

ROTHENBERGER

# ROTHENBERGER

# NAIN CATALOG 2021

**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**<sup>1)</sup> batteries to operate more than 140 compatible machines.





# **100% COMPATIBLE**

### 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.<sup>2)</sup>



<sup>1)</sup> More information at cordless-alliance-system.com <sup>2)</sup> 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.

f 0 🗖

Visit us on Facebook, Instagram and YouTube!







### **Applications**

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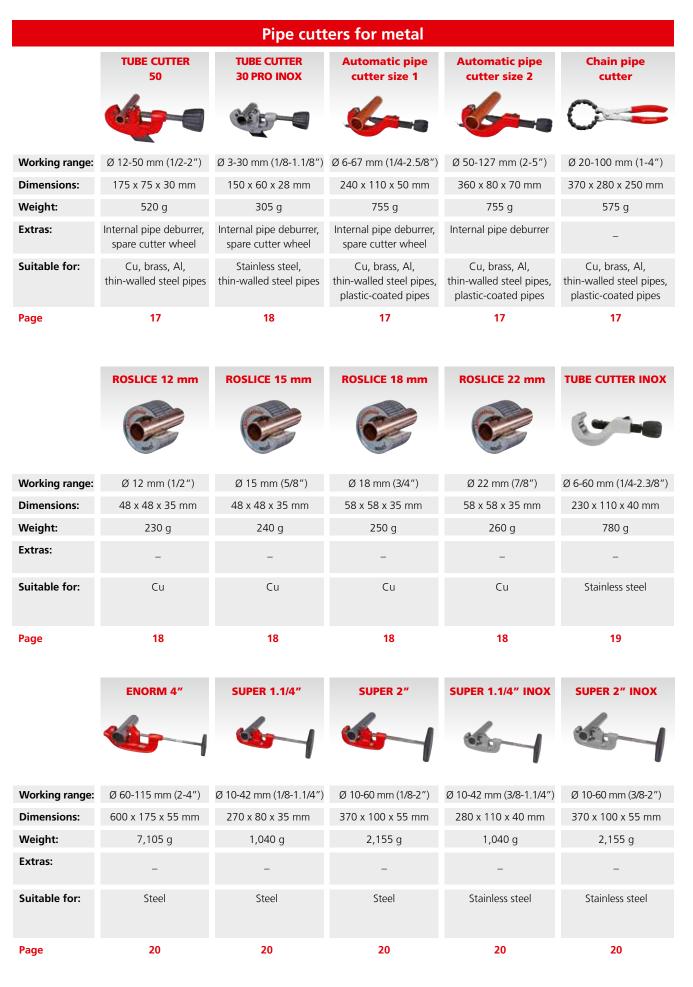


### System overview

		Pipe cutters for	metal, plastic, l	MLP	
	TC 35 DURAMAG	TC 35 C	TC 35 DURAMAG MLP	TC 35 PRO INOX DURAMAG	TC 42 PRO
		6	6		
Working range:	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	160 x 60 x 40 mm			
Weight:	255 g	470 g	255 g	255 g	550 g
Extras:	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
Page	14 - 15	14 - 15	27	14 - 15	14 - 15
	TC 42 XL	TC 42 PRO MLP	TC 42 PRO PVC	TC 42 PRO INOX	TC CSST
Working range:	Ø 6-42 mm (1/4-1.5/8")	Ø 10-42 mm (3/8"-1.5/8")			
Dimensions:	166 x 67 x 54 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	166 x 67 x 54 mm
Weight:	430 g	550 g	550 g	550 g	430 g
Extras:	Internal pipe deburrer, spare cutter wheel	Spare cutter wheel			
Suitable for:	Cu, brass, Al, thin-walled steel pipes	PE, PP, PVDF, plastic-coated pipes	PE, PP, PVDF, plastic-coated pipes	Stainless steel	Corrugated INOX pipes up to 0.2 mm
Page	15	27	27	15 - 19	19
	MINICUT I PRO	MINICUT II PRO	MINICUT 2000 30 PRO	MINI MAX 50	TUBE CUTTER 30 PRO INOX
	≤4,	<u>s</u>			4
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")
Dimensions:	46 x 35 x 22 mm	55 x 38 x 22 mm	70 x 40 x 30 mm	80 x 60 x 30 mm	150 x 60 x 28 mm
Weight:	110 g	125 g	140 g	270 g	305 g
Extras:	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle	Spare cutter wheel, spare cutter wheel	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes				
Page	16	16	16	16	17

1

### System overview



### System overview

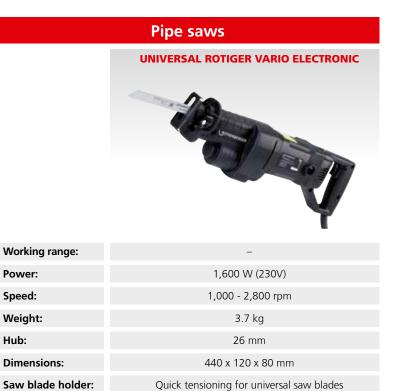
	Plastic shears							
	ROCUT TC 26	ROCUT TC 32	ROCUT PS 35	ROCUT PS 26/42 S				
	5-	<b>9</b>	1	T				
Working range:	Ø 0-26 mm (0-1")	Ø 0-32 mm (0-1.1/4")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")				
Dimensions:	190 x 80 x 30 mm	210 x 60 x 30 mm	215 x 195 x 40 mm	290 x 240 x 40 mm				
Weight:	370 g	220 g	740 g	950 g				
Suitable for:	PP, PE, PEX, PB, PVDF, MLP							
Page	22 - 23	22 - 23	22 - 23	22 - 23				

	ROCUT TC 42	ROCUT TC 50	ROCUT TC 63	ROCUT TC 75
		<b>~</b>	SF-	
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

		Cutting
	ROCUT 110	ROCUT 160
	<b>F</b>	
Suited for:	PE, PP, PVC, PEX, PVDF, PB**	PE, PP, PVC, PEX, PVDF, PB**
Outer pipe diameter:	Ø 32 - 110 mm	Ø 110 - 160 mm
Wall thickness:	Up to max. 16 mm*	Up to max. 16 mm*
Operation mode:	Manual	Manual
Function:	Cutting, chamfering	Cutting, chamfering
Page	24 - 25	24 - 25

System overview

	Plastic pipe cutters					
	TC 67 PL	TC 125 PL	TC 168 PL			
	ser.	<u>e</u>	<u>e</u>			
Working range:	Ø 6-67 mm (1/4-2.5/8")	Ø 50-125 mm (2-5")	Ø 110-168 mm (4.3/8-6.5/8")			
Dimensions:	230 x 110 x 40 mm	360 x 180 x 50 mm	390 x 220 x 50 mm			
Weight:	700 g	1,600 g	1,700 g			
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer	Internal pipe deburrer			
Suitable for:	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes	PE, PP, PEX, PB, PVDF-pipes, sound- isolated drain pipes			
Page	26	26	26			



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Extras:

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### Cutting **Cutting metal, manual**

#### **TUBE CUTTER 35 / 42 Pro** 1

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

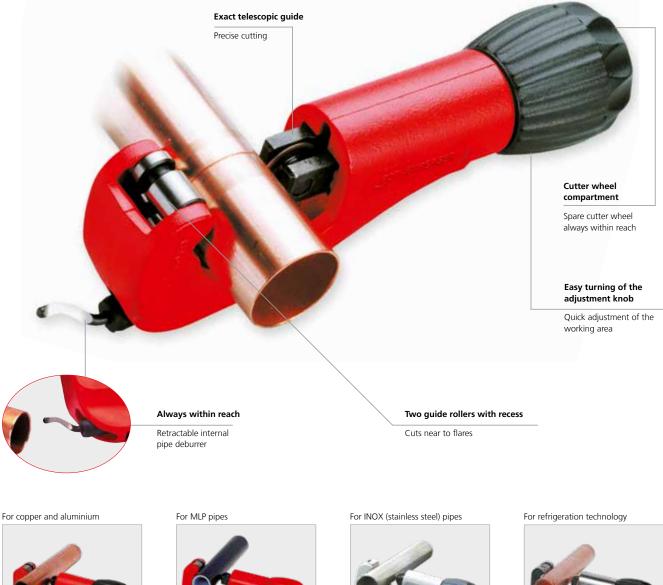




#### **KEY FEATURES**

- 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



TC 35 DURAMAG (No. 70027) TC 42 PRO (No. 70029)



TC 35 DURAMAG MLP (No. 70108) TC 42 PRO MLP (No. 70109)



TC 35 INOX DURAMAG (No. 70055) TC 42 PRO INOX (No. 70070)



TC 35 C (No. 070027C)

### ROTHENBERGER

### **Cutting metal, manual**

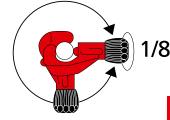
# TUBE CUTTER 35 DURAMAG counter display

Counter display includes six TUBE CUTTER 35 DURAMAG

#### **Product profile**

#### KEY FEATURES

- Improved performance
- Higher stability with noticeably less weight



DURAMAG HI-Tec magnesium body

The 100% magnesium body is up to

30% lighter than the previous model!

No. 100002190 No. 10000202

> 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. 100002002) includes:** TUBE CUTTER 35, 6 - 35 mm (70027), internal and external deburrer 6 - 35 mm (No. 150000237), permanent-marker Prepare to Press (No. 1500002640), ROBOX B2350 (No. 1500002641)

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

Constant, tight working radius of 123 mm

Model	► <b>○</b> ► mm	►O	∆ <sub>g</sub> ∆		No.
TUBE CUTTER 35 DURAMAG (Cu, brass, Al, thin-walled pipe)	6 - 35	1/4" - 1.3/8"	255	4	70027
TUBE CUTTER 35 + cutter wheel set, ROBOX 5	6 - 35	1/4″ - 1.3/8″	360	1	1000002190 *
Handtool set prepare to press	6 - 35	1/4" - 1.3/8"	460	1	100002002
TUBE CUTTER 35 DURAMAG counter display (6 pcs.)	6 - 35	1/4" - 1.3/8"	1,700	1	070027DB
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	4	070027C
TUBE CUTTER 35 DURAMAG MLP	6 - 35	1/4″ - 1.3/8″	255	4	70108
TUBE CUTTER 35 PRO INOX DURAMAG (stainless steel)	6 - 35	1/4" - 1.3/8"	255	4	70055
TUBE CUTTER 35 INOX + cutter wheel set, ROBOX 5	6 - 35	1/4" - 1.3/8"	500	1	1000002222 *
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	550	4	70029
TUBE CUTTER 42 PRO MLP	6 - 42	1/4″ - 1.5/8″	550	1	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	550	4	70072
TUBE CUTTER 42 PRO INOX (stainless steel)	6 - 42	1/4" - 1.5/8"	550	1	70070
				* F	ROBOX system p. 25

cutting

### **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: 20 x 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	∆ <sub>g</sub> ∆		No.
TUBE CUTTER 42 XL	500	1	1000001748
Spare cutter wheel (5 pcs.)	20	1	070056D



### **Cutting metal, manual**

### 1

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

**ROTRAC 28 / 42** 



#### **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	► <b>○</b> ◄ mm	► <b>○</b> - inch	Δ <sub>g</sub> Δ	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 PLU	IS chrome, lir	nited edition	220	100000046
Spare axle			5	70080
Spare cutter wh	eel INOX		2	070007X
Spare cutter wh	eel (3 pcs.) fo	or Cu, Al, brass	20	070007D

### **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	► <b>○</b> • mm	► <b>○</b> - inch	∆ g ∆		No.
MINICUT 2000	6 - 22	1/4 - 7/8″	140	4	70105
Spare cutter wheel	(5 pcs.)		20	1 070	)017D
Spare axle			5	1	70041

### ROTHENBERGER



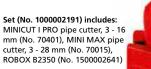
- For copper, brass, aluminium, thin-walled steel pipes
- Compact design with small working radius (38 mm and/or 1.1/2" I PRO/42 mm and/or 1.5/8" II PRO) allows use in hard-to-reach places
- Effortless pressure control with the large knurled knob and compact design
- Two guide rollers with recess for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

Model	► <b>○</b> ◄ mm	► <b>○</b> - inch	∆ g ∆		No.
MINICUT I PRO	3 - 16	1/8 - 5/8"	115	4	70401
MINICUT II PRO	6 - 22	1/4 - 7/8″	125	4	70402
Spare cutter wheel	(5 pcs.)		20	1 <b>07</b>	0017D
Spare axle			5	1	70041

### **MINI MAX**

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

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



#### **KEY FEATURES**

- For copper, brass, aluminium, thin-walled steel pipes
- 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

	F)4	►◯◄			
Model	mm	inch	$\Delta_g \Delta$		No.
MINI MAX	3 - 28	1/8 - 1.1/8′	' 270	4	70015
MINICUT I PRO + N	1INI MAX	, ROBOX 5		1000	002191*
Spare cutter wheel	(5 pcs.)		20	1 07	70017D
Spare axle			5	1	70041

\* ROBOX system p. 25





No.

070017D

70041

### **Cutting metal, manual**

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20

5 1

### 1

### **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	► <b>○</b> ◄ mm	► <b>○</b> ◄ inch	∆g∆		No.
TUBE CUTTER 30 PRO			" 305	4	71019
TUBE CUTTER 50	12 - 50	1/2 -2″	520	1	70065

# 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	► <b>○</b> ◄ mm	► <b>○</b> inch	∆g ∆		No.	Model	►O- mm	•O• inch	۵ g ۵	No.
Size 1	6 - 67	1/4 - 2.5/8″	755		70030	Size 2	50 - 127	2 - 5″	1,850	70142
Size 1 spare deburr	ing blade		5	10	21652	Size 1 spare ax	de		20	70042
Size 1 spare cutter	wheel (5 pc	s.)	20	1	070017D	Size 1 spare de	eburrer complete		5	750004100
Size 2 spare cutter	wheel (2 pc	s.)	20		070057D	Size 2 spare ax	de		5	751004200
Size 2 spare deburr	ing blade		5	10	21652					

Model

Spare axle

Spare cutter wheel (5 Pcs.)

### **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	► <b>○</b> ◄ inch	ΔgΔ	No.
Chain pipe cutter	20 - 100	1 - 4″	575	70285
Spare cutter wheel chain			180	70286



#### ACCESSORIES

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



### **Cutting metal, manual**

### 1 **ROSLICE**

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





### **TUBE CUTTER 30 PRO INOX**

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



#### **KEY FEATURES** 2 guide rollers with recess Retractable internal deburrer and spare cutter wheel in handle Cut near flares Two guide rollers with recess for cuts near flares Precise cutting of stainless Cutter wheel compartment steel pipes Spare cutter wheel always within reach Internal deburrer Retractable ∆ a ∆ m Model mm inch No. TC 30 PRO INOX 3 - 30 1/8 - 1.1/8" 305 1 71085 Spare cutter wheel (5 pcs.) 20 070056D 1 70041 Spare axle 5 1

1

### **Cutting metal, manual**

### **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!

Model	► <b>○</b> ◄ mm	► <b>○</b> - inch	∆ <sub>g</sub> ∆		No.
TUBE CUTTER INOX TUBE CUTTER INOX +	cutter v		· · · ·	1 1 <b>10(</b>	70340 00002192*
Spare cutter wheel (2	pcs.)		20	1 * ROBOX	70341 ( system p. 25

### 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	► <b>○</b> ← inch	<b>↓</b> g <b>↓</b> (111)	No.
TC 35 INOX				
TUBE CUTTER I TC 42 PRO INO				1000002222 70070

\* ROBOX system p. 25

### **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**

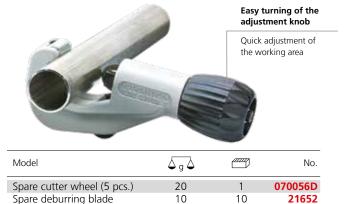
Corrugated pipes with a wall thickness of up to 0.2 mm

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



Set (No. 100002222) includes: TUBE CUTTER 35 INOX, (No. 70055), cutter wheel f. TC 35 + TC 30 PRO + TC 42 XL, 5 pcs. (No. 070056D), ROBOX B2350 (No. 1500002641)





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### Cutting Cutting metal, manual

### 1

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



**ENORM 4**"

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



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



Model	►O- mm	►O ◄ inch	ΔgΔ	No.	Model	∑ g ∆	No.
ENORM 4"	60 - 115	2 - 4″	7,105	70060	Spare axle	5	70064
Spare cutter whe	el (2 pcs.)		20 🕻	)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)**

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	► <b>○</b> ⊲ mm	► <b>○</b> - inch	Δ <sub>g</sub> Δ	No.	Model	►O- mm	► <b>○</b> ◄ inch	ΔgΔ	No.
SUPER 1.1/4"	10 - 42	1/8 - 1.1/4″	1,040	70040	SUPER 1.1/4" INOX	10 - 42	1/8 - 1.1/4"	1,040	70086
SUPER 2"	10 - 60	1/8 - 2″	2,155	70045	SUPER 2" INOX	10 - 60	1/8 - 2″	2,155	70087
1.1/4" spare cu	tter wheel (3 p	ocs.)	20	070046D	1.1/4" spare cutter v	vheel (2 pcs.	)	20	070088D
1.1/4" spare ax	le		5	701011500	1.1/4" spare axle			5	701011500
2" spare cutter	wheel (3 pcs.)		20	070051D	2" spare cutter whee	el (2 pcs.)		20	070089D
2" spare axle			5	70053	2" spare axle			5	70053

#### ACCESSORIES



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

ROTHENBERGER

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### Accessories cutting metal, manual

D

### 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	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	3.0	70041	4.7 / 14 / M3	-	-	thin-walled steel pipe (Fe),
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3	-	-	PVC hard plastic pipe, plastic-coated pipe
TUBE CUTTER 30 PRO	3 - 30 mm	71019	070017D	4.8 / 5.90 / 18.5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu), brass pipe (Ms),
TUBE CUTTER 35 + 35 C TUBE CUTTER 42 PRO	6 - 35 mm 6 - 42 mm	070027(C) 70029	070017D 070017D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 18.5	3.0 3.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70067 70067	21652 21652	aluminium pipe (AI), 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	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	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe
AUTOMATIC Size 1 pipe cutter	6 - 67 mm	70030 70031 70142	070017D 070028D 070057D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 23.6 8.0 / 14.0 / 29.0	3.0 7.0 7.0	70042 70042 751004200	4.7 / 16 / M4 4.7 / 16 / M4 7.9 /23.5/1/4"	-	21652 21652 21652	Cu, Ms, Al, Fe thin-walled PE, PP, VPE, PB and PVDF pipes thin-walled Cu, Ms, Al, Fe
Size 2	50 - 127 mm	70032	055054D 055053D 055074D	8.0/13.0/40.0 8.0/13.0/30.5 8.0/11.0/45.0	13.0 8.0 16.0	751004200 751004200 751004200 751004200	7.9 /23.5/1/4" 7.9 /23.5/1/4" 7.9 /23.5/1/4"	-	21652 21652 21652	PE, PP, VPE, PB and PVDF pipes thin-walled PP pipes PE, PP, VPE, PB and PVDF pipes
Size 3	100 - 168 mm	70033	055074D 055053D	8.0/11.0/45.0 8.0/11.0/30.5	16.0 8.6	751004200 751004200 751004200	7.9/23.5/1/4" 7.9/23.5/1/4" 7.9/23.5/1/4"	-	21652 21652 21652	PE, PP, VPE, PB and PVDF pipes thin-walled PP pipes
TUBE CUTTER 28 TUBE CUTTER 42	3 - 28 mm 3 - 42 mm	70010 70011	070007D 070007D	4.8 / 3.0 / 16.0 4.8 / 3.0 / 16.0	2.5 2.5	70080 + 70081 70080 + 70081	4.7 / 9 / SR 4.7 / 9 / SR	80679 80679	1	Cu, Ms, Al, Fe thin-walled Cu, Ms, Al, Fe thin-walled
TUBE CUTTER 42 PRO PVC	6 - 42 mm	70072	070028D	4.8 / 5.90 / 23.6	7.0	70041	4.7 / 14 / M3	70067	-	PE, PP, VPE, PB and PVDF pipes
Steel pipe cutter SUPER	1/8" - 1.1/4" 1/8" - 2"	70040 70045	070046D 070051D	7.5 / 14.0 / 25.7 9.0 / 17.0 / 31.5	5.5 6.0	701011500 70053	7.4 / 30 / - 8.9 / 35 / -	70047 70052	1	Steel pipe (Fe) Steel pipe (Fe)
Steel pipe cutter ENORM	2" - 4"	70060	070061D	9.7 / 20.0 / 41.0	8.0	70064	9.4 / 52 / -	70063	-	Steel pipe (Fe)
TUBE CUTTER 30 PRO INOX	3 - 30 mm	71085	070056D	4.8 / 5.9 / 18.5	5.5	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
TUBE CUTTER INOX	10 - 54 mm	70340	70341	5.0 / 21.0 / 30.0	3.5	753000700	4.7 / 14 / M3	70068	21652	Stainless steel pipe
TUBE CUTTER 35 INOX TUBE CUTTER 42 PRO INOX	6 - 35 mm 6 - 42 mm	70055 70070	070056D 070056D	4.8 / 5.90 / 18.5 4.8 / 5.90 / 18.5	4.0 4.0	70041 70041	4.7 / 14 / M3 4.7 / 14 / M3	70068 70068	21652 21652	Stainless steel pipe Stainless steel pipe
SUPER INOX	1/8″ - 1.1/4″ 1/8″ - 2″	70086 70087	070088D 070089D	4.8 / 5.90 / 19.3 9.0 / 19.0 / 31.5	4.0 7.0	701011500 70053	7.4 / 30 / - 8.9 / 35 / -	70047 70052	-	Stainless steel pipe Stainless steel pipe
Chain pipe cutter	100 mm	70285	-	4.0 / 3.80 / 17.8	3.0	-	-	Spare ch	ain 70286	Cu, Ms, Al, Fe thin-walled



### Cutting Cutting plastic / MLP, manual

### 1 ROCUT

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

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

### **Product profile**

#### **APPLICATION AREA**

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

#### **KEY FEATURES**

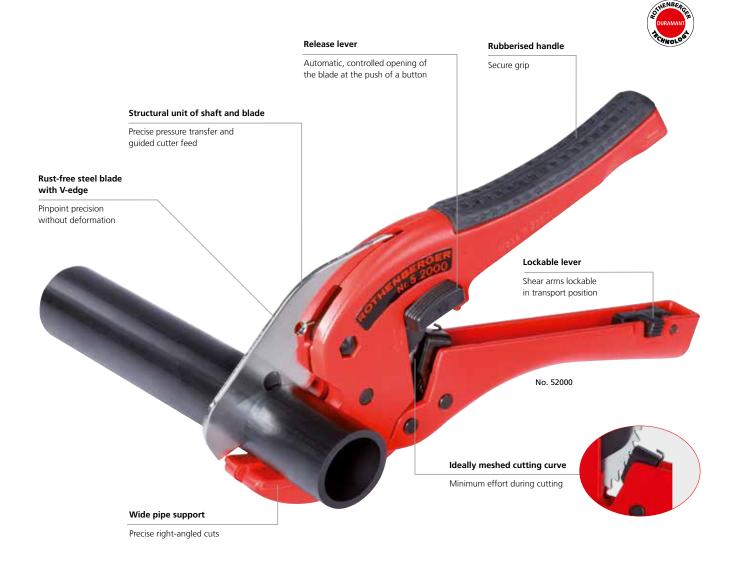
- Minimum effort during cutting
- Precise right-angled cuts
- Pin-point precision without deformation
- Precise pressure transfer and guided cutter feed
- Automatic, controlled opening of the blade at the push of a button

#### **KEY FEATURES**

• Secure grip with the rubberised handles

• Shear arms lockable in transport position

TECHNICAL DATA	
<b>ROCUT</b> Professional:	<b>ROCUT</b> Standard:
TC 42: Ø 0 - 42 mm	TC 26: Ø 0 - 26 mm
TC 50: Ø 0 - 50 mm	TC 32: Ø 0 - 32 mm
TC 63: Ø 0 - 63 mm	<b>PS 35:</b> Ø 6 - 35 mm
<b>TC 75:</b> Ø 0 - 75 mm	<b>PS 26/42:</b> Ø 6 - 42 mm



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

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### Cutting plastic / MLP, manual

### **ROCUT TC 50 / TC 75 Professional ROCUT TC 26 / TC 32** PS 26 / PS 42 S / PS 35 S Plastic pipe shears up to Ø 75 mm (3") Plastic pipe shears up to Ø 42 mm (1.5/8") (TC 32 for multi-layer composite pipes MLP) No. 52010 No. 52005 No. 52015 No. 52040 **ROCUT TC 63 Professional** Plastic pipe shears up to Ø 63 mm (2.1/2") (TC 63 Professional for PVC pipes) OFAL FO of PVC-pip CUTTIN No. 55005 / No. 55015

Model	►O- mm	► <b>○</b> ◄ inch	√g √ mm No.
ROCUT TC 26	0 - 26	0 - 1″	370 4 <b>52005</b>
ROCUT TC 26, counter display (10 pcs.)	0 - 26	0 - 1″	3,700 1 <b>052005D</b>
ROCUT TC 32	0 - 32	0 - 1.1/4″	220 4 <b>52040</b>
ROCUT PS 35	6 - 35	1/4 - 1.3/8″	740 4 <b>55005</b>
ROCUT PS 26 / 42 S, adjustable	6 - 42	1/4 - 1.5/8″	950 1 <b>55015</b>
ROCUT TC 42 Professional	0 - 42	0 - 1.5/8″	447 4 <b>52000</b>
ROCUT TC 42 Professional, ROBOX 5	0 - 42	0 - 1.5/8"	590 1 <b>100002193</b> *
ROCUT TC 50 Professional	0 - 50	0 - 2″	600 6 <b>52010</b>
ROCUT TC 63 Professional	0 - 63	0 - 2.1/2"	700 6 <b>52030</b>
ROCUT TC 75 Professional	0 - 75	0 - 3″	1,600 1 <b>52015</b>
			* ROBOX system p. 25

		ACCESSORIES				
No. 52041	No. 55007	No. 52042	No. 52011	No. 52031	2	No. 52016
Model	►O< mm	►O inch		ΔgΔ		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 Profe	essional 0 - 42	0 - 1.5/8″		120	1	52042
Spare stainless steel blade for TC 50 Profe	essional 0 - 50	0 - 2″		120	1	52011
Spare stainless steel blade for TC 63 Profe	essional 0 - 63	0 - 2.1/2"		130	1	52031
Spare stainless steel blade for TC 75 Profe	essional 0 - 75	0 - 3″		190	6	52016



### Cutting Cutting plastic / MLP, manual

#### **ROCUT 110 / ROCUT 160** 1

Cutting and chamfering tool for right-angled cutting and chamfering (15°), Ø 32 - 160 mm

### **Product profile**

#### **APPLICATION AREA**

Suitable for thin and thick-walled PVC, PE, PP, PEX, PB and PVDF pipes, as well as sound-insulated drain pipes. Utmost precision in a single operation

#### **KEY FEATURES**

- Only one tool required for cutting, chamfering and deburring
- Extremely long service life with optimum cutting geometry
- Special accessories for PE, PP, PEX, PB and sound-insulated pipes

# No. 55035

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



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

Handheld operation



Clamping in a parallel vice



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

#### **KEY FEATURES**

- Uniform chamfering of the entire pipe circumference
- Continuously adjustable pipe clamping pressure
- Integrated internal deburrer is stored in the handle
- Pipe cutting also possible without chamfering, as cutter blade shaft can be mounted with 180° offset

#### **TECHNICAL DATA**

ROCUT 110:	Ø 32 - 110 mm
ROCUT 160:	Ø 110 - 160 mm



ROCUT 160 with cutter blade

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



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

#### ACCESSORIES

Model	Δ <sub>g</sub> Δ		No.
Cutter blade for internal deburrer	10	10	21652
ROCASE inlay	377	1	300005864
ROCASE 4414 red w/o inlay	1,300	1	300003541
Internal deburrer with blade	150		55018
You'll find clamping jaw sets on	25		











With automatic





ROTHENBERGER



#### No. 055053D

### Cutting plastic / MLP, manual

### **ROCUT 110**

#### Basic unit Ø 32 - 110 mm

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

Model	► <b>○</b> ◄ mm	∆ <sub>g</sub> ∆	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	ii-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 Ø 110 - 140 mm, without internal deburrer

Model	► <b>○</b> ◄ mm	∆ <sub>g</sub> ∆	No.
Basic unit ROCUT 160	160	3,450	55030
Clamping set*	140	180	55031
Clamping set*	125	250	55032
Clamping set*	110	310	55033
*Clamping set (1 set = 2 semi	-circular segme	ents)	

### **HM cutter clade inserts**

### ROCUT 110 and ROCUT 160

Model	Cutting depth m	m 🗸 g 🛆	No.
Cutter blade shaft with	7.5	110	54960
Automatic copying and HM cu	tter blade inserts		
Cutter blade shaft with	12.5	120	54961
Automatic copying and HM cu	tter blade inserts		
Spare HM cutter blade insert for	or 7.5	10	55029
Cutting and chamfering 15°			
Spare HM cutter blade insert for	or 12.5	20	55019
Cutting and chamfering 15°			

### **Cutter wheels**

### ROCUT 110 and ROCUT 160

Model	Cutting depth mr	m	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



### Cutting Cutting plastic / MLP, manual

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

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

#### **Product profile**

#### **APPLICATION AREA**

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

### KEY FEATURES

- Maximum strength with the monoblock aluminium construction
- Optimum, fatigue-free operation with the ergonomically optimised metal handle
- Fast adjustment 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"	





No. 70033





Model	► <b>○</b> ◄ mm	•O• inch	Cutting- depth	$\sqrt[]{kg}$		No.		
TC 67 PL	6 - 67	1/4 - 2.5/8"	7.0	0.7	4	70031		
TC 125 PL	50 - 125	2 - 5″	13.0	1.6	1	70032		
TC 168 PL	110 - 168	4 - 6.5/8″	16.0	1.7	1	70033		
TC 67 PL,	counter disp	lay (4 pcs.)			1	070031D		
Cutting w	Cutting wheels, spare parts 21							



### Jacket pipe cutter

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

#### **KEY FEATURES**

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

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



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### **Cutting plastic / MLP, manual**

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

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

### **Product profile**

#### **APPLICATION AREA**

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

### **KEY FEATURES**

- Space-saving work, also in confined spaces, uniform, small working radius of 123 mm
- Right-angled and burr-free cutting with precise telescopic 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

6 - 35 mm	1/4 - 1.3/8″
6 - 42 mm	1/4 - 1.5/8″
6 - 42 mm	1/4 - 1.5/8″
	6 - 42 mm



Model	•O• mm	► <b>○</b> - inch	ΔgΔ		No.
TC 35 MLP	6 - 35	1/4 - 1.3/8″	440	4	70108
Spare cutter wheel	TC 35/4	2 MLP (5 pcs.	) 19	1	070188D

Model	► <b>○</b> ◄ mm	► <b>○</b> ◄ inch	∆g ∆		No.
TC 42 PRO MLP	6 - 42	1/4 - 1.5/8″	510	1	70109
TC 42 PRO PVC	6 - 42	1/4 - 1.5/8″	510	4	70072
Spare cutter whee	TC 42 P	VC (3 pcs.)	10		070028D

### Sawing, manual

### **ROBO Super**

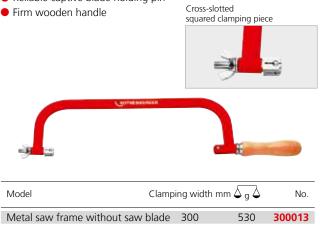
- Safety saw frame
- Minimizes risks: safety handle with exact guidance
- Room for spare blades in holder
- Optimum saw blade tensioning: quick tensioning device with fine adjustment integrated in handle
- Ideal for cutting in confined spaces: 90° rotatable

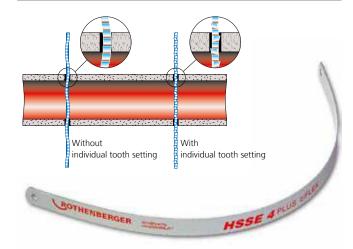


### **Metal saw frame**

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







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



### **UNI small saw PUK**

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



Model Cla	amping width mm	Δ <sub>g</sub> Δ		No.
PUK static,	150	100		842100
with UNIVERSAL saw blade				
PUK adjustable,	150	140		71215
with UNIVERSAL saw blade (w	v. App.)			
UNIVERSAL saw blade for me		20	12	71217
Saw blade for wood	150 (14 TPI)	20	12	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	∆ g ∆		No.
HSSE 4 Plus	300	24	20	100	71213

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Sawing, electric

### **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 featu
- 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 (No. 56605)

Model	$\sqrt[]{kg}$	230 V
PORTACUT 185 BSR	43	56710
PORTACUT 185 BSP	49	56711

Cutting power	Straig	nt Cuts	45° Cuts		
Machine Type	Type O mm 🗌 mm			🗆 mm	
185 BSR	180	150	-	-	
185 BSP	180	150	85	75	

### Band saw blades for PORTACUT 185 BSR / BSP

Dimensions mm	TPI	Material		for pipes Steel	and profiles INOX	∆ <sub>g</sub> ∆	No.
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	18	bimetal	up to	3.6 mm	to 1.6 mm	100	56608





### Sawing, electric

### 1 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
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



**N**ROTHENBERGER

Saw blades

For 1/2" universal seating, also suitable for Flex, Bosch, B&D,

Skil, Hitachi, Makita, Ridgid, Roller, Rems!

