with adaptors





Recovery & filling

ROREC

Refrigerant recovery device

Recovery & filling

Compact, portable device for recovery and recycling refrigerants of all kinds

Product profile

KEY FEATURES

- 4-pole motor guarantees the durability of the machine
- Low noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Maintenance-free operation through the oil-free compressor
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing









TECHNICAL DATA

Capacity:

Suitable for: all refrigerants of the type CFC-HCFC-HFC

> 0.26 kg / min gaseous: 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

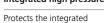
Weight:





SERVICE: Class 1.6 Class 1

Ideal for mono & multi-split air-conditioning units and heat pumps! Integrated high pressure switch



PURGE function Emptying of refrigerant residue

in the unit (self-cleaning mode)

Simple use

Controlled dosage of the refrigerant supply

RESET Button

Reset of the pressure shut-off

Removable cable

Exemplary:

Prevents cable damage

Oil-free compressor

Maintenance-free operation

Thermal switch

Protects the unit from overheating

Light and compact plastic casing

Simple transport and use

4-pole motor

Increased torque and service life

Recovery of refrigerant



Simple and precise reading with the glycol filled pressure gauge





Practical storage compartment

Model	Connected Load	$\sqrt[]{kg} \sqrt[]{}$		No.
ROREC	370 W	17.0	1	168605
Filter		0.12	1	168713

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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
- 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: 0.5 kg/min; 30 kg/h gaseous:

fluid: 3.5 kg/min; 210 kg/h push/pull: 9.5 kg/min; 570 kg/h

230 V / 50 - 60 Hz Power supply:

730 W Power: High pressure switch: 38.5 bar

Product dimensions: 380 x 250 x 350 mm

12 kg Weight:

Digital display

Clearly structured display of the measured pressure values

Low pressure switch

Automatic shut-off and automatic restart once the pressure increases



Oil-free 2-piston compressor

Very high recovery rate with maintenance free operation



Practical storage compartment Storage of accessories in the back



Clearly structured digital display



Model	$\sqrt[]{\log \Delta}$		No.
ROREC PRO Digital	12.0	1	1500002637
Filter	0.12	1	168713

Recovery & filling

Refrigerant for air-conditioning units

Non-chlorinated refrigerant of the HFC group in practical 40 bar steel bottles (bursting pressure: 165 bar) TÜV seal No. 0036-043/03D and TPED accepted as per 99/36/CE



Product profile

KEY FEATURES

- Light and practical for use on building-sites
- 1 and 2 litre steel bottles, rent-free and easy disposal
- Flat base for increased standing stability
- Ease of clean up after removing of the valve

Full flexibility for the user

Refillable bottles



\ ROTHENBERGER

Standardised SAE thread on all bottle valves



Model				No.
R407C Refrigerant R407C in cardboard packaging				
1 steel k	oottle 1/4" SAE, 850 g	1	12	170913
2 steel k	oottle 1/4" SAE, 1,700 g	1	6	170931
R410A	Refrigerant R410A in cardbo	oard pack	aging	
1 steel k	oottle 5/16" SAE, 800 g	1	12	170912
2 steel k	oottle 5/16" SAE, 1,600 g	1	6	170932

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

Weight capacity: 120 kg or 264 lbs Accuracy: +/- 0.5% Resolution: 5 g / 0.2 oz.

Working temperature: -10° C up to $+49^{\circ}$ C / 14 up to $+120^{\circ}$ F

1/4" SAE for 1 - 2 lit. bottles Connection:

Battery:

230 x 230 x 53 mm Platform size:

3.28 kg Weight:



ROSCALE 120 in carrying case

 $\Delta_{kq}\Delta$

3.28 **R17300416**

Model

ROSCALE 120

Accessories

SANIFRESH

Accessories

Deodorising cleaning spray



Product profile

KEY FEATURES

- Removes the threat of disease and allergies practical and ecologically friendly solution for removing mites, dust, bacteria
- Spray is applied directly to affected surface
- Economical spray can with spray nozzle and spray tube
- Removes unpleasant odours. Pleasant mint smell

Model			Volume	No.
Sanifresh (contains 12 bottles)	1	1(12)	400 ml	85800

Bottle connection and adaptors

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



Model	No.
Adaptor, 1/4" connection	173205
Adaptor, 5/16" connection	173204
Adaptor, W21.8 x 1/4" SAE M connection	170950
with seal for 2 I sized bottles	
Adaptor W21,8 LEFT x 1/4" SAE M connection	1500003381
for combustible refrigerants like R32	
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	

DIN -Norm

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!

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

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

Adjustable wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

Product profile KEY FEATURES

• Precise operation: smooth-running and robust roller with minimum play in the sliding guides

ize ich	mm	Clamping width up to mm	∆ _g ∆	No.
6"	160	20	100	70441
8″	210	25	220	70442
0"	250	29	390	70443
2"	300	34	660	70444
5"	380	44	1,170	70445



Schrader valve tool

Product profile

KEY FEATURES

- For exchanging the Schrader valve on air-conditioners under pressure, without having to recover the unit
- For safe and easy change of spring insert of the Schrader
- With safety thread for risk-free use with R410A

Model	No.
Schrader valve tool in plastic carrying case	87800



Plate fin comb

Product profile KEY FEATURES • For straightening the plate fins of heat-exchangers

• 6 different sizes in one tool

Model	Product dimensions	No.
Plate fin comb	8 - 9 - 10 - 12 - 14 - 15 fins per inch	224500



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	1,700	-
R134a (HFKW-chlorine-free refrigerant)	CF3CH2F	0	1,300	_
R32 (HFKW-chlorine-free refrigerant)	CH2F2	0	675	-
R404A (HFKW-chlorine-free blends)	52% R143a, 44% R125, 4% R134a	0	3,750	_
R507 (HFKW-chlorine-free blends)	50% R143a, 50% R125	0	3,800	-
R407C (HFKW-chlorine-free blends)	23% R32, 25% R125, 52% R134a	0	1,610	7.5K
R410A (HFKW-chlorine-free blends)	50% R32, 50% R125	0	1,890	0.2K

ODP = Ozone Depletion Potential (degree in which the ozone layer is destroyed) GWP = Global Warming Potential (degree in which it contributes to the greenhouse effect)

Instructions for safe and proper use of the refrigerants:

Refrigerant:

- Wear protective gloves and safety goggles
- Do not let refrigerant come in contact with skin
- Do not inhale high concentrations of vapours (Lack of oxygen causes a narcotic effect and is a danger to life)
- Do not smoke around refrigerant
- Working place / room must be thoroughly aired, if necessary extracted

Refrigerant bottles:

- Secure against accidents, do not throw
- Do not expose to direct sunlight and do not place near radiators or other heat sources
- Do not use open flame

- Do not disassemble or remove valves
- Damaged bottles need to be properly returned
- Close empty containers

Air-conditioners:

- Air-conditioner leaks need to be repaired immediately
- Do not allow refrigerant to leak while filling or doing maintenance work
- In high concentrations (for example pipe burst), leave the room and do not enter again until it has been properly ventilated
- Only do brazing work together with protective nitrogen gas and only in well ventilated areas

Flare connections

Normal flare size in accordance with JIS B8607:2008 Flare outer diameter in relationship to the pipe diameter

Pipe outer diameter mm / inch	Metric	Wall thickness mm / inch	Flare outer diameter with R22-, R134a-, R404-, R407C air-conditioners	Flare outer diameter with R410A air-conditioners
6 mm	-	1 mm	8.5 mm	9.1 mm
8 mm	_	1 mm	11.1 mm	11.1 mm
10 mm	-	1 mm	13.6 mm	13.2 mm
12 mm	-	1 mm	15.3 mm	16.5 mm
16 mm	-	1 mm	19.5 mm	19.2 mm
18 mm	-	1 mm	22.0 mm	22.7 mm
1/4"	6.35 mm	0.35"	9.0 mm	9.1 mm
5/16"	7.94 mm	0.35"	11.0 mm	11.1 mm
3/8"	9.52 mm	0.35"	13.0 mm	13.2 mm
1/2"	12.70 mm	0.35"	16.2 mm	16.6 mm
5/8"	15.88 mm	0.35"	19.4 mm	19.7 mm
3/4"	19.05 mm	0.35"	23.3 mm	24.0 mm