### UNIVERSAL HSS bimetal / TCT TIGER SAW BLADES

Cuttable materials	Material	L x W x thickness mm	TPI	ē	Reference	No.	
ME IN	HSS bimetal (5 pcs.)	150 x 20 x 0.9	24	L	S 922 AF	865784	And a Press
MEDI	HSS bimetal (5 pcs.)	150 x 20 x 0.9	18	L	S 922 EF	865785	
ALE IN	HSS bimetal (5 pcs.)	150 x 20 x 0.9	14	L	S 922 BF	865786	1
ALE IN	HSS bimetal (5 pcs.)	200 x 20 x 0.9	18	L	S 1022 EF	865787	
ATE IN	HSS bimetal (5 pcs.)	200 x 20 x 0.9	14	L	S 1022 BF	865788	- EL Ø
<b>a</b> 🐼 🕅	HSS bimetal (5 pcs.)	300 x 20 x 0.9	10 - 14	L	S 1222 VF	865789	JUEP IN
Guss	TCT coated (5 pcs.)	225 x 20 x 1.5	30 grit	L	S 1130 RF	865793	

### **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.	
MEBL	HSS bimetal (5 pcs.)	140 x 25 x 1.6	8	U	S 920 CF	865795	
HER.	HSS bimetal (5 pcs.)	200 x 25 x 1.6	8	U	S 1120 CF	865796	
	HSS bimetal (5 pcs.)	150 x 25 x 1.0	10 - 14	U		865798	- Wite All Care
	HSS bimetal (5 pcs.)	200 x 25 x 1.0	10 - 14	U		865799	

### **Special pipe saw blades**

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

Cuttable materials	Material	L x W x thickness mm	TPI	_ه	No.
	HSS	140 x 25 x 1.6	8	L	50260
ATE IN	HSS	200 x 25 x 1.6	8	L	50261
	HSS	290 x 25 x 1.6	6 - 8	L	50263
	HSS-E	140 x 25 x 1.6	14	L	50264
	HSS-E	200 x 25 x 1.6	8	L	50265
MER	HSS	200 x 25 x 1.6	6 - 8	L	50266

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### Deburring, chamfering and calibration

### 1 Universal internal and external deburrer

Quick and easy deburring Ø 4 - 54 mm (1/8 - 2") For copper, steel and stainless steel pipes, with polished cutting blade made of hardened special steel; smooth running





Model	► <b>○</b> ◄ mm	► <mark>O</mark> ⊲ inch	∆g∆	No.
Internal and external deburrer for copper and plastic	4 - 36	1/8 - 1.3/8"	30	11006
Internal and external deburrer for copper and INOX (stainless steel)	6 - 35	1/4 - 1.3/8"	100	150000237
Internal and external deburrer for copper and INOX (stainless steel)	10 - 54	1/2 - 2"	390	150000236

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### Deburring, chamfering and calibration

### Deburrer adaptor I / II

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

### **Product profile**

#### **KEY FEATURES**

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

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



#### Drive shaft

For the deburring with portable screwdriver or drill

Model	ΔgΔ	No.
Deburrer adaptor I for No. 1500000237	160	11044
Deburrer adaptor II for No. 1500000236	280	11045





### **ROTHENBERGER** 33

No. 1104

### Deburring, chamfering and calibration

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

### Deburrer

### **KEY FEATURES**

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

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



UNIGRAT (No. 21660)



GRATFIX HSS (No. 21655)



Nr. 1 (No. 21652)

Model	ΔgΔ		No.
UNIGRAT with HSS deburring blade	30	10	21660
GRATFIX with deburring blade No. 1	50		21655
GRATFIX with deburring blade No. 1 - 2 - 3	80		21651
HSS deburring blade No. 1 Universal	10	10	21652

### Deburring, chamfering and calibration

### **ROGRAT MLP deburrer** and chamfering tool

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

#### **KEY FEATURES**

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

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





Fig. ROGRAT MLP deburrer set

### ROGRAT MLP system - manual chamfering attachments

ROGRA <sup>-</sup> type	T Press system	Pipe measurement mm	Color code	∑ g ∆	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	٠	58	14123
TH 20		20.0 x 2.00	•	93	14124
TH 26		26.0 x 3.00	٠	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	Δ <sub>g</sub> Δ	No.
TH Henco/HMS	16 - 20 - 26	760	14250
Basic handle		250	14000
System carrying case		250	14005





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**System overview** 

	RODIADRILL Ceramic	RODIADRILL 160	RODIADRILL 200	RODIACUT 150, RODIADRILL 160
	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
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**Drill bits** High SPEED Plus-natural stone\* **DX- High SPEED Plus\* SPEED STAR DX\*** G 1/2", 1.1/4" UNC G 1/2", 1.1/4" UNC Connection: G 1/2" Drill bit diameter: Ø 6 - 67 mm Ø 20 - 300 mm Ø 10 - 500 mm up to  $\emptyset$  10 mm = 50 mm G 1/2", 400 mm working length G 1/2", 400 mm working length Working length: from Ø 12 mm = 120 mm 1.1/4" UNC, 430 mm working length 1.1/4" UNC, 430 mm working length **Application:** wet wet and dry wet and dry Tiles: 333 3 33 3 33 Granite: 333 Marble: 333 3 33 Brick: 333**\*\*** 333**\*\*** 333**\*\*** Masonry: 33\*\* 3 Lime-sand brick: 333\*\* 33\*\* 3 Asphalt: 333\*\* \$\$\$\*\* 33 Screed: 33 333 33

\* Special lengths and diameters on request, \*\* Suitable for dry drilling, నిరిద్ద Ideally suited సిన్ Very suitable of Suitable

333

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333

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Concrete:

Page

Reinforced concrete:

System overview

Stationary drilling				
	RODIACUT 150, RODIADRILL 200	RODIACUT 250, RODIADRILL 200	RODIACUT 250, RODIADRILL 500	RODIACUT 400 PRO, RODIADRILL 500
	Hand-operated / stationary	Hand-operated / stationary	Stationary	Stationary
Stationary drilling in concrete:	Ø 10 - 152 mm	Ø 10 - 200 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
Stationary drilling in masonry:	Ø 10 - 152 mm	Ø 32 - 225 mm	Ø 32 - 250 mm	Ø 32 - 400* (500) mm
Hand-operated drilling in concrete:	Ø 10 - 82 mm	Ø 10 - 82 mm		
Hand-operated drilling in masonry:	Ø 32 - 250 mm	Ø 32 - 250 mm		
Power output:	2,400 W	2,400 W	3,000 W	3,000 W
Speed transmission:	3-gear	3-gear	3-gear	3-gear
Nominal speed:	600 / 1,250 / 3,200 rpm	600 / 1,250 / 3,200 rpm	215 / 430 / 785 rpm	215 / 430 / 785 rpm
Torque:	71 / 34 / 17 Nm	71 / 34 / 17 Nm	185 / 107 / 55 Nm	185 / 107 / 55 Nm
Weight:	17.2 kg	25.2 kg	30.1 kg	39.8 kg
Page	42 - 43	44 - 45	44 - 45	46 - 47

\* Drilling range with distance plate expandable up to 500 mm



## **Characteristics diamond drill bits**

### Space welding

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

### SPACE WELDING

### Wet and dry drilling with new technology:

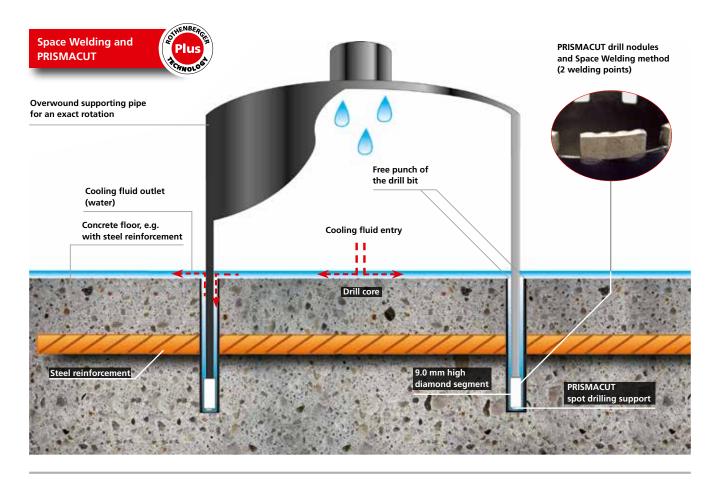
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20%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

### PRISMACUT

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

### PRISMACUT

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



### DX High Speed Plus universal drill bits

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



### **SPEED STAR DX**

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



ROTHENBERGER

Hand-operated and stationary drilling

### **RODIADRILL** Ceramic

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

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

### **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

### Integrated 1 litre water tank

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

Toolless quick change

1 high speed plus drill bit each Ø 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), 3 x quick change adapter (No. FF35751), spanners sizes 24 and 27 (No. FF70024, FF70027), hexagonal key (No. 321523), ROCASE 6414 (No. 1300003336), ROCASE inlay (No. 1300005582)

		ACCE	SSORIES				
			-	-	<b>[]]</b>		<b>O</b>
Model		No.	Model				No.
Quick change adaptor Pressurized water container 10 l	52	FF35751 FF35028		upply hose with "a ture stone drill bits	qua-stop"	48	FF35302

Water collection ring, stationary

FF35301

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

Special water supply hose

### **TECHNICAL DATA**

2-speed transmission:	1. gear speed	2. gear speed	
Nominal speed:	3,600 rpm	6,400 rpm	
Drilling range in mm:	Ø 25 - 67	Ø 6 - 25	
Voltage:	230 V		
Power input/output:	1,150 W / 800 V	V	
Charging rate:	3.6 A		
Maximum drilling depth:	400 mm (depend	ding on material)	
Minimum distance to wall:	30 mm from drill hole center		
Minimum distance to corner:	r: 30 mm from drill hole center		
Weight:	3.4 kg		



FF35700

52

ROTHENBERGER





## Hand-operated and stationary drilling

### **RODIACUT 150 / RODIADRILL 160**

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

### **Product profile**

### APPLICATION AREA

### **RODIADRILL 160:**

Stationary wet drilling in (reinforced) concrete:Ø 10 - 132 mmHand-operated wet drilling in (reinforced) concrete:Ø 10 - 82 mmHand-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<br/>With water collection ring max. Ø 132 mmDrill motor<br/>adaptor:Ø 60 mmL x W x H:280 x 440 x 810 mmHub:480 mmWeight:9.7 kg

### 3 applications with just one unit



### **RODIACUT 150 / RODIADRILL 200**

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

### **Product profile**

### APPLICATION AREA RODIADRILL 200:

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

### 3 applications with just one unit



## Hand-operated and stationary drilling

### **RODIADRILL 160**

Drill motor





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

Drill motor: Threaded adaptor: Power input / output: 2-speed-transmission: Nominal speed: Torque: Clamping neck: 
 RODIADRILL 160

 G 1/2" and 1.1/4" UNC

 2,000 W / 1,400 W

 1. gear
 2. gear

 500 rpm
 1,050 rpm

 55 Nm
 27 Nm

 Ø 60 mm

### **RODIADRILL 200**



Drill motor



### TECHNICAL DATA (DRILL MOTOR)

Drill motor: Threaded adaptor:	RODIADRILL 200 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. gea	r
Nominal speed:	600 rpm 1,250 rpm 3,200	rpm
Torque:	71 Nm 34 Nm 17 Nm	٦
Clamping neck:	Ø 60 mm	



Set (No. FF34150) includes: Drill stand RODIACUT 150 (No. FF30150), drill motor RODIADRILL 160 (No. FF40165), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW36 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 130002468), earplugs SaveRave (No.410000439), rubberized gloves (No.410000443), safety goggle HC/AF (No. 4100000441)

Set (No. FF34160) includes: Drill stand RODIACUT 150 (No. FF30150), drill motor RODIADRILL 200 (No. FF40220), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW36 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 130002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggle HC/AF (No. 4100000441)

Model	$\sqrt{kg}$	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

### ACCESSORIES



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

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

## Hand-operated and stationary drilling

### **RODIACUT 250 / RODIADRILL 200**

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

## APPLICATION AREA

Ø 10 - 200 mm
Ø 10 - 225 mm
Ø 10 - 82 mm
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 quick change recording via dovetail plate
L x W x H:	260 x 510 x 980 mm
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

RUDIADRILL 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



ROTHENBERGER

Hand-operated and stationary drilling

### **RODIADRILL 200**

**Drill motor** 





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

Drill motor:
Threaded adaptor:
Power input / output:
3-speed transmission:
Nominal speed:
Torque:
Clamping neck:

 RODIADRILL 200

 G 1/2" and 1.1/4" UNC

 2,700 W / 2,400 W

 1. gear
 2. gear

 3. gear

 600 rpm
 1,250 rpm

 71 Nm
 34 Nm

 0 60 mm

### **RODIADRILL 500**



Drill motor



### TECHNICAL DATA (DRILL MOTOR)

Drill motor:	RODIADRILL 500					
Threaded adaptor:	G 1/2" and 1.	1/4" UNC				
Power input / output:	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:	Quick-change recording via dovetail plate					



Set (No. FF34200) includes: drill stand RODIACUT 250 (No. FF30250), drill motor RODIADRILL 200 (No. FF40220), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW36 DIN894 (No. FF70036), spanner SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF3502), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.114" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 1300002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggle HC/AF (No. 4100000441)

Set (No. FF34260) includes: drill stand RODIACUT 150 (No. FF30250), drill motor RODIA-DRILL 500 (No. FF40400), tool bag (No. FF70001), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW32 DIN894 (No. FF70032), spanner SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 500 (No. 1300002469), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 410000443), safety goggle HC/AF (No. 4100000441)

Model	$\sqrt[]{kg}$	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

### ACCESSORIES



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

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

**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



## 230 V

### **Product profile**

### **APPLICATION AREA**

2 applications in one unit: Ø 32 - 400\* mm Stationary wet drilling in (reinforced) concrete Stationary dry drilling in masonry Ø 32 - 400\* mm

### **KEY FEATURES**

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

from Ø 400 to 500 mm with RODIACUT 400 PRO





**Stationary drilling** 



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), spanner SW19 DIN895 (No. FF70019N), spanner SW24 DIN894 (No. FF70024), spanner SW32 DIN894 (No. FF70032), spanner SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 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:
Threaded adaptor:
Power input / output:
3-speed transmission:
Nominal speed:
Torque:
Drill motor adaptor:

RODIADRILL 500 G 1/2" and 1.1/4" UNC 4,000 W / 3,000 W 1. gear 2. gear 3. gear 215 rpm 430 rpm 785 rpm 185 Nm 107 Nm 55 Nm Dovetail plate

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

ACCESSORIES						

~

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

**Diamond-drill bits** 

### **High Speed Plus natural stone**

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

2

### **Product profile**

### APPLICATION AREA

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

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

### **KEY FEATURES**

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

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



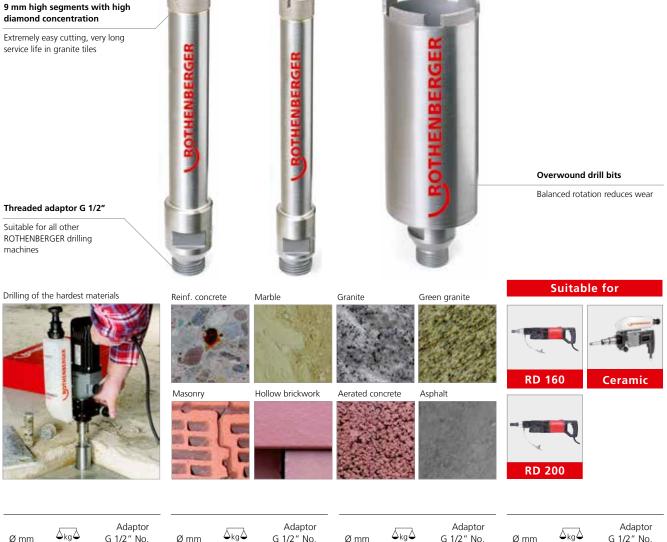
### **KEY FEATURES**

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

### **TECHNICAL DATA**

G 1/2" adaptor		
Drill bits	Segment	Segment dimensions (L x W x H)
Ø 6-40 mm	Ring segments	Ring x (1.15 - 2.0) x 9 mm
Ø 45 - 67 mm*	4 - 6	24 x 2.5 x 8 mm
Effective length:	Ø 6.3 - 10 mi	m = 50 mm
	Ø 12 - 67 mi	m = 120 mm
	Special length	of 300 mm available upon request

\*Single segment mounting from Ø 45 mm



Ømm	$\sqrt{kg}$	Adaptor G 1/2" No.	Ømm	$\sqrt{kg}$	Adaptor G 1/2" No.	Ømm	$\sqrt{kg}$	Adaptor G 1/2" No.	Ømm	$\sqrt{kg}$	G 1/2" No.
6.3	0.17	FF44806	15	0.20	FF44815	24	0.22	FF44824	55*	0.65	FF44855
8.3	0.17	FF44808	16	0.20	FF44816	30	0.25	FF44830	60*	0.72	FF44860
10	0.17	FF44810	18	0.21	FF44818	35	0.30	FF44835	67*	0.79	FF44867
12	0.19	FF44812	20	0.22	FF44820	40	0.34	FF44840			
14	0.20	FF44814	22	0.22	FF44822	50*	0.60	FF44850	* with sin	ale seame	nt mounting
									with Sil	gie seguie	int mounting

JENBE

Phi

**Diamond-drill bits** 

Segment Segment dimensions (L x W x H)

19.3 x 2.5 x 9 mm

### **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

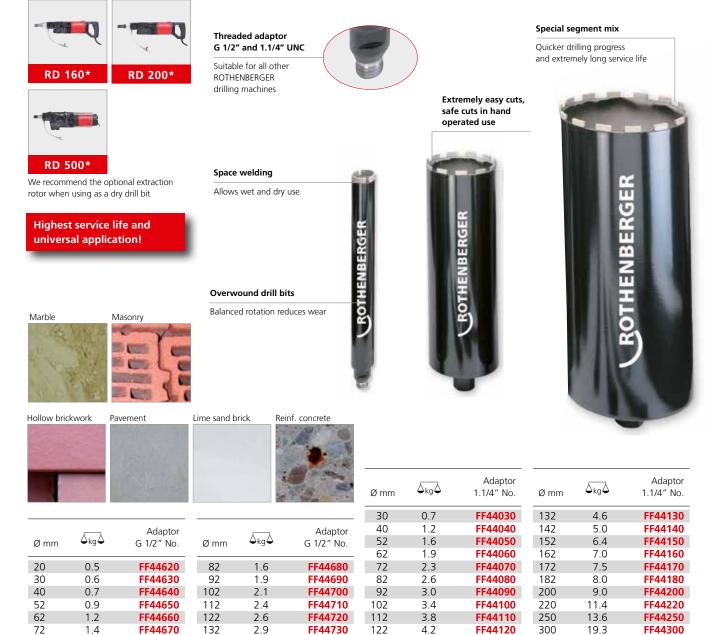
### **TECHNICAL DATA** G 1/2" connection (400 mm effective length) Drill bits Ø 20 - 40 mm

Space Welding and

PRISMACUT

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	<b>ction</b> (430 mi	n 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

1



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

**Diamond-drill bits** 

### **SPEED STAR DX**

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

### 2

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

TECHNICAL DATA							
Drill bits	Segment	Segment dimensions (L x W x H)					
Ø 10 - 38 mm	1	16 x 3.0 x 7.0 mm					
Ø40 - 48 mm	1 - 4	24 x 3.0 x 9.0 mm					
Ø 50 - 55 mm	5-6	24 x 3.5 x 9.0 mm					
Ø 56 - 72 mm	6 - 7	24 x 3.5 x 9.0 mm					
Ø 75 - 102 mm	7 - 8	24 x 3.5 x 9.0 mm					
Ø 107 - 142 mm	9 - 11	24 x 4.0 x 9.0 mm					
Ø 142 - 182 mm	11 - 14	24 x 4.0 x 9.0 mm					
Ø 182 - 250 mm	14 - 16	24 x 4.0 x 9.0 mm					
Ø 300 - 500 mm	16 - 26	20 x 5.0 x 9.0 mm					

Connection G 1/2": Connection 1.1/4" UNC:



Balanced rotation reduces wear

Ømm	\[ \] kg \]	Adaptor G 1/2" No.	Ømm	\_kg \_	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	102	2.1	FF00700
30	0.6	FF00630	108	2.3	FF00705
32	0.6	FF00632	112	2.4	FF00710
38	0.7	FF00638	122	2.6	FF00720
40	0.7	FF00640	127	2.8	FF00725
46	0.7	FF00645	132	2.9	FF00730
52	0.9	FF00650			
56	1.2	FF00655			

Ø mr	n ÁkgÁ	Adaptor 1.1/4" No.	Ømm	$\sqrt{kg}$	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	132	4.6	FF00130
40	1.2	FF00040	142	5.0	FF00140
46	1.4	FF00045	152	6.4	FF00150
52	1.6	FF00050	162	7.0	FF00160
56	1.7	FF00055	200	9.0	FF00200
66	2.1	FF00065	250	13.6	FF00250
72	2.3	FF00070	280	17.6	FF00280
76	2.4	FF00075	300	19.3	FF00300
92	3.0	FF00090	350	23.6	FF00350
102	3.4	FF00100	500	39.1	FF00500
108	3.6	FF00105			

Space welding and PRISMACUT



Effective length 400 mm

Effective length 430 mm



## Accessories for hand-operated and stationary drilling

### Vacuum pump RODIA-VAC

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



### Concrete / masonry fixing set

Set (No. FF35120) includes: knurled thread rod type G-B 160 mm, screw thread M 12/20 mm (No. FF35129), U-washer (No. FF70166), winged nut M 12 (No. FF55150), 25 x drive-in anchor M 12 (No. FF35122) and drive-in iron (No. FF35128)

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



### **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.



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

### Vacuum-sets



No. FF35710 No. FF35740



### **Quick clamping column**

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



Model	$\overline{\bigtriangleup_{kg}} \bigtriangleup$	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

## 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	$\overline{\Delta_{kg}}\Delta$	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-BU to G 1/2" + 1.1/4"	0.80	FF35092
Adaptor DD-BL/BS/BR to G 1/2" + 1.1/4"	0.80	FF35093
Copper ring 1.1/4"	0.05	FF35190

ROTHENBERGER

\* Cordless rotary hammer p. 323

## Accessories for hand-operated and stationary drilling

### Water supply

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





Model	<b>∆</b> kg∆	No.
Water supply hose with Aqua-Stop	0.20	FF35302

Model	$\sqrt{kg}$	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	$\sqrt{kg}$	No.
Water collection ring, stationary (up to Ø 132 mm)	1.2	FF35700
Spare rubber membrane (for FF35700)	0.3	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 le in mm	ngth 🛵	G 1/2" No.	∆kg↓	1.1/4" UNC No.
100	0.40	FF35040	1.00	FF35060
200	0.90	FF35045	2.00	FF35065
300	1.40	FF35050	3.00	FF35070
500	2.40	FF35055	5.10	FF35075



**Extraction systems** 

### **Extraction rotor RODIADUST**

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

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

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

THENBERG

### **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!

User comfort with a

Separate automatic outlet Adaptor for further electric tools

wide operating range

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



Model	\_ kg∆	No.
RODIA DRY CLEANER 1600	10.8	FF35144
Folded filter (2 pcs.) for wet suction	1.0	FF55374
Fleece filter (5 pcs.) for dry suction	0.3	FF55388



# -----



2

 High cleaning efficiency

 2 polyester-filter cassettes with

99.9% dust retention (max. 20 l), water retention of 15 litres





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## System overview

		Push bendin	g
	TUBE BENDER	TUBE BENDER Maxi	TUBE BENDER Maxi MLP
	<pre>v</pre>		
Method:	Manual 90°	Manual 90°	Manual 90°
Working range: Copper	Ø 5 - 12 mm (1/4 - 1/2"), ⊷O 1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8") ⊷O1 mm, soft	-
Working range: Aluminium	Ø 5 - 12 mm (1/4 - 1/2"), ⊷ 1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8") ⊷O 1 mm, soft	-
Working range: Precision steel	Ø 5 - 12 mm (1/4 - 1/2"), ⊷⊙1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8″) ⊷O 1 mm, soft	-
Working range: Stainless steel	-	Ø 12 - 18 mm (3/8 - 5/8″) ⊷O 1 mm, soft	-
Working range: MLP	-	Ø 14 - 26 mm (5/8 - 7/8″) ⊷O2 mm	Ø 14 - 32 mm •⊙2 mm
Page	58	59	60

**Pull bending Standard two handed** MULTIBEND MINIBEND Standard bender bender Method: Manual 90° Manual 180° Manual 180° Manual 180° Working range: Ø 12 - 22 mm Ø 10 - 18 mm (1/4 - 5/8") Ø 6 - 10 mm (1/4 - 3/8") Ø 6 - 18 mm (1/4 - 5/8") ⊷O1 mm, soft ••••• 1 mm, semi-hard ⊷01 mm, soft ⊷O1 mm, soft Copper Ø 10 - 18 mm (1/4 - 5/8") Ø 6 - 10 mm (1/4 - 3/8") Ø 6 - 18 mm (1/4 - 5/8") Working range: Aluminium •O1 mm, soft ⊷O1 mm, soft ⊷O1 mm, soft Ø 10 - 18 mm (1/4 - 5/8") Ø 6 - 10 mm (1/4 - 3/8") Ø 6 - 18 mm (1/4 - 5/8") Working range: Precision steel ⊷O1 mm, soft ⊷O1 mm, soft ⊷O1 mm, soft Working range: Stainless steel Working range: \_ MLP 62 61 61 62 Page

## System overview

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	66 - 67	68 - 69			

Pull bending					
	Pro bender	Internal bending springs MLP	ROBEND H+W PLUS	ROBEND 4000	
Method:	Manual 180°	Manual 180°	Manual 180°	Electric 180°	
Working range: Copper	Ø 10 - 16 mm (3/8 - 3/4") • ©1 mm, soft, semi-hard, hard	-	Ø 8 - 22 mm (5/16 - 7/8″) •⊙1 mm, soft, semi-hard, hard	Ø 12 - 35 mm (1/2 - 1.3/8") ▪⊙ 1.6 mm, soft, semi-hard, hard	
Working range: Aluminium	-	-	Ø 8 - 22 mm (5/16 - 7/8″) ⊷ 1 mm, soft	Ø 12 - 28 mm (1/2 - 1.1/8") •⊙ 2.0 mm, soft, semi-hard, hard	
Working range: Precision steel	-	-	Ø 10 - 22 mm (3/8 - 5/8″) ⊷ 1 mm, soft	Ø 12 - 28 mm (1/2 - 1.1/8") ⊷ 2 mm, soft	
Working range: Stainless steel	Ø 10 - 16 mm (3/8 - 3/4″) ∙⊙1 mm, soft, semi-hard, hard	-	Ø 8 - 22 mm (5/16 - 7/8″) ⊷ 1 mm	Ø 12 - 28 mm (1/2 - 1.1/8″) +⊙ 1.5 mm	
Working range: MLP	-	Ø 6 - 20 mm	-	-	
Page	61	63	64 - 65	70 - 71	

Manual

### **TUBE BENDER**

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





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

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

### **TUBE BENDER bending segments**

Model	► <b>○</b> ◄ Size	Δ <sub>g</sub> Δ	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!

### 3

## Manual

### **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"
Stainless steel (thin-walled, soft):	Ø 10 - 18 mm, 3/8 - 5/8"
MLP (Multilayer):	Ø 14 - 26 mm, 5/8 - 7/8"

### **KEY FEATURES**

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



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

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

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

### **TUBE BENDER MAXI bending segments**

Model	► <b>○</b> ◄ Size	► max. mm	∆ 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



Manual

### **TUBE BENDER MAXI MLP**

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

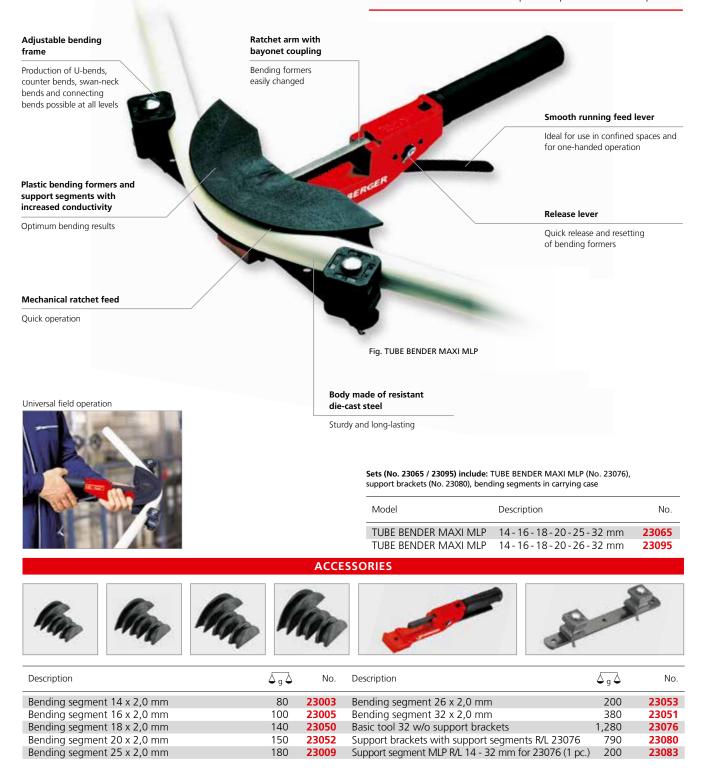
### **Product profile**

### APPLICATION AREA

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

### **KEY FEATURES**

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





3

### **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



► <b>○</b> ◄ Size	► max. mm	R Radius mm	k—→ł Lmm	$\sqrt{kg}$	No.
3/8″ / 10	mm 1.0	40	530	2.2 100	0001431
1/2″	1.0	47	530	2.1 76	57050016
5/8" / 16	mm 1.0	76	770	4.0 100	0000445
3/4″	1.0	76	770	3.9 <b>76</b>	7750016

### **MULTIBEND standard bender 180°**

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

### KEY FEATURES

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

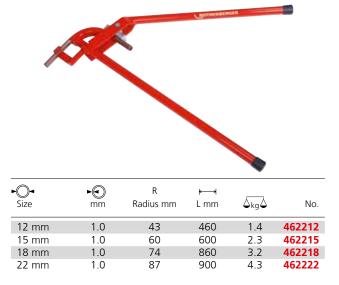
		25		
	6		Measurement so	ale
		>	Accurate bending	possible
Knee bending po Practice bending	ossible	Companyor		
			1	
F)-	►	R		
Size	max. mm	Radius mm	$\Delta_{kg}\Delta$	No.
10 mm	1.0	30	0.37	25401
12 mm	1.0	36	0.64	25402
14 mm	1.0	42	0.98	25403
15 mm	1.0	48	1.45	25404
16 mm	1.0	48	1.46	25405
18 mm	1.0	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



## Manual

#### Method L Method R Met

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	Δ <sub>g</sub> Δ	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

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

### ACCESSORIES

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



### Manual

### **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

5/16"

1/2"

5/8"

No.

25181

25190

25186

ΔgΔ

70

130

220

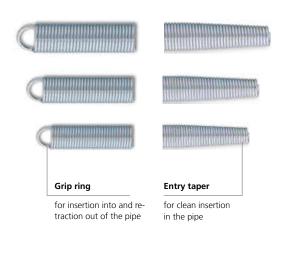
►O- Size	ک <sub>و</sub> ک	No.
8 mm	70	25181
10 mm	80	25182
12 mm	160	25183
15 mm	220	25185
16 mm	220	25186

### **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 Be	►O- ending spring	► <b>○</b> ◄ Pipe	<b>∆</b> g∆	No.
MLP-internal-bending spring	6.0 mm	12 mm	90	25441
MLP-internal-bending spring	8.0 mm	14 mm	120	25442
MLP-internal-bending spring	10.0 mm	16 mm	150	25443
MLP-internal-bending spring	12.0 mm	18 mm	180	25444
MLP-internal-bending spring	13.5 mm	20 mm	220	25445
MLP-internal-bending spring	19.0 mm	25/26 mm	380	25446

### **Bending spray**

### For bending copper and steel pipes

### **KEY FEATURES**

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



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





## Description No. Internal / external deburrer 32 1500000236

Manual

### **ROBEND H+W PLUS**

Seamless stainless steel:

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

### **Product profile**

Ø 8-22 mm

APPLICATION AREA		
For accurate bending up to 180	° on pipes made of:	
Copper (soft, semi-hard, hard	l	
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″

### **KEY FEATURES**

5/16 - 7/8"

- 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



## ROTHENBERGER

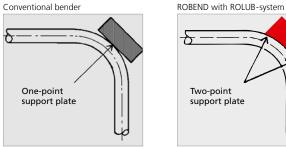
### **ROBEND H+W PLUS bender**

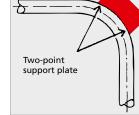
Universal hand bender complete with bending former, fork with ROLUB guide shoe and handle. Universal application in sanitary and heating installations, refrigeration and air-conditioning systems and industrial systems.



### **ROBEND H+W PLUS bender**

► <b>○</b> ◄ Size	► max mm	R Radius mm	∑ g ∆	No.
8 mm	1	22	660	24508
10 mm	1	32	1,180	24510
12 mm	1	38	1,110	24512
14 mm	1	45	1,370	24514
15 mm	1	45	1,370	24515
16 mm	1	64	2,620	24516
18 mm	1	64	2,620	24518
22 mm	1	81	3,800	24522
5/16"	1	22	660	24508
1/2″	1	38	1,110	24552
5/8″	1	64	2,620	24516
3/4"	1	81	3,850	24519
7/8″	1	81	3,800	24522
ACCESS	ORIES (additio	onal lever for t	wo-handed	bending)*
Lever (shor	rt) for bending	formers Ø 8 mn	n / 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			25120
ROCASE 6	414			1300003542
Plastic inlag	y f. ROCASE 64	414	•	1300004002
*Possible from 10 mm				





#### Accurate bending



### **ROBEND H+W PLUS bending sets**

Sets include: ROCASE 6414 for a maximum of 6 bending formers, 2 levers for vice bending and bending spray (No. 25120). Bender corresponds to the respective pipe dimensions.