Conversion table pressure

mbar	Micron	TORR	mm HG 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

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System overview

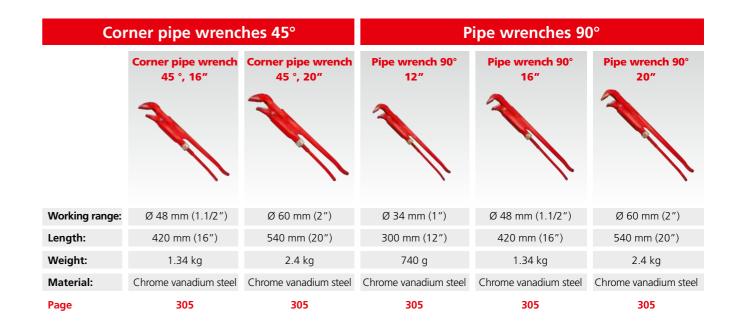
System overview





	Water p	oump 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"
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	303	303	303	305	305

		Corner pip	e wrenches 45°		
	Corner pipe wrench 45° Super S, 16"	Corner pipe wrench 45° Super S, 20"	Corner pipe wrench 45° Super S, 24"	Corner pipe wrench 45°, 10"	Corner pipe wrench 45°, 12"
	3	3	The state of the s	3	
Working range:	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 89 mm (3")	Ø 22 mm (1/2")	Ø 34 mm (1")
Length:	420 mm (16")	540 mm (20")	640 mm (24")	250 mm (10")	300 mm (12")
Weight:	1.44 kg	2.44 kg	3.4 kg	370 g	740 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	305	305	305	305	305





System overview

System overview





-					
	One-ha	nded pipe wren	ch ALUDUR		Pliers wrench
	ALUDUR 24"	ALUDUR 36"	ALUDUR 48"	ALUDUR 60"	ROFAST
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	306	306	306	306	308







NOTHENBERGER

Pliers

ROGRIP M

Quickly adjustable water pump plier

KEY FEATURES

- **Durable:** Due to double hardening, the teeth are particularly
- 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" 1.1/4"	1000002697 1000002698
ROGRIP M 10" 1K ROGRIP M 10" 2K	2" 2"	1000002699 1000002700

Double hardened iaws extremely durable Good grip on every surface even at highest demands

ROTHENBERGER Curve-Shape-Design

Especially suitable for larger pipe diameters. Reduces the danger of fingers getting clamped

Large gripping capacity

Reliable grip and hold up to 2" pipe diameter

New handle design

Good arip with two handle versions

Wide handles

More comfort and better

ROTHENBERGER Curve-Shape-Design 7" pliers grip like 10" pliers!

ROGRIP F

Quickly adjustable water pump plier

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:







Model	Working range	No.
ROGRIP F 7" 1K	1.1/4"	100002701
ROGRIP F 7" 2K	1.1/4"	1000002702
ROGRIP F 10" 1K	2"	1000002704
ROGRIP F 10" 2K	2"	1000002705



* than previous model

ROGRIP XL

Quickly adjustable water pump plier

KEY FEATURES

- 16" pliers up to 3.1/2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- 14 point size adjustment

TECHNICAL DATA

- Chrome vanadium steel tempered, drop forged with heavy-duty box joint
- Polished head and joint
- Double hardened jaws, extremely durable

Enourmos gripping width of 3.1/2" reliable grip during application



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

Asymmetrical gripping surface

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

Self-clamping jaws Optimum grip with the rhombus-shaped Measurements gripping surface favourable for corners Non-slip even on smooth pipes Ideal for hard-to-reach Ergonomically shaped anti-slip legs Induction hardened teeth Long service life and high wear resistance 7 size settings (10" and 12"), solid and durable Variable use Crush and clamp guard Safe use $\Delta_{\mathsf{q}}\Delta = \square$ inch mm max, inch max. mm No.

70527

70528

70529

070528D

Water pump pliers type SPK

KEY FEATURES

• Features similar to type SP, additionally with plastic covered handles



Pliers





Increased safety: Plastic covered handles!



No.			Δgδ	▶ ○ ◄ max. mm	▶ max. inch	L mm	L inch
70521	6	1	165	34	1"	175	7″
70522	6	1	315	43	1.1/4"	250	10"
70523	6	1	475	48	1.1/2"	300	12"
070522D		1 (12)			er display	Counte	10"



Grooved water pump pliers CL

Chrome vanadium steel, chrome-plated, drop forged, tempered, polished head and sliding joint, even jaws, in compliance with DIN 5231 E

KEY FEATURES

- No slipping of the joint possible
- Absolutely firm fit in every open position
- Easy, smooth adjustment
- Induction hardened teeth for a long service life
- Crush and clamp guard prevent injuries
- Plastic covered handles



No.	(1111)	\sqrt{g}	► O⊲ max. mm	►O- nax. inch	<mark>⊩L</mark> mm n	inch
70591	6	330	48	1.1/2"	245	9.1/2"
70592	6	560	60	2"	300	12"
70593	6	1,150	114	4"	420	16"



250

12" 300 1.1/2"

10" Counter display

1.1/4"

290

1(12)

43

DIN -Norm

Pliers sets

ROBOX plier sets 𝔻

3-part plier 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)

•			
Model		$\Delta_{kg}\Delta$	No.
Plier set w/ corner pipe wrench, ROBOX (3 pcs.) Plier set w/ ALUDUR, ROBOX (3 pcs.)	1		1000002188* 1000002189*

* ROBOX system p. 340



Professional sets

Practice-oriented set of pipe wrenches and pipe cutter

For the individual pliers see 300 - 306

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	$\Delta_{kg}\Delta$		No.
Set 1 - 1.1/2 - 2"	5.0	1	070130X
Set 2 - 1.1/2" + wapu SP 10" + TC35	3.1	1	070135X
Set 3 - 1.1/2" + wapu SP 10"	2.7	1	070140X







No. 070135X No. 070130X

No. 070140X

ROGRIP plier sets

The quickly adjustable water pump plier generation ROGRIP is available as practice-oriented sets in three different sizes.

2-part set (No. 1000001039) includes: ROGRIP M 7" 1K (No. 1000002697). ROGRIP M 10" 1K (No. 1000002699)

3-part set (No. 1000001068) includes: ROGRIP M 7" 1K (No. 1000002697), ROGRIP M 10" 1K (No. 1000002699), ROGRIP XL 16" (No. 1000000328)

Model		No.
ROGRIP set M 7" 1K + M 10" 1K	1	1000001039
ROGRIP set M 7" 1K + M 10" 1K + ROGRIP X	(L 1	1000001068





Corner pipe wrench 45°, SUPER S

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

KEY FEATURES

- Self-clamping: 3-point clamping ensures reliable and firm grip even on smooth pipes
- Reliable grip and non-slip with teeth set against turning direction, induction hardened
- Double-T profile jaws, ideal for clamping different material forms, enables universal application



No.			$\Delta_g \Delta$	L mm	⊩ Inch	mm	Inch
070121X	18	1	400	250	10"	22	1/2"
070122X	18	1	810	300	12"	34	1"
070123X	16	1	1,440	420	16"	48	1.1/2"

No.			ΔgΔ	mm	⊩_ Inch	mm	Inch
070124X	10	1	2,440	540	20"	60	2"
70125	6	1	3,400	640	24"	89	3"

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



▶ ○	► O•	L Inch	L mm	ΔgΔ	8		No.	Inch	mm	<u>L</u> Inch	<u>L</u> mm	ΔgΔ	=	No
1/2"	22	10"	250	370	1		070131X	1.1/2"	48	16"	420	1,340	1	070133
1"	34	12"	300	740	1	6	070132X	2"	60	20"	540	2,400	1	070134

Pipe wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



Inch	► O•	⊩_ Inch	L mm	$\Delta_{g}\Delta$			No.	Inc
1"	34	12"	300	740	1	8	070110X	3"
1.1/2"	48	16"	420	1,340	1	6	070111X	4"
2"	60	20"	540	2,400	1	6	070112X	



Inch	mm	⊩_ Inch	L mm	$\Delta_{g}\Delta$		No.
3" 4"	89	24"	640	3,400	1	70113
4	114	36"	750	5,600	ı	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	$\sqrt[4]{\log \Delta}$	No.
One-handed pipe wrench	0.33 10000	02194*
HEAVY DUTY 6", ROBOX 5	* ROBOX syst	em p. 340





US-norm GGG-W-651 type II class A

<u>L</u> Inch	mm	▶ ☐ Inch	► O•	$\sqrt{\log \Delta}$		No. pliers	No. hook	No. jaws
6"	160	3/4"	26	0.25	4	70148	70199	70189
8"	200	1"	32	0.40	4	70150	70200	70190
10"	250	1.1/2"	48	0.78	4	70151	70201	70191
12"	300	2"	60	1.25	4	70152	70202	70192
14"	350	2"	60	1.68	4	70153	70203	70193
18"	450	2.1/2"	73	2.67	2	70154	70204	70194
24"	600	3"	89	4.32	1	70155	70205	70195
36"	900	5"	141	7.5	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

	L mm	•	► O	$\Delta_{kg}\Delta$		No. pliers	No. hook	No. jaws
10"	250	1.1/2"	48	0.48	4	70159	70201	70191
14"	350	2"	60	0.99	4	70160	70203	70192
18"	450	2.1/2"	73	1.63	2	70161	70204	70194
24"	600	3"	89	2.51	1	70162	70205	70195
36"	900	5"	141	5.00	1	70163	70206	70196
48"	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	<mark>L</mark> mm	► O<	► O ⊲	$\sqrt[]{\log \Delta}$			No. pliers	No. hook
8"	200	3/4"	27	0.28	1	4	70350	70374
10"	250	1"	34	0.59	1	4	70351	70375
12"	300	1.1/4"	43	0.72	1	4	70352	70376
14"	350	1.1/2"	48	1.04	1	4	70353	70377
18"	450	2"	60	1.74	1	2	70354	70378
24"	600	2.1/2"	73	3.08	1	1	70355	70379
36"	900	3.1/2"	102	5.69	1	1	70356	70380

One-handed pipe wrench OFFSET PATTERN HEAVY DUTY

KEY FEATURES

- Offset wrench head is ideal for working in confined spaces (e.g. near to the wall)
- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of pipe Ø using scale on hook
- Wearing parts replaceable: hook and heel jaw can be purchased separately

L Inch	<mark>⊩L</mark> ⊲ mm	► O - Inch	► O•	$\sqrt[]{\log \Delta}$		No. pliers	No. hook	No. jaws
10"	250	1.1/2"	48	750	4	70166	70201	70191
14"	350	2"	60	1,460	4	70167	70203	70192





One-handed corner pipe wrench 90°

KEY FEATURES

- Features similar to **HEAVY DUTY**
- Weight savings of approx. 40%: extremely light, high strength aluminium alloy

⊩ Inch	L mm	► O⊲ Inch	► O•	$\Delta_{kg}\Delta$	8	No. pliers	No. hook	No. jaws
14"	350	2"	60	890	1	70115	70203	70192
18"	450	2.1/2"	73	1,490	1	70116	70204	70194



Chain pipe wrench 4" R/L

KEY FEATURES

- Profile handle made of drop forged chrome vanadium steel, polished head with hardened special tooth system, powerful chain made of tempered special steel
- Double-sided teeth surface set against the turning direction for use in both directions without re-inserting

▶ ○ ◄ max. Inch	▶ ○ ◄ max. mm	⊾ L Inch	mm	ΔgΔ			No.
4"	115	12"	300	780	1	4	70235



Chain pipe wrench HEAVY DUTY

Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable

- Strong chain made of tempered special steel fits every cross-section
- Double-sided tooth system for ratchet-like use, for right and left-handed operation

2.1/2" 73 52 690 3.5 70243 70573 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	► max. Inch	► max. mm	,	p ∟ mm	$\sqrt[]{\log \Delta}$		No. jaws
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	1.1/2"	48	38	350	1.4	70242	70571
6" 168 78 1,120 12.6 70245 7057 4 8" 220 80 1,280 17.2 70246 7057 5	2.1/2"	73	52	690	3.5	70243	70572
8" 220 80 1,280 17.2 70246 7057 !	4"	114	63	940	6.7	70244	70573
	6"	168	78	1,120	12.6	70245	70574
12" 324 84 1,630 24.2 70247	8"	220	80	1,280	17.2	70246	70575
	12"	324	84	1,630	24.2	70247	



Model		$\sqrt[b]{\log \lambda}$	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

Pliers

Fittings wrench 90°

Special chrome vanadium steel, steel forged

KEY FEATURES

- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
- High-quality DURAMANT surface coating





Plastic jaws, gentle grip!

► max. Inch	max. mm	Inch	mm	$\Delta_g \Delta$			No.
1" Plastic jaw	35 'S	14"	356	740 10	1	6	70545 70548

Fitting key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces





Model	mm CI	amping widt mm	h and depth mm	Δgδ	No.
,	260	75	45	690	350850
	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	⊩_ Inch	mm	Δgδ	No.
1.7/8"	50	10"	254	580	1500003170

SANIGRIP/SANIGRIP PL

Valve plier PL

Special chrome vanadium steel, drop forged, chrome-plated, 4 adjustable sizes at joint, with toothed grip jaws. SANIGRIP PL designed with plastic jaws to protect fittings

KEY FEATURES

- Secure and gentle grip on valuable fittings without damaging polished surfaces
- Optimum grip is ideal for plastic screw joints up to Ø 62 mm

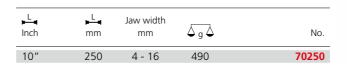


Model	Inch	L mm	► O⊲ max. mm	▶ ○ ◄ min. mm	ΔgΔ	No.
SANIGRIP	10"	250	80	14	270	70415
SANIGRIP PL	10"	250	62	14	280	70416

Sealing grip pliers

- Chrome vanadium steel, nickel-plated, tempered, hardened jaws
- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes Ø 4 16 mm and hoses
- With leverage and guick-release lever, adjustable and lockable







Pipe welding grip pliers

Chrome vanadium steel, nickel-plated, hardened jaws

- For safe, central clamping of pipes and round material aligned during welding work
- Reliable 3-point support, for steel pipes up to Ø 3"
- U-shaped clamping jaws allow enough room for welding
- With leverage and quick-release lever, adjustable and lockable

L Inch	L mm	Jaw width mm	ΔgΔ	No.
11"	280	95	840	70257





EASYGRIP

Automatic strap wrench for plastic pipes Ø 20 - 160 mm (3/4 - 6")

The indispensable tool for socket welding large diameter plastic pipes

KEY FEATURES

- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap

Model	▶ mm	Inch	$\sqrt[]{\log \Delta}$	No.
EASYGRIP	20 - 160	6"	1.0	55075
Spare strap EASYGRIP			0.1	55076



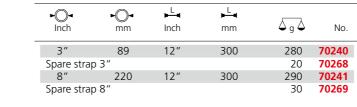
Centred prismatic support



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)





Installation wrenches

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	670	1 10	73297
UNI stepped key	120	1	73298
Gas stepped key	80	1	73280
1/2" ratchet	440	1	27180





Express spanner

Chrome vanadium steel, drop forged, chrome-plated



KEY FEATURES

Express spanner

- Ideal for hard-to-reach screws
- Quick installation of sink fittings and corner valves
- Hanger bolt M10, middle piece with internal screw thread
- Easy loosening of the hanger bolt with integrated ball seat
- When the internal hexagonal screw is loosened, the hanger bolt can be moved on the spanner axle (longer lever)

Ring ratchet express spanner

With the smallest of ratchet angles, fine-toothed, R/L switchable, 12-edged, flat offset



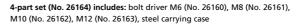
Spanner width	size	mm	$\delta_g \delta$	No.
Wrench size 10 x muzzle siz	e 13 M8	220	250	73290
Wrench size 17 x muzzle siz	e 19 M10	220	250	73299
Wrench size 17 x muzzle siz	e 19 M12	220	250	73291
Wrench size 19 x ring size	17 M10	260	390	73293