### **ROBEND H+W PLUS bending sets**

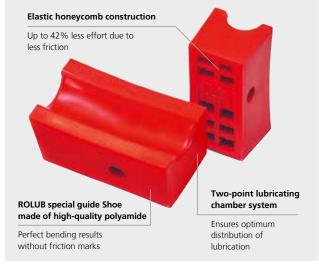
Model	Description	► mm	$\overline{\bigtriangleup_{kg}} \overline{\bigtriangleup}$	No.
ROBEND H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	24500
ROBEND H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	24501
ROBEND H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	24502
ROBEND H+W PLUS	15 - 18 - 22 mm	1.0	14.9	24505
ROBEND H+W PLUS	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**

► <b>○</b> ◄ Size	∑ g ∆	No.
	• y •	
8 mm	20	25308
10 mm	20	25310
12 mm	30	25312
14 mm	30	25314
15 mm	30	25315
16 mm	50	25316
18 mm	50	25318
22 mm	90	25322
5/16"	20	25308
1/2″	30	25313
5/8″	50	25316
3/4"	90	25319
7/8″	90	25322

### **ROLUB Anti-Block special guide shoe**

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





## Bending Manual hydraulic

### **ROBULL type E**

For precise, manual hydraulic cold bending up to 90°



### **Product profile**

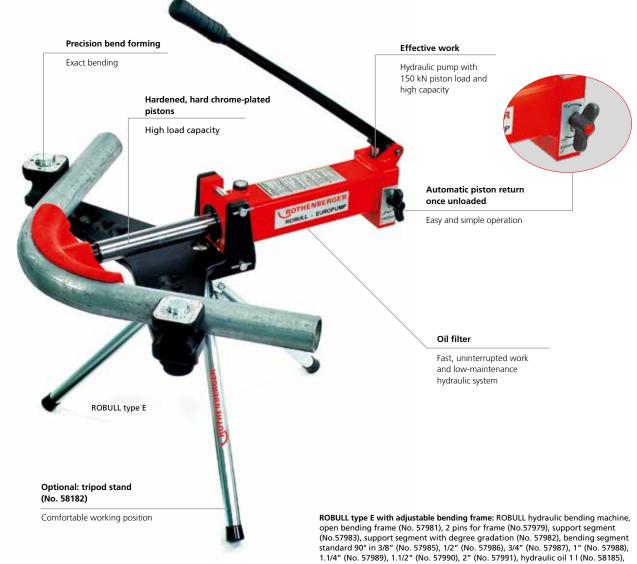
### **APPLICATION AREA**

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



1.1/4" (No. 57989), 1.1/2" (No. 57990), 2" (No. 57991), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206) **ROBULL type E with foldable bending frame:** same scope of delivery as the ROBULL

**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	$\sqrt{kg}$	No.
ROBULL type E	without accessories	16.8	057950X
ROBULL type E	with adjustable bending frame and accessories (see above)	59.8	057966X
ROBULL type E	with foldable bending frame and accessories (see above)	72.6	057961X

### 3

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3

### **ROBULL type E**



Fig. similar

### **ROBULL type E bending segments**

### Small bending radius (red)

•O• inch	► <b>○</b> ◄ mm	Wall thickness min. mm	R mm	$\sqrt{kg}$	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)

► <b>○</b> - inch	► <b>○</b> ◄ mm	Wall thickness min. mm	R mm	<b>∆</b> kg∆	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

## ACCESSORIES

Tripod stand

Steel case



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





Model	$\sqrt{kg}$	No.
Sup. seg. w/ degree gradation, foldable, E/N	√E12.5	775504100
Locking pin	0.3	57979
Hydraulic oil, 1 litre	1.0	58185



## Bending **Electro-hydraulic**

### **ROBULL type ME**

For precise, power hydraulic cold bending up to 90°



### **Product profile**

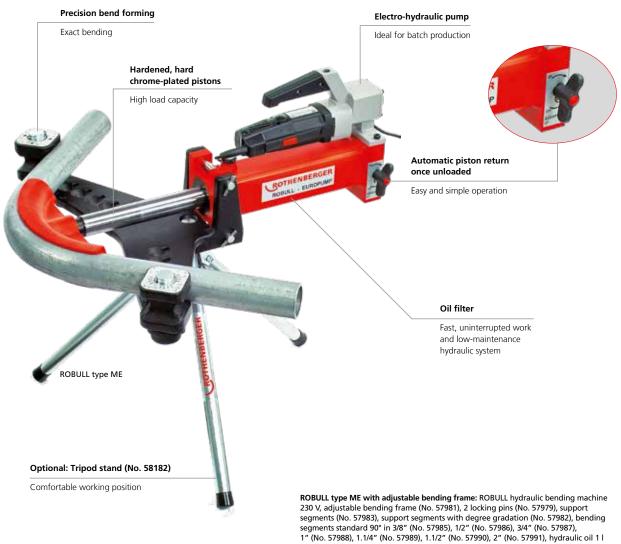
### **APPLICATION AREA**

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 Ø 3/8 - 2″

welding and thread-cutting:

### **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	$\sqrt{kg}$	No.
ROBULL type ME	without accessories	17.8	057969X
ROBULL type ME	with adjustable bending frame and accessories (see above)	59.8	057973X
ROBULL type ME	with foldable bending frame and accessories (see above)	72.6	057972X

### **ROBULL type ME**

### Small bending radius (red)

► <b>○</b> ◄ inch	► <b>○</b> ◄ mm	Wall thickness min. mm	R mm	∆kg∆	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)

► <b>○</b> - inch	► <b>○</b> ◄ mm	Wall thickness min. mm	R mm	∆kg∆	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





ROBULL type ME with foldable bending frame

inch	mm	min. mm	mm	∆kg⇔	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

ACCESSORIES



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



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

Electro

### **ROBEND 4000**

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

### **Product profile**

### APPLICATION AREA

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

### Copper (hard semi-hard and

soft DIN EN 1057, 12735-1, 13348):	Ø 12 - 35 mm, (1/2-1.3/8")
Copper and precision steel	
(coated):	Ø 12 - 28 mm, (1/2-1.1/8")
Precision steel (soft	
DIN 2391 / 2393 / 2394):	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



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

Automatic switch-off when preset bending angle is obtained

Fast batch production possible

Bending of pipes made of various materials possible



70

Seven-fold drive



Comfortable carry handle





ROTHENBERGER

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230 V

CE

Electro

RO

1)

### **ROBEND 4000 sets**

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





ROBEND bending segment



Model	Description	Pipe type		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 segment	s Cu, Fe et al.	14.50	1000001559

ACCESSORIES



Model	No.	Model	
Bending spray, 150 ml	25120	Pipe cutter	14 - 27
Guide shoe axle	25743	Internal / external deburrer	32
ROBEND carrying case, for 5 segments up to Ø 30 mm	995830200	Hard soldering torch (SUPER FIRE 4 with MAPP <sup>2)</sup> gas)	150-151
Tripod stand, foldable	25748	Brazing solder	177
ROBEND carrying case, for 32 mm (1.1/4") and 35 mm (1.3/8")	1000001564		

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

RO SERVICE+ only valid in participating countries <sup>2)</sup> MAPP is a registered trademark of the MESSER Group GmbH, Bad Soden



## **Accessories and bending tables**

### **ROBEND 3000/4000 bending formers**

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



set with ROLUB special guide shoe

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

88	1.42	25684 25685
	88 112	

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

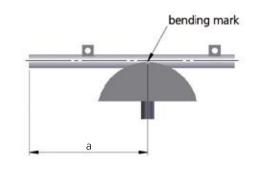
► <b>○</b> - Size	Wall thickness mm	Bending radius mm	∆kg∆	No.
12 mm	1.0	42	0.48	25612
14 mm	1.0	49	0.48	25614
15 mm	1.0	52	0.53	25615
16 mm	1.0	56	0.60	25616
18 mm	1.0	72	1.17	25618
20 mm	1.0	80	1.42	25620
22 mm	1.2	88	1.42	25622
28 mm	2.0	112	2.90	25628
32 mm*	2.0	128	3.40	1000001561
35 mm*	2.0	140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

► <b>○</b> ◄ Size	Wall thickness mm	Bending radius mm	$\sqrt[]{kg}$	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

- $L_1, L_2$  = Leg length
- a = Lay out length
  - = Total length of the pipe piece
- L<sub>w</sub> = Distance / pipe end wall
- $A_w$  = Distance / pipe middle wall
- $L_M$  = Minimum length\*
- $L_R$  = Reserve length\*





## **ROTHENBERGER**

# Bending

**Bending tables** 

### **Calculation examples TUBE BENDER MAXI**

#### **Specifications:**

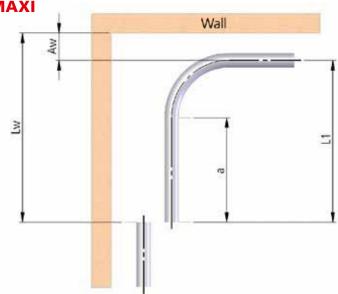
Installation in corner areas  $L_w = 1,200 \text{ mm}$   $A_w = 30 \text{ mm}$ Pipe-Ø 12 mm, 90°-arc

#### Sought after:

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

#### Solution:

Summary from the TUBE BENDER MAXI bending table



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

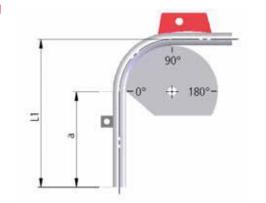
TUBE BENDER MAXI		at 45°		at 90°		at 180°
for Ø mm / inch	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm
12	35.0	0.8	10.0	7.5	35.0	-
14	42.5	0.9	12.5	9.0	42.5	-
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 BEND	ER MAXI CT	at	45°	at	90°	at 180°
Tube Ø / Ws mm	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm
10 x 0.6	42.5	0.8	12.5	9.0	42.5	-
12 x 0.6	49.0	1.1	14.5	10.5	49.0	-
15 x 0.7	74.0	1.7	22.0	16.0	74.0	-
18 x 0.7	87.0	1.9	25.5	18.5	87.0	-

# Bending

**Bending tables** 

### **Pull bending**



#### Symbols

L

- $L_1, L_2$  = Leg length
- = Lay out length а
  - = Total length of the pipe piece
- $\mathsf{L}_{\mathsf{W}}$ = Distance / pipe end - wall
- $\mathsf{A}_{\mathsf{W}}$ = Distance / pipe middle - wall
  - = Minimum length\*
- $L_{\rm M}$ = Reserve length\*  $L_R$

45°- arc	90°- arc	180°- arc
$L = L_1 + L_2$ $a = L_1 - L^R$	$L = L_1 + L_2 - L_M$ $a = L_1 - L_R$	$L = L_1 + L_2 + L_M$ $a = L_1 - L_R$

### **Calculation examples ROBEND 3000 / ROBEND 4000**

#### Specifications:

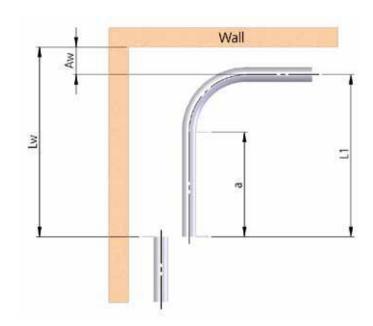
Installation in corner areas Lw = 1,200 mm Aw = 30 mmPipe-Ø 12 mm, 90°-arc

#### Sought after:

Leg length  $L_1$ 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  $a = L_1 - L_R = 1,170 - 42 = 1,128 \text{ mm}; L_R \dots \text{ Tabular value}$ 



# Bending

# **Bending tables**

<b>ROBEND H+W Plus</b>		IS	at 45°			at 90°		at 180°	
Ø / Ws mm / Inch	Bending r R (mn		rve length <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve L <sub>R</sub> I		Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
8	22		9	-	2	2	9.5	22	47
10	32		12	-	3	2	15.0	32	34
12	38		15	-	4	0	20.0	38	39
14	45		17	-	4		22.0	44	51
15	45		17	-	4		22.0	44	51
16	64		25	-	6		30.0	68	65
18	64		25	-	6		30.0	68	65
20 22	81 81		30 30	-	8		40.0	86 86	83 83
5/16"	22		9	-	2		40.0 9.5	22	47
3/8"	32		12	-	3		20.0	32	34
1/2″	38		15	-	4		22.0	38	39
5/8″	64		25	-	6		30.0	68	65
3/4"	81		30	-	8	5	40.0	86	83
7/8″	81		30	-	8	5	40.0	86	83
MINI	BEND		at 45°			at	90°	at	180°
Ø / Ws mm / Inch	Bending r R (mn	n) [	rve length . <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve L <sub>R</sub> I	ຠຠັ	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
6	25.0		10.4	1.0	22		10.0	22.0	26.0
8	24.0		9.9 0 E	1.0	32		15.0	32.0	34.0
10 1/4″	23.0 25.0		9.5 10.4	1.0 1.0	32		15.0 10.0	32.0 22.0	34.0 26.0
5/16"	25.0		9.9	1.0	32		15.0	32.0	26.0
3/8″	23.0		9.5	1.0	32		15.0	32.0	34.0
Standard	bender 1	80°	at 4	5°		at	90°	at 180°	
for Ø mm / Inch	Bending r R (mn		rve length . <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve L <sub>R</sub> I		Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
6	18.0		7.0	0.8	18		8.0	18.5	20.0
10	30.0		11.5	1.3	30		14.5	30.5	34.0
12	36.0		14.0	1.5	36		15.0	36.5	37.5
14	47.5		18.5	2.0	48		20.5	48.5	52.5
15 16	54.0 58.0		21.0 22.5	2.3 2.5	56 64		24.5 28.5	56.0 64.0	58.0 67.0
18	66.0		25.5	2.3	68		31.0	68.0	72.0
1/4″	18.0		7.0	0.8	18		8.0	18.5	20.0
5/16″	24.0		9.5	1.0	24		12.0	24.0	27.0
1/2″	42.0		16.5	1.8	49		22.5	49.5	53.0
5/8″	58.0	)	22.5	2.5	64	.0	28.5	64.0	67.0
MULT	IBEND		at 45°		at 90°		at	180°	
for Ø mm	Bending r R (mn		rve length . <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve L <sub>R</sub> I		Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
8	24.0		9.5	1.0	24		10.0	24.0	26.0
10	30.0		12.0	1.3	30		14.5	30.5	32.5
12	36.0		14.0	1.5	36		15.5	36.5	37.5
14 15	42.0 48.0		16.5 19.0	1.8 2.0	42		19.5 22.0	42.5 48.0	44.0 53.0
16	48.0		19.0	2.0	46		22.0	48.0	53.0
18	54.0		21.0	2.3		l.0	26.0	54.5	58.0
POPE	ND 3000/	4000		at 45°	at 90°		at 180°		
for Ø	Pipe	Bending radius	Reserve leng		igth Res	erve length	Minimum length	Reserve length	Minimum length
mm / Inch	ille	R (mm)	L <sub>R</sub> mm 16	L <sub>M</sub> mm		L <sub>R</sub> mm 42	L <sub>M</sub> mm	L <sub>R</sub> mm <sup></sup>	L <sub>M</sub> mm 68
12	wated	42.0 52.5	21	-		42 53	30	53	87
14	mateu	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	112.0 128.0	45 52	-		114 140	66 70	114	152 140
32 / 1.1/4" 35 / 1.3/8"		128.0	52	-		140	80	135 145	140
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







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# System overview

4

		Expander	
	ROLOCK expander power torque	Expander A0	Step expander A1
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") ⊷O 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	80 - 81	83	85
	ROMAX expander AC ECO MAXI	Н 600	

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	85	86

System overview

Expander heads							
	Expander head ROLOCK			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			
<b>Working range:</b> Aluminium	Ø 8-28 mm (5/16-1.1/8") •⊙ 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") ⊷⊙ 1.6 mm, soft	Ø 22-67 mm (1-2.1/2") •⊙ 2.5 mm, soft	-			
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	82	82	84	84			
	Expanderkopf H2, Typ 2*	Expanderkopf H2, Typ 3*	Stufen-Expanderkopf				
			A				

Arbeitsbereich:	Ø 28-70 mm (1.1/8-2.3/4")	Ø 70-110 mm (2.3/4-4.1/4")	Ø 35-108 mm (1.3/8-4.1/8")
Kupfer	•⊙ 2,5 mm, weich, halbhart	⊷ 3 mm, weich, halbhart	•⊙ 2,5 mm, weich, halbhart
Arbeitsbereich:	Ø 28-70 mm (1.1/8-2.3/4")	Ø 70-110 mm (2.3/4-4.1/4")	Ø 35-108 mm (1.3/8-4.1/8")
Aluminium	-⊙ 2,5 mm, weich, halbhart	⊷ 3 mm, weich, halbhart	⊷ 2,5 mm, weich
Arbeitsbereich:	Ø 28-70 mm (1.1/8-2.3/4")	Ø 70-110 mm (2.3/4-4.1/4")	-
Präzisionsstahl	⊷ 2,5 mm, weich, halbhart	↔ 3 mm, weich, halbhart	
Arbeitsbereich:	Ø 28-70 mm (1.1/8-2.3/4")	Ø 70-110 mm (2.3/4-4.1/4")	-
Edelstahl	•⊙ 2,5 mm, weich, halbhart	⊷⊙ 3 mm, weich, halbhart	
Seite	87	87	85

**Expanding, manual** 

gas, refrigeration and air-conditioning systems

### **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** 

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

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

max. wall thickness 1.6 mm

Ø 8 - 28 mm, 5/16 - 1.1/8"

max. wall thickness 1.6 mm

Ø 8 - 28 mm, 5/16 - 1.1/8"

max. wall thickness 1.6 mm

Ø 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

20THENBEACH 20THENBEACH
RCHNOLOG RCHNOLOG

#### **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

### Stainless steel (soft):

Precision steel (soft):

Aluminium (soft):

**APPLICATION AREA** 

Suitable for pipes made of:

#### Made in Germany!

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



ROLOCK expander power torque $\[Delta_{kg}\]$ No.Expander tool (without expander heads)1.012400for expander heads up to 42 mm / 1.3/4"1.012400

ROTHENBERGER

4

**Expanding, manual** 

HENBE

EP

### **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	$\sqrt{kg}$	No.
12 - 15 - 18 - 22 mm	2.9	12500
12 - 15 - 18 - 22 - 28 mm	3.3	12503
10 - 12 - 16 - 22 - 28 mm	3.3	12505
12 - 14 - 16 - 18 - 22 mm	3.3	12509
10 - 12 - 14 - 16 - 18 - 22 mm	3.6	12511
10 - 12 - 15 - 16 - 18 - 22 - 28 mm	3.6	12537
12 - 14 - 16 - 18 - 22 - 28 - 32 mm	3.7	12538
3/8 - 1/2 - 5/8 - 3/4 - 1"	3.3	12517
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8"	3.6	12518
1/2 - 5/8 - 3/4 - 7/8″	2.9	12521
12 - 16 - 18 - 22 - 28 mm	3.2	12522
1/2 - 5/8 - 7/8 - 1.1/8″	3.0	12524
12 - 15 - 18 - 22 - 28 - 35 - 42 mm	4.2	12526
1/2 - 3/4 - 1″	2.9	12535
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"	3.7	12536
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"	4.5	12541

### 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



		ACCESS	ORIES		
	44 4		ant	ROTHENBERGER SOLOT 1.1	Y
Description			Description		

Description		Description	
Expander heads for ROLOCK expander power torque	82	Expander adaptor type S	84
Expander heads type S / riveted expander heads	84	Brazing solder	177
Pipe cutter	14 - 27	High-performance torch (SUPER FIRE 4 with MAPP <sup>1)</sup> gas)	150 - 151
Internal / external deburrer	32		



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



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

<sup>1)</sup> 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

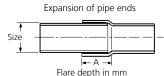
### Product profile

### 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!



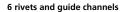
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Reduction

Also suitable for uneven pipes

#### Step at the end of the segments

Enables recalibration of irregular pipes and fittings



Specially hardened segments

Robust and long lasting

Compulsory guidance guarantees a perfect centred position and uniform capillary gap

Extra long segments

Depth of the flare is consistent with DVGW standards

# **Expander head ROLOCK**

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



# Expander head standard

Standard screwable expander head, still compatible with the ROLOCK Expander



~								
►◯◄	m	ax. wall th	ickness	mm (soft	) A		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

Standard	ROLOCK	I	) A	mm (soft	ickness i	x. wall th	ma	►◯
No	No.	ΔgΔ	mm	Inox	Fe	Al	Cu	inch
11008	12408	120	6.0	1.0	1.0	1.0	1.0	5/16"
11052	12452	120	7.4	1.0	1.0	1.0	1.0	3/8″
11053	12453	120	11.0	1.0	1.2	1.2	1.2	1/2″
11054	12454	120	14.0	1.0	1.2	1.2	1.2	5/8″
11055	12455	120	18.1	1.0	1.2	1.2	1.2	3/4″
11056	12456	140	18.0	1.0	1.2	1.2	1.2	7/8″
11057	12457	150	15.8	-	1.5	1.5	1.5	1″
11058	12458	390	17.0	-	1.6	1.6	"1.6	1.1/8
11059	12459	410	17.0	-	-	-	"1.6	1.1/4
11035	12435	430	17.0	-	-	-	"1.6	1.3/8
11038	12438	450	17.0	-	_	_	"1.6	1.1/2
11062	12462	470	17.5	-	-	-	"1.6	1.5/8
11063	12463	500	17.5	-	-	-	"1.6	1.3/4

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

Suitable for ROTHENBERGER ROLOCK	expander power torque
----------------------------------	-----------------------

Description		Description	
ROLOCK expander power torque	80	ROCASE 4414 red, without inlay	331
ROLOCK COMBI KIT expander / tee-extractor	89		

**Expanding, manual** 

### **Expander A0**

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

	Product profile
APPLICATION AR	EA
Suitable for pipes m	ade of:
Copper and aluminin	um: Ø 22 - 67
(soft, semi-hard)	max. wal
Precision steel (soft)	: Ø 22 - 54

Precision steel (soft): and stainless steel per DVGW-GW541 Ø 22 - 67 mm, 1 - 2.1/2" max. wall thickness 2.5 mm Ø 22 - 54 mm, 1 - 2.1/8" max. wall thickness 1.5 mm Functional elements:

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

#### **KEY FEATURES**

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

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



Expander A0 set (No. 11400) includes: expander head type S, special ratchet (No. 27181)

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

Model	►O- Size	$\overline{\bigtriangleup_{kg}} \overleftarrow{\bigtriangleup}$	No.
Expander A0 set	35 - 42 - 54 - 64 mm	8.12	11400
Expander A0 basic unit		1.97	11004



# ROTHENBERGER 83

**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

►◯◄	max. wall thickness mm			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

Expand	der ac	laptor	type S
			.,

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



### Flanged riveted expander heads

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



► <b>○</b> - inch	m Cu	nax. wall th Al	nickness n Fe	nm Inox	A-size mm	∆ <sub>g</sub> ∆	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

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

Model	► <b>○</b> - max.	►. max. mm	∆ g ∆	No.
Adaptor type S,	67 mm and/or 2.1/2"	2.0	630	11007

#### **Product profile**

#### **APPLICATION AREA**

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

- Air-conditioning technology
- Auto manufacturing
- Industrial applications

► <b>○</b> ◄ mm	► mm	Outer diaflange mm	Distance flange pipe end mm	∆ g ∆	No.
15	1.5	18	4	110	11955
18	1.5	21	4	110	11958
22	1.5	25	6	120	11962
28	1.5	31	6	370	11968
35	1.5	38	6	400	11975
38	1.5	41	6	430	11978

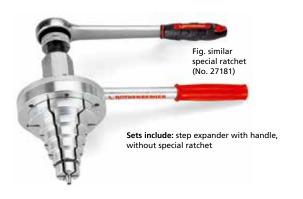




**Expanding**, electric

### Step expander A1

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



► 💭 ◄ Size	$\sqrt{kg}$	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

### **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					
For efficient, fitting-free installation of pipes in sanitary, heating, gas, refrigeration and air-conditioning systems					
Suitable for pipes made o	of:				
Copper and aluminium:	Ø 35 - 108 mm, 1.3/8 - 4.1/8"				
(soft)	max. wall thickness 2.5 mm				
KEY FEATURES					
<ul> <li>Affordable alternative when laying larger pipe dimensions with a considerable saving of soldering materials</li> </ul>					
• Expand without changing tools with the 6 size step expander					
• Full bearing of the expander head segments allows heavy loads					
<ul> <li>Optimum adjustment of the socket size and capillary gap with the positive fine adjustment</li> </ul>					
• Optimised force transmission with the trapezoidal screw thread					

- 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



4

#### **Product profile APPLICATION AREA KEY FEATURES** Long service life and high functional safety Suitable for pipes made of: Copper and aluminium: Ø 35 - 108 mm (1.3/8" - 4.1/8") The expansion / calibration takes place after pressing and (soft and semi-hard) max. wall thickness 2.5 mm holding the switch • Large working radius with the 5 m long cable **KEY FEATURES TECHNICAL DATA** • Optimally suited for batch production and large building sites Weight: approx. 13.7 kg Constant thrust with CFT 230 V / 50 Hz User safety with the easy to reach emergency stop switch Motor: Balanced weight distribution Article available upon request!<sup>2)</sup> Secure hold in every working position, ideal for one-handed use Fully automatic expanding process Emergency stop switch High user safety due to the interruption of the feed and the discharge of the 6-fold step expander expander head 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



CFT (Constant Force Technology) For a constant axial thrust

 <sup>1)</sup> Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries
 <sup>2)</sup> Availability, delivery time and price of custom products for other pipe diameters available on request.



in confined spaces (over head)

**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**

Copper and aluminium:

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

Precision and stainless steel:

# **KEY FEATURES**

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



TECHNICAL DATA	
Rated power:	1.2 kW
Rated current:	2.1 A
Operating pressure:	80 - 600 bar
Max. operating pressure:	700 bar
Delivery capacity:	0.82 l / min
Safety category:	IP 54
Actuation:	400 V / 1,200 W



Industrial quality expansions

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 expander heads

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Model	$\sqrt{kg}$	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

# Expanding, hydraulic

4

### Electro-hydraulic expander pistol H1

Product profile				
APPLICATION AREA				
<b>Expander heads standard:</b> Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm				
<b>Expander heads type S:</b> (with adaptor No. 11007)	Ø 22 - 67 mm, 1 - 2.1/2" max. wall thickness 2.5 mm			

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

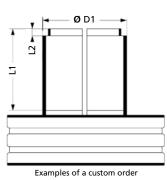
Description	$\sqrt{kg}$	No.
Electro-hydraulic expander pistol H1	2.9	12001
Adaptor H1 / type S	0.6	11007
Adjusting tool for H1	0.9	12017

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

	F	Þ		
Model	max.	max. mm	$\Delta_{kg}\Delta$	No.
Adaptor type S, without expander h	67 mm and/or 2.1/2	" 2.0	0.6	11007
Adaptor H2/type S			1.1	12097

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

# **Accessories expanding**

### **Expander head compatibility**

	Expander head ROLOCK	Expander head standard	Expander head type S	Riveted expander head	Expander head PE-X	Expander head H2, type 2 and 3	Step expander head
	٢		٩		Ê		
ROLOCK expander power torque	•	•	Ċ	•	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	•	1	•	0	0	0
Expander pistol H2	0	0	1	0	0	•	0

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

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

# **Expanding and extracting, manual**

### **ROLOCK COMBI KIT** expander / tee-extractor

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

### **Product profile**

#### **APPLICATION AREA**

Suitable for pipes made of: Copper, aluminium and steel (soft): Ø 12 - 28 mm, 1/2 - 1.1/8"

#### **KEY FEATURES**

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

# AENBERG

Made in Germany!

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



4

#### **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



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

Fig. similar

ROTHENBERGER

**Extracting, manual** 

### **Tee-extractor sets**

4

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

Pro	duct profile			
APPLICATION AREA		KEY FEATURES		
Suitable for pipes made of:Copper (soft, semi-hard, hard):Ø 10 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mmAluminium:Ø 10 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mmPurcision stackØ 10 - 42 mm, 2/9 - 2.1/9"		<ul> <li>Eliminates the cost for T-pieces, purchase and storage of fittings</li> <li>Extractions even on installed pipes possible</li> <li>Accurate drilling</li> <li>Optimal positioning with the cam pincher depth adjustment</li> </ul>		
Precision steel:	Ø 10 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm	Scale and cam depth adjustment		
	9	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 Optimal positioning		UNIDRILL Automatic 28/42 Accurate drilling		
No pipe removal				
Extractions even on installed pipes possible		No. 21583 / No. 21575		

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The know-how from the pioneer of expanding

technology and the leading manufacturer of

expanding tools for over 50 years!

No. 21575



Fig. similar

ROTHENBERGER

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	∆kg∆	No.
Tee-extractor set 12 - 15 - 18 - 22 mm	3.4	22100
Tee-extractor set 12 - 15 - 22 - 28 mm	3.6	22101
Tee-extractor set 12 - 15 - 18 - 22 - 28 mm	3.9	22103
Tee-extractor set 10 - 12 - 15 - 18 - 22 mm	3.5	22102
Tee-extractor set 12 - 14 - 16 - 18 - 22 mm	3.6	22109
Tee-extractor set 10 - 12 - 14 - 16 - 18 - 22 mm	3.7	22111
Tee-extractor set 12 - 15 - 18 - 22 - 28 - 35 - 42 r	mm 5.5	22126
Tee-extractor set 15 - 22 - 28 mm	3.6	22127
Tee-extractor set 1/2 - 5/8 - 3/4 - 7/8"	3.4	22121
Tee-extractor set 1/2 - 5/8 - 7/8 - 1.1/8"	3.7	22124
Tee-extractor set 1/2 - 3/4 - 1"	3.3	22135

# **Extracting**, manual

### **Tee-extractor**

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

### **Product profile**

#### **KEY FEATURES**

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

► <b>○</b> ◄ mm / inch	► mm	Drill Ø mm	• mm	∆ <sub>g</sub> ∆	No.
				- 9 -	
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
28	2.5	15	11	470	22028
35	2.5	22	11	700	22035
38	2.5	22	11	700	22038
42	2.5	26	11	890	22042
54	2.5	30	19	1,380	22054
3/8″	1.0	6	11	110	22060
1/2″	1.0	7	11	140	22061
5/8″	1.0	8	11	220	22016
3/4″	2.0	10	11	220	22062
7/8″	2.0	12	11	350	22063

#### 🕈 hexagon 🛛 🔳 square

► <b>○</b> ◄ mm	∆ <sub>g</sub> ∆	No.	► <b>○</b> ◄ inch
10	60	1300005045	3/8″
12	70	1300005046	1/2 "
14	90	1300005047	5/8″
15	90	1300005048	3/4"
16	140	1300005049	7/8″
18	140	1300005050	1″
22	210	1300005051	1.1/8
28	220	1300005052	1.1/4
35	290	1300005054	1.3/8
38	290	1300005055	1.1/2
42	320	1300005056	1.5/8
54	560	1300005057	2″
			2 1/9

3/8″ 1300005058 60 1/2" 70 1300005059 5/8" 140 1300005049 3/4" 140 1300005060 7/8" 200 1300005061 1″ 210 1300005062 1.1/8' 1300005063 220 1.1/4' 270 1300005064 1.3/8" 290 1300005054 1.1/2' 290 1300005055 1300005065 1.5/8' 320 2″ 520 1300005067 2.1/8" 560 1300005057

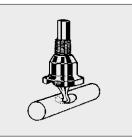
∆<sub>a</sub>∆

No.

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



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



Double V-block

Accurate and firm positioning for exact

90° branches

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

ind tempered extractor no

### Burr-free operation

Special hook design

Easy insertion into the drilled hole

Ratchet adaptor (No. F80053 and F80054) with No. 22050 / 22054 included in scope of delivery (square, 3/4")

► <b>○</b> ◄ mm / inch	► mm	Drill Ø mm	• mm	∆ g ∆	No.	
1″	2.5	14	11	470	22064	
1.1/8″	2.5	15	11	480	22065	
1.1/4″	2.5	19	11	700	22066	
1.3/8″	2.5	22	11	700	22035	
1.1/2″	2.5	22	11	700	22038	
1.5/8″	2.5	26	11	900	22068	
2″	2.5	30	19	1,380	22050	
2.1/8″	2.5	30	19	1,380	22054	
Accessories						
Socket 19 mm					F80053	
Square cor	Square connection 3/4"					

### Spare extractor hooks

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

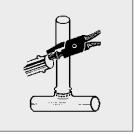


Note: For copper pipes (soft), the use of an extractor support is recommended! (

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



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



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

# Accessories extracting, manual

### **Tee-extractor ratchet**

Chrome vanadium steel, fine toothed and right/left reversible





Model	SW	<b>∆</b> g∆	No.
10 - 42 mm, 3/8 - 1.3/4"	3/4″ ■	435	27180
50 - 54 mm, 2 - 2.1/8"	3/4″ ■	1,140	27181

### Extractor cam pincer

#### **KEY FEATURES**

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





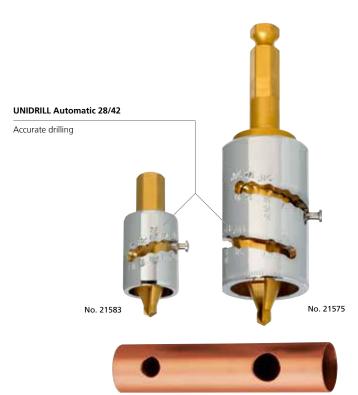
► <b>◯</b> ◄ mm	►O- inch	<del>k</del> —≯ mm	∆ <sub>g</sub> ∆	No.
12 - 42	1/2 - 1.5/8″	150	170	22080

### **UNIDRILL Automatic 28/42**

### HSS special conical drill

### **KEY FEATURES**

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



Model	► <b>○</b> ◄ mm	► <b>○</b> - inch	● SW	∆ 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

# Flaring

# Precision double flaring press DB 10

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

### **Product profile**

#### **APPLICATION AREA**

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

#### **KEY FEATURES**

Description

DB 10 set

Flaring attachment

Flaring attachment

Flaring attachment

Flaring attachment

Flaring attachment

- Ideal for endless pipes
- For several flaring profiles, wall thickness 0.7 1.0 mm
- Universal use with the pluggable pressure cone
- Accurate and reproducible results
- Clamping block for several pipe diameters
- Reliable hold with the 25 mm pipe clamping length
- Suitable for clamping in a vice

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

#### E- contour, simple flare:

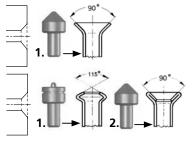
Standard flaring contour

#### D-contour, double flare:

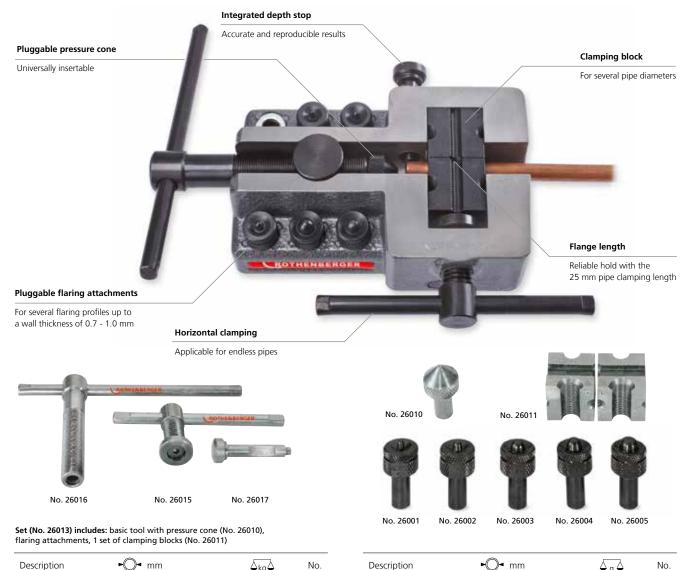
- Extension of brake and/or hydraulic lines
- Connection by means of coupling rings, sealed by means of flaring surface

#### 180° flares:

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



Δ



∆<sub>kg</sub>∆

2.64

0.20

0.20

0.20

0.20

0.20

4.75 - 5 - 6 - 8 - 9 - 10 mm

4.75 / 5 mm

6 mm

8 mm

9 mm

10 mm

No.