Bolt driver

Bolt driver M6, M8, M10, M12 with 1/2" ratchet connector

KEY FEATURES

- Without damage to the screw thread, for express and hanger bolts
- Easy loosening of the screw with the integrated ball seat



Model	L mm	$\sqrt[]{g}$	No.
Set M6 - M8 - M10 - M12		650	26164
Bolt driver M6	35	70	26160
Bolt driver M8	40	90	26161
Bolt driver M10	45	100	26162
Bolt driver M12	50	120	26163

Simple installation



Sanitary four way key

Chrome vanadium special steel

KEY FEATURES

- Four external hexagonal 3/8", 1/2", 3/4", 1" up to 100 mm and installation / removal of heating valves and tank connectors
- Three inner threads M8, M10 and M12 for hanger bolts

Model	Dir	mensions Δ_g	No.
Sanitary four wa	y key 22	0 x 220 61	0 351043
multifunctional			

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	ΔgΔ	No.
Sanitary four way key	220 x 220	590	351044
multifunctional			

Ring ratchet express spanner

Installation wrenches

Installation wrenches

ROFIX SANISET Profi

Installation tool





No. 73200

1 tool for 5 uses!

User-friendly combination set for installation of basins,

KEY FEATURES

- Bolt driver tool for M8 and M10 enables easy use in all positions
- Seat for the 9 mm and 13 mm extensions as well as the RO-QUICK 2 adaptor with the bolt driver tool
- Ease of use with the RO-QUICK 2 adaptor for the most common drains in bathtubs and basins





Set (No. 73200) includes: bolt driver tool (No. 73201), RO-QUICK 2 adaptor (No. 73206), extension 9 mm (No. 73210), 13 mm (No. 73213), steel carrying

Set (No. 73202) like set (No.73200), in addition extensions size 10, size 11,

Model	with e	extension mm	ΔgΔ	No.
ROFIX SANISET		9-13	900	73200
Bolt driver tool				
M8 / M10		215	120	73201
ROFIX SANISET Profi	9-10-	11-12-13-14	1,500	73202
RO-QUICK 2-adaptor		90	40	73206
Special extension size	SW 11	185	50	73208
Special extension size	SW 10	185	50	73209
Special extension size		185	50	73210
Special extension size	SW 12	185	50	73212
Special extension size	SW 13	185	50	73213
Special extension size	SW 14	185	50	73214

RO-QUICK

Valve key

Release valve holder and key for eccentric and standard valves



ROTHENBERGER



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	<u>L</u> mm	$\Delta_g \Delta$	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°!

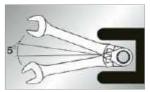


Fig. ROCLICK wrench set

Adjustable inclination angle

7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	ΔgΔ	8	No.
ROCLICK spanner set, 7 pcs.	1,150	1 12	70490



Small 5° operating radius



DIN -Norm

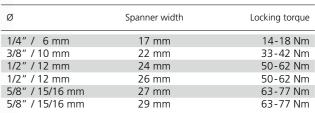
Torque wrench set

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







7-part set (No. 1750.01) includes: spanner wrench sizes 17 - 22 - 24 - 26 - 27 - 29 mm, torque wrench, carrying bag

Model	$\Delta_{kg}\Delta$	No.
Torque wrench set, 7 pcs.	3.5	175001

Installation wrenches

Ratchet spanner ROCLICK

Chrome vanadium, head black atramentized



Model	Key width mm	L mm	ΔgΔ	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

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	L mm	ΔgΔ	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

Ring ratchet spanner

Chrome vanadium steel, drop forged, chrome-plated



KEY FEATURES

- Ideal for hard-to-reach screws with the finely toothed R/L switchable ratchet
- 12-edged, flat offset, robust and indestructible

Model	<mark>⊩_</mark> mm	ΔgΔ			No.
12 x 14 mm	230	200	1	36	70271
13 x 17 mm	250	280	1	36	70272
19 x 22 mm	310	440	1	36	70274
24 x 27 mm	360	700	1	36	70276

Adjustable wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

KEY FEATURES

• Precise operation: Smooth-running and robust roller with minimum play in the sliding guides



Size	up to	Clamping width	Δgδ	No.
6"	160 mm	20 mm	100	70441
8"	210 mm	25 mm	220	70442
10"	250 mm	29 mm	390	70443
12"	300 mm	34 mm	660	70444
15"	380 mm	44 mm	1,170	70445
	6" 8" 10" 12"	6" 160 mm 8" 210 mm 10" 250 mm 12" 300 mm	6" 160 mm 20 mm 8" 210 mm 25 mm 10" 250 mm 29 mm 12" 300 mm 34 mm	6" 160 mm 20 mm 100 8" 210 mm 25 mm 220 10" 250 mm 390 12" 300 mm 34 mm 660

SWO adjustable wrench

Chrome-vanadium steel, chrome-plated and polished finish

KEY FEATURES

- Metric measuring scale on jaws for easy jaws pre-setting and sizing of nuts, bolts, pipes, etc.
- Great accessibility in confined spaces, non-protruding jaw shank at maximum opening
- Absolutely parallel jaw surfaces ensure perfect grip of nuts and screws



Size	up to	Clamping width up to mm (Inch)	\sqrt{g}	No.
6"	176 mm	34 (1.3/8")	205	1500001509
8"	216 mm	39 (1.1/2")	345	1500001510

One-handed type R

The ideal multi-function spanner with ratchet function – for almost all bolt and nut applications up to a size of 42 mm (1.1/4")

KEY FEATURES

• Self-clamping even on smooth pipes, bolts, shafts and broken off head of hexagonal screws



p ≟-4	<u>L</u>	Clamping width	Clamping width	$\sqrt[]{g}$	No.
160 mm	6"	SW 9-17	1/8 - 3/8"	80	70220
200 mm	8"	SW 14 - 28	1/4 - 3/4"	200	70221

Enormous leverage!

▶ └-4	-	Clamping width	Clamping width	∆ g ∆	No.
255 mm		SW 16 - 33	3/8 - 1"	340	70222
310 mm		SW 22 - 42	1/2 - 1.1/4"	520	70223

Double-ended ring wrench set

Chrome vanadium steel, chrome-plated DIN 838

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32 mm

12-part

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Combination wrench set

Chrome vanadium steel, chrome-plated DIN 3113 8x8, 9x9, 10x10, 11x11, 13x13,14x14, 17x17, 19x19 mm

Model			No.

849064

849065

Model	No.
Combination wrench set 8-10 mm 8 ncs	8/055/

Double open-ended wrench set

Chrome vanadium steel, chrome-plated DIN 3110

Double-ended ring wrench set, 6-32 mm, 10 pcs.

Double-ended ring wrench set, 6-32 mm, 12 pcs.

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



Model	No.
Double open-ended wrench set, 6-32 mm, 10 pcs.	849334
Double open-ended wrench set, 6-32 mm, 12 pcs.	849335
Double open-ended wrench set, 12 x 13 mm	849299

Model	No.
Double open-ended wrench set, 16 x 17 mm	849306
Double open-ended wrench set, 18 x 19 mm	849308

Screwdrivers

Screwdrivers

EUROLINE Screwdrivers

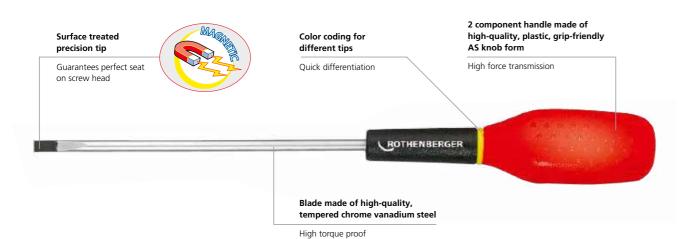
Product profile

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	$\sqrt[]{\log \lambda}$	No.
Screwdriver set Pozidriv	0.70	73571
Screwdriver set Phillips	0.70	73570