26013

26001

26003

26004

26005

26002

Description	►O- mm	Δ <sub>g</sub> Δ	No.
Pressure cone		20	26010
Clamping spindle		90	26015
Flaring spindle		300	26016
Distance bolt		30	26017
Set of clamping blocks	s (2 pcs.) for pipes	190	26011
4 70	F C 0 0 10		

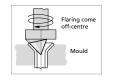
4.75 - 5 - 6 - 8 - 9 - 10 mm

# Flaring

### **ROFLARE REVOLVER**

#### **Revolver reeling flaring tool**

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





# **Product profile KEY FEATURES** Guaranteed norm flares Produces leak free joints • One-handed quick clamping system Automatic depth stop: perfect positioning of the pipe to the flaring cone Adaptor attachment 2 For ratchet and electric drive Spring loaded safety clutch No reduction of wall thickness High-quality revolver die Highest fitting accuracy with long service life a manufacture **Recuperating spring** Optimized rubber handle Automatic support to pull back Durable and slip-proof the flexible revolver die

Set (No. 100000230) 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. 100000046), ROCASE 4212 (No. 1300003334)

Set (No. 1000000231) includes: ROFLARE REVOLVER imperial incl. ratchet adaptor, dies Ø 1/4 , 5/16, 3/8, 1/2, 5/8 and 3/4", pipe cutter ROTRAC 28 PLUS chrome limited edition (No. 1000000046), ROCASE 4212 (No. 1300003334)

Description	No.
Set, metric with ROTRAC 28 PLUS chrome limited edition	100000230
Set, imperial with ROTRAC 28 PLUS chrome	100000231
limited edition	
Metric, Ø 6, 8, 10, 12, 16, 18 mm	100000222
Imperial, Ø 1/4 , 5/16, 3/8, 1/2, 5/8, 3/4"	100000223

Compact design enables use



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



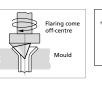
### **Reeling flaring tool**

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





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

**ROTHENBERGER** 95

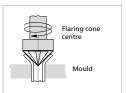
# Flaring

4

### **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	►O < inch	ΔgΔ	No.
Set EB	4 - 16 mm	3/16 - 5/8"	900	222601

### Flaring and bending set

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





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

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

Fig. similar

**Torque wrench** 

### **ROTORQUE AIRCON / REFRIGERATION**

#### Step-less torque wrench

#### **Product profile**

#### **APPLICATION AREA**

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

#### **KEY FEATURES**

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



Fully opened head





ROTORQUE sets include: torque wrench, head, carrying bag

Model	$\sqrt{kg}$	No.
ROTORQUE AIRCON	1.5	1000000224
ROTORQUE REFRIGERATION	1.4	1000000225

# Connection 9 x 12 Head can be exchanged between ROTORQUE AIRCON and ROTOROUE REFRIGERATION All-In-One: one head fits all sizes! The torque can be read off Always tighten according to the standard ROTOROUF AIRCON ROTORQUE REFRIGERATION torque wrench torque wrench • 10 – 110 Nm • 10 – 70 Nm • ± 3% accuracy ±4% accuracy 1 Nm adjustment steps • 1/2 Nm adjustment steps Suitable for cylinder heads' work Fig. ROTORQUE AIRCON torque wrench

the second se

Fig. ROTORQUE REFRIGERATION torque wrench



Δ

# Torque wrench set

#### For proper tightening of flange connections

Set with adjustable torque wrench (10-70 Nm) and 6 spanner inserts sizes 17, 22, 24, 26, 27 and 29 mm for flange connections on 1/4", 3/8", 1/2" and 5/8" pipe lines **according to DIN EN 378-2 : 2012-08** 



Fig. similar

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

Fix with torque urgently necessary!

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

Model	$\sqrt{kg}$	No.
Torque wrench set, 7 pcs.	3.5	175001



COTHENBERGER ZOAN 18V LI-POWOF

CAS'

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# **System overview**

Press machines				
	ROMAX Compact TT (Twin Turbo)	ROMAX 4000	ROMAX 3000 AC	ROMAX AC ECO
SERVICE + ROTHENBERGER				A Star
Operation mode:	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Jaw fixture rotatable:	270°	270°	270°	270°
Constant Force Technology (CFT):	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Controlled press cycle:	$\checkmark$	$\checkmark$	$\checkmark$	-
Piston force / hub:	19 kN / 30 mm	32 kN / 40 mm	32 kN / 40 mm	32 kN / 40 mm
Service interval:	40,000 pressings	40,000 pressings	20,000 pressings	10,000 pressings
LED:	$\checkmark$	$\checkmark$	$\checkmark$	-
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:	$\checkmark$	$\checkmark$	-	-
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### **ROTHENBERGER Constant Force Technology**

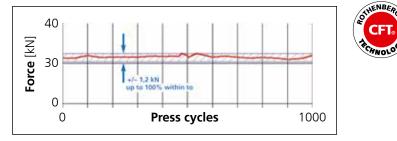
The CFT guarantees a constant axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections.

#### **CFT guarantees:**

ROMAX Compact TT 19 kN / 40,000 press cycles ROMAX 4000 32 kN / 40,000 press cycles ROMAX 3000 AC 32 kN / 20,000 press cycles ROMAX AC ECO 32 kN / 10,000 press cycles

### **Constant Force Technology**

Measurement under load – UPONOR NW 75



### **Cordless Alliance System**

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



100 **ROTHENBERGER** 

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

# **System overview**

riess jaws / piess chains					
R	Press jaws compact	Interchangeable press jaws compact	Press jaws standard	3-elemental press jaws	Press chains standard
ROTHENBERGER Pressnavigator					
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:	-	-	-	-	$\checkmark$
DURA LAZR TEC:	$\checkmark$	-	$\checkmark$	$\checkmark$	$\checkmark$
Long-term corrosion prot.:	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
3-bolt synch. mechanism:	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	-
Precision-manufactured contour:	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Fits to >B< MaxiPro fitting system:	$\checkmark$	-	$\checkmark$	-	-
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:	111	112	112	113	114

Press jaws / press chains

#### 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**

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



#### **TECHNICAL DATA**

Dimension: Weight: Piston force / hub: Nominal size:	336 x 143 x 76 mm (w/ 2.0 Ah battery) Approx. 2.5 kg (without press jaw) 19 kN / 30 mm Ø 12 - 40 mm plastic / multi-layer Ø 12 - 35 mm metal
Service interval: Press jaw fixture: Power supply:	40,000 pressings / 2 years 270° rotation RO BP 18 V / 2.0 Ah Li-Ion battery RO BP 18 V / 4.0 Ah Li-Ion battery
Operating temperature: Pressings:	,



For constant pressing force

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



ROTHENBERGER

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



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



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

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# Press machine compact

### **ROMAX Compact TT sets**



### Twin Turbo: What's behind it?

#### BALANCE

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

#### SIZE

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

#### POWER

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

Twin Turbo for high volume pressing



Twin Turbo for domestic installations



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

### ACCESSORIES

Model			No.
RO BP 18V / 2.0 Ah Li-lo	on battery	10000016	52
RO BP 18V / 4.0 Ah Li-lo		1000016	53
RO BP 18V / 4.0 Ah Li-H	ID battery	1000025	48
RO BP 18V / 8.0 Ah Li-H	ID battery	1000025	49
RO BC 14/36, battery ch	narger, EÚ	10000016	54
RO BC 14/36, battery ch	narger, UK	1000016	<b>i91</b>
ROCASE 4414 for press	jaws	1000022	42
ROCASE 4414 for interc	hangeable inserts	1000023	<b>607</b>
Press jaws & interchan	geable press jaw	/s starting on 📔 11	0



ROTHENBERGER

### »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 No. 1000001751

Press jaw for ROMAX 4000 No. 1000001891







#### **TECHNICAL DATA**

Application: Air-conditioning and refrigeration Connections: Copper to copper Fitting/tube range: O-rina: Max. operating pressure: Leak tightness: Vacuum:

Operating temperature: **UL listing continues** operating temperature:

Compatible refrigerants:

1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1.1/8" **HNBR** 48bar/4,800kPa/700psig Helium  $\leq$  7.5 x 10<sup>-7</sup> Pa.m<sup>3</sup>/s at +20°C, 10 bar 200 microns -40°C up to 140°C

#### R32, R134a, R404A, R407C, R407F, R410A, R507, R1234ze, R1234yf, R718, R450A, R513A, R448A, R449A, R407A, R427A, R438A, R417A and R422D

For full information, please visit

conexbanninger.com

Approved tube:

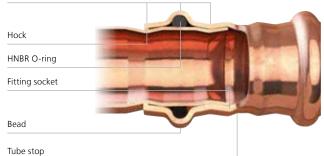
Approvals, standards and test compliance:

#### For full information, please visit conexbanninger.com

121 °C

#### **3-POINT PRESS TECHNOLOGY**

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



Set (No. 1000002121) includes: ROMAX Compact TT press machine, 1x RO BP 18 V/2.0Ah battery (No. 1000001652), RO BC battery charger EU (No. 1000001654), 8x >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	\_kg∆	No.
ROMAX Compact TT + $B$ MaxiPro press jaw compact set $1/4"-1.1/8"$ + hand tools, EU	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	21.2	1000002121
ROMAX Compact TT + $B$ MaxiPro press jaw compact set $1/4"-1.1/8"$ + hand tools, UK	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	21.2	1000002125
>B< MaxiPro press jaw compact set 1/4"-1.1/8" + hand tools	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	14.0	1000001989
ROMAX 4000 + >B< MaxiPro press jaw standard set 1/4"-1.1/8" + hand tools, EU	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	24.3	1000002945
ROMAX 4000 + >B< MaxiPro press jaw standard set 1/4"-1.1/8" + hand tools, UK	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	24.3	1000002946
B MaxiPro press jaw standard set $1/4''-1$ $1/8'' + hand tools$	1/4", 3/8", 1/2", 3/4", 5/8", 7/8″, 1″, 1.1/8″	18.1	1000002207

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# Pressing >B< MaxiPro press system

### 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.



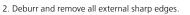
4. Clean the tube end with a circular movement, avoiding grooves that run parallel to the tube.



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



**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









8. Align jaws squarely on the fitting and complete



3. Use a pencil deburrer on internal edges.



6. Ensure the O-ring is seated



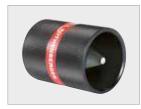
9. Mark the completed joint.



#### ACCESSORIES

Model		No.
RO BP 18V / 2.0 Ah Li-lon battery		1000001652
RO BP 18V / 4.0 Ah Li-Ion battery		1000001653
RO BP 18V / 4.0 Ah Li-HD battery		1000002548
RO BP 18V / 8.0 Ah Li-HD battery		1000002549
RO BC14/36, battery charger, EU		1000001654
RO BC14/36, battery charger, UK		1000001691
ROCASE 4414 case system		1000001786
for >B< MaxiPro compact press jaws		
ROCASE 4414 case system		1000001898
for >B< MaxiPro standard press jaws		
TUBE CUTTER 35 DURAMAG	4	70027
Internal / external deburrer Ø 6–35mm		1500000237
UNIGRAT pencil deburrer	10	21660
with HSS deburring blade		
ROVLIES cleaning pads (1 x 10 pads)		45268
Depth gauge >B< MaxiPro		1000002400









# **Press machines standard**

### **ROMAX 4000**

Electro-hydraulic radial battery-powered press machine for system depending pressing of fittings up to  $\emptyset$  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 112 and 3-elemental standard press jaws starting on page 113
- Press chains:
- ROTHENBERGER press chains standard starting on page 114



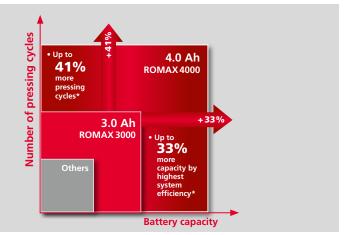
#### **TECHNICAL DATA**

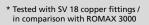
Dimensions:	467 x 125 x 80 mm (w/ 4.0 Ah battery)
	445 x 125 x 75 mm (w/ 2.0 Ah battery)
Weight:	Approx. 3.6 kg (without press jaw)
Piston force / hub:	32 - 34 kN / 40 mm
Nominal size:	Ø 12 - 110 mm
Service interval:	40,000 pressings / 2 years
Press jaw fixture:	270° rotation
Power supply:	RO BP 18 V / 2.0 Ah Li-ion battery
	RO BP 18 V / 4.0 Ah Li-ion battery
Operating temperature:	-10 °C up to 60 °C
Pressings:	Up to 240 times (with 4.0 Ah battery)
(with SV 18 copper)	Up to 105 times (with 2.0 Ah battery)



### 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!







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

# Pressing Press machines standard

### **ROMAX 4000 sets**



Ergonomic working with the ROMAX 4000



Productive working due to expanded



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



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

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

ACCESSORIES

#### Model No. RO BP 18V / 2.0 Ah Li-lon battery 1000001652 RO BP 18V / 4.0 Ah Li-Ion battery 1000001653 RO BP 18V / 4.0 Ah Li-HD battery 1000002548 RO BP 18V / 8.0 Ah Li-HD battery 1000002549 RO BC14/36, battery charger, EU 1000001654 RO BC14/36, battery charger, UK ROCASE 6414, empty 1000001691 1000001879 Press jaws & press chains starting on 📃 110



# ROTHENBERGER 107

# **Press machines standard**

### **ROMAX 3000 AC**

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

### **Product profile**

#### **APPLICATION AREA**

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

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



#### **TECHNICAL DATA** Dimensions: 460 x 120 x 90 mm Weight: approx. 3.8 kg (without press jaw) Piston force / hub: 32 kN / 40 mm Nominal size: Ø 12 - 110 mm<sup>2)</sup> Service interval: 20,000 pressings / 2 years Press jaw fixture: 270° rotation Power supply: 230 V / 50-60 Hz 110 V on request Operating temperature: -15 °C up to 60 °C **COMPATIBLE PRESSING TOOLS** ROTHENBERGER standard press jaws, Press jaws: compatible with many other manufacturers starting page 112 Press chains: **ROTHENBERGER** standard press chains starting on page 114



ROMAX 3000 AC basic set

ACCESSORIES



Model	No.
ROCASE 6414 with inlay ROMAX 3000 AC	1000001877
Press jaws & press chains starting on 📃 110	

#### ROTHENBERGER 108

<sup>1)</sup> Complete terms and conditions at rothenberger.com/roservice RO SERVICE+ only valid in participating countries 2) system dependent

# Press machines standard

### **ROMAX AC ECO**

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

### **Product Profile**

#### **APPLICATION AREA**

The ROMAX AC 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

BOTHENBERGER

5 m cable length

Large operations radius



#### **TECHNICAL DATA** 415 x 180 x 80 mm Dimensions: Weight: approx. 4.5 kg (without press jaw) Piston force / hub: 32 kN / 40 mm Nominal size: Ø 12 - 110 mm<sup>2)</sup> Service interval: 10,000 pressings / 2 years Press jaw fixture: 270° rotation Power supply: 230 V / 50-60 Hz 110 V on request **COMPATIBLE PRESSING TOOLS** ROTHENBERGER standard press jaws, Press jaws: compatible with many other manufacturers starting on page 112 Press chains: **ROTHENBERGER** standard press chains starting on page 114

270° rotatable jaw fixture

For easy use in confined spaces

Compatible jaw fixture Suitable for many press jaws

Emergency stop switch Immediate interruption of the feed

Safety lock No unintentional opening because a 180° rotation is necessary

#### **Balanced weight distribution**

Ergonomic use



Fig. ROMAX AC ECO basic set

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

Constant Force Technology (CFT)

For constant axial pressing force

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

### ACCESSORIES

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



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

<sup>2)</sup> system dependent

#### ROTHENBERGER 109

# 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).





5

**ROTHENBERGER press jaws** before surface treatment

5

## Press jaws compact



Press jaw overview starting on 📗 115



# Press jaws compact / standard

### Interchangeable press jaw compact

#### For ROMAX Compact TT

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



Model	Inserts Ø mm	No.	Model	Inserts Ø mm	No.
Interchangeable inserts compact set, RFz <sup>1)</sup> Interchangeable inserts compact set, U <sup>1)</sup>		14849 14869	Interchangeable press jaw compact Interchangeable press jaw + set, RFz	w/o inserts 12, 16, 20	1000002134 1000002135
Interchangeable inserts compact set, TH <sup>1)</sup>		14895	Interchangeable press jaw + set, CO	12, 16, 20	1000002136

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

### Press jaws standard

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

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

#### DURA LAZR TEC

100% more press cycles with laser hardening\*

#### 3-bolt synchronised mechanism

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

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

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



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 128 Permanent bolt Without potential weak points / no thread Considerable reduction of the breakage risk Increased safety Long-term corrosion protection Optimum for heavy-duty field operation Optimised inlet contour Adapted power flow Less wear and tear

Precision-manufactured

For optimum and reliable

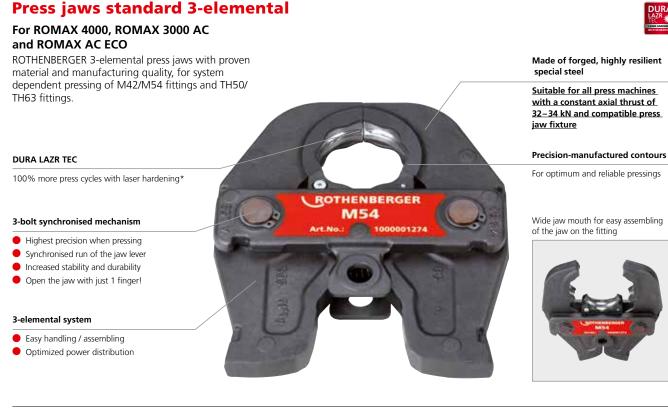
contours

pressings

Press jaw overview starting on 📃 115



# **Press jaws standard**



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

### Press jaws standard sets

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



**ROCASE** case system

Stack, click, transport

ROCASE starting on 📃 331



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

#### Effective

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

#### Variable

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

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



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# Pressing 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).



#### Precision-manufactured contours

### For optimum and reliable pressings **Clamping technology** Self-clamping press chain DURA LAZR TEC 100% more press cycles with laser 3 segments • For an optimum force distribution on the fitting Two flexible elements for an optimal material flow on the fitting Low weight Batch numbering and individual testing Comfortable operation even over long periods of work Secures the high-quality standard of Fig. press chain SV54 material and press contour 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 Long-term corrosion protection Optimum for heavy-duty field 3-bolt synchronised mechanism Synchronised run of the jaw lever enables the jaw to be opened with just one finger Fig. intermediate jaw ZBS1 Opening of the press chain up to 180° allows assembling even in Gripping the press chain with Closing the press chain intermediate jaws







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

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

Press chains overview starting on 115

5

hardening\*

operation

# **Overview press jaws**

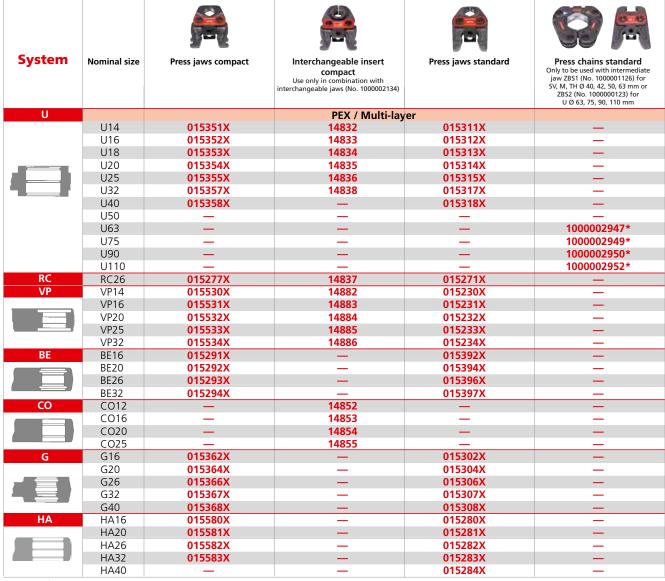




		a second		121	
System	Nominal size	Press jaws compact	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 1000002134)	Press jaws standard	Press chains standard Only to be used with intermediate jaw ZB51 (No. 1000001126) for SV, M, Ø 42-54 mm or ZB52 (No. 1000000123) for U Ø 63, 75, 90, 110 mm
Α			Metal / NE-Meta	al	
	A1/2"	<u> </u>	<u> </u>	015222X	
	A3/4"	_	_	015223X	_
	A1″	—	_	015224X	_
	A11/4"	<u> </u>	_	015225X	_
	A11/2"	—	_	015226X	_
	A2"	_	_	015227X	_
М	M12	015151X		015101X	
	M15	015152X	_	015102X	_
	M18	015153X	_	015103X	_
	M22	015154X	_	015104X	_
	M28	015155X		015105X	_
	M35	100002267	_	015106X	_
	M42	<u> </u>		1000001273	1000001391
	M54	_	_	1000001274	1000001392
V/SV	V/SV12	015261X	_	015211X	_
	V/SV14	015269X	_	015219X	_
	V/SV15	015262X		015212X	
	V/SV16	015260X	_	015220X	_
	V/SV18	015263X		015213X	_
	V/SV22	015264X	_	015214X	_
hand	V/SV28	015265X	_	015215X	_
	V/SV35	100002266	_	015216X	_
	V/SV42	<u> </u>		015217X	100001393
	V/SV54	_	_	015218X	100001394
R(H)			PEX / Multilaye	r	
	R12	<u> </u>	14863	015339X	_
	R14	015370X	_	015330X	_
	R16	015371X	14865	015331X	_
	R17	015378X	_	015333X	_
	R18	015379X	_	015334X	_
	R20	015374X	14868	015335X	_
	R25	015380X	_	015338X	_
	R26	015376X	14708	015336X	_
	R32	015377X	_	015337X	_
RFz	RFz12	—	14822	100000173	_
	RFz16	015180X	14823	015161X	_
	RFz18		100000124		_
	RFz20	015181X	14824	015162X	_
	RFz25	015182X	14825	015163X	_
	RFz26		100000125		
	RFz32	015183X	14826	015164X	
TH	TH14	015395X	14842	015321X	<u> </u>
	TH16	015385X	14843	015322X	_
	TH18	015398X	14844	015323X	—
	TH20	015389X	14845	015324X	—
	TH25	015399X	14846	015325X	_
	TH26	015391X	14847	015326X	—
	TH32	015393X	14848	015327X	<u> </u>
	TH40	015401X	_	015328X	—
	TH50	—		1000001810	_
	TH63			1000001811	
THG	THG32	100000236	—	100000235	
THT	THT32	015393H		015329X	

For more information visit rothenberger.com

# **Overview press jaws / Pressnavigator app**



For more information visit rothenberger.com

### **Pressnavigator app**

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

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





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

iTunes





# **Overview system approvals**

	ize	compact	standard	geable pact mbination ngeable jaws 134)	Anpro EN series stainless steel, carbon steel	APE Raccordi a pressare	PEX	LPEX Gas	stema	stema	Bonomi Group Turbo Press, Turbo Press Gas	ofix Pres	Chibro Adduzione / Gas, Como Galvlnized	nipress, iento	<b>CIMBERIO SpA Cimpress</b>	esklima	kin Press	Comisa Multi layer pipe	ress Gas,	Conex B-Press, INOX	aserMulti	erpex	KPRESS	Eurotherm, MULTIST- RATO, Euro 2000
<u>h</u> -A	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Us only in combination with interchangeable jaws (No. 100002134)	Anpro EN steel, carb	APE Racco	Bampi BALPEX (Serie MP)	Bampi BALPEX Gas	Blansol Sistema Easypress	Blansol Sistema Multipex	Bonomi G Press, Turl	Broen Ballofix Pres	Chibro Ad Como Gal	Chibro Cunipress, Riscaldamento	CIMBERIO	CO.E.S. Coesklima	COMAP, Skin Press	Comisa M	Conex B-Press Gas, Solar	Conex B-P	DALPEX LaserMulti Dalpex	Emmeti Gerpex	EMPUR PEXPRESS	Eurothem RATO, Eui
М	M12 M15	015151X 015152X	015101X 015102X									•	•	•	•									
	M18	015153X	015103X									•	•	•	•									
	M22 M28	015154X 015155X	015104X 015105X									•		•	•									
	M35	1000002267	015106X									٠	٠	٠	٠									
	M42 M54		1000001273 1000001274																					
V/SV	V12	015261X	015211X																					
	SV14 SV15	015269X 015262X	015219X 015212X																	•				
	SV15 SV16	015262X 015260X	015212X 015220X		•										•				•	•				
	SV18	015263X	015213X																	٠				
	SV22 SV28	015264X 015265X	015214X 015215X												•				•	•				
	SV28	1000002266	015215X		ĕ										ĕ				ĕ	ĕ				
	SV42		015217X		•															•				
G	SV54 G16	015362X	015218X 015302X		•															•				
	G20	015364X	015302X																					
	G26	015366X	015306X																					
	G32 G40	015367X 015368X	015307X 015308X																					
HA	HA16	015580X	015280X							_														
	HA20	015581X	015281X																					
	HA26 HA32	015582X 015583X	015282X 015283X																					
	HA40	013303/	015284X																					
R (H)	R12	045270V	015339X	14863																				
	R14 R16	015370X 015371X	015330X 015331X	14865						•														
	R17	015378X	015333X																					
	R18 R20	015379X 015374X	015334X 015335X	14868																				
	R25	015380X	015338X	14000						•														
	R26	015376X	015336X	14708																				
RFz	R32 RFz12	015377X	015337X 100000173	14822						•														
1112		015180X	015161X	14823					•															
		015181X	015162X	14824					•															
		015182X 015183X	015163X 015164X	14825 14826																				
TH	TH14	015395X	015321X	14842						•													•	
	TH16	015385X	015322X	14843		•	•	•		•	•						•	•			•	•	•	
	TH18 TH20	015398X 015389X	015323X 015324X	14844 14845				•			•										•	•	•	•
	TH25	015399X	015325X	14846													-					_	-	
	TH26	015391X	015326X	14847		•	•	•		•							•	•			•	•	•	•
	TH32 TH40	015393X 015401X	015327X 015328X	14848							•						•				•			
THG	THG32	100000236	100000235																					
THT U	THT32 U14	015393H 015351X	015329X 015311X	14832																				
	U16	015351X	015311X	14833												•								
	U18	015353X	015313X	14834												•								
	U20 U25	015354X 015355X	015314X 015315X	14835 14836																				
	U32	015357X	015317X	14838																				
	U40	015358X	015318X	14027																				
RC VP	RC26 VP14	015277X 015530X	015271X 015230X	14837 14882																				
	VP16	015531X	015231X	14883																				
	VP20	015532X	015232X	14884																				
	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																				
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The above release table reflects the status quo at the time this catalogue went to press, which may be subject to technical changes. For latest compatibility information, please check out the ROTHENBERGER Pressnavigator app for your smartphone.



# **Overview system approvals**

	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Use only in combination with interchangeable jaws (No. 100002134)	Eurotubi Pressfitting System	F.B.Q. BARONIO, BQ pres	Frabo Frabopress C Steel, 316	Frabo MULTI-BRASS	FRÄNKISCHE, ALPEX F50	Gabo, Gabopress H+5	35	Geberit Mapress Gas	Geberit Mapress Stainless	Geberit Mapress Copper Carbon steel	Geberit Mepla	Giacomini Giacoflex, Goaco Therm	HAKA, Fimisol, HAKAP- RES, HAKA, GERODUR	Harden 2000, Polypex 2000	Henco PVDF	Herz pipefix	HIDROTEC KLIMATEC	Hitec Sistema, Multis- trato	IBP >B< Press Rotguss, Inox
				Interchai compact Use only in with intercl (No. 100000	Euro Syste	F.B.C	Frab Stee	Frabo	FRÄN	Gabo	GAROS	Gebe	Gebe Stair	Gebe	Gebe	Giaco Goac	RES,	Hard 2000	Heno	Herz	HIDF	Hiteo	IBP J
M	M12 M15	015151X 015152X	015101X 015102X									•	•	•									
	M18 M22	015153X 015154X	015103X 015104X		•							•	•	•									
	M28	015155X	015105X		•							•	•	•									
	M35 M42	1000002267	015106X 1000001273		•							•	•	•									
V/SV	M54 V12	015261X	1000001274 015211X										•	•									
	SV14	015269X	015219X			٠	•																
	SV15 SV16	015262X 015260X	015212X 015220X																				
	SV18	015263X	015213X			٠																	•
hand	SV22 SV28	015264X 015265X	015214X 015215X																				
	SV35	1000002266	015216X			•	ŏ																•
	SV42 SV54		015217X 015218X																				
G	G16	015362X	015302X																				
	G20 G26	015364X 015366X	015304X 015306X												•								
	G32	015367X	015307X												•								
НА	G40 HA16	015368X 015580X	015308X 015280X												•								
	HA20	015581X	015281X																				
	HA26 HA32	015582X 015583X	015282X 015283X																				
	HA40	013303/	015284X																				
R (H)	R12 R14	015370X	015339X 015330X	14863													•						
	R16	015371X	015331X	14865					•								•						
	R17 R18	015378X 015379X	015333X 015334X														•						
	R20	015374X	015335X	14868					•								•						
	R25 R26	015380X 015376X	015338X 015336X	14708					•								•						
	R32	015377X	015337X						•								•						
RFz	RFz12 RFz16	015180X	100000173 015161X	14822 14823																			
	RFz20	015181X	015162X	14824																			
		015182X 015183X	015163X 015164X	14825 14826																			
TH	TH14	015395X	015321X	14842																			
	TH16 TH18	015385X 015398X	015322X 015323X	14843 14844					•	•	•					•		•	•	•		•	
	TH20	015389X	015324X	14845				٠	•	•	•					•		•	•	•		ĕ	
	TH25 TH26	015399X 015391X	015325X 015326X	14846 14847						•	•					•		•		•		•	
	TH32	015393X	015327X	14848				•	•	•	•									•		•	
THG	TH40	015401X 100000236	015328X 100000235							•													
THT	THT32	015393H	015329X																				
U	U14 U16	015351X 015352X	015311X 015312X	14832 14833					•												•		
	U18	015353X	015313X	14834				-													•		
	U20 U25	015354X 015355X	015314X 015315X	14835 14836				•	•												•		
	U32	015357X	015317X	14838				٠	ĕ												•		
RC	U40 RC26	015358X 015277X	015318X 015271X	14837																			
VP	VP14	015530X	015230X	14857				-															
	VP16 VP20	015531X 015532X	015231X 015232X	14883 14884					•														
	VP20 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. 100002134)	IBP >B‹ Press, >B‹ Press Gas	IPA, IPANA-PRES	IPALPEX	IVAR MP / PMP	Jaraflex-presssystem	Jupiter, Heizsysteme	КЕ КЕГП КЕLOX	KOHLER, InoxPress	LAVAGRUND, LAVAPRESS	Mair Heiztechnik, Gomafix	Mark KG, polymark	<b>MEGARO HAKAPRESS</b>	MULTITHERM PRESSSYSTEM	Multitubo Giacomini	NEUTHERM, MEKUPRESS	Nupi MultiNupi	Nussbaum Cupress, Optipress	Nussbaum CupressG	Nussbaum, Optiflex Plus	Oventrop, Cofit
М	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																			•		
	SV22 SV28	015264X 015265X	015214X 015215X		•																•	•		
	SV35	1000002266	015215X		ŏ																ŏ	ŏ		
	SV42		015217X		•																•			
G	SV54 G16	015362X	015218X 015302X		•																•			
	G20	015364X	015304X																					
	G26 G32	015366X 015367X	015306X 015307X																					
	G40	015368X	015308X																					
HA	HA16	015580X	015280X						_															•
	HA20 HA26	015581X 015582X	015281X 015282X																					
	HA32	015583X	015283X																					•
R (H)	HA40 R12		015284X 015339X	14863					_															•
	R14	015370X	015330X	14005					٠							•								
	R16 R17	015371X	015331X 015333X	14865				•	•					•		•			•					
	R18	015378X 015379X	015333X					•	•							•								
	R20	015374X	015335X	14868				٠	٠					٠		٠			٠					
	R25 R26	015380X 015376X	015338X 015336X	14708															•					
	R32	015377X	015337X	14700					•					•		•			•					
RFz	RFz12	04E400V	100000173	14822																				
		015180X 015181X	015161X 015162X	14823 14824																				
		015182X	015163X	14825																				
TH		015183X 015395X	015164X 015321X	14826 14842			•		•									•						
	TH16	015385X	015322X	14843		•	•	•	٠				ĕ		٠		٠	ĕ						
		015398X 015389X	015323X 015324X	14844 14845			•	•	•				•		•		•	•						
	TH20	015399X	015324X 015325X	14845		•	-		-				-		-		_							
		015391X	015326X	14847		•	٠	•	•				•		•		٠	٠						
	TH32 TH40	015393X 015401X	015327X 015328X	14848					•				•											
THG	THG32	100000236	100000235						-				-					٠						
THT U	THT32 U14	015393H 015351X	015329X 015311X	14832			•									_								
	U14 U16	015351X 015352X	015312X	14833				•		•	•									•				
	U18	015353X	015313X	14834				•												•				
	U20 U25	015354X 015355X	015314X 015315X	14835 14836				•		•										•				
	U32	015357X	015317X	14838						•	•									•				
RC	U40 RC26	015358X 015277X	015318X 015271X	14837						•						•				•				
VP	VP14	015530X	015230X	14857																-				
	VP16	015531X	015231X	14883																			•	
	VP20 VP25	015532X 015533X	015232X 015233X	14884 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. 100002134)	<b>PIPELIFE RADOPRESS</b>	POLYSAN Press-System	Prandelli, MULTYRAMA	Raccorderie Metalliche Inoxpress, Steelpress	Raccorderie Metalliche, Aespres	Raccorderie Metalliche Inoxpress Gas	<b>RIQUIERA A SERTIR</b>	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
М	M12 M15	015151X 015152X	015101X 015102X						•	•									•					
	M18	015153X	015103X					•	•	•					•	•	•	•	•					
	M22 M28	015154X 015155X	015104X 015105X																•					
	M35	1000002267	015105X					•	·	•					ĕ	•	ĕ	•	ĕ					
	M42		1000001273																					
V/SV	M54 V12	015261X	1000001274 015211X																					
	SV14	015269X	015219X												•	•	•							
	SV15 SV16	015262X 015260X	015212X 015220X												•	•								
	SV18	015263X	015213X												•	•								
	SV22	015264X	015214X												•	•	•	•						
	SV28 SV35	015265X 1000002266	015215X 015216X												•									
	SV42		015217X												•	٠		•						
G	SV54 G16	015362X	015218X 015302X												•	•	•	•					_	
	G20	015364X	015304X																					
	G26	015366X	015306X																					
	G32 G40	015367X 015368X	015307X 015308X																					
HA	HA16	015580X	015280X																					
	HA20 HA26	015581X 015582X	015281X 015282X																					
	HA32	015583X	015283X																					
	HA40		015284X																					
R (H)	R12 R14	015370X	015339X 015330X	14863 14864			•						•											
	R16	015371X	015331X	14865			•						-											
	R17 R18	015378X 015379X	015333X 015334X	14866 14867									•		-								_	
	R20	015374X	015335X	14868			•													•				
	R25	015380X	015338X	14707			_																	
	R26 R32	015376X 015377X	015336X 015337X	14708 14709																				
RFz	RFz12	0133777	100000173	14822							•				_				_					
		015180X 015181X	015161X	14823							•													
		015181X	015162X 015163X	14824 14825							•													
	RFz32	015183X	015164X	14826																				
TH	TH14 TH16	015395X 015385X	015321X 015322X	14842 14843	•	•						•											•	•
	TH18	015398X	015323X	14844	•	•						•									-	•	•	•
	TH20	015389X	015324X	14845	٠	•						•		•							٠	•	•	•
	TH25 TH26	015399X 015391X	015325X 015326X	14846 14847	•	•															•		•	•
	TH32	015393X	015327X	14848	•	•								•							•	•	•	
THG	TH40 THG32	015401X 100000236	015328X 100000235		•	•								•								•		•
THT		015393H	015329X																					•
U	U14	015351X	015311X	14832																				
	U16 U18	015352X 015353X	015312X 015313X	14833 14834																				
	U20	015354X	015314X	14835																				
	U25 U32	015355X 015357X	015315X 015317X	14836 14838																				
	U40	015357X 015358X	015317X	1-000																				
RC	RC26	015277X	015271X	14837																				
VP	VP14 VP16	015530X 015531X	015230X 015231X	14882 14883																				
	VP20	015532X	015232X	14884																				
	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																				
	VESZ	0135548	0132348	14000																				

The above release table reflects the status quo at the time this catalogue went to press, which may be subject to technical changes. For latest compatibility information, please check out the ROTHENBERGER Pressnavigator app for your smartphone.

# **Overview system approvals**

	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	<b>VIEGA PROFIPRESS G</b>	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
М	M12 M15	015151X 015152X	015101X 015102X		•										•									
	M18	015153X	015102X		•										•									
	M22	015154X	015104X		٠										٠									
	M28	015155X	015105X		•																			
	M35 M42	1000002267	015106X 1000001273		-																			
	M54		1000001274												•									
V/SV	V12	015261X	015211X									٠												
	SV14 SV15	015269X 015262X	015219X						_		•													
	SV15 SV16	015262X 015260X	015212X 015220X													•								
	SV18	015263X	015213X								•	•												
	SV22	015264X	015214X								٠	٠				٠								
	SV28 SV35	015265X 1000002266	015215X																					
	SV35 SV42	100002200	015216X 015217X									•												
	SV 12		015218X								ŏ	ŏ												
G	G16	015362X	015302X																					
	G20 G26	015364X 015366X	015304X 015306X						_															
	G20 G32	015367X	015300X																					
	G40	015368X	015308X																					
HA	HA16	015580X	015280X												•									
	HA20 HA26	015581X 015582X	015281X 015282X															•						
	HA32	015583X	015283X												-	ŏ		•						
	HA40		015284X																					
R (H)	R12	0450301	015339X	14863																				
	R14 R16	015370X 015371X	015330X 015331X	14864 14865																				
	R17	015378X	015333X	14866																				
	R18	015379X	015334X	14867																				
	R20	015374X	015335X	14868			•		•													•		
	R25 R26	015380X 015376X	015338X 015336X	14707 14708			•																	
	R32	015377X	015337X	14709			•		•													•		
RFz	RFz12		1000000173	14822																				
		015180X	015161X	14823																				
		015181X 015182X	015162X 015163X	14824 14825																				
	-	015183X	015164X	14826																				
TH	TH14		015321X	14842																				
	TH16 TH18	015385X	015322X 015323X	14843 14844										•			•	•	•					•
	THI8 TH20	015398X 015389X	015323X 015324X	14844		•								•					•					•
	TH25		015325X	14846		•								-					-				-	
	TH26	015391X	015326X	14847										•			•	•	•				•	•
	TH32 TH40	015393X 015401X	015327X 015328X	14848		•											•							
THG		100000236	100000235											-			-						-	
THT	THT32	015393H	015329X														٠							
U	U14	015351X	015311X	14832																				
	U16 U18	015352X 015353X	015312X 015313X	14833 14834																-				
	U20	015354X	015314X	14835						•										٠	ŏ			
	U25	015355X	015315X	14836				•		•										٠	•			
	U32	015357X	015317X	14838				•	-	•										•	•			
RC	U40 RC26	015358X 015277X	015318X 015271X	14837				•	•	•														
VP	VP14	015530X	015230X	14882																				
	VP16	015531X	015231X	14883									٠											
	VP20	015532X	015232X	14884																				
	VP25 VP32	015533X 015534X	015233X 015234X	14885 14886																				

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System overview	124 - 125
Threading manual	126 - 129
Threading electric	130 - 140
Accessories threading	141
Roll grooving	142 - 143



System overview

Threader manual				
	SUPER CUT sets 1/2 - 1.1/4"	SUPER CUT sets 3/8 - 1.1/4"	SUPER CUT sets 3/8 - 2"	SANI KIT 1/2 - 1″
			299 0	
Operation mode:	Handed / manual	Handed / manual	Handed / manual	Handed / manual
Working range:	1/2 - 1.1/4″	3/8 - 1.1/4"	3/8 - 2″	1/2 - 1″
Handle:	1 pc.	2 pcs.	3 pcs.	2 pcs.
Thread type:	BSPT - NPT	BSPT - NPT	BSPT - NPT	BSPT - NPT
Number of die heads:	4 pcs.	Up to 5 pcs.	Up to 7 pcs.	3 pcs.
Number of threading dies:	-	-	-	-
Power:	-	-	-	-
Weight:	5.1 kg	6.2 kg	11.4 kg	8.2 kg
Page	126 - 127	126 - 127	126 - 127	128 - 129

Threader electric			
	SUPERTRONIC 1250	SUPERTRONIC 2000	
	Top	Torrest and the second	
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 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

System overview

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  $\,$ 

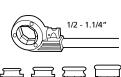


# ROTHENBERGER

**Threading manual** 

### 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	$\sqrt{kg}$	No.
BSPT R	1/2" - 3/4" - 1"	4.2	070780X
BSPT R	1/2" - 3/4" - 1" - 1.1/4"	5.1	070781X

1″

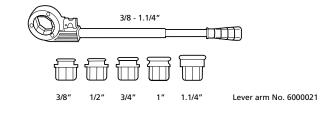
1.1/4"

### SUPER CUT sets Ø 3/8 - 1.1/4"

3/4"

1/2″

With ratchet handle (small octagonal drive, No. 070840X) and die heads in ROCASE 4414 (No. 1300003541)



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





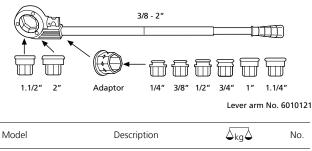
ROCASE

RO

6

### 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)



		5	
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
Ratchet pipe deburrer 1/4 – 2"	141



**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



Polished head and joint

Firm grip even with heavy-duty use

6

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

Precise thread cutting to approved standards

# ROTHENBERGER

**Threading manual** 

### **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	$\sqrt{kg}$	No.
SANI KIT tool set	8.2	70600

### SUPER CUT ratchet arm

With offset adaptor



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

### ACCESSORIES

Description	
Die heads 1/4 - 2"	134
Dies 1/4 - 2"	134
Cutting fluid	135
Pipe roughing wrench	141
Ratchet pipe deburrer 1/4 – 2"	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″	
Optional (not included in set):	Ø 1/4", 3/8"	
NPT:	Ø 1/4 - 1.1/4″	
KEY FEATURES		
<ul> <li>Ideal for confined spaces (corners,</li> </ul>	shafts)	

- Sturdy and light, even with heavy-duty use
- Compact gear housing with excellent overall size
- High power transmission, quiet running with long service life
- Tough, rugged and durable
- Weight reduction and easy handling



#### **KEY FEATURES**

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

### **TECHNICAL DATA**

15 - 20 rpm
27 rpm
800 W
230 / 110 V
4.9 kg
456 x 168 x 76 mm



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

130



Small head shape (11 cm)



Pipe roughing



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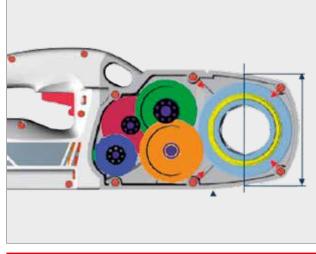
**Threading electric** 

### SUPERTRONIC 1250 set

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



Model	Description	∆kg∆	230 V	110 V
SUPERTRONIC 1250 set, BSPT	1/2 - 3/4 - 1 - 1.1/4″	14.5	71450	71451
SUPERTRONIC 1250 set, NPT	1/2 - 3/4 - 1 - 1.1/4"	13.0	71454	71453
SUPERTRONIC 1250	with forged pipe clamp, without die heads	3.9	71470	
Pipe clamp for SUPERTRONIC 1250	Up to max. 1.1/4"	1.6	865008700	865008700
Helical gears for maximum power (800 W)	Portable, fast and e	easy steel pipe processing	g	





### ACCESSORIES

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



# **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: NPT:** 

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 to walls
- Ideal for confined spaces (corners and shafts)
- User-friendly work with the large mechanism for switching directions
- Reliable motor for long-term use





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# **ROTHENBERGER**

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**Threading electric** 

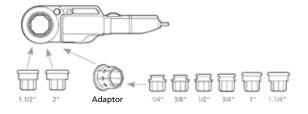
### SUPERTRONIC 2000 set

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

#### Work in confined spaces



Die heads with the tripod universal workbench



### ACCESSORIES

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



**Threading electric** 

### **Precision die heads**

#### With enlarged shaving discharge chambers

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

#### 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

6

Faster and easier removal of metal chips

Product p	rofile
-----------	--------

#### **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.	NPT
1/4″	070821X	
3/8″	070822X	3/8″
1/2″	070823X	1/2″
3/4″	070824X	3/4″
1″	070825X	1″
1.1/4″	070826X	1.1/4″
1.1/2″	070842X	1.1/2″
2″	070843X	2″

### No 070908X 070912X 070913X 070914X 070915X 070849X 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

### **ROFIX adaptor**

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

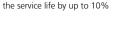
• Easy insertion of the die head with tension ring locking



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

ROTHENBERGER

134



Extra wide and exchangeable threading dies

Fully automatic production process

Reduced production tolerances to increase

Highest demands and long service life

#### Forcelocked octagonal universal drive with snap ring locking

Easy and tool-free assembly with secure hold

# **Threading electric**

### RONOL

#### High-performance cutting oil

### **Product profile**

#### **KEY FEATURES**

- Excellent cooling and lubricating properties
- Durability of the threading die is increased considerably
- For perfect, clean threads
- Safe for skin contact
- Also suitable as cold lubrication when cutting metal

#### **TECHNICAL DATA**

#### Mineral-based oil

For threading of all materials including stainless steel Emulsifying agent enables easy rinsing of the pipeline without unhealthy polychlorinated biphenyl (PCB)

Mineral-based cutting oil is not pe	ermitted for drinl	king
water installations - Please check	your national reg	gulations

Model	Contents	$\sqrt{kg}$		No.
RONOL spray can	600 ml	0.58	12	65008
RONOL canister	5 l	4.60	1	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	$\sqrt{kg}$		No.
RONOL SYN spray can	600 ml	0.75	12	65013
RONOL SYN canister	5 l	5.20	1	65015









#### ROTHENBERGER 135

**Threading electric** 

### **ROPOWER 50 R**

#### Portable compact threader Ø 1/4 - 2"

Quick and effortless production of precise and reliable pipe and bolt threads to approved standards

Product profile		
APPLICATION AREA		
Use on building sites, for repairs and s for installation work	service, industrial use and	
For threading of:		
BSPT right, EN 10226, ISO 7-1:	Ø 1/4 - 2″	
NPT, ASME B1.20.1:	Ø 1/4 - 2″	
BSPP, ISO 228-1, DIN 259:	Ø 1/2 - 2″	
BSW, B. S 84:	Ø 3/8 - 2″	
Metric, ISO 261, DIN 13:	Ø 10 - 24 mm	



#### **KEY FEATURES**

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

#### **TECHNICAL DATA**

Performance:	1,150 W
Speed:	40 rpm
Weight:	68 kg
Dimensions (L x W x H):	535 x 430 x 340 mm
Dimensions (L x W x H):	535 x 430 x 340 mm



Constant oil flow quantities

Large plastic shavings collection trough

Easy to clean

in pipe interior is avoided

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Pre- and post-processing of pipes

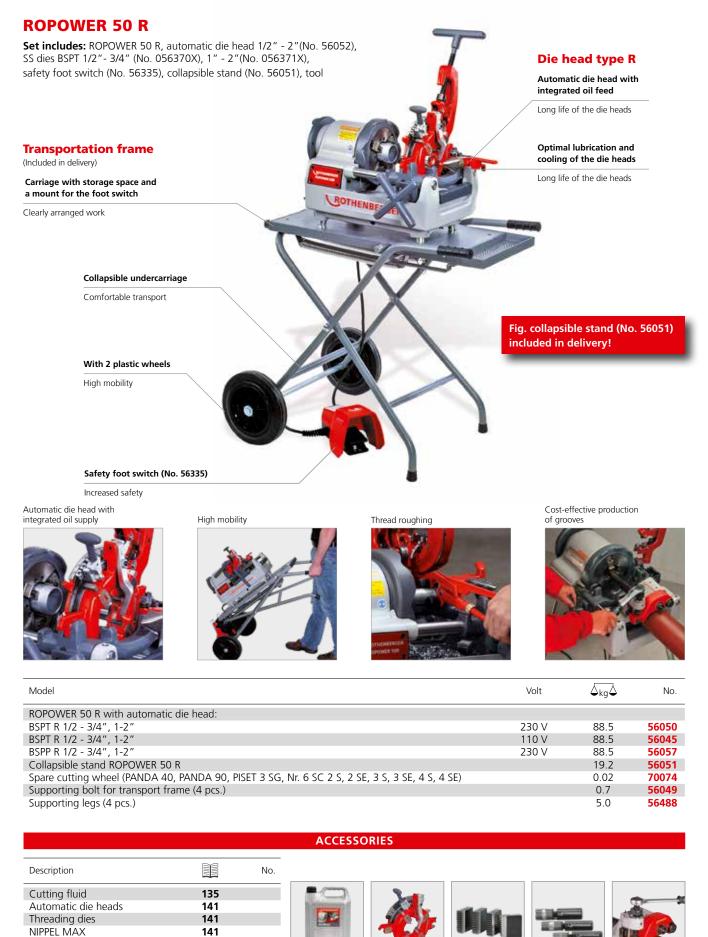
#### Self-centering pipe cutter

#### Precise cuts

Burr-free work

clamping-force

**Threading electric** 



Pipe roughing wrench

ROGROOVER 1-6"

56500

56505

141

142

# **ROTHENBERGER** 137

**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)

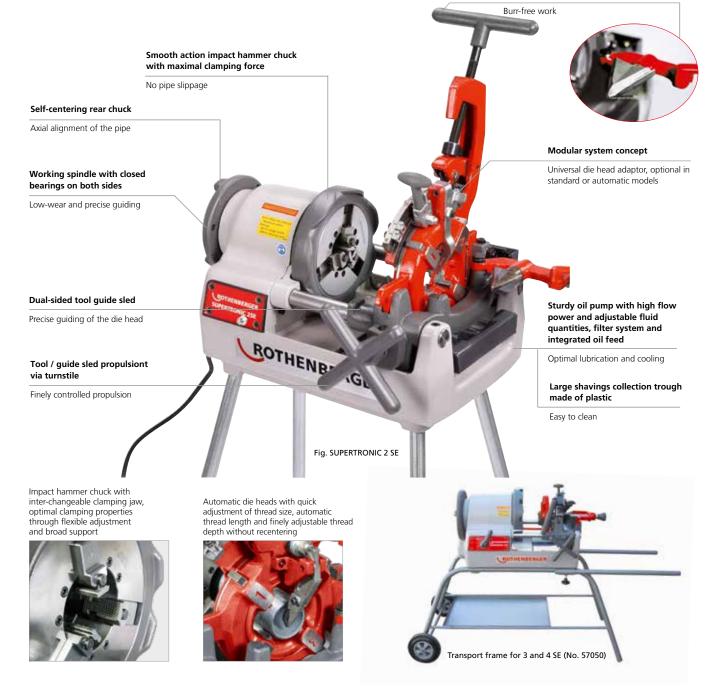
### **KEY FEATURES**

• 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



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## **Threading electric**

### **SUPERTRONIC 2 SE**

Compac	t threader	Ø 1/2 -	2″
--------	------------	---------	----

Standard die head:	1/2 - 2" (No. 56156)
Automatic die head:	1/2 - 2" (No. 56266)

#### **TECHNICAL DATA**

Power: Speed:	1,150 W 40 rpm
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	$\sqrt{kg}$	230 V
with standard die head BSPT R 1/2 - 3/4", 1 - 2"	68	56150
with automatic die head BSPT R $1/2 - 3/4"$ , $1 - 2"$	68	56175

### **SUPERTRONIC 3 SE**

#### Compact threader Ø 1/2 - 3"

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

TECHNICAL DATA	
Power:	

Power:	1,700 W
Speed:	33 rpm
Weight, with die heads:	100 kg
Dimensions (L x W x H):	650 x 480 x 420 mm

Set includes: SUPERTRONIC 3 SE, standard die heads 1/2 - 2" (No. 56156) or automatic die heads (56266), standard die head 2 - 3" (No. 56104) or automatic die head 2 1/2 - 3" (56288), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 2 - 3" (No. 56006), SS threading dies 2 1/2 - 3" (No. 56489), safety foot switch (No. 56335), supporting legs (No. 56491), tool

SUPERTRONIC 3 SE	$\sqrt{kg}$	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



### Compact threader Ø 1/2 - 4"

SUPERTRONIC 4 SE with automatic die head

### **TECHNICAL DATA**

Power:	1,750 W
Speed:	22 / 50 rpm
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), tool

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

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



UPERTRONIC 2 SE	
Oburror without holdor for 2 SE	

56198 Deburrer without holder for 2 SE Supporting legs (4 pcs.) 56488



SUPERTRONIC 3 SE	No.
Deburrer without holder for 3 SE	56199



No.

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

### **Overview die heads / threading dies**

À		3		12	1	R	: 2 SE	3 SE	4 SE
1	Die heads		Thi	reading die	5	50	N	NIC	N
Thread type	Size	No.	Size	No. SS-steel	No. HSS-steel stainl. steel/ Inox pipe	ROPOWER	SUPERTRONIC	SUPERTRONI	SUPERTRONI
Automatic	die heads	suitable f	or RIDGID <sup>1)</sup> thr	eading die	25	~	S	S	S
BSPT R	1/2 - 2"	56052	1/4 - 3/8" 1/2 - 3/4" 1 - 2"	56369 056370X 056371X	56379 56380	•			
NPT	1/2 - 2"	56053	1/4 - 3/8" 1/2 - 3/4" 1 - 2"	56372 56373 56374		•			
BSPP		56054	1/2 - 3/4" 1 - 2"	56058 56059		•	•	•	•
			or ROTHENBER						
BSPT R	1/2 - 2" 2.1/2 - 3" 2.1/2 - 4"	56266 56288 56289	1/2 - 3/4" 1- 2" 2.1/2 - 3" 2.1/2 - 4"	56003 56007 56291 56294	56235 56236 56237 56238	•	•	•	•
NPT	1/2 - 2″	56271	1/2 - 3/4"	56111	56180				
	2.1/2 - 3″ 2.1/2 - 4″	56268 56269	1 - 2" 2.1/2 - 3" 2.1/2 - 4"	56112 56295 56296	56181 56183		•	•	•
DOTUDU			3.1/2 - 4"		56184				•
BSPT R	1/4 - 3/8"	56153	nual die heads 1/4 - 3/8"	56001	56135				
borik	1/2 - 2" 2 - 3"	56155 56104	1/2 - 3/4" 1 - 2" 2 - 3"	56003 56007 56006	56235 56236 56121	•	•	• • •	•
	3.1/2 - 4″	56032	3.1/2 - 4″	56008	56122				
NPT	1/4 - 3/8" 1/2 - 2"	56118 56156	1/4 - 3/8" 1/2 - 3/4" 1 - 2"	56110 56111 56112	56180 56181	•	•	•	•
	2.1/2 - 3″	56104	2.1/2 - 3″	56114				•	•
BSPP	1/2 - 1.1/4" 1.1/2 - 3"	56076 56077	1/2 - 3/4" 1 - 1.1/4" 1.1/2 - 2"	56097		•	•	•	•
	1.1/2 5	50077	2.1/2 - 3"	56098				•	•
BSW	3/8 - 1″	56153	3/8" 1/2" 5/8" 3/4" 7/8"	56009 56010 56011 56012 56013	56162 56163 56164 56165	•	•	•	•
	1.1/8 - 2″		1" 1.1/8 - 1.1/4" 1.1/2" 1.5/8 - 1.3/4" 1.7/8 - 2"	56185 56187 56188	56166	• • • • • • • • • • • • • • • • • • • •	•	•	• • • •
Metric	10 - 24	56133	10 12 14 - 16 18 - 22	56081 56082 56083 56085	56351 56352 56353 56355	•	•	•	•
	27 - 36	56315	24 27 30 - 33 36	56088 56189 56190 56191	56358		• • •		

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

ROTHENBERGER

### 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

<sup>1)</sup> RIDGID is a registered trade mark of the Emerson Electric Co., St. Louis, USA



**Accessories threading** 



# 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)

Quick and clean deburring

THENBERGE

THENREBGE

THENBERGER



Model	$\sqrt{kg}$	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



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

Ratchet pipe deburrer 1/4 – 2"

Spare deburrer bit (No. 70296)

6

Model	► <b>○</b> ◄ inch	► <b>○</b> ◄ mm	∆ <sub>g</sub> ∆	No.
Internal deburrer with ratchet Spare deburrer	1/4 - 2″	13 - 60	2,680 200	70289 70296

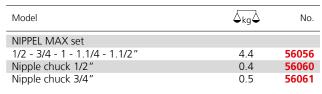
### NIPPEL MAX

### NIPPEL MAX Ø 1/2 - 2"

For the production of nipples and double nipples, grips short pipe lengths from within; hardened, sharpened gripping jaws. For all stationary threading machines like PANDA, PISET, ROPOWER and SUPERTRONIC.

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





ROTHENBERGER

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	$\sqrt{kg}$	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

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

### TECHNICAL DATA

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



Model	$\sqrt{kg}$	No.
Hand roll groover 2 - 6"	12.0	100000212
Roller set 1 "	0.59	100000720
Roller set 1.1/4 - 1.1/2"	0.62	100000721
Roller set 2 - 6"	1.00	100000850
Roller set 4 - 6"	2.48	100000722
Roller set 8 - 12"	2.70	100000723

#### Application on tripod workbench



Fixture for stabiliser



### **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 SUPERTRONIC 2 SE SUPERTRONIC 4 SE Ropower 50 r Supertronic 3 se

#### **KEY FEATURES**

- Quick connection of pipes anywhere where welding isn't allowed
- Long life and little wear
- Easy to transport with the lightweight aluminium casing
- Adjustable and finely-controlled arrester for consistent groove depth
- Convenient, easy and time-saving operation

Model	∆kg∆	No.
ROGROOVER for SUPERTRONIC 2000	14.5	56509
ROGROOVER for ROPOWER 50 R, SC 2 SE, REX 2"	14.5	56505
ROGROOVER for SUPERTRONIC 3 SE and REX 3"	14.5	56506
ROGROOVER for SUPERTRONIC 4 SE	14.5	56507
ROGROOVER for RIDGID <sup>1)</sup> 300	16.0	56504
ROGROOVER for REX 4"	14.5	56508

### Extremely light: 12 kg!



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



230 V

### **Roll grooving**

110 V

### **ROGROOVER 1 - 12"**

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

### **Product profile**

#### **APPLICATION AREA**

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

#### **KEY FEATURES**

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

#### **TECHNICAL DATA**

 Working range:
 1 - 12" (3

 Pipe wall-thickness:
 3 - 10 mr

 Weight:
 175 kg

 Dimensions:
 685 x 474

 Voltage:
 110 V-50

 Power:
 1,500 W

 Torque:
 36 rpm

 Max. working pressure:
 27,750 N

1 - 12" (33 - 324 mm) 3 - 10 mm 175 kg 685 x 474 x 960 mm 110 V-50 Hz, 230 V-50 Hz / 60 Hz 1,500 W 36 rpm 72 750 N



No.

1500001351

1500001352 1500001353

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

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

 $\Delta_{kg}\Delta$ 

175

175

175

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ROGROOVER 1 - 12", 230 V 50 Hz

ROGROOVER 1 - 12", 230 V 60 Hz ROGROOVER 1 - 12", 110 V 50 Hz

Model







# Soldering & welding

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7

# **ROTHENBERGER** 145

ROVLIES®

# **Soldering & welding**

# System overview



# **Soldering & welding**

System overview

		Brazing & sof	t soldering devic	es	
	RE 17	ALLGAS 2000 set	ALLGAS 2000 PS 0.5/2 Compact	ALLGAS Mobile Pro	ROXY 400 L
		Fig. similar			
Soft soldering: 🚺	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Brazing:	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Welding:	0.5 - 14 mm	0.2 - 5 mm	-	-	-
Cutting:	12 - 100 mm	-	-	-	-
For use with:	Acetylene, oxygen, Maxigas 400	Acetylene, oxygen	Propane, oxygen	MAPP <sup>1)</sup> gas, oxygen	Maxigas 400, oxygen
Page	168	164	165	166	167
Cylinder	brazing & sof	t soldering	E-soft soldering	9	
	AIRPROP	TURBOPROP	ROTHERM 2000		
Soft soldering:	Up to Ø 54 mm	Up to Ø 54 mm	Up to Ø 54 mm		
Brazing:	Up to Ø 22 mm	Up to Ø 28 mm	-		
Special- application:	-	-	Soft soldering without flame		
For use with:	Propane, butane	Propane, butane	230 V		
Page	156	157	162 - 163		
	Cartridg	es & cylinders			
	Acety	/lene	Oxygen		
					Soft soldering Basic Up to 450 °C
Application:	Brazing, weld		Brazing, welding, cutting		Brazing
Valve:	DIN 4		10x1 (one-way) / G 3/4" RH	1	450 °C - 1100
Pressure:	19		10 bar (one-way) / 200 bar		Gas welding
Content:	5 I, 1	10 l 950	0 ml (one-way) / 2 l, 5 l, 10	I	> 1100 °C
Page	17	0	170		

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

# **Cartridge brazing**

## **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 AR	EA	KEY FEATUR	RES
pro	to Ø 28 mm (with flame reflector in a wind otected environment) to Ø 35 mm	<ul><li>Reliable piez</li><li>Double the s</li></ul>	omfortable for longer jobs o ignition (up to 30,000 ignitions) safety because there is no gas leakage without
KEY FEATURES			ers (piezo ignition)
<ul> <li>Long service life</li> <li>"Twist ,N' Load" sy exchange of the bu</li> <li>Precise flame adjust</li> </ul>	t-up, less consumption! stem (5 different burner available) – urner with only one movement tment brazing with one cartridge	TECHNICAL Coupling: Handle: Burner:	7/16" EU Aluminium, bolted Brass / stainless steel
			"Twist 'N' Load" Fast "Twist 'N' Load" system
	Elaborately manufactured brass / stainless steel design Long service life		Exchange of the burners with one movement (5 different burners available)
<b>Burners with swirl fl</b> Rapid heat-up, less cor			Fine regulating valve Precise flame adjustment
	Only ignites if burner has been securely locked		Ergonomically designed handle Robust and optimum handling ma of high-quality aluminium
	Dual safety		
L	High-performance piezo		45
	Reliable (up to 30,000 ignitions)		BOTHENBERGE
	Locking button		NIC
	Continual use with only one hand	_/	
	ROTHENBERGER MAPP <sup>1)</sup> gas		

EAL FO

up to 28 n

DEAL FO

p to 35 mr

↓ ■ lock

Piezo

Fine

Hot

Up to 2.5 hours of brazing with one cartridge

Brazing in gas installation



High flame temperature based on cyclone swirl



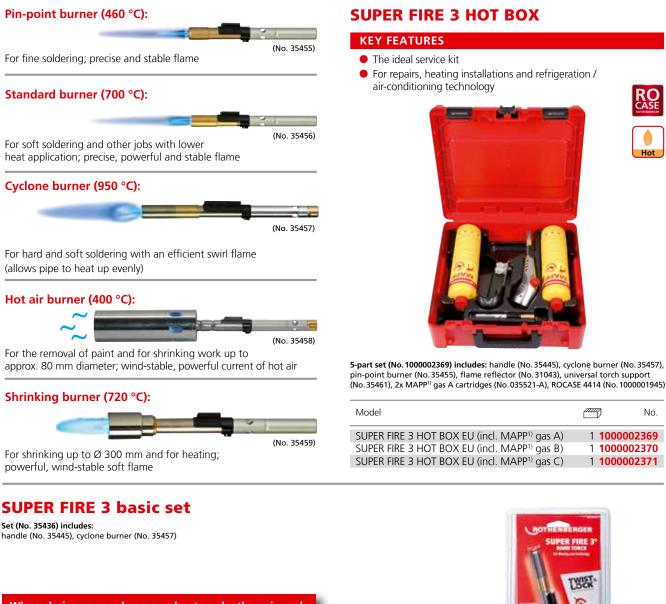
Brazing in refrigeration / air-conditioning technology



148

7

# **Cartridge brazing**



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

Model		No.
SUPER FIRE 3 basic set	4	35436
SUPER FIRE safety adaptor 7/16" to 1"	1	035648X



air-conditioning technology

No. 035648X

No. 35436



177 - 179

7

No.

175

1 1000002369

1 1000002370

1 1000002371

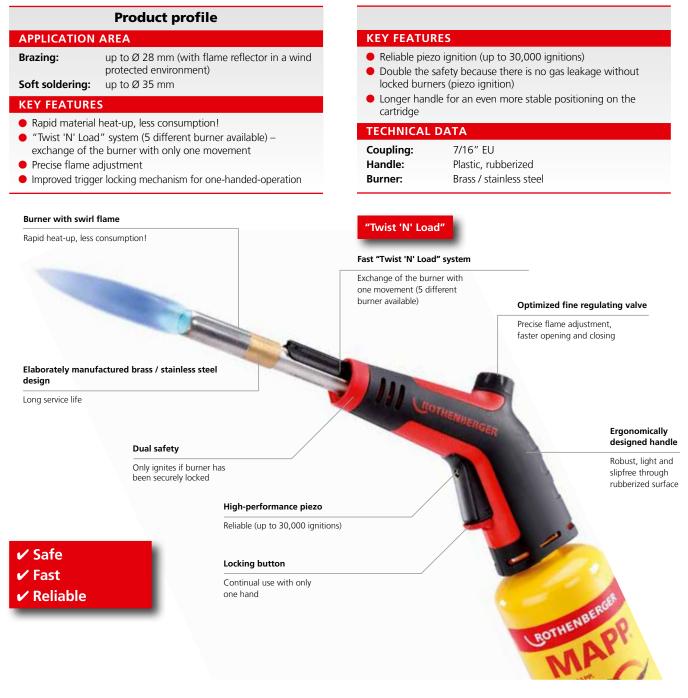
Solder

# **Cartridge brazing**

## **SUPER FIRE 4**

#### Ergonomic brazing unit

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



Brazing in refrigeration / air-conditioning technology



High flame temperature based on cyclone swirl



Brazing in refrigeration / air-conditioning technology



Fine

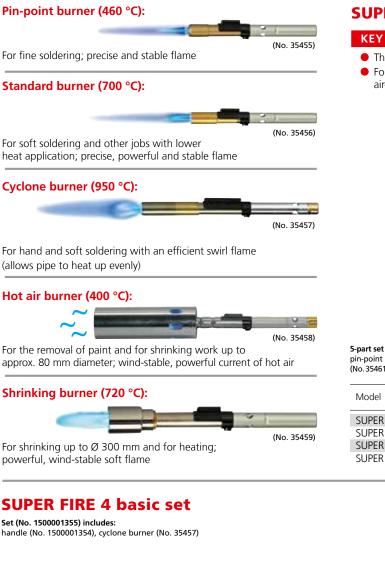
Hot

**ROTHENBERGER** 

150

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**Cartridge brazing** 



## **SUPER FIRE 4 HOT BOX**

#### **KEY FEATURES**

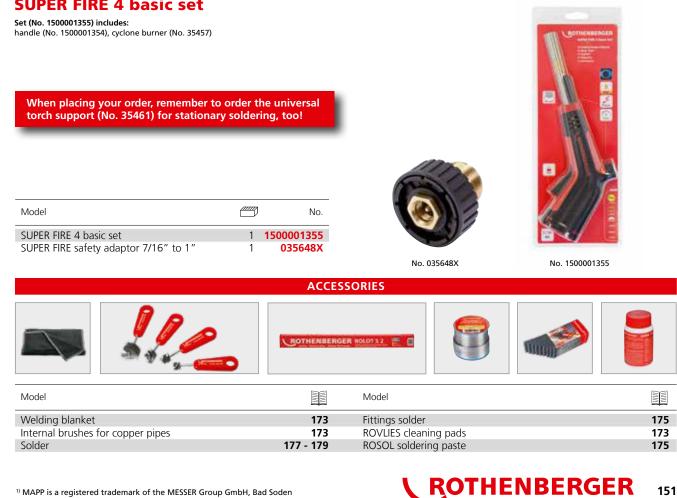
- The ideal service kit
- For repairs, heating installations and refrigeration / air-conditioning technology





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 MAPP<sup>1)</sup> gas A cartridges (No. 035521-A), ROCASE 4414 (No. 1000001945)

Model		No.
SUPER FIRE 4 HOT BOX EU (incl. MAPP <sup>1</sup> ) gas A) SUPER FIRE 4 HOT BOX EU (incl. MAPP <sup>1</sup> ) gas B)	1 <b>1000</b> 1 <b>1000</b>	02366
SUPER FIRE 4 HOT BOX EU (incl. MAPP <sup>1</sup> ) gas C) SUPER FIRE 4 HOT BOX US (incl. MAPP <sup>1</sup> ) gas US)	1 <b>1000</b> 1 <b>1000</b>	



# **Cartridge brazing/soft soldering**

## **ROFIRE GLOBAL**

#### Ergonomic torch for brazing and soft soldering applications

#### APPLICATION AREA

Brazing:

up to Ø28mm (with flame reflector in a wind protected environment)

Soft soldering: up to Ø 35 mm

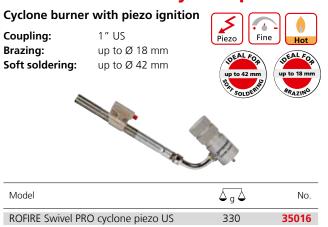
#### **KEY FEATURES**

- 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	ΔgΔ	No.
ROFIRE GLOBAL, 7/16"EU	250	1500002869



#### **ROFIRE Swivel PRO cyclone piezo**



## **ROFIRE Swivel PRO twin**

Twin cyclone b	urner		
Coupling: Brazing: Soft soldering:	1" US up to Ø 28 mm up to Ø 64 mm	Fine	UP to 28 m
Model		Δ <sub>g</sub> Δ	No.
ROFIRE Swivel PR	O 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
Housing:	Inox burner, 2-component rubber-plastic handle, metal cartridge housing



Model	∆ g ∆	No.
ROFLAME 4 PIEZO, without gas	630	1000002358

# **Cartridge soft soldering**

1

Fine

## **ROFIRE 4**

Ergonomic soft soldering torch for a safe and comfortable usage

#### **APPLICATION AREA** up to Ø 15 mm

Brazing: Soft soldering:

#### **KEY FEATURES**

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

up to Ø 22 mm

Precise adjustment of the flame

#### **TECHNICAL DATA**

Madal

Coupling:	7/16"-EU
Handle:	Plastic
Burner:	Stainless s

Stainless steel & brase	S

Model	∆ g ∆	INO.
ROFIRE 4, without gas	300	1500002921
ROFIRE 4, with Multigas 300	750	1000002359

## **ROFIRE 4 PIEZO**

Ergonomic soft soldering torch for a safe and comfortable usage

	saye	
APPLICATION /	AREA	
Brazing: Soft soldering:	up to Ø 15 mm 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

Integrated pre-heat function for a

upside down (360°)







Coupling: Handle: **Burner:** 

NIa

7/16" EU Plastic, rubberized Stainless steel & brass





7

# **Cartridge brazing**

## **MAPP<sup>1)</sup> gas**

#### High performance brazing and soldering gas

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

#### **Product profile**

#### **KEY FEATURES**

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

#### **KEY FEATURES**

- Easy to use
- Guaranteed constant top torch performance
- Longer periods of use





#### SUPER FIRE 4 HOT BOX

SUPER FIRE 3 HOT BOX

## **Packaging profile**

Model	MAPP <sup>1)</sup> gas
No.	035521-A
EAN code	4004625400180
Product size (mm) (W x H)	70 x 270
Contents (ml)	800
Weight (g)	400
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

protects against accidental drops

Model	Content		No.
MAPP <sup>1)</sup> gas 7/16"EU, A	788 ml	12	035521-A
Languages: DE, GB, FR, ES, IT, PT			
MAPP <sup>1)</sup> gas 7/16"EU, B	788 ml	12	035521-B
Languages: DK, NL, SE, FI, FR, RUS			
MAPP <sup>1)</sup> gas 7/16"EU, C	788 ml	12	035521-C
Languages: CZ, PL, HU, BG, TR, RC	)		
Torches can be found starting o	on 🔟 14	18	





# **Cartridge brazing/soft soldering**

#### **Maxigas 400**

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



## **Multigas 300**

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









Model	Maxigas 400	
No.	035570-A/-B	
EAN code	4004625355701 (A)	
Product size (mm) (W x H)	65 x 260	I
Content (ml)	600	
Weight (g)	352	
Unit per PU ‴	24	1
PU per layer / pallet	9	
Layer per pallet	3	
Units per pallet	648	
Number of pallets per truckload	60	1
Units per truckload	38,880	
Pallet weight (kg)	195	1
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	(

Model	Multigas 300
No.	035510-А/-В
EAN code	4004625355107 (A)
Product size (mm) (W x H)	65 x 260
Content (ml)	600
Weight (g)	338
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)	191
Pallet size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	405 x 272 x 264

## Supergas C 200 TSS



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



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

# **Cylinder brazing**

## **AIRPROP**

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

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

#### **Product profile**

#### **KEY FEATURES**

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

#### **TECHNICAL DATA**

Self-induced air: Torch: Hose coupling:

Turbine and combustion chamber Surface treated, chromed brass G 3/8" LH



Fig. similar

∆<sub>kg</sub>∆

2.8

3.1

No.