Sets include:	No. 73571	No. 73570
	3.5 x 75 mm	3.5 x 75 mm
	4 x 100 mm	4 x 100 mm
	5.5 x 125 mm	5.5 x 125 mm
	6.5 x 150 mm	4 x 100 mm
	PZ 1 x 100 mm	
	PZ 2 x 125 mm	
\wedge		PH 1 x 100 mm
lacksquare		PH 2 x 125 mm

Phillips screwdriver



Pozidriv screwdriver



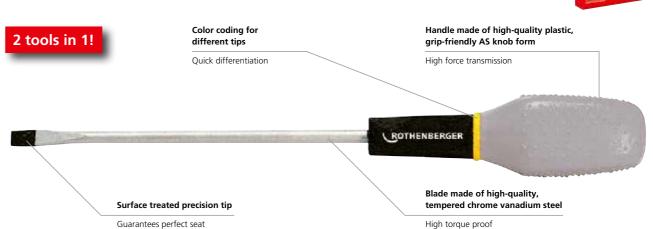
Tip design Width x Length mm	Model	ΔgΔ	No.
PH 1 x 100	Phillips	80	73152
PH 2 x 125	Phillips	98	73153

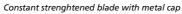
Tip design Width x Length mm	Model	ΔgΔ	No.
PZ 1 x 100	Pozidriv	80	73161
PZ 2 x 125	Pozidriv	98	73162

Chisel screwdriver set EUROLINE IMPAKT

Screwdriver with continuous, strengthened blade

Set (No. 73575) includes: **Product profile** 5.5 x 100 mm 6.5 x 125 mm **KEY FEATURES** 8 x 150 mm • One-piece, strengthened blade with metal cap allows directed PH 1 x 80 mm hammer blows, for example loosening stuck screws PH 2 x 100 mm









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	$\Delta_g \Delta$	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

on screw head



Model	$\Delta_g \Delta$	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

Installation aids

ROCHECK

Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

KEY FEATURES

- With horizontal and head levels
- One side with 1/2" external screw thread

Precise Installation!



ROCHECK

Spirit level for standard distances

Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

KEY FEATURES

• For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm

Exact Adjustment!

Exact installation by assembling jig for braces



4-part set (No. 70667) includes: spirit level for angled valves 200 mm (No. 70661), spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

Model	$\Delta_g \Delta$	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

Screw the appropriate cartridge extractor on the threaded rod, attach to the cartridge, guide the cartridge body and counter piece over the thread rod, rotate the t-handle and pull the cartridge out of its seat.

Set (No. 854390) includes: T-handle (No. 854380), screw 12 x 92 (No. 854381), turning handle (No. 854382), threaded rod M10 x 130 (No. 854383), cartridge body 32 x 131 (No. 854384), cartridge extractor with thread (No. 854385), cartridge extractor with hook (No. 854386), cartridge extractor 20 x 45 (No. 854387), counter piece (No. 854388), steel carrying case

Model	ΔgΔ	No.
9-part set	1.250	854390

Tap reseating tool

For exact re-cutting of worn tap seats from leaky spigots

Product profile

- Fast and simple use with exact re-cutting of worn tap seats
- Cylindrical stepped threaded adaptor that is suitable for all conventional fittings
- Adjustable cutting pressure using spring and regulating screw enable precise work
- Exchangeable cutter is always ready for use







Model	►O Inch	\sqrt{g}	No.
Basic Tool with cutter	3/8" - 1"	350	70970
3/8" - 1/2" - 3/4" - 1" in Box			
Basic Tool with cutter	3/8" - 1"	980	70974
3/8" - 1/2" - 3/4" - 1"			
and each with 3 seals in steel comp	artment		
Basic Tool with cutter	1/4" - 1"	1,060	70972
1/4" - 3/8" - 1/2" - 3/4" - 1"			
and each with 3 seals in steel box			
Basic Tool without cutter		250	70950
Water-tap valve seat cutter			70951
Spare cutter	1/4"	10	70976
Spare cutter	3/8"	10	70954
Spare cutter	1/2"	10	70955
Spare cutter	3/4"	20	70956
Spare cutter	1"	30	70957



Installation aids

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	⊢L mm	$\Delta_{g}\Delta$	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	\sqrt{g}	No.
Tape measure ROMA Folding ruler, wooder		19	230 100	77397 252100

Basin nut wrench

Special chrome vanadium steel, drop forged, very tough

KEY FEATURES

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation







Clamping range mm	Clamping range Inch	mm	$\sqrt[]{g}$			No.
19 - 32	3/4" - 1.1/4"	235	475	1	40	70228

Telescopic basin nut wrench

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation



Clamping range mm	Clamping range Inch	<u>L</u> mm	ΔgΔ	No.
10 - 32	3/8 - 1.1/4"	275 - 455	710	70225
20 - 48	3/4 - 1.7/8"	290 - 470	740	70226
32 - 63	1.1/4 - 2.1/2"	290 - 470	780	70227

Sheet metal crimping pliers

Self-opening, PVC coated handles

- For joining of sheets up to 1 mm thick using ripple on pipe end
- Exact and quick adjustment



<u>L</u> Inch	<u>L</u> mm	Sheet thickness mm	ΔgΔ	No.
10"	250	1.0	450	71095

Tower pincers / concreter's nippers

Special forged steel, slim head, polished, long plastic covered handles



Inch	mm	Clamping width mm	\sqrt{g}		No.
9"	225	22	330	6	70118
10"	250	26	440	6	70119

Basin nut pliers

Special chrome vanadium steel, drop forged, coated with adjustment screw



Model	<mark>⊩∟</mark> ⊲ mm	ΔgΔ	No.
Basin nut pliers	270	580	351050

ROBOLT bolt cutter

Effortless cutting of construction steel up to 1300 N/mm² (HRC 40), gate steel, concrete steel types I, II, III, IV, pre-stressed concrete steel and steel wire



mm Inch	Cutting performance Ø mm 490 N/mm² 1300 N/mm²	$\Delta_{kg}\Delta$	No. Robolt	No. head
300 12"	5 mm - 3/16" 4 mm - 5/32"	0.75	75010	_
350 14"	7 mm - 1/4" 5 mm - 3/16"	0.98	75011	75021
450 18"	8 mm - 5/16" 6 mm - 1/4"	1.60	75012	75022
600 24"	10 mm - 3/8" 8 mm - 5/10"	2.63	75013	75023
750 30"	13 mm - 1/2" 9 mm - 11/32"	4.00	75014	75024
900 36"	16 mm - 5/8" 10 mm - 3/8"	6.24	75015	75025
1.050 42"	19 mm - 3/4" 11 mm - 7/16" !	9.39	75016	75026

Universal grip wrench

Nickel-plated, forged chrome vanadium steel. Firm grip of profiles and flat materials. With lever gear and quick-release lever, adjustable and lockable



⊾_ Inch	L ⊸ mm	Clamping width mm	ΔgΔ	No.
10"	250	32	570	70252

Installation aids

Electrical power combination plier

- 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



L mm	ΔgΔ	No.
180	250	1500003163

Electrical 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



<mark>L</mark> mm	ΔgΔ	No.
180	210	1500003164

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



<u>L</u> mm	∑ _g ∆	No.
180	230	1500003167

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
- High cutting performance suitable for piano wire up to Ø 2.5 mm



Electrical	lona	nose	plier

- 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

L mm	ΔgΔ	No.
200	200	1500003168

Ergonomic electrical installation plier

300

1500003166

1500003169

- 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

200

200



Allen key with cross handle

Blade made of chrome vanadium special steel, shiny nickel-plated, shock-resistant handle



Key width SW mm	Blade length mm	gth $\sqrt[]{g}$	
3	200	30	321523
4	200	40	321524
5	200	80	321525
6	200	100	321526
8	200	130	321528
10	200	220	321529
12	200	290	321530

Allen key set

CV steel 50Cr-V4, achromatised, hardness and torque





No 321300

No 70301/70302

Model	Size mm / Inch	ΔgΔ	No.
Clip holder	2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	340	70301
Clip holder	3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8"	340	70302
Ring	2 - 2 5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250	321300

RO DD60 cordless drill driver

KEY FEATURES

- Quick change of bit retainer and bits, for flexible working
- Spindle with hexagonal recess for screwdriver bits for working
- 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

in compliance with DIN 911





odel	mm / Inch	∆g∆	No.
lip holder	2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	340	70301
lip holder	3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8"	340	70302
ng	2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250	321300

The RO DD60 can be used as drill and screwdriver

TECHNICAL DATA

18 V Batteryvoltage: 34 Nm / 60 Nm Max. torque:

Weight with battery pack: 1.9 kg 13 mm Drill-Ø steel: Drill-Ø soft wood: 38 mm



Extremely powerful

4-pole motor for fast drilling



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)

Wodel		110.
RO DD60 drill driver w/o battery and charger	1	1000002035
RO DD60 drill driver set EU	1	1000001647

Intelligent battery management

with charge indicator to control the

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

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

Installation aids

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, quick release magnetic bit holder

- 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

DIN -Norm

PROFI PLUS

Twist drill set DIN 338 type N

HSS rolled, all drill diameters in 0.5 mm diameter steps





Model	Drill range mm	Drill quantity	$\Delta_{g}\Delta$	No.
In STEELBOX	1.0 - 13.0	25 pcs.	1,400	817003
In ROUNDBOX	1.0 - 10.0	19 pcs.	465	816990

Screw extraction sets

For boring out broken screws or bolts for threads M 5 - M 16

INSTRUCTIONS FOR USE

- 1. Apply bore with guide bush and the appropriate, ground HSS drill bit. Pre-bore for screws 7 mm diameter and above
- 2. Insert boring stud (no deformation of the drilled workpiece)
- 3. Attach boring nut and turn with spanner, do not tilt
- 4. Use special guide bushes for sunken or protruding rupture points







Instructions for screw extraction

For rough-running threads, spray on solution or apply heat. Boring studs are made of high-quality material, therefore they do not twist or heat up.

Screw extraction sets

Packaged in handy plastic box with spiral drills, guide bushes, boring studs and boring nuts

Set	Set contains complete for	Quantity piece	Δgδ	No.
Size 1	M 5 - M 12	21 pcs.	450	71310
Size 2	M 5 - M 16	25 pcs.	580	71311

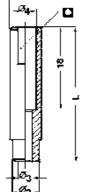
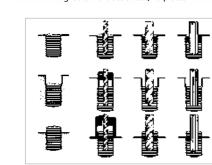




Fig. Screw extraction set, 25 pieces



For thread	Guide bush size	Guide bush No.	mm	Pre-boring No.	▶ mm	Boring No.	Boring stud Gr.	mm	Boring stud No.	Boring nut hex for size	Boring nut No.
M 5	Size 1	71291			3.2	71301	Size 1	3.2	R7128100	Size 1 / SW 10	71286
M 6	Size 2	71292			3.2	71301	Size 2	4.8	R7128200	Size 1 / SW 10	71286
M 7	Size 3	71293	3.2	71301	4.8	71302	Size 3	6.4	R7128300	Size 2 / SW 11	71287
M 8	Size 4	71294	3.2	71301	4.8	71302	Size 4	8.0	R7128400	Size 2 / SW 11	71287
M 9	Size 5	71295	4.8	71302	6.4	71303	Size 5	8.7	R7128500	Size 3 / SW 13	71288
M 10	Size 6	71296	4.8	71302	6.4	71303				Size 3 / SW 13	71288
M 12	Size 7	71297	4.8	71302	8.0	71304				Size 4 / SW 14	71289
M 15	Size 9	71299	6.4	71303	8.7	71305				Size 5 / SW 17	71290
M 16	Size 10	71300	6.4	71303	8.7	71305				Size 5 / SW 17	71290

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 & 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.

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 7-10-15-20-25-27-30-40-45 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



Woder	140.
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. 340

Drill bits

UNIDRILL

Drill bits

HSS sheet metal cone bit

Step-less and burr-free drilling of holes without deformation, suitable for even the thinnest of sheets, no pre-drilling, can be re-polished, with spot drilling tip for size 3 and above





3-part set (No. 21545) includes: sheet metal cone bit size 1 (No. 21541), size 2 (No. 21542) and size 3 (No. 21543), in plastic cartridge

Size	► ○ ◄ mm	ΔgΔ	No.
UNIDRILL set with drill paste	3.0 - 30.5	380	21545
EVERCOOL drill paste, 50 g		80	21549

HSS bimetal hole saws

Suitable for carbon steel (up to 700 N/mm² strength), non-ferrous and light metals, plastics, plaster, light construction, fibre, plywood and wood processing

Sets include: hole saw set in plastic case, adaptor holder A1 (No. 114161) and A2 (No. 114162) with center drill, plastic case

Hole saw sets	$\sqrt[]{\log \Delta}$	No.
19 - 22 - 29 - 38 - 44 - 57 mm	1.27	114201
19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm	1.70	114202



No. 114201

Adaptor holder

For HSS bimetal hole saws with center drill

Туре	for Hole saw	Adaptor	$\sqrt[]{g}$	No.			
A2	32 up to 152 mm	12 mm - 6-hex	230	114162			
Spare center drill, HSS		6.35 mm	20	114171			

HSS bimetal hole saws

mm	for use with holder	No.
35	A2	114035
43	A2	114043
54	A2	114054
57	A2	114057

► mm	for use with holder	No.
79	A2	114079
83	A2	114083
111	A2	114111
127	A2	114127

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







mm	Inch	\sqrt{g}	No
16	5/8"	100	21316
29		140	21329
32	1.1/4"	180	21332

► mm	Inch	ΔgΔ	No.
34		180	21334
35	1.3/8"	190	21335

Set (No. 21300) includes: hard metal hole saws, drill- and extraction paste (No. 21549) and spare centering pin Ø 6 mm (No. 21394), in plastic case

Model	ΔgΔ	No.
UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm Spare centering pin HSS 8 mm	950	21300 21395

UNIDRILL

HSS stepped drill bit

In one step, sheets can be centred, spot drilled, drilled and deburred

3-part set (No. 21313) includes: stepped drill bit size 1 (No. 21305), size 2 (No. 21306)

Model			► O	\sqrt{g}	No.
UNIDRILL	stepped drill bit s	set, 3 pcs.	4 - 30	660	21313
Size	► mm	L mm	Shaft mm	ΔgΔ	No.
3	4 - 30	100	10	185	21307





No. 21313

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

High torque

Maximum power

Intelligent battery management

with charge indicator to control the status of charge

- 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

Battery voltage: 18 V

Weight with Batterypack: 1.9 kg 400 Nm Max. torque: Max. no-load speed: 0 - 2,150 rpm

Maximum impact rate: 4,250 rpm

Unique brushless motor

For quick work progress and highest efficiency for any application





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.
RO ID400 impact wrench w/o hattery and charger	1	1000002036

RO ID400 impact wrench set EU

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

1 1000001648

General purpose tools

Cutting & grinding

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

18 V **Battery voltage:**

Weight without

1.7 kg

Batterypack: Idle frequency: 8,000 / min-1 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.

1 1000002037 RO AG8000 angle grinder w/o battery + charger RO AG8000 angle grinder set EU 1 1000001649

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

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



No. 1300003338

Rotary hammer

General purpose tools





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

battery platform.