31092

31091

Ømm	⊾ mm	g/h 2 bar	kWh – kcal – BTU	۵ <sub>g</sub> ۵	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

Ømm	⊾ mm	g/h 2 bar	kWh – kcal – BTU	۵ <sub>g</sub> ۵	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



AIRPROP brazing set without propane regulator

AIRPROP brazing set with propane regulator

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

Model

No. 31092

EALFO

up to 28 m

7

## **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

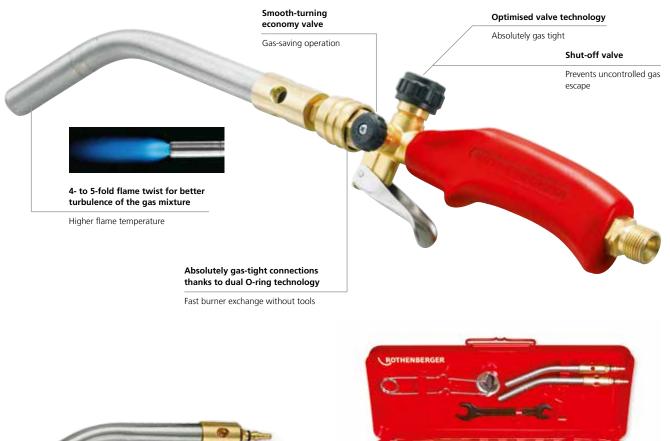
- Fast burner exchange without tools
- Gas-saving operation with the smooth-running economy valve
- Shut-off valve prevents uncontrolled gas escape

#### **TECHNICAL DATA**

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

**Cylinder brazing** 

360





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	$\sqrt{kg}$	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

Ømm	<mark>⊫_</mark> mm	g/h 2 bar	kWh – kcal – BTU	۵ <sub>g</sub> ۵	No.
12 mm	175	110	1.41 - 1,210 - 4,815	90	31032
15 mm	195	180	2.30 - 1,980 - 7,855	110	221031500
18 mm	230	240	3.07 - 2,640 - 10,485	160	221031800

ROTHENBERGER

157

# Bonding Cylinder soft soldering

## MULTI 300 propane soft soldering kit

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



Fig. similar

Model	$\sqrt{kg}$	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





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)

	ACCESS	ORIES			
Fig. similar	Fig. similar				
			1.	1	
No. 520849	No. 520850	No. 520865		No. 520866	No. 520867
No. 32099	No. 32098 / 32075	No. 520856		No. 520857	No. 30927

Model	ΔgΔ	No.	Model	ΔgΔ	No.
Soft soldering iron with handle, iron torch,	940	520849	Copper head 250 g flat	270	32098
iron holder, wind protector, copper head flat 350	) 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

No. 35488

# **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 flame stabiliser
- High-performance burner with flame stabiliser chrome plated with a reinforced edge
- Burner support



600 mm burner tube Burner support







**Burner support** included!

Ideal for roofing and asphalt work



600 mm burner tube with support and 5.0 m propane hose



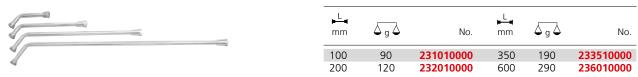
5 m propane hose Large working range

5-part set (No. 30954) includes: propane handle (No. 215111216), 63 mm high-performance torch (No. 223216300), 600 mm torch pipe (No. 236010000), 5 m propane hose (No. 32203), torch support (No. 252010000)

Model	∆ <sub>g</sub> ∆	No.
ROOFING set	1,920	30954
ROOFING set	2,300	30957
(as No. 30954, with pressure regulator	r No. 30925)	
Burner support	60	252010000

#### **Extensions**

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



#### 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>⊫⊥</mark> mm 2	5	kWh – k	cal – BTU		∆ <sub>g</sub> ∆	No.
open							
51	112 3	800	48.60 -	41,800 -	- 165,970	270	223090716
63	138 6	5700	85.70 -	73,700 -	- 292,670	440	223090916
close	d						
45	102 2	500	32.00 -	27,500 -	- 109,280	240	223214500
51	112 3	800 4	48.60 - 4	41,800 -	165,970	270	223215100
57	126 5	500	70.35 -	60,500 -	- 240,257	350	223215700
63	138 6	700 8	35.70 – 7	73,700 -	292,670	440	223216300

# Accessories cylinder brazing/soft soldering

## Safety propane handles

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



No. 211111116

Model	∆ g ∆	No.
Safety propane handle with push-in coupling Safety propane handle with M 14x1 coupling Repair kit with shut-off valve, complete Repair kit with regulating valve, complete		

## **Propane regulators**

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





No. 242206000

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



#### **Propane hoses**

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





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





Accessories cylinder brazing/soft soldering

## 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	F Outlet	Performance kg/h	∆g∆	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	Δ <sub>g</sub> Δ	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	۵kg۵	No.
Small cylinder 0.425 kg, with foot Protective collar for No. 33079	t G 3/8'	'LH empty	2.75	33079 35636



# Bonding 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

## 

#### **KEY FEATURES**

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

#### **TECHNICAL DATA**



## **ROTHERM 2000 soft soldering set**

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

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

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. 854187), steel case (No. 36715)



Warming up of the soldering



Fig. similar

Model	$\sqrt{kg}$	230 V 50/60 Hz
ROTHERM 2000 soft soldering set	17.8	36702
ROTHERM 2000 soft soldering unit	13.6	36700
Steel case	3.5	36715

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



Flat electrode



Simple replacement of electrodes and electrode holders



ACCESSORIES

Model	No.	Model	
Flat electrode (pair)	36721	ROVLIES 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** 

## ALLGAS 2000 set

#### Mobile soldering and welding torch

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

Product profile				
APPLICATION AREA				
Soldering range:up to 2.5 mm material thicknessWelding range:0.2 - 5 mm				
Suitable for use with:				



#### **Product profile**

#### **KEY FEATURES**

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



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)

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

Welding tips and welding attachments				
Model	Welding range mm	∆ <sub>g</sub> ∆	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	ing up	20	35311	
Welding tip holder, can be u	20	35312		
Flexible welding tip size 1	2.0 - 3.0	40	35313	
Flexible welding tip size 2	4.0 - 5.0	40	35314	
Coupling / union nut size 14		10	35315	

7

#### 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 flame positioning



Low gas pressure of only 0.2 bar



ALLGAS 2000 set

```
Fig. similar
```

# **Gas-welding**

## ALLGAS 2000 PS 0.5 / 2 Compact

#### Portable brazing equipment with carrying frame

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

#### **Product profile**

#### **KEY FEATURES**

- Secure transport in closed supporting frame
- Portable, light brazing equipment
- Ideal for mobile building-site and repair use
- Small propane cylinders can be refilled

#### **TECHNICAL DATA**

Gas:	I
Flame temperature:	i
Working temperature:	

With safety devices to prevent flashbacks

ales (No. 540620), small propane

ALLGAS 2000 PS 0.5 / 2 Compact set

Further accessories can be found on 170

ALLGAS 2000 welding tips

Carrying frame without accessories

carrying frame (No. 35629)

Model

Model

Welding tip size 1

Welding tip size 2

Welding tip size 3

Welding tip size 4

Welding tip size 5

Dispersion burners for warming up

Welding tip holder, can be used as a spanner

Propane and oxygen 2,850 °C 1,150 °C

**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 gog-

cylinder 0.425 kg, empty (No. 33079), steel oxygen cylinder 2.0 l, full (No. 35635), oxygen safety device (No. 100000633), fuel gas safety device (No. 100000631),

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

Welding range mm

0.2 - 1.0

1.0 - 2.0

2.0 - 3.0

3.0 - 4.0

4.0 - 5.0



#### Carrying comfort



Fig. similar

No.

35655

No.

35305

35306

35307

35308

35309

35311

35312

35629

 $\Delta_{kg}\Delta$ 

21.4

10.3

 $\Delta_q \Delta$ 

10

10

10

10

10

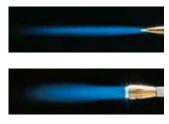
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20



The bottle colors shown are without obligation! Fig. similar



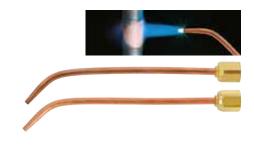


No. 35311



## Flexible pipe welding attachments

Model	Welding range mm	ΔgΔ	No.
Flexible welding tip size 1	2.0 - 3.0	40	35313
Flexible welding tip size 2	4.0 - 5.0	40	35314
Coupling / union nut size 14		10	35315



# 7

# **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
- MAPP<sup>1)</sup> gas pressure regulator with an adjustable range of 0 - 2 bar for a constant, low consumption and an efficient flame adjustment

Accessories included in the set



#### **TECHNICAL DATA**

Gas: Flame temperature: Working temperature: MAPP<sup>1)</sup> gas with oxygen over 3,100 °C 1,300 °C



ALLGAS Mobile Pro 1" US, w/o cartridges	3.86	100000529
ALLGAS Mobile Pro 1" US, with cartridges	5.95	100000743
ALLGAS Mobile Pro 7/16" EU, w/o cartridges	3.86	100000642
ALLGAS Mobile Pro 7/16" EU, with cartridges	5.70	100000558
MAPP <sup>1)</sup> gas 1" US, 788 ml 12	0.9	35698
MAPP <sup>1)</sup> gas 7/16" EU, 788 ml 12	0.9	035521-A
Oxygen steel cylinder disposable 950 ml 110 bar 12	1 33	35750

Pressure regulator 1" US f. MAPP <sup>1)</sup> /LPG	0.38	100000620
Pressure regulator 7/16 " EU f. MAPP <sup>1)</sup> / LPG	0.35	100000627
Pressure regulator M10 x 1 f. oxygen	0.35	100000629

# **Gas-welding**

## ALLGAS 2000 PS 0.5 / 2 Basic

#### Portable fitter's brazing equipment

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



The bottle colors shown are without obligation! Fig. similar

#### **KEY FEATURES**

 Compact and handy construction for mobile building-site and repair use

360°

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 1, filled (No. 35635), propane cylinder 0.5 kg, empty (No. 33079), ALLGAS stand (No. 35628)

Model	$\sqrt{kg}$	No.
ALLGAS 2000 PS 0.5 / 2 Basic set	14.4	35651
Further accessories can be found or	n 📔 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

Space saving storage in service vehicles!



7

**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. 3571) / 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	$\sqrt{kg}$	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 0.4 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



The bottle colors shown are without obligation! Fig. similar

## **Three-gas welding**

#### RE 17 three-gas system AMS 5/5

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



**27-part set (No. 35400) includes:** handle with coupling nut (No. 35324), welding attachments 0.5 - 1.0 mm (No. 35325) / 1.0 - 2.0 mm (No. 35326) / 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No 35329) / 9.0 - 14.0 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating burners 12-100 mm (No. 35339), dual hoses A/O, 5m (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2x red (No. 511428) / 2x blue protective rubber caps (No. 511427),10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 5 I, filled (No. 35178), oxygen cylinder 5 I, filled (No. 35188), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 3541), steel case (No. 35800), dualtelescoping transport trolley (No. 35354),

Sine (500) (1) (1)

Model	$\sqrt{kg}$	No.
RE 17 three-gas system AMS 5/5	50	35400

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The bottle colors shown are without obligation! Fig. similar

#### 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



The bottle colors shown are without obligation! Fig. similar

#### 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



The bottle colors shown are without obligation! Fig. similar



360°

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. 3510106), safety igniter (No. 32077), replacement flints (No. 32088), gas regulating valve Maxigas (No. 130003161), hose adaptor Maxigas (No. 355491), steel case (No. 35804), dual-telescoping transport trolley (No. 3534)

Model	$\sqrt[]{kg}$	No.
RE 17 three-gas system AMS 5 + 10	23	35403



**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. 353226) / 2.0 - 4.0 mm (No. 35327) / 4.0 - 6.0 mm (No. 35328) / 6.0 - 9.0 mm (No. 35322) / 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. 35334), 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. 3510106), 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. 35354)

Model	$\sqrt{kg}$	No.
RE 17 three-gas system AMS 10/10	66	35401
RE 17 as in No. 35401, cutting range 12 - 25 mm	65	35798

**Three-gas welding** 

## **RE 17 UNIVERSAL pipe welding set**

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

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

Model	$\sqrt{kg}$	No.
RE 17 pipe welding set	4.3	35479
RE 17 pipe welding set	4.8	35480
as in set (No. 35479), but also including with		
welding attachments 0.5 - 1.0 mm (No. 35325) /		
1 - 2 mm (No. 35326), cutting tip 12 - 25 mm		
(No. 35341) / 25 - 50 mm (No. 35344)		
Steel case RE 17 (empty)	1.70	35800
RE 17 handle with burner coupling nut	0.47	35324
Coupling: oxygen G 1/4" RH, gas G 3/8" LH		

# 

No. 35324

1

## **RE 17 welding attachments**

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

## **RE 17 welding attachments, bendable**

Pipe weldin complete	ig attach	iment,	Flexible co	pper tips	
Welding range mm	∆ g ∆	No.	Welding range mm	<b>∆</b> g∆	No.
			1.0 - 2.0	40	35475
2.0 - 4.0	140	35347	2.0 - 4.0	40	35476
4.0 - 6.0	150	35348	4.0 - 6.0	50	35477

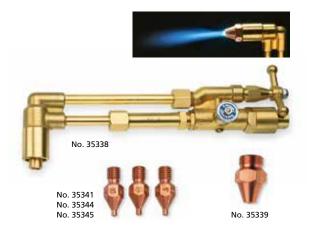
## **RE 17 wing-lever cutting attachment**

Model	∆g ∆	No.
Cutting attachment without tips	820	35338

## **RE 17 cutting tips and heating burners**

Model	Cutting range mm	∆g ∆	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





ROTHENBERGER

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# **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**

▶ <mark>⊢</mark> ∎ m	Inlet	Outlet	Internal Ø x Wall thickness	$\sqrt{kg}$	No.
2.5	G 1/4" RH	G 1/4" RH	4 x 3.5	0.5	35210
5.0	G 1/4" RH	G 1/4" RH	4 x 3.5	1.1	33311

## **Dual hoses A/O**

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

Protective bracket included in delivery for steel cylinders without cap,



The bottle colors shown are without obligation! Fig. similar

### Lightweight steel cylinders, filled With cylinder valve and cap (5 l and 10l ), TÜV tested in accordance

with TRGI

Model	Fi Contents	lling pre bar	ssureHeight mm	Ø mm		∆kg∆	No.
Oxygen	950 ml	110	340	70	12	1.33	35750
Oxygen	2	200	420	110		4.6	35635
Oxygen	51	200	595	145		14.0	35188
Oxygen	10 I	200	980	145		17.0	35189
Acetylene	51	18	595	145		13.0	35178
Acetylene	10 I	18	980	145		23.0	35179

## **Cylinder transport trolley**

Portable and mobile, for 5 and 10 l acetylene / oxygen cylinders, 5 kg and 12 kg propane cylinders can be used with conversion kit (special accessory). Coupling for disposable Maxigas 400 cartridges, dual-telescoping for different cylinder heights, brackets for ALLGAS and RE 17 steel cases

Model	∆kg∆	No.
Transport trolley for	89	35354

5 / 10 l acetylene / oxygen cylinders





# **Accessories soldering & welding**

## **Cylinder pressure reducer**

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

Cylinder contents bar	Working press bar	sure Inlet	Outlet	∆kg∆	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	H 150	540360
Handle-mounted, acetylene	e 1.5 bar (ace)	G 3/8″ LH	160	540365
	5.0 bar (prop	ane/CNG)		
Reducer-mounted, oxygen	25.0 bar	G 1/4" RH	120 <mark>10</mark>	00000633
Reducer-mounted, fuel gas	1.5 bar (ace)	G 3/8" LH	120 <b>10</b>	00000631
	4.0 bar (prop	ane/CNG)		
Handle, oxygen	20.0 bar	G 1/4" RH	1 100 <mark>10</mark>	00000764
Handle, fuel gas	1.5 bar (ace)	G 3/8" LH	100 <mark>10</mark>	00000762
	4.0 bar (prop	ane/CNG)		

## Protective guard for pressure reducer

Impact protection, rugged steel construction, mounts on connection coupling

Model	Color	∆ <sub>g</sub> ∆	No.
For acetylene pressure reducer	yellow	820	35140

## **Protective rubber cap**

With slot, open

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

## **Oxygen refilling bend**

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

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

## **Safety igniters**

Powerful spark, wear-free hard alloy friction surface

Model	∆ g ∆	No.		
Safety igniter	60	32077		
Replacement flints, tin, 5 pcs.	15	32088	No. 32077	No. 32088
			<b>\ ROTHEN</b>	IBERGER



Fig. similar





No. 100000764

No. 100000633







No. 100000631

No. 540365

No. 100000762

171

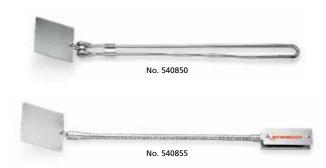
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# **Accessories soldering & welding**





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

## **Magnet welding mirror**

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

## **Burners cleaner**

Model	Δ <sub>g</sub> Δ	No.
Burners cleaner, in folding case, 11 pcs.	20	510105







## **Torch spanner**

Model	∆ <sub>g</sub> ∆	No.
With 10 wrench sizes	210	510106

## Soldering flux and container for hydrochloric acid

Model	∆ <sub>g</sub> ∆	No.
With screw cap retaining band for 150 ml content	40	530250

## **Ammonia stone**

For cleaning of copper pieces after soft soldering

Model	L x B x H	Δ <sub>g</sub> Δ	No.
Ammonia stone, presse	ed 65 x 45 x 40 mm	15	530310



# Welding goggles EN 166

With thermal glasses as per EN 169

Model	Glas	<b>∆</b> g∆	No.
Nylon safety goggles	A 4	60	540620
	A 5	60	540621
	clear, non-splintering	60	540622
Replacement glass (pair)	A 4	30	540625
	A 5	10	540626
	clear, non-splintering	30	540627
Screw-ring safety goggles	A 4	90	540640
Replacement glass (Ø 50 mr	m) A 4	30	540675

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ROTHENBERGER

No. 540640



# Accessories soldering & welding

ROTHENBERGER

## **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 ∆ g ∆ No. ROVLIES (10 pcs.) 80 45268 ROVLIES counter display (36 pcs.) 2,180 045268D



## Internal brushes for copper pipe

For fast cleaning of the soldering surface with rugged plastic handle

► <b>○</b> ◄ mm	∆ g ∆	No.	►⊖- mm	∆ g ∆	No.
12	80	854181	22	140	854186
15	100	854183	28	140	854187
18	120	854185			



## Hand wire brushes

Model	Number of rows	∆g∆	No.
Standard steel	3 rows	130	561351

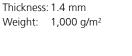


## **Welding blanket**

Flame and heat resistant up to 840 °C

- Permanent heat resistance up to 700 °C by direct flame contact and molten slag
- Good formability, long service life, asbestos-free and poses no health hazard
- Bonded edges







Welding blanket

300 500 x 330 x 5 mm

31050

## **Flame reflectors**

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



Model	Width mm	Adaptor Ø mm	<b>∆</b> g∆	No.
65 / 15	65	8 – 15	100	31042
65 / 22	65	15 – 22	100	31043

# Bonding Accessories soldering & welding

## Fitting soft solder according to EN standard

Standard type	Solder composition	Melting		Suitable for soft solde	Recommended heat source	
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	Melting	Working	Suitable	e for installation t	echnology brazing	Recommended flux	Recommended heat source
type according to ISO 17672	composition in weight %	range °C	temperature °C	Pipe material	Fittings material	Flux	according to EN 1045	
CuP 179	Cu 94 / P 6	710 - 890	760	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
CuP 279	Ag 2 / Cu 91,8 / P 6,2	645 - 825	740	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	Cartridge torch with MADDI) ass
CuP 281	Ag 5 / Cu 89 / P 6	645 - 815	710	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	<ul> <li>Cartridge torch with MAPP<sup>1)</sup> gas,</li> <li>Propane / induced-air torch,</li> <li>Acetylene / induced-air torch,</li> <li>Larger pipe diameters above 28 mn with propane / oxygen torch with dispersion burners</li> </ul>
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 ℃ - 730 ℃ 710 ℃ - 890 ℃ 645 ℃ - 825 ℃ 645 ℃ - 815 ℃ 645 ℃ - 800 ℃	710 ℃ 760 ℃ 740 ℃ 710 ℃ 700 ℃	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 ℃ - 730 ℃ 640 ℃ - 680 ℃	710 °C 670 °C	EN ISO 17672 (former DIN EN 1044)
Copper-Brass	S 94 S 2 S 5 S 15	710 ℃ - 890 ℃ 645 ℃ - 825 ℃ 645 ℃ - 815 ℃ 645 ℃ - 800 ℃	760 ℃ 740 ℃ 710 ℃ 700 ℃	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 ℃ 610 ℃	EN ISO 17672 (former DIN EN 1044)
Brass-Brass	S 94 S 2 S 5 S 15	710 ℃ - 890 ℃ 645 ℃ - 825 ℃ 645 ℃ - 815 ℃ 645 ℃ - 800 ℃	760 ℃ 740 ℃ 710 ℃ 700 ℃	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 ℃ - 730 ℃ 640 ℃ - 680 ℃	710 °C 670 °C	EN ISO 17672 (former DIN EN 1044)

 $^{\mbox{\tiny 1)}}$  MAPP is a registered trademark of the MESSER Group GmbH, Bad Soden

# **Accessories soldering & welding**

## **Fittings solders**

Quality soft solders according to EN 9453 for joining copper pipes to copper, gunmetal and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 2 without flux, for use with corresponding ROSOL fittings solder paste

## 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	۵g	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	۵ <sub>g</sub> ۵	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



## **ROSOL 3**

#### **Fittings solder paste**

Quality soft soldering flux, metal content: S-Sn97Cu3, only for use with fittings solder 3

Model	∆g ∆	No.
ROSOL 3 in plastic bottle 250 g	270	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.

∆ q ∆

270

No. 45220

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









# **Accessories soldering & welding**



Precise guantity of

solder

Simply heat, no dripping, no reduction

of cross-section

## Hard solder rings S 2

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

#### **KEY FEATURES**

- Ideal for capillary soldering with copper pipe installation in sanitary and heating systems
- Matched precisely to the inner pipe diameters of expanded sockets and fittings according to EN 1254
- Complete wetting of soldering gaps
- Particularly efficient working through precise solder quantity
- No preparatory or rework of the soldered joint

#### **TECHNICAL DATA**

Alloy (weight %):
Melting range:
Joinable materials:
Use of flux with:

Package size:

Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest 650 °C - 810 °C Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard solder paste LP 5 250 g plastic bag

∆ g ∆ No. Model approx. Content rings Hard solder rings S 2, Ø 12 mm 260 40512 395 pcs. Hard solder rings S 2, Ø 14 mm 268 pcs. 260 40514 40515 Hard solder rings S 2, Ø 15 mm 244 pcs. 260 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	∆ <sub>g</sub> ∆	No.
LP 5 in plastic bottle 160 g	160 g	180	40500



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## 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



Simple insertion

176

# Accessories soldering & welding

## **Hard solders**

#### For copper pipe installation

ROTHENBERGER ROLOT special hard solders are particularly suited for copper pipe installations in cold and hot water systems, for open and closed heating systems, for gas installations in accordance with DVGW Worksheet GW 2 (liquid, natural and town gas) as well as for HVAC and refrigeration applications, and oil pipes. ROTHENBERGER ROLOT is especially suited for capillary soldering of copper pipes without fittings. Copper / phosphorus / silver solders are highly formable, and are therefore recommended for joints that are subjected to high thermal and mechanical alternating loads.

#### **KEY FEATURES**

- Non-foaming
- Heat-resistant up to 200 °C
- No flux required with copper / copper joints (except S34 and S45)
- Manufactured with new, environmentally compatible technology, corrosion neutral, scale-free, improved flow properties



#### **ROLOT S 94 CuP 179**

Quality hard solder guaranteed according to EN ISO 17672, due to low phosphorus content, the solder has a wide melting range, and creates soldered joints with increased strength. Standard solder for normally-stressed copper pipe installation, especially for capillary soldering with copper pipe installation without fittings

#### **TECHNICAL DATA**

Alloy (weight %): Melting range: Working temperature: Joinable materials: Flux required with:

Cu 94 / P6 710 - 890 °C 760 °C Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with LP 5

## **ROTHENBERGER** ROLOT S 94

Content	Squared section mm	Length mm	∆ <sub>g</sub> ∆	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

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**

Melting range: Working temperature: Joinable materials: Flux required with:

**ROLOT S 2** 

#### 700 - 850 °C 750 °C Copper, gunmetal, brass, bronze 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

**ROTHENBERGER** ROLOT S 2

## **ROTHENBERGER** ROLOT S 2

#### **TECHNICAL DATA**

Allov (weight %): Melting range: Working temperature: Joinable materials: Flux required with:

Ag 2 / Cu 91.8 / P 6.2 645 - 825 °C 710 °C Copper, gunmetal, brass, bronze 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**

#### 

and a lot of the lot o	solder
	501001

Content	Square section mm	Length mm	∆ g ∆	No.
1 kg carton	2 x 2	500	1,025	40502

## 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

#### **TECHNICAL DATA**

Melting range:7Working temperature:7Joinable materials:6Flux required with:6

710 - 840 ℃ 750 ℃ Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard solder paste LP5

## ROTHENBERGER ROLOT S 5

## 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

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

Content	Square section mm	Length mm	∆g ∆	No.
1 kg carton	2 x 2	500	1,025	40005

#### **TECHNICAL DATA**

Alloy (weight %):	Ag 5 / Cu 89 /
Melting range:	645 - 815 °C
Working temperature:	710 °C
Joinable materials:	Copper, gunme
Flux required with:	Gunmetal, bra
	soldar nasta I P

Ag 5 / Cu 89 / P 6 645 - 815 °C 710 °C Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard solder paste LP5

## ROLOT S 15 CuP 284

well as demanding sanitary and gas installations

# BOTHENBERGER ROLOT S 15

Content	Square section mm	Length mm	∆ <sub>g</sub> ∆	No.
1 kg carton	2 x 2	500	1,025	40015

#### **TECHNICAL DATA**

Ag 15 / CU 80 / P 5 645 - 800 °C 710 °C Copper, gunmetal, brass, bronze Gunmetal, brass, bronze with hard solder paste LP5

7

# **Accessories soldering & welding**

## Silver hard solders Ag 134 S 34 Cu U flux-covered

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

#### **TECHNICAL DATA**

Alloy (weight %): Melting range: Working temperature: Joinable materials: Ag 34 / Cu 36 / Zn 27.5 / Sn 2.5 630 °C - 730 °C 710 °C Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys

Content	► <mark>O</mark> ◄ mm	∆ <sub>g</sub> ∆	S 34 U No.
100 g plastic bag	2	110	44915
250 g plastic bag	2	260	44916
1000 g plastic bag	2	1,010	44917



## Silver hard solders Ag 145 S 45 Cu / S 45 Cu U flux-covered

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

#### **TECHNICAL DATA**

Alloy (weight %): Melting range: Working temperature: Joinable materials: Ag 45 / Cu 27 / Zn 25.5 – 3.5 / Sn 2.5 640 °C - 680 °C 670 °C Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys,

Content	► <b>○</b> ◄ mm	∆ g ∆	S 45 U No.
100 g plastic bag	2	110	45055
250 g plastic bag		260	45056

stainless steel







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System overview

Precision testing pumps manual			
	RP 50-S / RP 50-S INOX	TP 25	RP 30
	BOI HENSE COMENSERGER	BOTHENBEARER	
Testing and pressure range:	0 - 60 bar	0 - 25 bar	0 - 30 bar
Hub suction capacity:	45 ml / stroke	16 ml / stroke	16 ml / stroke
Tank capacity:	12	7	4.5
Connection:	R1/2"	R1/2″	R1/2"
Dimension:	495 x 165 x 255 mm	380 x 215 x 156 mm	440 x 200 x 240 mm
Weight:	8 kg	4.6 kg	4.5 kg
Material:	DURAMANT coated steel	DURAMANT coated steel	ABS plastic
Valve:	Twin-valve	Twin-valve	-
Pressure gauge units:	bar, psi, Mpa	bar, psi	bar, psi
Suitable for:	Oil, water and glycol	Oil, water and glycol	Oil, water and glycol
Page	183	185	185

Testing pumps electric		Analogue / digital testing device for gas and water connections		
	RP PRO III		ROTEST GW 150/4	ROTEST GW Digital V3
Testing and pressure range:	0 - 40 bar	Pressure range:	0 - 180 mbar	0 - 1,000 mbar
Flow rate:	6 l / min.	Low pressure sensor	(resolution 0.1 mbar)	(resolution 0.1 mbar)
Tank capacity:	-	Pressure range:	0 - 4 bar	0 - 20 bar
Connection:	R1/2"	High pressure sensor	(resolution 0.1 bar)	(resolution 0.01 bar)
Dimensions:	375 x 290 x 300 mm	Leak rate measurement:	-	0 - 12 L/h
Weight:	16 kg	Display resolution:	-	480 x 272
Material:	ABS plastic	Data transfer:	-	WLAN, USB
Valve:	Single valve	Battery life time:	-	Approx. 8 h testing time
Pressure gauge units:	bar, psi, Mpa	Safety class:	-	IP40
Gauge characteristics:	Glycerine cushioned	Weight:	7.3 kg	5.25 kg
Suitable for:	Oil, water and glycol			
Page	184	Page	188	186

## **Testing of water lines and containers**

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

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

## **Product profile**

### **APPLICATION AREA**

Pressure testing with water or oil of piping in residential and industrial construction, as well as for industrial containers (up to 60 bar). Expansion possible with an extra fine scaling pressure gauge (0.1 bar) for testing up to 16 bars

### **KEY FEATURES**

- A drag indicator displays the preset pressure so that a loss of pressure in the system can be detected easier
- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump as well as a precise fine adjustment of the pressure
- Especially precise reading as needed: finely scaled (scaling 0.1 bar) pressure gauge available separately
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Type 50-S: Weather and cold-resistant steel container with DURAMANT coating
- Type 50-S INOX: high-quality corrosion resistant stainless steel tank

Testing hose with steel mesh

Weather and cold-resistant

5 year rust-free guarantee -DURAMANT coated

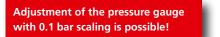
Precise measurement

container

INOX

Model

RP 50-S testing pump





### **TECHNICAL DATA**

Testing and pressure range:	0 - 60 bar, with 1 bar steps 0 - 860 psi, with 20 psi steps 0 - 6 MPa, with 0.1 MPa steps
Hub suction capacity:	approx. 45 ml / stroke
Tank capacity:	12
Dimensions (L x W x H):	495 x 165 x 255 mm
Connection:	R 1/2"
Container RP 50-S:	Steel, DURAMANT coated
Container RP 50-S INOX:	Stainless steel

### Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

Additional pressure gauge with fine scaling 0.1 bar optional Enables very precise readings up to a range of 16 bar





RP 50-S INOX (stainless steel) testing pump 8

No. 60203

1

1

 $\Delta_{kg}\Delta$ 

8

Double valve system: enables self-testing of the pump, as well as a precise fine adjustment of the pressure



Optional: Extra fine scaling Pressure gauge for the testing of systems up to 16 bar with a 0.1 scaling



### ACCESSORIES

No. 60200

60203

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

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

## **Testing of water lines and containers**

## **RP PRO III**

## Self-priming electric testing pump up to 40 bar

### Product profile

### **APPLICATION AREA**

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

### **KEY FEATURES**

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



### **TECHNICAL DATA** Testing and pressure range: 0 - 40 bar, with 1 bar steps 0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps max. 6 l / min Flow Rate: Dimensions (L x W x H): 375 x 290 x 300 mm Connection: R 1/2" Mains voltage: 220 - 240 V / 50 HZ and 110 V / 50 - 60 HZ Performance: 13 kW Container: ABS-plastic



Model	$\sqrt[]{kg}$	110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose	16.0	V12110016	61185
and 1/2" connection, filling hose			
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4	V12 <sup>-</sup>	102000
Maintenance package RP PRO III			61186
in scope of delivery			

## **Testing of water lines and containers**

## TP 25

Small, robust precision testing pump for pressure testing up to 25 bar

## **Product profile**

## APPLICATION AREA

Pressure testing with water or oil of piping in residential and industrial construction as well as for industrial containers up to 25 bar in accordance with international and national standards

### **KEY FEATURES**

- Reliable and precise testing results: the dual-valve system (Twin Valve) enables self-testing of the pump, as well as a precise fine adjustment of the pressure
- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation
- Weather and cold-resistant steel container with DURAMANT coating

### **TECHNICAL DATA**

Testing and pressure range: Hub suction capacity: Dimensions (L x W x H): Connection: Container: 0 - 25 bar approx. 16 ml / stroke 380 x 215 x 156 mm R 1/2" Steel, DURAMANT coated



For the daily work on site



Model	Pressure range $\sqrt[]{kg}$		No.
Testing pump TP 25	up to 25 bar 4.6	1	60250
Maintenance package	TP 25		60251

## RP 30

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

## **Product profile**

## APPLICATION AREA

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

### **KEY FEATURES**

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

## TECHNICAL DATA

0 - 30 b 0 - 440
16 ml / 440 x 2
R 1/2" ABS-pla

0 - 30 bar, with 1-bar steps 0 - 440 psi, with 20 PSI steps 16 ml / stroke 440 x 200 x 240 mm R 1/2" ABS-plastic



Easy, light and handy: for all common house building applications



Model	Pressure range $\int_{kg}$		No.
Testing pump RP 30	up to 30 bar 4.5	1	61130

High pressure hose with 1/4" connection 0.4 **R6112500** 



## Testing of gas and water lines

## **ROTEST GW Digital V3**

Leakage testing system for gas and water lines with large 4.3" touchscreen display for an easy handling and integrated documentation of all tests up to 20 bar.