KEY FEATURES

- Combination hammer with 3 functions: hammer drilling, drilling
- Variospeed (V) electronics for working at customised speeds to suit various application materials

place and pipe clamps can be fastened. There are no working hindrances due to empty batteries, thanks to the ROTHENBERGER

- 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

18 V Battery voltage: 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

Mechanical decoupling of the drive for save working. in case the drill driver stops unexpectedly



Variospeed (V) electronics

For working at customised speeds to suit various application materials

LED liaht Integrated working

light to illuminate the contact area Intelligent battery management with charge indicator to control

Set (No.1000001649) 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)

Wodel		140
RO RH4000 rotary hammer w/o battery + charger	1	100000203
RO RH4000 rotary hammer set EU	1	100000165

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 disc assortment

For burr-free and quick cutting of stainless steel,

steel, cast iron and stone		ed ar	stren	steel	and	d ste	pane	led jo	d sta		mnium	ē	/ brc
Description	No.	Alloy	High	100	Rust-	Edge	Steel	Weld	Edge	Cast	Alun	Copp	Brass
Cutting disc INOX PROFI PLUS (115 x 1 x 22)	071533D	•	•	•	••	••	••	••	••	0	••	••	••
Cutting disc INOX PROFI PLUS (125 x 1 x 22)	071534D	•	•	•	••	••	••	••	••	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	Δgδ			No.
PROFI PLUS box 115	115 x 1 x 22	350	1(10)	25	071533D
PROFI PLUS box 125	125 x 1 x 22	450	1(10)	25	071534D









Follow work



Do not use defective grinding/



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

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

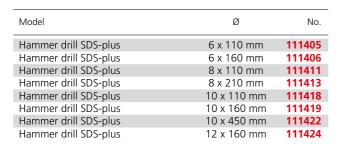












Model	Ø	No.
Hammer drill SDS-plus	12 x 260 mm	111426
Hammer drill SDS-plus	14 x 260 mm	111432
Hammer drill SDS-plus	16 x 210 mm	111439
Hammer drill SDS-plus	18 x 450/410 mm	111447
Hammer drill SDS-plus	20 x 450 mm	111422
Hammer drill SDS-plus	22 x 450 mm	111452
Hammer drill SDS-plus	25 x 450 mm	111455

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	1	1000001734
RO FL180 LED lamp set EU	1	1000001651

ROTHENBERGER

TECHNICAL DATA

Max. lumin. flux: 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

General purpose tools

Battery & 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-lon 4.0 Ah, the Li-HD 4.0 Ah is having less weight, a slimmer design, but still the same performance.

Intelligent battery management

Permanent Electronic Single Cell Protection (ESCP) when charging, for particularly long life









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	1	1000001652
RO BP18/4, 4.0 Ah 18 V Li-Power battery	1	1000001653
RO BP18/4, 4.0 Ah 18 V Li-HD battery	1	1000002548
RO BP18/8, 8.0 Ah 18 V Li-HD battery	1	1000002549
RO BC14/36 battery charger, 230 V, EU	1	1000001654

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

100% compatibility for over 140 machines in the 18 V class!



Hammers, chisels, pin punches

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 $\sqrt[4]{g}$	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





Model	Length mm	Shaft mm	Cutting width mm	without hand protection $\sqrt[]{g}$	with hand protection $\sqrt[]{\int g \Delta}$	No.
Mason chisel, flat	300	16	22	470	560	77050
Slotted chisel	235	26 x 7	26	245		25811

Parallel vice

With forged and hardened pipe jaws, steel forged underneath the parallel vice jaws

- Non-breakable
- Protected, powerful spindle with trapezoidal thread
- Re-adjustable double-sided guide
- Anvil base for levelling and compressing work



Jaw width mm	Clam width mm	nping depth mm	for pipes Inch	for pipes mm	$\sqrt[4]{\log \lambda}$	No.
120 140	125 150	65 80	3/8 - 1.1/2" 3/4 - 2"	16 - 55 27 - 70	8.7 07 0	

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





Vices



For pipes / inch	▶ for pipes / mm	$\sqrt[b]{\log \Delta}$	No.
1/8 - 2"	10 - 60	3.7	70710
Spare jaws (contains: 3 pcs.)		0.2	70670
1/8 - 3"	10 - 89	7.9	70712
Spare jaws (contains: 3 pcs.)		0.2	70672
1/8 - 4"	10 - 114	11.7	70711
Spare jaws (contains: 3 pcs.)		0.2	70671

Chain pipe vice

Tough, powerful design with V-shaped support, bending device, pipe support, wear-resistant jaws are forged and hardened, powerful chain, quick fastening due to offset lever and pre-tensioning screw, simple conversion to other pipe diameters, extremely robust powder epoxy coating

 V-shaped pipe supports with teeth and bridge prevent undesired bending during clamping

Exchangeable jaws



For pipes / Inch	for pipes / mm	$\sqrt{kg} \Delta$	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 2	70722

ROBOY clamping workbench

For on-site repair and service work

- Portable, handy and practical workbench with the smallest
- 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	$\sqrt[L]{\log L}$	No.
ROBOY	650 x 400	14.9	70700

General aids & tool bags

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	$\overline{\Delta_{kg}\Delta}$	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

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	$\sqrt[b]{\log \Delta}$	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	1,200 x 550 x 835	30 0	70690X
Pipe-fitter	1,000 x 700 x 835	32	70696
Pipe-fitter	1,200 x 750 x 835	38	70698

Hemp dispenser with roll



Model		No.
Roll 40 g / 40 m	1	70623

All-purpose marker

Writes on tile and glass

Carpenter pencil

856911 All-purpose marker

Cutter knife



Model		No.
Cutter knife w/ 4 blades, 18 mm	1	1500000087
Blades for cutter knife (10 pcs.)	1	1500001299

Trendy tool bag

 Lots of storage room for all your tools

Tool bag

 Offers a lot of pockets and tool holders with a waterproof plastic bottom

Tool bag, small

Carpenter pencil

 Offers a lot of pockets and tool holders with a waterproof plastic bottom

Volume

Tool bag, **HEAVY DUTY**

856907

 Especially stable with the stable plastic bottom







Model		No.
Trendy tool bag (380 x 300 x 370 mm)	1	402311
Tool bag (450 x 285 x 335 mm)	1	1500001320



Model		No.
Tool bag, small (280 x 360 x 230 mm)	1	1500002182
Heavy duty tool bag (620 x 250 x 350 mm)	1	402317

Toolbox apprentice

• Lots of storage room for all your tools

Belt bag Very light, handy bag for the most important tools

• Keeps the tools organized and easy to grab when needed



Model		No.
Toolbox apprentice	1	402312
Belt bag (250 x 120 x 310 mm)	1	1500001460
Belt for belt bag	1	1500001461
•		

Trendy shoulder toolbox

Very light, handy bag for the most important tools

Tool bag universal Ideal for hand tools with straps and flaps inside the roll cover







Model		7
Trendy shoulder toolbox (250 x 220 x 140 mm)	1	40
Tool bag universal (220 x 440 x 230 mm)	1	150000



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), express spanner, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), allen key set, 7-parts, 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. 100001425) 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, express spanner (M10, SW 17 x 19), 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), double-end box wrench set (10 pcs., 6-32 mm), tool bag (450 x 285 x 335 mm)

Model		No.
General purpose tools set, 57 pcs.	1	1000001425

General purpose tool set, 13 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 plier SP 10", water pump plier SP 7", professional cutter knife, MINI MAX Tube Cutter, 3-28 mm, GRATFIX HSS with spare blade, ring ratchet express spanner, M10, 17x19, 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.
General purpose tools set, 13 pcs.	1 .	1000001745

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 l	14.9	23.5	48.2
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	1



Model		No.
ROCASE 4212 red, without inlay 39 x 19 x 12 cm	1	1300003334
ROCASE 4212 anthracite, without inlay, 39 x 19 x 12 cm	1	1300003649
ROCASE 4407 red, without inlay 39 x 39 x 7 cm	1	1300005506
ROCASE 4414 red, without inlay 39 x 39 x 12 cm	1	1300003541
ROCASE 4414 anthracite, without inlay, 39 x 39 x 14 cm	1	1300003338
ROCASE 6414 red, without inlay, 59 x 39 x 14 cm	1	1300003336
ROCASE 6427 red, without inlay, 59 x 39 x 27 cm	1	1300003337

Case system

Case system

ROCASE shoulder belt

Model		No.
ROCASE shoulder belt with logo	1	1500002239

ROCASE 4212/4414 pluck foam inlay

Model		No.
ROCASE 4212 pluck foam inlay ROCASE 4414 pluck foam inlay	1	1500002449 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 travs and ROBOXES	1 1000	002108

ROBOX set for ROCASE 4414

Set includes: 1x ROBOX tray, 6x ROBOX B2350 (No. 1500002641)

Model		No.
ROBOX set for ROCASE 4414	1	1000002109

ROBOX

Model		No.
ROBOX B2350, 192 x 114 x 50 mm ROBOX B2650, 364 x 114 x 50 mm	1	1500002641 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		No.
ROCASE 4407 with ROBOX, 390 x 390 x 70 mm	1	1000002625



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		${\textstyle \sqrt{\log}} {\textstyle \sqrt{\log}}$	No.
ROCASE trolley, 78 x 48.5 x 6 cm	1	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	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:

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





ROCASE sets with ROBOX

The ROCASE sets contain seperate handtool and trimming sets for pipe working





• Handy and reusable individual packaging of the tool sets

Case with click-system for easy transport

KEY FEATURES





Set (No. 1000002195) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193). 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4 (No. 1000002181), 10 pcs. color ring bit set 1/4" (No. 1000002182), ROBOX B2350

Set (No. 1000002197) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. with ALUDUR, ROBOX (No. 1000002189), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (No. 1000002181), 10 pcs. color ring bit set 1/4" (No. 1000002182), ROBOX B2350 (No. 1500002641)

Set (No. 1000002199) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (1000002181), ROBOX B2350 (1500002641), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutter wheels, ROBOX (No. 1000002190). MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191)

Set (No. 1000002223) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (No. 1000002181), ROBOX B2350 (No. 1500002641), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutter wheels, ROBOX (No. 1000002190), TUBE CUTTER INOX TC35 + cutting wheels, ROBOX (No 1000002222)

Model	$\sqrt[4]{\log \Delta}$	No.
103 pcs. handtool set with corner pipe wrench, ROCASE	7.07	1000002195
103 pcs. handtool set with one-handed pipe wrench ALUDUR, ROCASE	7.17	1000002197
94 pcs. handtool set with MINICUT and MINI MAX, ROCASE	5.59	1000002199
98 pcs. handtool set with INOX TUBE CUTTER TC35, ROCASE	5.61	1000002223

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Legend Abbreviations

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			

Abbreviation	Description
LED	Light Emitting Diode
МІМ	Metal Injection Molding
MPa	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
TÜV	Technical Inspection Association
UKS	Obital Circular Saw
UNC	Unified Coarse Threads
UNF	Unified Fine Thread
VA (Stahl)	Stainless Steel, Corrosion Resistant Steel
VCR	Video Cassette Recording
VDE	Registered Association of the Electrical, Electronic and Information Technology
VPE	Packaging Unit
WG	Hot Gas
ZN	Zinc
ZPZ	Bits per Inch
ZVSHK	German Central Association Plumbing, Heating and Air Conditioning

Legend

Pictograms





















Battery + AC operation









Cordless CAS Alliance

Miscellanezous







Basic soft soldering up to 450 °C









Fast cut

















360° rotatable



































Shock absorption



On / off



















Economy valve

























Bayonet coupling









gauge display











Filling supports









Heed indus-

trial safety





Measuring accuracy

With USB





Scale range



case







Heed safety









DURA LAZR TEC Laser hardening



5-Year-EXCHANGE GUARANTEE2)







ROTHENBERGER









1) More information at cordless-alliance-system.com 2) Detailed guarantee terms at rothenberger.com/de-de/5-jahres-umtauschgarantie

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 quarantees:

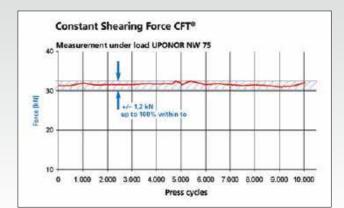
ROMAX Compact TT 19 kN for 40,000 press cycles

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

Higher stability with considerably lower weight

The **DURAMAG Technology (High Tec Magnesium Body)** offers the following benefits:

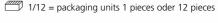
Improved performance

DURA = Durable MAG = Magnesium



Packaging units





ROTHENBERGER 359

for the sale of goods

for the sale of goods

General conditions for the sale of goods

- 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 shall only apply if the Buyer is an entrepreneur (Section 14 5. Apart from cases of a fixed price agreement, the par-BGB (German Civil Code)), a legal person under public ties undertake, at the request of a party, to agree, balaw or federal special funds. As a matter of principle, we do not directly supply consumers (Section 13 BGB).
- 2. The General Terms and Conditions of Sale apply, in given to whether or not we manufacture the Goods or purchase these from suppliers (Sections 433, 651 BGB). Unless agreed otherwise, the General Terms and Conditions of Sale apply as stated in the version Buyer places the order or, in any case, the version stated to the Buyer in text form, and applies to similar contracts in the future, without the necessity of us having to refer to the conditions again in each individual case.
- 3. Our General Terms and Conditions of Sale 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 insofar 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 § 4 Setting off, right of retention individual cases (including subsidiary agreements, supplementary information and amendments) shall have preference over these General Terms and Conditions of Sale. 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

- 1. 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

§ 3 Prices; terms and conditions of payment

- 1. Unless agreed otherwise, the prices apply EXW (IN-COTERMS 2010), in relation to our respective stated § 6 Delivery and performance time 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, € 10.
- 3. 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. In the case of payment within 10 days, the Buyer shall be granted a 2% trade discount provided the Buyer is not in default with our claims. The day of crediting on our account is authoritative in this respect

- Buyer we shall claim at least 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 (Section 353 of the German Commercial Code).
- sed on good faith principles, on an appropriate price correction if, in the case of a contract with a lengthy term, at least four months after entering into the contract order-related costs increase or drop for us, in a particular, to contracts on the sale and/or delivery of movable property (""Goods"") without consideration %) for reasons that are not our responsibility, e.g. as a result of increased raw material prices or energy costs.
- 6. In the case of default in payment on the part of the Buyer or in the case of reasonable doubt about the as a framework agreement that is valid at the time the Buyer's creditworthiness (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.
 - 7. 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)

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,

- 1. 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 tra-de by up to 10 %, at least however by two items. The actual delivery quantity shall be charged.
- 3. We do not accept any procurement risk for the Goods to be delivered.
- the Buyer or its shipping agent shall be borne by the

- 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. In exceptional cases, binding delivery periods 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

4. In the event of default in payment on the part of the 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 period shall be extended by the duration of the hindrance. Force majeure is equated with industrial disputes, official intervention, energy and raw material shortages, operational hindrances 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 reguest 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 indi rect damage, is excluded in accordance with Paragraph 9 of these General Terms and Conditions of Sale.

§ 7 Shipping and passing of risk

- 1. Unless agreed otherwise, all deliveries apply ex warehouse or ex works (see Paragraph 3 of these General Terms and Conditions of Sale), 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 deermined in respect of performing the consignment.
- 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 4. The cost of deadfreight that is the responsibility of undertake, to insure deliveries in the name and on account of the Buver.
 - 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. Where products can only be delivered in a certain 3. The day of notification of the readiness for despatch packaging unit, we reserve the right to round up to the

amount for the next higher quantity of packaging unit party claims is excluded. or impose a surcharge in the sum of 10%.

7. 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 tual obligations, the honouring of which is required of a reasonable additional period, or the Buyer waives to properly execute the contract and compliance with acceptance, we shall be entitled to send the Goods without acceptance or store them at the Buyer's cost and

§ 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 quarantees where an individual agreement has not been entered into. Performing work under warranty does not constitute 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 requispect and provide notification of defects (e.g. Sections 377, 381 HGB). 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 3. The Buyer shall be liable for any damage, pollution 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 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 accordan- 2. The parties agree that the reservation of title also ce 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 ticular an agreement on assignment prohibition with less application of the normal statutory limitation (Sec- our ownership. tions 195, 199 German Civil Code) 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 the joint ownership part. 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 direct damage. Compensation for indirect or collateral claim. The Buyer is to notify us without delay if an duction and use and pecuniary damage regarding third ceedings regarding its assets.

- 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 contracwhich 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 legal 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 red that the Buyer has honoured its obligations to in- 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.
- fails to properly inspect and/or provide notification of or loss of rental containers or pallets, and in such cases
- 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. Pothe goods for which notification of defects has been tential 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.
- 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 parclaims for damages that are based on faulty Goods uncustomers is prohibited that could result in the loss of
 - 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
- 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 limited to compensation of foreseeable, typical and be entitled to disclose the assignment and collect the damage such as the loss of expected profit, loss of pro-

- 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
- 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 provisions, in particular the German War Weapons Control Act and the Export Act as well as 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 Buver 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. Frankfurt am Main, Germany, 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.

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ROTHENBERGER

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