## **Product profile**

### **KEY FEATURES**

- 4.3" Touchscreen or physical buttons for an easy handling
- Pressure and leakage testing for gas pipelines according to TRGI 2018
- Leak rate measurement for gas pipelines according to TRGI 2018 and DVGW 5952
- Pressure and leakage testing for drinking water pipelines according to DIN EN 806-4
- Testing of gas pressure regulators
- Long-term measurement up to 72 hours
- RODATA Software and RODATA App for documentation and data managment of all test results

WiFi transmitter

Easy data transfer to mobile devices and PCs

4.3" Touchscreen

Easy and clear handling

### **TECHNICAL DATA**

Display resolution: Data transfer: Battery life time:	480 x 272 USB, WiFi approx. 8 h testing time, mains operation possible
Pressure range:	
Low pressure sensor:	Pressure range 0 – 1,000 mbar (resolution 0.1 mbar / hPa)
High pressure sensor:	Pressure range 0 - 20 bar / 0 - 2 MPa (resolution 0.01 bar / 0.001 MPa)
Leak rate measurement:	Leak rate 0 – 12 l / h (resolution 0.1 l / h)
Safety class: Weight:	IP40 5.25 kg







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. 150002851), 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. 1500002843), adaptor nozzle pressure to NW5 plug (No. 61018), air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017), supply end cap (No. 61041)

Model	No.
	45000000777

ROTEST GW Digital V3 – Set gas / water

1500002677

ROTHENBERGER

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Testing of gas and water lines

## **ROTEST GW Digital V3 - RoData V3 PC-Software**

PC software for data management of all tests carried out

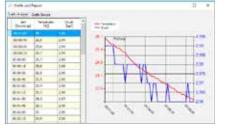
## **Product profile**

## KEY FEATURES

- Creation of a log with graphical representation of the test process
   Management of measurement data overview of all 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**

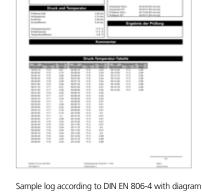
RoData V3 PC-Software: Compatibility: Windows 2000, XP, 7, 8, 10 Size: 16.2 MB



Overview of measurement series with graph



Management of measurement series = RoData V3



Entellt

**ROTEST GW Digital V3 - RoData Mobile App** 

App for the data management of all tests carried out

## Product profile

## **KEY FEATURES**

- Simple, quick and professional documentation
- Log ready for immediate use as a PDF
- Suitable for iOS and Android devices
- Measurement data transfer via WiFi
- User-defined company profile set-up in the log
   Ready-made logs for various measurement types

## (leak testing, usability testing, etc.)

## **TECHNICAL DATA**

 RoData Mobile App:

 Compatibility:
 iOS 8.0 or newer, Android 4.4 or newer

 Size:
 11 MB



Sample log according to DIN EN 806-4 with measurement value table





Start screen RoData Mobile App

## ROTHENBERGER 187

Measurement overview RoData Mobile App

Testing of gas and water lines

## **ROTEST GW 150/4**

Analogue testing device for gas and water connections using air as the medium

## **Product profile**

### **APPLICATION AREA**

Analogue	e 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!

Inspection glass Water level control



Testing scale up to 150 mbar on transparent extending tube element



Transparent tube element with double o-ring seal



ROTHENBERGER

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



Legible scaling

up to 150 mbar

Measurement chart in unit

Testing times and testing

pressure from lawmakers

at a glance

Foam inlay

High transport safety and protection of the components

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

Continuous scaling

**TECHNICAL DATA** 

Pressure gauge: Water column:

Testing accuracy:

ROTHENBERGER

4 bar / 0.4 MPa

180 mbar / hPa

Water column 0.1 mbar / hPa

(Reading accuracy in accordance with TRGI) Pressure gauge 0.1 bar / 0.01 MPa (Display range 0 - 4 bar / 0 - 0.4 MPa)

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

## Testing of gas and water lines

## **Set components**

Model	Δ <sub>g</sub> Δ	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

## Gas test plug / adaptor Suitable for gas lines up to 1.5 bar

Model Conical sh Size 0 Size 1 Size 2 Size 3	Steel exterior pipe Ø inch appe with pneum 3/8 - 1/2" 1/2 - 1" 3/4 - 1.1/4" 1.1/4 - 2"	Copper exterior pipe Ø mm atic connection 15 - 18 22 - 28 35 - 42 54 - 64	45 80 125	No.
Conical sh Size 0 Size 1 Size 2	nape with pneum 3/8 - 1/2" 1/2 - 1" 3/4 - 1.1/4"	atic connection 15 - 18 22 - 28 35 - 42	45 80	351260
Size 0 Size 1 Size 2	3/8 - 1/2" 1/2 - 1" 3/4 - 1.1/4"	15 - 18 22 - 28 35 - 42	80	
Size 1 Size 2	1/2 - 1" 3/4 - 1.1/4"	22 - 28 35 - 42	80	
Size 2	3/4 - 1.1/4"	35 - 42		054055
			125	351261
Size 3	1.1/4 - 2"	54 - 64	120	351262
			175	351263
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	∆ g ∆	No.
Cylindrica	l shape with pne	umatic connectio	n	
Size 1	3/4"	22	60	351271
Size 2	1″	28	75	351272
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	∆ g ∆	No.
Conical sh	ape with hose co	oupling		
Size 0	3/8 - 1/2"	15 - 18	200	351220
Size 1	1/2 - 1"	22 - 28	300	351221
Size 2	3/4 - 1.1/4"	35 - 42	300	351222
Size 3	1.1/4 - 2"	54 - 64	400	351223
	Steel exterior	Copper exterior		
Model	pipe Ø inch	pipe Ø mm	$\Delta_{g}\Delta$	No.
Conical sh	hape with 2 ball v	valves		
Size 1	1/2 - 1"	22 - 28	260	351231
Size 2	3/4 - 1.1/4"	35 - 42	420	351232
Size 3	1.1/4 - 2"	54 - 64	700	351233
	Steel exterior	Copper exterior		
Model	Pipe Ø inch	Rohr Ø mm	Δ <sub>g</sub> Δ	No.
Conical sh	ape with 1 ball v	valve		
Size 0	3/8 - 1/2"	15 - 18	200	351225
Size 1	1/2 - 1"	22 - 28	350	351226
Size 2	3/4 - 1.1/4"	35 - 42	390	351227
Size 3	1.1/4 - 2"	54 - 64	600	351228
With doubl	e plug valve - with	hose snout		
Model	,	•	ΔgΔ	No.
Adaptor/cu	ut-off valve with p	n. connection	290	351265













## **Testing of waste water lines**

## House connection test set

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

## **Product profile**

### **APPLICATION AREA**

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



## DIN -Norm

## **KEY FEATURES**

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

### **TECHNICAL DATA**

Maximum operating pressure:	1.5 bar
Push rod length:	10 m

11-part house connection test set (No. 61340) includes: sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 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 pump (No. 91122)

Model	$\sqrt{kg}$	No.	Ø Testing/sealing balloon	Testing balloon No. Sea	ling balloon No.
House connection test	7.8	61340	Ø 65 - 100 mm	61358	-
			Ø 75 - 150 mm	1500002856	61352
			Ø 90 - 250 mm	1500002857	61353

## **ROLEAK Aqua 3Plus**

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

## **Product profile**

### **KEY FEATURES**

190

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





### **KEY FEATURES**

- Digital wireless connection to headphones
- Possibility to connect an external microphone
- Bluetooth connection for a better and clear noise transmission to headphones. This also allows to control the volume with the handunit

### **TECHNICAL DATA**

3-staged Frequency filter:	1. Stage: 0 - 540 Hz
	2. Stage: 540 - 4,000 Hz
	3. Stage: 0 - 4,000 Hz
Operating time:	ca. 15h Li-Ion Battery
Weight:	250 g (Handheld device)
Level of protection:	IP 41

## Improved sound compared with previous models!

6-parts Set (No. 1500003533) includes: basic unit, headphones, magnetic adaptor, 2 x extensionstick, tripod-adaptor, ROCASE 4414

Model	لم	No.
ROLEAK Aqua 3Plus	3.1	1500003533
External groundmicrophone	0.5	1500003535

## Leak detection on gas lines

## **ROTEST Electronic 4**

Leak detection on gas lines

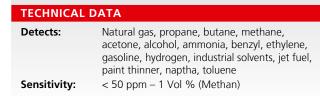
## **Product profile**

### **APPLICATION AREA**

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

### **KEY FEATURES**

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





Finds leaks easily



Set (No. 1000003199) includes: ROTEST Electronic 4, 2x AA battery in ROCASE 4212 (No. 1300003334)

Model	$\sqrt{kg}$	No.
ROTEST Electronic 4	1.25	1000003199

## ROTEST

### Leak detection on gas lines

### **Product profile**

### **APPLICATION AREA**

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

### **KEY FEATURES**

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

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

Model	Content	∆ <sub>g</sub> ∆		No.
ROTEST leak detection spray	400 ml	470	12	65000

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

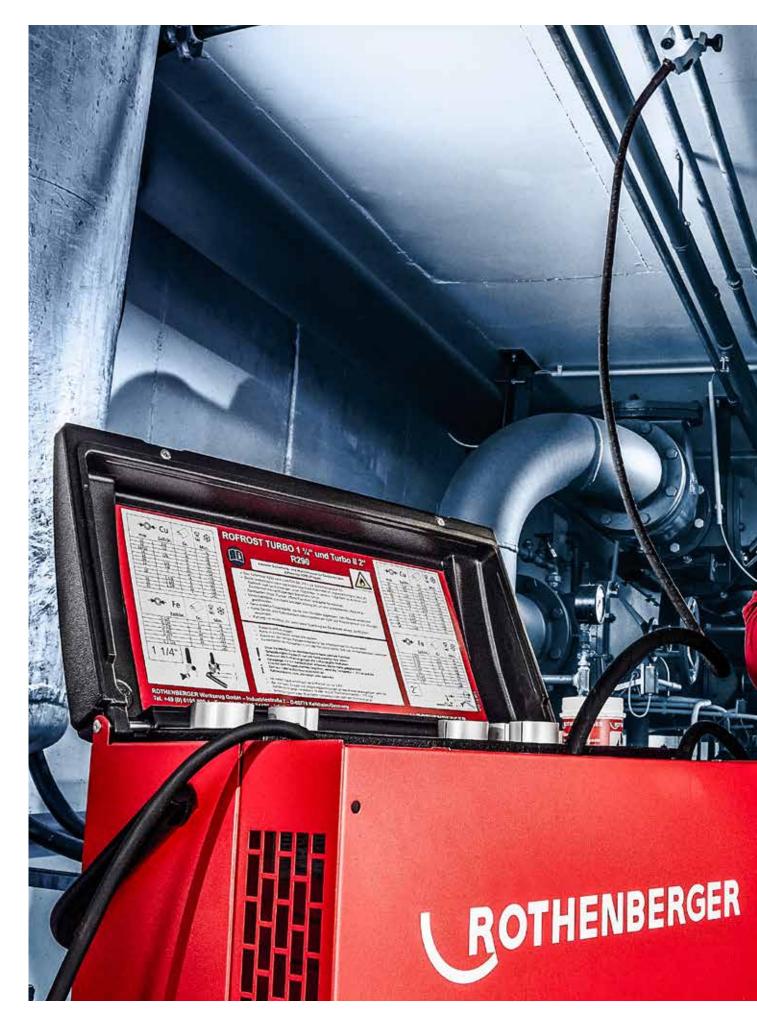
DIN DVGW DVGW-tested Reg.-No. NG-5170CL0063

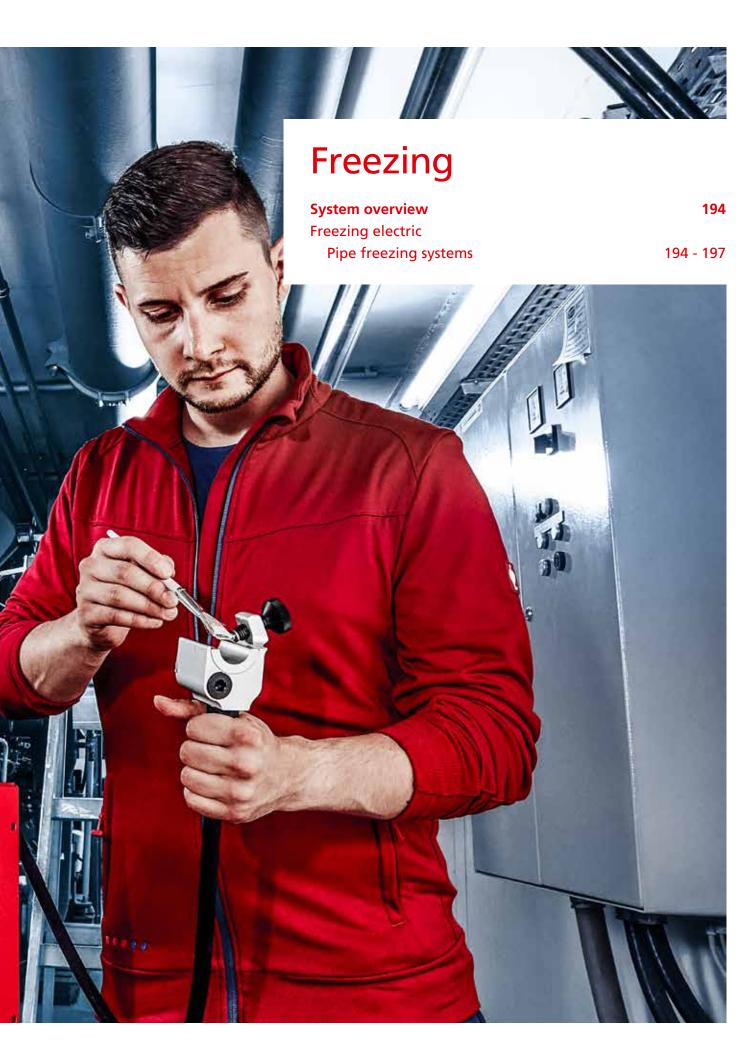












## Freezing

## System overview

Freezing electric				
	ROFROST Turbo R290 1.1/4"	ROFROST Turbo R290 2"		
	COTHENRERGER	COTHENEERGER		
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



ROTHENBERGER

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



## Freezing

## **Freezing electric**

## ROFROST Turbo R290 1.1/4"

Pipe freezing system for copper, steel and stainless steel

## **Product profile**

APPLICATION	AREA		
Maintenance, repair and expansion work in sanitary and heating installations			
Copper pipes:	Ø 10 - 42 mm Ø 3/8 - 1.3/8″	ROFROST Turbo R290 1.1/4" ROFROST Turbo R290 1.1/4"	
Steel pipes:	Ø 1/8 - 1.1/4″	ROFROST Turbo R290 1.1/4"	

## **KEY FEATURES**

- Future-proofed due to the change of the environmentally friendly refrigerant R290
- Compact freezing clamps and shortened thermometer allow working on confined spaces
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water
- Reduction inserts in various sizes for all common pipe diameters



Model	$\sqrt{kg}$	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
Expansion set for NOTNOST futbo with reduction inserts size ii, iii, v, vii		02230
additional sets upon request		



## Freezing 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 Ø 3/8 - 2.1/8″	ROFROST Turbo R290 2" ROFROST Turbo R290 2"			
Steel pipes:	Ø 1/8 - 2″	ROFROST Turbo R290 2"			



## **KEY FEATURES**

- Future-proofed due to the change of the environmentally friendly refrigerant R290
- Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water
- Reduction inserts in various sizes for all common pipe diameters



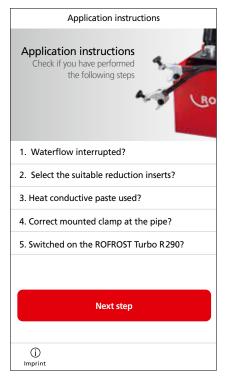
Model	$\Delta_{kq}\Delta$	230 Volt 50 Hz
	• Kg •	
ROFROST Turbo R290 2"		
with reduction inserts size II, III, V, VII, IX, D, E, F (see ROFROST reduction insert overview) + heat conductive paste	24.3	1500003001
Expansion set for ROFROST Turbo with reduction inserts size II, III, V, VII		62230
additional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

## Freezing

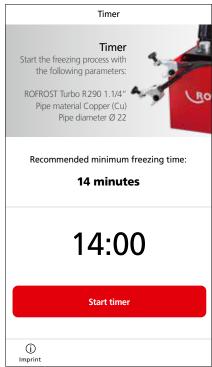
**Freezing electric** 

## **ROFROST App**

The ROFROST App supports safe work and the freezing process will be explained step by step.



Freezing par	ameter
Freezing param Select the freezing para	
ROFROST Turbo R 290 1.1/4 Serial number 3108180080	J S
Pipe material	Copper (Cu)
Pipe diameter	Ø 22
Recommended minimu 14 minu	Ū.
Apply freezing	parameter
0	



The integrated timer will respond after the freezing time

## The recommended freeze time is displayed by adjusting the material and diameter

## **ROFROST Turbo reduction inserts**



## **ROFROST Turbo 1.1/4" reduction inserts**

	FQ4	FQ4	FQ4		
Size	Nominal size Cu	Nominal size Cu	Nominal size Fe	∆ g ∆	No.
Size I	10 mm	3/8″	1/8″	190	62217
Size II	12 mm	1/2″	-	180	62211
Size III	14/15 mm	-	1/4″	170	62212
Size IV	16 mm	5/8″	-	170	62219
Size V	18 mm	-	3/8″	165	62213
Size VI	20 mm	3/4″	-	155	62224
Size VII	22 mm	7/8″	1/2″	145	62214
Size VIII	-	1″	-	125	62226
Size IX	28 mm	-	3/4″	110	62215
Size X	-	1.1/8″	-	90	62227
Size XI	32 mm	1.1/4″	-	80	62221
Size XII	35 mm	1.3/8″	1″	65	62216

## **ROFROST** heat conductive paste





has elapsed

## **ROFROST Turbo 2" reduction inserts**

Size	►O Nominal size Cu	► O ◄ Nominal size Cu	► Nominal size Fe	۵ <sub>g</sub> ۵	No.
Size A	28 mm	-	3/4"	190	62231
Size B	-	1.1/8″	-	180	62232
Size C	32 mm	1.1/4″	-	170	62233
Size D	35 mm	1.3/8″	1″	170	62234
Size E	42 mm	-	1.1/4″	165	62235
Size F	-	-	1.1/2″	155	62236
Size G	54 mm	2.1/8″	-	145	62237

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

## Heat conductive paste enables fully automatic freezing without spraying!

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

Checklist for the freezing process





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ROCAM 4 Plus accessories	209 - 211



A



System overview



ROSCO	PE mini	ROSCOPE i2000 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:	-	$\checkmark$	$\checkmark$	$\checkmark$	-
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°	$\checkmark$	$\checkmark$	-	-
Transmitter:	-	-	$\checkmark$	-	-
Frequency:	-	-	512 Hz	-	512 and 640 Hz, 33 kHz
Picture format:	JPG	JPG	JPG	JPG	-
Picture resolution:	320 x 240 pixel	320 x 240 pixel	320 x 240 pixel	320 x 240 pixel	-
Video format:	-	AVI	AVI	AVI	-
Video resolution:	-	320 x 240 pixel	320 x 240 pixel	320 x 240 pixel	-
Storage:	On-board	SD-card	SD-card	SD-card	-
WiFi:	-	$\checkmark$	$\checkmark$	$\checkmark$	-
Protocol feature:	-	-	-	-	-
Audio-recording:	-	$\checkmark$	$\checkmark$	$\checkmark$	-
Data handling:	-	via app	via app	via app	-
Page	202	204	205	204	206

## ROTHENBERGER

System overview

	ROCAM 4 Plus			
			APP FOR SMARTPHONE AND TABLET EDITING AND TRANSFERING	
	RO	CAM 4 Plus		
CAS *	ROCAM 4 Plus 30 m	ROCAM 4 Plus 65 m	ROCAM 4 Plus mini module	
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:	$\checkmark$	$\checkmark$	√ 10	
Cable length:	30 m	65 m	8 m / 16 m	
Metre counter:	$\checkmark$	$\checkmark$	$\checkmark$	
Cable-Ø:	7 mm	7 mm	5.5 mm	
Self levelling:	$\checkmark$	$\checkmark$	-	
Transmitter:	$\checkmark$	$\checkmark$	-	
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:	$\checkmark$	$\checkmark$	$\checkmark$	
Protocol feature:	$\checkmark$	$\checkmark$	$\checkmark$	
Audio-recording:	$\checkmark$	$\checkmark$	$\checkmark$	
Data handling:	$\checkmark$	$\checkmark$	$\checkmark$	
Page	208	209	209	

\* More information at cordless-alliance-system.com

**Video inspection** 

## **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.



Set (No. 1000002268) includes: ROSCOPE mini basic unit, mirror and magnet accessories, 4x AA batteries, ROBOX B2350 (No. 1500002641)

Model	No.
ROSCOPE mini set	1000002268



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**Video inspection** 

## **ROSCOPE i2000**

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

## **Product profile**

### **APPLICATION AREA**

The ROSCOPE i2000 covers almost all inspection techniques within living and working spaces. Camera and locating modules allow a multifunctional use. WiFi technology enables a quick and easy data transfer.

## **KEY FEATURES**

- User-friendly touchscreen monitor and simple menu guidance
- Easy data transfer for subsequent processing
- Audio recording and playback possible without further equipment



## **TECHNICAL DATA**

Display: Video format: **Picture format:** Connection: Power supply:

3.5" touchscreen (color) AVI JPEG, 320 x 240 pixels Mini-USB, AV-Out, SD-card slot Li-lon battery 3.7 V / 5.2 Ah

**Compatible connection** 



## **Modular concept:**

of time

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 hard to reach areas



Module 25/16 and 25/22

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



## Module ROLOC PLUS

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



## ROTHENBERGER 203

**Video inspection** 

## **ROSCOPE i2000 module TEC**

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

## **Product profile**

## **KEY FEATURES**

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

### **TECHNICAL DATA**

Display:	3.5" touchscreen (color) (technical data about basic unit available on page 208)
Camera head:	Ø 17 mm, <b>self-leveling</b> and waterproof, with 4 LED lights
Brightness:	100 LUX (0.5 m)
Cable length:	1 m
Power supply:	Li-Ion battery 3.7 V / 5.2 Ah
Weight:	0.9 kg

Set ROSCOPE i2000 module TEC (No. 1500000696) includes: ROSCOPE i2000 basic unit, module TEC, charger, ROCASE 4212, foam inlay

Model	No.
ROSCOPE i2000 module TEC	1500000696
Module TEC (without basic unit)	69601
Set (hook, magnet, mirror)	69615

## ROSCOPE i2000 module 25/22

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

## **Product profile**

## 10

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

## **TECHNICAL DATA**

Display:	3.5" touchscreen (color) (technical data about basic unit available on page 192)
Camera head:	Ø 25 mm, waterproof, with 8 LED lights
Brightness:	100 LUX (0.5 m)
Cable length:	22 m
Cable diameter:	5.5 mm
Power supply:	Li-Ion battery 3.7 V / 5.2 Ah
Weight:	3.1 kg

Set ROSCOPE i2000 module 25/22 (No. 100000860) includes: ROSCOPE i2000 basic unit, module 25/22, module TEC, charger, plastic carrying case

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



Inspection of hollow spaces



Camera head with high-performance LEDs





Inspection of rain downpipes



Inspection of floor drains



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## **Video inspection**

## ROSCOPE i2000 module 25/16

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

## **Product profile**

### **KEY FEATURES**

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 50 mm
- Can be used with guidance ball up to Ø 100 mm
- Self-leveling picture
- Integrated transmitter for the precise locating of the camera head
- ROSCOPE i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module



## **TECHNICAL DATA**

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

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

WiFi Easy data transfer

Inspection of rain drainpipes

to mobile devices

### 3.5" touchscreen

320 x 240 Pixel resolution



### Battery compartment

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

> Guidance ball for module 25/16 and 25/22

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



No. 74629

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

Model	No.
ROSCOPE i2000 module 25/16 + module TEC	100000842
Module 25/16 (without basic unit)	150000052
Guidance ball for module 25/16 and 25/22	74629

Inspection of access line

Stable stand without slipping and damaging the surface

**Rubberized base** 



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**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)
Frequencies:	512 and 650 Hz, 33 kHz active / passive, 50/60 Hz passive
Power supply: Dimensions:	Li-lon battery 3.7 V / 5.2 Ah 95 x 32 x 30 cm (operating mode) 67 x 32 x 9 (transportation mode)
Weight:	1.4 kg



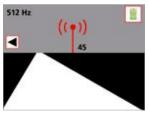
Easy to use pipe and sonde locating device incl. precise depth measurement



Set ROSCOPE i2000 module ROLOC PLUS (No. 1000000065) includes: ROSCOPE i2000 basic unit, module ROLOC PLUS; module TEC, charger, plastic carrying case

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

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



Depth measurement with a push of the button

512 Hz

10

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**Video inspection** 

## **ROSCOPE i2000 and 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: Compatibility: iOS 8.1 or newer, Android 4.0 or newer Size: 12 MB

Album



Album

Available for iOS

and Android!

Picture and video recording Settings / notes



**Editing Display** 

Change to edit settings

Color palette

Editing

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





Inspection of basin drains



Sending of edited pictures directly from the place of action



**Video inspection** 

## 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 and video format: JPG / AVI (resolution 720 x 600)		
Camera head:	Ø 25 mm, waterproof with 8 LEDs Ø 30 mm, self-levelling and waterproof with 10 LEDs Ø 40 mm, self-levelling and waterproof with 36 LEDs	
Working range:	Ø 40 - 100 mm (mini-module) Ø 70 - 150 mm (30 mm camera head) Ø 100 - 300 mm (40 mm camera head)	
Cable length:	30 m version 65 m version 8 m mini-module (optional)	
Cable diameter:	7 mm (30 m und 65 m reel) 5.5 mm (mini-module)	
Transmitter frequency:	33 kHz	
Power supply:	Li-lon battery 18 V/4 Ah Main adaptor 110 - 230 V, 50 - 60 Hz (optional)	

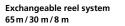


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<sup>2)</sup> More information at cordless-alliance-system.com <sup>1)</sup> Complete terms and conditions at rothenberger.com/roservice. RO SERVICE+ only valid in participating countries.

**Video inspection** 





ROCAM 4 Plus - 65 m

Inspection camera for pipes from Ø 40 – 300 mm with 65 m cable length, with integrated software for documentation and large removable 10.4" touchscreen.

Large operating range from Ø 40 mm pipe diameter

Transport trolley with extendible handle

Comfortable transport over long distances

New platform based battery technology

Transport trolley with extendible handle



10

## 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

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

Set (No. 1500002615) includes: ROCAM 4 Plus - 65 m cable w/ transport trolley, Ø 30 mm camera head, guidance ball, accessory bag including: location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

	Product profile
<b>KEY FEATURES</b>	

- Professional inspection of small pipe diameters
- Easy handling due to Exchange reel system

## **TECHNISCHE DATEN**

Camera head:	Ø 25 mm, waterproof with 8 LED lights
Working range:	Ø 40 - 100 mm
Cable length:	8 m / 16 m
Cable diameter:	5.5 mm

```
Model
```

Model

ROCAM 4 Plus mini module, 16 m cable

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<sup>2)</sup> More information at cordless-alliance-system.com

1500003296

No.

No.

1500002615

1500002616



**Video inspection** 

## **ROCAM camera heads**

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

## **Product-profile**

## **KEY FEATURES**

## **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

Model



Camera head Ø 30 mm

Pressure tight screw slip-ring connection



High flexibility and durability



### Mountable transmitter



Model

No.

1500000123

Camera head Ø 40 mm

No.

1500000122

## 210 **ROTHENBERGER**

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## **Video inspection**

## **Rolling skids**

## Recommended for distances from 10 m

## **APPLICATION AREA**

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

### **KEY FEATURES**

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



No. 69118

No. 69119

Model	∆ g ∆	No.
For camera heads Ø 40 mm:		
Rolling skids Ø 150 mm	700	69118
Rolling skids Ø 200 mm	700	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 Ø **150** for use in pipe Ø 150 - 200 mm

## **KEY FEATURES**

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens
- Good curveability with the brush flexibility





Brush attachement spiral feather (rear)

Brush attachement camera head (front)

\*Use with guidance ball No. 69112 / 150000817

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

## **Guidance ball ROCAM 4 Plus**

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

### **APPLICATION AREA**

Guidance ball for pipe diameters Ø 70 - 150 mm Guidance ball with brush attachment for pipe diameters Ø 70 - 200 mm

### **KEY FEATURES**

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





No. 69112 / 1500000817

### No. 69111 / 1500000120

Model	∆ <sub>g</sub> ∆	No.
For camera heads Ø 30 mm:		
Guidance ball for Ø 150 mm	200	1500000120
Guidance ball for brush attachments	200	1500000817
For camera heads ø 40 mm:		
Guidance ball for ø 200 mm	200	69111
Guidance ball for brush attachments	200	69112

## Battery pack system CAS, mains adaptor and charger

### **KEY FEATURES**

- Extend the mobile operation spare battery
- No unintentional release of the battery, battery lock with click mechanism
- External battery charger, independent charging of the battery, higher mobility

## **TECHNICAL DATA**

Battery: 18 V / 4.0 Ah, Li-Ionen





Model	No.
RO BP18/4, 4.0 Ah 18V Li-Power battery	1000001653
RO BC14/36, battery charger, 230 V, EU	1000001654
ROCAM 4 Plus adaptor, 230 V, EU	1000002085





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Spirals	234 - 235
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System overview high pressure drain cleaners	244
High pressure drain cleaning	
High pressure drain cleaners	244

## ROTHENBERGER 213

## System overview

	Flushing		
	ROPULS	ROPULS eDM	
Connection:	1 "	1 ″	
Max. pipe diameter:	Ø 50 mm	Ø 50 mm	
Max. water pressure:	7 bar	7 bar	
Documentation:	-	$\checkmark$	
Page:	217	216	

Pipe cleaning					
	WC-Blitz	<b>ROPOWER HANDY</b>	<b>ROSPIMATIC CL</b>	ROSPI 6 H+E Plus	ROSPI 8 H+E Plus
	P		D		
Operation mode:	Manual	Manual	Electric	Manual / electric	Manual / electric
Working range:	Ø 50 - 100 mm	Ø 50 - 100 mm	Ø 20 - 50 mm	Ø 20 - 50 mm	Ø 20 - 50 mm
Max. spiral length:	1 m	2.3 m	7.5 m	4,5 m	7.5 m
Spiral diameter:	13 mm	16 mm	8 mm	6 mm	8 mm
Power:	-	-	-	-	-
Page:	224	224	225	223	223
	R 550	RODRUM M 13	RODRUM M 16	RODRUM L 16	R 600
	<b>Received</b>				
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

System overview

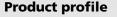
	Decalcifying		
	ROCAL 20 ROMATIC 20		
Tank volume:	15 l	15 l	
Volume flow:	40 l/min	40 l/min	
Delivery height:	10 m	10 m	
Motor rating:	150 W	150 W	
Max. temperature:	50 °C	50 °C	
Flow reversal:	Manual	Automatic	
Page:	219	219	

		Pipe cl	eaning
ROSPI 10 H+E Plus	RODRUM S 10	Manual drain cleaner 3 S	RODRUM S 13
		A state of the	
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	R 750	RODRUM L 20	
	0		
Electric	Electric	Electric	
Ø 20 - 150 mm	Ø 50 - 200 mm	Ø 70 - 250 mm	
65 m	80 m	60 m	
s*/ 10*/ 16 / 22 mm	16*/ 22 mm / 32 mm	20 mm	
1,350 W	1,400 W	620 W	
227	227	230	

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



### **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 as PDF files

## **TECHNICAL DATA**

Pipe connection:	R 1" GK-Coupling
Max. pipe diameter:	DN 50/2"
Max. flow rate:	5 m³/h
Max. water pressure:	7 bar
Max. water temperature:	30 °C
Protection class:	IP 20
Oil deposition rate:	99.9%
Particle retention rate:	0.3 µm compressor
Max. operating pressure:	8 bar
Engine power:	1.5 kW
Mains connection:	230 V - 50 Hz
Dimensions (H x W x D):	630 x 380 x 340 mm



216

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



### Flushing

#### **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 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 with ROCLEAN function: Flushing of drinking water pipes



ROPULS flushing compressor with ROCLEAN function



#### ACCESSORIES

Model	No.
ROCLEAN Injector	1000000190
Pressure regulator 2 bar	1500000203
ROPULS extension handle	1500003517
ROCLEAN cleaning and conservation on page 218	



**Function switch** 

Enables you to change to **ROCLEAN** function

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

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

Model	$\sqrt{kg}$	No.
ROPULS flushing compressor with hoses	28	100000145

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2) Only for Android devices

### Flushing

#### **ROCLEAN function**

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





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



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



	Ky		
ROCLEAN injector	1.1	1	1000000190
Pressure regulator 2 bar	0.3	1	1500000203

#### **Cleaning and preservation with ROCLEAN**

**Cleaning chemicals for** 

surface heating systems

For cleaning of deposits and bio

films. Suitable for all standard

system. One bottle per 100 l

system volume.

pipe materials. Does not stay in

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 and preservation steps:**

#### Before cleaning

Step 1: Mechanical cleaning Step 2:

Chemical cleaning Srep 3: Preserving eps:

Preservative for radiators and surface heating systems



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



### Disinfection of drinking water systems



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

A.S C.O.	Prover
2-083	On the
83	No.
The Contraction of the	200

Model	Color code	$\overline{\Delta_{kg}\Delta}$		No.
ROCLEAN injector		1.1		1000000190
Pressure regulator 2 bar		0.3		1500000203
Chemical cleaning:				
<ul> <li>Radiator heating systems (6 p</li> </ul>		6.3	1	150000200
- Surface heating systems (6 pc	cs.) 🔴	6.3	1	1500000201
Preservative (6 pcs.)		6.3	1	1500000202
Disinfection (6 pcs.)		6.3	1	1500000157

ROTHENBERGER

Decalcifying

230 V

#### **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

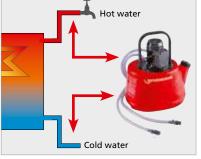
#### **TECHNICAL DATA** Connection: R 1/2″ Tank volume: 15 I Power supply: 230 V 50 Hz Motor rating: 150 W Volume flow: 40 I / min.

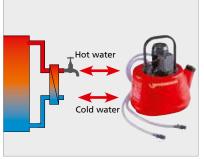
10 m

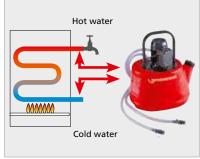


**Delivery height:** 









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	$\sqrt{kg}$	No.
ROCAL 20	6	61100
ROMATIC 20	6	61190

ACCESSORIES



Decalcifying chemical for ROCAL 20, ROMATIC 20 see 220

Decalcifying

#### **ROCAL Acid Multi / Plus**

Decalcifying chemical for use with ROCAL 20, ROMATIC 20

#### **Product profile**

#### RANGE OF USE

#### **ROCAL Acid Multi**

For the safe decalcification of all piping systems, heat exchangers, fresh water stations and water tanks

#### **ROCAL Acid Plus**

For strong calcifications and scale build-up. Only suitable for technical systems. Not suitable for drinking water pipes.

#### **KEY FEATURES**

- With 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



Copper Steel

Model

Stainless steel suitable - unsuitable

**ROCAL** Acid Multi

**ROCAL** Acid Multi

ROCAL Acid Multi

RANGE



No. 1500000116

**ROCAL Acid Multi** 



**ROCAL Acid Plus** 

No.

1500000115

1500000116

1500000117



No. 1500000117

1

1





No. 61106



No. 61105

No. 61110

	<b>ROCAL Acid Multi</b>	<b>ROCAL Acid Plus</b>
Aluminium		-
Brass		-
Plastic	•	-

$\sqrt{kg}$		No.
5	1	61105
10	1	61106
25		1500000914
	5 10	5 1 10 1

#### **Neutralizer powder**

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

 $\int_{kq}$ 

5

10

30

	Product profile
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	$\sqrt{kg}$		No.
Neutralizer powder	1	1	61115
Neutralizer powder	10		61120





No. 61115

No. 61120

Filling

230 V

#### ROSOLAR PUMP / ROSOLAR PUMP PLUS

#### Solar filling pump

#### **Product profile**

#### **KEY FEATURES**

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

#### TECHNICAL DATA

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



ROSOLAR PUMP (with centrifugal pump) ROSOLAR PUMP PLUS (with impeller pump) Fleece filter bag ROSOLAR (10 pcs.) Return flow cover (for filter bags) 1500000135 1500000136 1500001236 1500001235







## ROTHENBERGER 221

**Pipe cleaning manual** 

#### **ROPUMP SUPER PLUS**

#### Professional force pump cleaner

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

#### **Quick – Compact – Handy!**

#### Product profile

Flexible socket

ROTHENBERGER

Various areas of application

#### **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

#### **KEY FEATURES**

• Simple handling with the perfect adaption to the drain and easy to use with ergonomic formed components



Model	∆ <sub>g</sub> ∆	No.
ROPUMP with flexible socket	500	71991

**Pipe cleaning manual** 

#### **ROSPI H+E PLUS**

Professional manual and electrical drain cleaning unit

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

#### Product profile

#### **KEY FEATURES**

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

20 - 50 mm Ø 8 mm x 7.5 m



Switch from manual to electrical use within seconds

Electrical operation with cordless drill



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

Manual operation



**Pipe cleaning manual** 

#### **ROPOWER HANDY**

#### Manual drain cleaning unit, Ø 50 - 100 mm

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

#### **KEY FEATURES**

 Additional spiral cleaning effects with the use of a square spiral



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

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

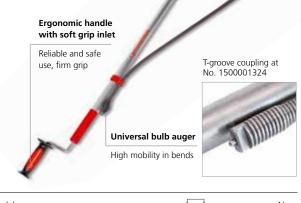
#### WC-BLITZ RO-3 toilet auger

#### **KEY FEATURES**

- Flexible use even in hard-to-reach places
   With tough cleaning bulb auger. Extendable handle and 1 m spiral length, Ø 1/2"
- No damage to ceramic surfaces Angle made out of plastic

#### Angle with plastic protection

No damage to ceramic surfaces in the visual range



Model		No.
WC-Blitz RO-3 complete with spiral	2.75	78551
WC-Blitz RO-3 with tool coupling	2.90	1500001324

#### Manual drain cleaner type 3 S

For pipes Ø 40 - 100 mm

Spirals Ø 13 mm x 15 m with 16 mm coupling

#### **KEY FEATURES**

- Flexible use with a wide range of applications For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings
  - **Cleaning unit with stand** Secure use
- Plastic spiral drum Corrosion-proof and impact-resistant

Set includes (No. 72003): manual drain cleaner type 3 S (No. 72003), spirals Ø 13 mm x 15 m (No. 72016), cross-blade cutter Ø 35 mm (No. 72176) and separating pin (No. 72100)

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

ROTHENBERGER

**Pipe cleaning electric** 

#### **ROSPIMATIC CL**

#### Professional drain cleaning unit up to Ø 50 mm

Effective removal of obstructions in access lines with a one-of-a-kind spiral forward and reverse system without changing the rotational direction.

#### **Product profile**

#### **KEY FEATURES**

- 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:2Spiral with inner-core and2Bulb auger:2Dimensions (without spiral):4

Compact design without power unit

20 - 50 mm

Ø 8 mm x 7.5 m 420 x 200 x 200 mm



Set (No. 1000002299) includes: ROSPIMATIC CL set incl. spiral 8mm x 7.5m with bulb head (No. 72413), spiral 8mm x 7.5m with coupling (No. 72425), cross-blade auger (No. 72765) and separating key (No. 72102)

Set (No. 72942) includes: blade cutter (No. 72764), cross-blade cutter (No. 72765), ball head cutter (No. 72766), separating pin (No. 72102)

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

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# **ROTHENBERGER** 225

For additional accessories see 234

Pipe cleaning electric



Model	$\sqrt{kg}$	230 V
R 550 w/ guide hose	16.0	72686
Tool sets and accessories starting on 232		



Model	$\sqrt{kg}$	230 V
R 600 w/ guide hose	20.9	72687
Tool sets and accessories starting on		

#### 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: Direct attachment:	Ø 20 - 100 mm 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
Speed:	583 rpm, RH and LH drive
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)
Voltage:	230 / 110 / 115 V, 50 Hz
Speed: Weight:	467 rpm, RH and LH drive 20.9 kg

#### 11

### **Pipe cleaning electric**

230 V

#### 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**

Direct attachment: Ø 22 and 16 mm spirals
With adaptor magazine: Ø 8 mm and 10 mm
Max. working length: 65 m with Ø 22 mm S-spirals
55 m with Ø 16 mm S-spirals
10 m with Ø 8 and 10 mm spirals
Rating: 1,350 W (power input)
Voltage: 230 V, 50 Hz
Speed: 623 rpm, RH and LH drive
<b>Weight:</b> 22.8 kg



Tool sets and accessories starting on 📃 232

#### R 750

#### Drain cleaning machine for pipe Ø 20 - 200 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### Product profile

#### **APPLICATION AREA**

Perfectly suited for the cleaning of domestic connections and main pipes: Quiet operation and powerful cleaning action. Usable for such as chain spinning, grinding and cutting roots

#### **KEY FEATURES**

- Drive lever can be rotated (180°), locked and used as a handle for easy wheeling
- Direct up take of 32 mm and 22 mm
- Optional Ø 16 mm with clutch jaw possible
- Maximum working length 80 m, with Ø 32 mm S-spirals

#### **TECHNICAL DATA**

For pipe diameters:	Ø 20 - 200 mm
With direct attachment:	Ø 32 and 22 mm spirals
With clutch jaw:	Ø 16 mm
Max. working length:	80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals 55 m with Ø 16 mm S-spirals
Rating:	1,400 W (power input)
Voltage:	230 V, 50 Hz
Speed:	467 rpm, RH and LH drive
Weight:	33.5 kg



mobility and a secure stand

Model	$\sqrt{kg}$	230 V
R 750 w/ guide hose	33.5	72689
Tool sets and accessories starting on 22		

**Pipe cleaning electric** 

#### **RODRUM S**

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

#### **Product profile**

#### **KEY FEATURES**

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

#### **KEY FEATURES**

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



**Pipe cleaning electric** 



#### **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

#### Cleaning of floor drain with 13 mm spiral

#### **TECHNICAL DATA**

Working range/pipe diameter: Max. working length:

Power (input): Speed (drum): **Product dimensions:**  Ø 40 - 100 mm 10 m (with 10 mm Spirals) 15 m (with 13 mm Spirals) 440 W 300 rpm 58 x 33 x 39 cm



Convenient transport thanks to detachable drum



Model	$\sqrt{kg}$	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

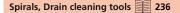


Set (No. 1000001256) includes: RODRUM S 10, guide hose (No.1300002581), spiral guide gloves (No.1500000439)

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 $\sqrt{kg}$ No. RODRUM S 10 Drum 5.5 1000001275 RODRUM S 13 Drum 11.4 1000001276 Tool kit 16 mm 5.5 1000001308



Model





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

**Pipe cleaning electric** 

#### **RODRUM MandL**

Drum drain cleaning machine with automatic spiral feed. For pipes from Ø 70 - 250 mm. Perfectly suited for use in public and commercial buildings as well as house connection pipes.

#### **Product profile**

#### **KEY FEATURES**

- Interchangeable drums for quick and easy adaption to different pipe diameters without use of any tool
- Clean and discreet use
- 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

#### Loading device





#### **RANGE OF USE**

- RODRUM M and L is a drum drain cleaning machine with automatic spiral feed for removal of blockages in pipes from Ø 70-250 mm.
- Due to the interchangeable drums the machine can be adapted to different pipe diameters quickly without usage of any tools
- The dirty spiral runs back into the drum and keeps the surrounding free of dirt
- The clean and discrete way of working is ideal for Plumbers, facility managers, drain cleaners for jobs in private housholds, as well as public buildings like hotels or restaurants

#### **TECHNICAL DATA**

Working range/pipe diameter:	Ø 70 - 250 mm
Max. working range:	30 m (with 13-mm-Spirals)
	45 m (with 16-mm-Spirals)
	60 m (with 20-mm-Spirals)
Power (input):	620 W
Speed (drum):	270 r/min.
Product dimensions:	77 x 56 x 87 cm



51.9

68.0

1000001713

1000001714

Interchangeable drums for adaption of the



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

spirals 16 mm x 15 m, incl. 16 mm tool kit

spirals 20 mm x 20 m, incl. 20 mm tool kit

RODRUM L 16

RODRUM L 20

**Pipe cleaning electric** 

#### **RODRUM M and L drums**

Interchangeable spiral drums for quick and easy adaption of the machine to different pipe diameters or for extension of the spiral length.



#### Model

 $\Delta_{kg}\Delta$ No. 14.5 **1000001727** RODRUM drum M 13 incl. spiral 13 mm x 15 m 19.0 1000001728 RODRUM drum M 16 incl. spiral 16 mm x 15 m 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\*

Adaptor, square-coupling to 22 mm T-coupling

Spiral 20 mm x 20 m w. inner core and

#### ACCESSORIES

Model	$\sqrt[]{kg}$	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 augers with square coupling

#### - mmmmm-

No. 1500002267

No. 1500002266





No. 1500002255



No. 1500002258



No. 1500002256

No. 1500002257



 $\Delta_{kg}\Delta$ 

0.39

10.8

15.5

0.15 1500002263

0.20 1500002264

0.46 1500002266

0.25 1500002267

33.5 1500002268

1500002265

1500002271

1000001731

1000001732

mmmmmm -

No. 1500002253

72918

No.

No. 1500002263

Set (No. 1000001731) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), chain-spinning head (No. 072185F), cross-blade cutter (No. 72176), forked cutter (No. 72164), bulb auger (No. 72163), retrieving auger (No. 72162), straight auger (No. 72161), separating key (No. 72100)

Set (No. 1000001732) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), bulb auger (No. 1500002255), cross-blade cutter (No. 1500002259), forked cutter (No. 1500002263), separating key (No. 72101)

Cleaning of a down pipe with 16 mm spiral





No. 1000001731

Loading device





No. 1000001732



### Accessories pipe cleaning electric





No. 72536





No. 72666

No. 72563



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	$\sqrt{kg}$	No.
R 600/650	8 mm	10 m	1.8	72514
R 600/650	10 mm	10 m	1.8	72515



### **Clutch jaw for R 750**

For machine type	For spirals-Ø	$\sqrt{kg}$	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	\_kg \_	No.
FS 16	R 550 / RODRUM S	16 mm	2 m	1.1	72540
FS 22	R 600 / 650	22 mm	4 m	2.8	72541
FS 32	R 750 / 80 / 100 SP	32 mm	4 m	4.1	72559



#### **Tripod stand**

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: inspection holes in downpipes
- Spiral retrieving device

For machine type	$\overline{\Delta_{kg}}\Delta$	No.
R 550 - R 600 - R 650 - R 750	3.0	58182



### Accessories pipe cleaning electric

#### Spiral retrieving device

- Safe feeding / retrieving of spirals in downpipes
- Suitable for all Ø 22 and 32 mm open-wound spirals
- Suitable as pusher unit for difficult obstructions
- Also suitable as adaptor for third-party equipment without problems
- With water supply connection (two 1" threaded couplings)
- Socket for tripod stand

Model	$\sqrt[]{kg}$	No.
Spiral retrieving device	3.7	72135

#### **Telescoping guide tubes**

• No twisting: For safe spiral guidance in manholes and manhole covers

Model Ex	tended length m	Туре	$\sqrt[]{kg} \sqrt[]{kg}$	No.
For spirals Ø 16, 22 mm	1.4 - 2.3	2 pcs.	3.0	72130





#### **ROWONAL care and rust remover**

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal







o. 72142
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Model	Contents	ΔgΔ	No.
Spray can	0.2	220	72142
Plastic canister	5.0 l	5,100	72140

### Separating pin

• 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

Model	Spiral length max.	$\overline{\bigtriangleup_{kg}} \overleftarrow{\bigtriangleup}$	No.
For spirals / tools w/ Ø 16 mm	34.5 m	1.3	72110
For spirals / tools w/ Ø 22 mm	22.5 m	1.6	72112
For spirals / tools w/ Ø 22, 32 n	nm 22.5 m	2.3	72111



No. 72101

#### 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 72100



No. 1500000439

Model	∆ <sub>g</sub> ∆	No.
Guide gloves left, leather	190	72120
Guide gloves right, leather	190	72121
Guide gloves (pair), rubber	160	1500000439

**Pipe cleaning spirals** 

#### **ROTHENBERGER high-performance** drain cleaning spirals

#### For the toughest demands during continuous operation

#### **Product profile**

#### **KEY FEATURES**

- Bevelled lead-ins on the T-groove coupling
- Quick, trouble-free coupling even when wearing gloves
- For the toughest demands even during continuous operation Different wire gauge can be chosen depending on use, high material characteristics, perfected production process
- Maximum spring tension with high elasticity and flexibility
   Specially hardening process
- Optimum high torque transmission Tightly wound spiral with short pitch
- Increased spiral tension when machine turns clockwise and depending on the resistance of the obstruction Professional left-handed wound spiral

#### **TECHNICAL DATA**

Manufactured from quality spring steel, type C DIN EN 10270-1 Material No. 1.1200

Specially hardened and tempered

Safety T-groove coupling system with NIROSTA- pressure pin locking mechanism

Spring mounted NIROSTA pressure pin with NIROSTA spring





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Simple coupling of spirals and tools

Insertion taper





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
<b>ROPOWER</b> profile	0	•	•	•

O not suitable • suitable

**Pipe cleaning spirals** 

#### **ROPOWER profile cable**

#### Spiral with special galvanized wire shape

#### **KEY FEATURES**

- Squared spiral wire profile (DIN EN 10270-1) Additional cleaning effect on pipe wall
- Plastic core
- No clogging of the spiral with dirt
- Especially suitable for working over long distances



►O- mm	Core	► <b>○</b> ◄ Inch	⊫ <mark>∟</mark> ∎ m	$\sqrt[]{kg}$	No.
16	•	5/8"	2.3	1.3	72490
Safety T-groove	couplings can be	e found on	243		

#### **Standard spirals**

 Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends

AAAA	FFFF		E +1	<b>mma</b>	IAAAA	laaaa				
► <b>○</b> ◄ mm	► <b>○</b> ◄ Inch	<mark>⊫⊥</mark> ∎ m	Wire thickness Ø mm	R/K Type	\_kg \_	No.				
16	5/8″	2.3	3.0	C 8	1.05	72431				
22	7/8″	4.5	4.5	C 10	3.98	72441				
32	1.1/4″	4.5	5.0	C 11	6.29	72451				
Safety 1	Safety T-groove couplings can be found on 📔 243									

Safety T-groove couplings can be found on 2

#### **S**-spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling





► mm	► <b>○</b> ◄ Inch	∎ <mark>⊥</mark> ∎ m	Wire thickness Ø mm	R/K Type	$\sqrt[]{kg}$	No.
16	5/8"	2.3	3.5	E 8	3.00	72428
22	7/8″	4.5	5.0	E 10	4.18	72443
32	1.1/4″	4.5	6.0	E 11	6.80	72453
Safety T	-groove co	upling	s can be found o	on 📔 24	13	

#### **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 coupling
- Optimum force transmission for professional pipe cleaning
- Increased safety
- Increased durability / service life of the spiral



#### **SMK-spirals**

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends
- Additional protection of the spiral from clogging with the plastic core

4	-	m	m	ы	2.0	60	44	h
2016	1111		***	-	-			97

► <b>○</b> ◄ mm	► <b>○</b> ◄ Inch	⊫ <mark>⊥</mark> ∎ m	Wire thickness Ø mm	R/K Type	<b>∆</b> kg∆	No.
16	5/8″	2.3	3.0	C 8	1.24	72433
22	7/8″	4.5	4.5	C 10	4.64	72442
32	1.1/4″	4.5	5.0	C 11	7.63	72452
Safety T	-aroove co	unling	s can be found o	n 🗎 243		

S-SMK-spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling
- Additional protection of the spiral from clogging with the plastic core

► <b>○</b> ◄ mm	► <b>○</b> ◄ Inch	<mark>⊧⊥</mark> ∎ m	Wire thickness Ø mm	R/K Type	\[ \] \] kg \[ \]	No.
16	5/8″	2.3	3.5	E 8	1.30	72435
22	7/8″	4.5	5.0	E 10	4.78	72444
32	1.1/4″	4.5	6.0	E 11	7.85	72455
Safety T	-aroove co	uplina	s can be found c	on 🗎 243		

**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

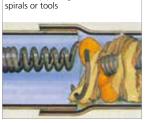
- 🔴 Ø 16 mm 5/8"
- 🛑 Ø 22 mm 7/8″
- 🛑 Ø 32 mm 1.1/4″

See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

#### **Retrieving auger**







Special tool for retrieving objects

from the pipe, e.g. textiles,

#### **Funnel auger**



Tool for removing, opening or retrieving obstructions caused by, e.g. textiles

110mm

#### Spade head cutter

11



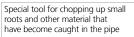
238

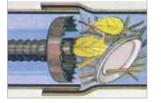
Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool



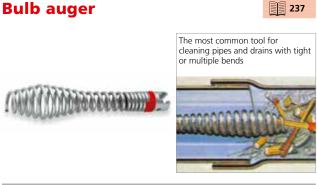
#### **Spiral sawtooth cutter**







ROTHENBERGER

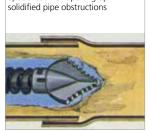


With lockring

**Cross-blade cutter, serrated** 







Special tool for opening up

#### Chain-spinning head with spikes 📃 239



For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains



#### **Carbide-tipped cutters**

This carbide-tipped tool is used to



#### **Two-way root cutter**



This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale etc.



240

Special tool for cutting roots in both directions. Also suitable for solid materials







With lockring

### Flushing and pipe cleaning

**Drain cleaning tools** 

#### **Bulb auger, long**

• With the longer, more flexible range the bulb auger is considerably more flexible in curves. Pipe from Ø 40 mm

Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊾⊥</mark> mm	Working range mm	<b>∆</b> g∆	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	► <b>○</b> ◄ mm	<mark>⊫∟</mark> ⊲ mm	Working range mm	∆ g ∆	No.
16/ 5/8″	16	110	40 - 75	60	72161
22 / 7/8″	22	210	75 - 100	170	72221
32 / 1.1/4"	32	220	100 - 250	350	72321

#### **Funnel auger**

- For removing or opening up obstructions caused by textiles or paper
- Large grasping ability can also be used to retrieve spirals from drains



Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊾∟</mark> ∎ mm	Working range mm	۵ <sub>g</sub> ۵	No.
16 / 5/8"	32	110	50 - 100	80	72165
22 / 7/8″	55	185	110 - 150	280	72222
32 / 1.1/4"	60	195	100 - 250	500	72322

#### **Bulb Auger, short**

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions



Coupling mm / Inch	► <b>○</b> - mm	<mark>⊫⊥</mark> ∎ mm	Working range mm	۵ <sub>g</sub> ۵	No.
16 / 5/8"	28	115	40 - 75	70	72163
22 / 7/8″	40	180	75 - 100	220	72263
32 / 1.1/4"	50	220	75 - 250	490	72363

#### **Retrieving auger**

 Special tool designed with a claw for retrieving textiles, tools, spirals etc.



Coupling mm / Inch	► <b>○</b> ◄ mm	⊾ mm	Working range mm	<b>∆</b> 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	► <b>○</b> ◄ mm	<mark>⊫∟</mark> ⊣ mm	Working range mm	∆ <sub>g</sub> ک	No.
16 / 5/8″	24	83	50 - 75	60	72159
22 / 7/8″	37	125	60 - 100	180	72264



### **Drain cleaning tools**

# Hardened spring steel blades! No. 72154 No. 72164









No. 72229

- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK-spirals!



#### **Four-blade cutter**

- For cutting through and removing tough obstructions
- For the removal of sludge deposits
- Ideal with S-spirals

Coupling mm / Inch	► <b>○</b> ◄ mm	<b>⊾∟</b> mm	Working range mm	∆ g ∆	No.
16 / 5/8"	40	40	50 - 75	30	72154
16 / 5/8"	30	40	50 - 75	20	72164

#### **Grease cutter**

Coupling mm / Inch	► mm	<mark>⊾∟</mark> mm	Working range mm	∆ <sub>g</sub> ک	No.
16 / 5/8"	25	35	40 - 75	30	72169
16 / 5/8"	35	45	50 - 75	40	72170
16 / 5/8"	45	56	60 - 100	50	72171
22 / 7/8″	45	60	60 - 125	80	72234

#### Spade head cutter

• Curved special tool for silt and sludge deposits

Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊫∟</mark> ∎ mm	Working range mm	∆ <sub>g</sub> ک	No.
22 / 7/8"	65	65	100 - 150	150	72261
32 / 1.1/4"	65	70	100 - 150	250	72360

#### **Spiral sawtooth cutter**

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊫∟</mark> ∎ 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

#### **Cross-blade cutter, serrated**

- Powerful combination tool for grinding up and removing solidified obstructions
- For coarse removal of incrustations
- As preparatory tool for chain spinning

Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊫⊥</mark> ∎ mm	Working range mm	۵ <sub>g</sub> ۵	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





**Drain cleaning tools** 

#### **Chain-spinning heads**

#### Without ring, with smooth chain

#### **KEY FEATURES**

Coupling

mm / Inch

16 / 5/8"

16 / 5/8"

22 / 7/8"

16 / 5/8"

22 / 7/8"

• For cleaning greasy and incrusted pipes

►◯◄

mm

30

30

50

40

60

Without ring, with 2 chains

Without ring, with 4 chains

- Surface-preserving cleaning or ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends







# Chain-spinning heads with spikes

Chain-spinning heads without ring and without spikes

Working range

mm

50 - 125

100 - 125

100 - 150

60 - 125

80 - 130

۵<sub>g</sub>Δ

120

160

530

270

710

No.

072185F

72185

72284

72187

72289

,∟

mm

105

155

170

155

170

#### **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:

32 / 1.1/4"

- for better centering in horizontal pipe runs
- Without ring: Improved mobility in bends





No. 72278



No. 72188

# **ROTHENBERGER** 239

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#### -0-۱<u>ـــــ</u> Coupling Working range $\Delta_{q}\Delta$ mm / Inch mm mm No. mm 170 22 / 7/8" 65 100 - 125 1,060 72285 100 - 150 1,110 72286 22 / 7/8" 75 170

220

100 - 125

1,700 **72341** 

Chain-spinning heads with ring and spikes

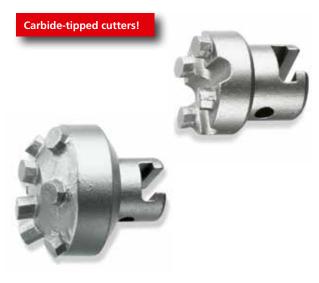
#### Without ring, with 2 or 4 chains and spikes

Coupling mm / Inch	► <b>○</b> ◄ mm	<mark>⊫⊥</mark> mm	Working range mm	∆ <sub>g</sub> ∆	No.
Without ring,	with 2 cl	nains			
16 / 5/8"	30	155	50 - 125	160	72186
22 / 7/8″	50	170	100 - 150	860	72278
Without ring,	with 4 cl	nains			
16 / 5/8"	40	155	75 - 125	280	72188
22 / 7/8″	60	170	100 - 150	880	72299
32 / 1.1/4"	80	220	100 - 200	1,460	72348

### **Drain cleaning tools**

#### **Carbide-tipped cutters**

- Carbide-tipped cutters for the hardest obstructions and incrustations such as cement deposits, urine and water scale and other hard deposits
- Recommended for use with S- or SMK-spirals



Coupling mm / Inch	► <b>○</b> - mm	Form	Working range mm	∆ g ∆	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	► <b>○</b> ◄ mm	⊾ mm	Working range mm	\[ g \]	No.
22 / 7/8″	65	80	100 - 125	250	72265
22 / 7/8″	90	85	125 - 200	290	72266
32 / 1.1/4"	65	80	100 - 125	290	72365
32 / 1.1/4"	90	90	125 - 200	330	72366

#### 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	► <b>○</b> ◄ mm	<mark>⊨⊥</mark> ∎ mm	Working range mm	∆ <sub>g</sub> ∆	No.
22 / 7/8″	76	100	100 - 150	230	72250
22 / 7/8″	100	100	125 - 150		72251
32 / 1.1/4"	76	100	120 - 200	260	72350
32 / 1.1/4"	100	100	125 - 200		72351

#### **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	∆ <sub>g</sub> ∆	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



**Drain cleaning tools** 

#### Tool set L



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



Set (No. 72938) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), separating key 22 mm (No. 72101), retrieving auger 16 mm (No. 72203), serrated forked cutter 22 mm (No. 72250), spade head cutter 22/65 mm (No. 72261), bulb auger 22 mm (No. 72263), two-way root cutter 22/65 mm (No. 72265), cross-blade cutter 22/65 mm (No. 72276), chain-spinning head 22 mm with 2 smooth chains (No. 72284), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model	No.
22 mm tool set L (R 600, R 650, R 750)	72938

22 mm tool set L (R 600, R 650, R 750)	
--	--

**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



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)

RO

**Drain cleaning tools** 

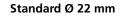
#### Spiral and tool sets





**Spiral and tool sets** 

forthersenters





**Spiral and tool sets** 

Standard Ø 32 mm



ROTHENBERGER



Model	Description	$\sqrt{kg}$	No.
Standard 16 mm	with standard spirals	12.0	072945X



Set (No. 072956X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 150000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	${\textstyle \sqrt{kg}}{\textstyle \sqrt{kg}}$	No.
Standard 16 - 22 mm	with standard spirals	38.0	072956X
SMK 16 - 22 mm	with SMK-spirals	39.0	072967X



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. 150000439), ROWONAL spiral spray (No. 72142), ROCASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	$\sqrt{kg}$	No.
Standard 22 mm	with standard spirals	24.0	072955X



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. 72322), funnel auger 32 mm (No. 72322), spade head cutter 32/65 mm (No. 72329), 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	$\sqrt{kg}$	No.
Standard 32 mm	with standard spirals	37.0	072962X





### Accessories pipe cleaning spirals

#### Spirals 8 mm / 10 mm

#### For ROSPI H+E PLUS, ROSPI R 36 PLUS, ROSPIMATIC and adaptor magazine

#### **KEY FEATURES**

- Heavy duty spiral made out of special steel (DIN EN 10270-1) with integrated bulb auger (except No. 72421, 72423)
- Suitable for ROSPI H+E Plus, ROSPI 36 Plus, ROSPIMATIC as well as with adaptor R 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

•O• mm	■ Wire Ø	m	Туре	Steel core	Use for ROSPI	$\sqrt[]{kg}$	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 1	-groove co	upling					

#### **Reducing / extension pieces**

#### For spirals with T-coupling

Within limits, tools with larger or smaller lead-ins can also be adapted

Model	negative	positive	∆ g ∆	No.
Extension piece	16 mm	22 mm	140	72461
Reducing piece	22 mm	16 mm	150	72460
Extension piece	22 mm	32 mm	320	72463

#### Safety T-couplings

Model	∆ <sub>g</sub> ∆	16 mm 5/8″	∆ <sub>g</sub> ∆	22 mm 7/8″	
for Standard	and SMK-spi	rals			
positive	20	72150	40	72210	
negative	20	72151	40	72211	



No. 72412

No. 72421 / No. 72423

Extension piece





No. 72460



#### for Standard and SMK-spirals





No. 72211

No. 72210

11

**High-pressure drain cleaning** 

	High-p	pressure drain cleaning
	HD 13/100	HD 17/190
Operation mode:	230 V	400 V
Max. pipe diameter:	Ø 150 mm	Ø 200 mm
Max. working length:	20 m	40 m
Max. pressure:	100 bar	190 bar
Pump delivery:	13 l/min	17 l/min
Power:	2,300 W	5,000 W



Model

hose (No. 72812) with couplings and pipe cleaning nozzle (No. 76089)

Model	$\sqrt[]{kg}$	230 V/50 Hz
High-pressure pipe cleaning unit HD 13/100	45.0	76020

High-pressure pipe cleaning unit HD 17 / 190 50.0



400 V / 50 Hz

 $\Delta_{kg}\Delta$ 



High-pressure drain cleaning

# ACCESSORIES HD 13/100 - 17/190 - 19/180



No. 76067

Model	${\textstyle \sqrt{kg}} {\textstyle \sqrt{kg}}$	No.
Flexible, high-pressure hose with R 1/4" coupling		
Length 40 m, NW 8 (HD 17/190, HD 19/180 B)	10.70	72820
Pipe cleaning nozzles R1/4", stainless steel	0.04	76089
excl. forward jet spray, 4 holes, Ø 25 x 22 mm		
incl. forward jet spray, 5 holes, Ø 25 x 22 mm	0.04	76065
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77506
Cleaning lance with wide-angle nozzle	1.30	76068
for surface cleaning		
Spare wide-angle nozzle	0.01	76088

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# ROWELD plastic pipe welding

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Cutting	
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Socket welding	
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ROWELD P 110	258 - 259
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Butt welding hydraulic	
ROWELD type Professional	264
ROWELD type Premium CNC	265

### System overview

		Cutting		
	ROCUT XL 125	ROCUT XL 225	ROCUT XL 315	ROCUT UKS 160 / 355
	B	B	B	
Suited for:	PE	PE	PE	PE, PP, PVC
Outer pipe diameter:	Up to Ø 125 mm	Up to Ø 225 mm	Up to Ø 315 mm	Ø 160 - 355 mm
Wall thickness:	Up to max. 11,4 mm	Up to max. 18 mm	Up to max.18 mm	Up to max. 40 mm
Operation mode:	Manual	Manual	Manual	Electrical
Function:	Cutting	Cutting	Cutting	Cutting
Page	250	250	250	250

	Bu	utt 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	251	251	251

	Electro	ofusion 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 <sup>1)</sup>
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:	-	$\checkmark$	$\checkmark$
Page	255	256	256

System overview

	Socket	welding
	ROWELD P 63-S6	ROWELD P 125
Suited for:	PE, PP	PE, PP
Outer pipe diameter:	Ø 32 - 63 mm	Ø 16 - 125 mm
Wall thickness:	-	-
Operation mode:	Manual	Manual
Function:	Socket welding	Butt welding, socket welding
Page	252 - 253	251

### 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	258	260	262

	Butt w	elding hydraulic
	<b>ROWELD type Professional</b>	ROWELD type Premium
	Contraction of the second seco	Commencer
Suited for:	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Ø 40 - 1200 mm	Ø 90 - 630 mm
Operation mode:	Manual	Automatic CNC controlled
Voltage:	230 V, 50/60 Hz	230 V, 50/60 Hz
Documentation:	-	$\checkmark$
Page	264	265

# **ROTHENBERGER** 249

### Cutting

#### **ROCUT UKS 160 / 355**

#### High-performance orbital circular saw Ø 160 - 355 mm

#### **Product profile**

#### **APPLICATION AREA**

For cutting of plastic pipes made of PE, PP and PVC. For use on the building site or in the workshop

#### **KEY FEATURES**

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

#### **TECHNICAL DATA**

Voltage: Power: Outer pipe diameters: Wall thickness pipe:

230 V, 50/60 Hz 1,750 W 160 - 355 mm 8 - 40 mm



Secure clamping and

the central trapezoidal clam-



Transport box without saw (No. 120000526)







Model	$\sqrt{kg}$	No.			
ROCUT UKS 160 / 355, complete with	12.9	100000532			
HM saw blade (No. 55505), without transport box					
Spare HM saw blade 180 x 30 mm	0.6	55505			
Transport box 700 x 350 x 500 mm	16.8	1200000526			

#### **ROCUT XL**

Pipe cutter for pipes Ø 125 - 315 mm

#### **Product profile**

#### **APPLICATION AREA**

For cutting-off pipes in trenches, for making repairs or extensions



ROCUT XL 125 up to 125 mm	4″	max. 11.4 mm	1500000789
ROCUT XL 225 up to 225 mm	8″	max. 18 mm	150000790
ROCUT XL 315 up to 315 mm 1	12″	max. 18 mm	150000792

ROTHENBERGER

#### **KEY FEATURES**

- Can be easily adjusted anywhere at the pipe
- Robust blade made of stainless steel

An optimised cutting angle for easier pipe cutting



The lower clamp can be folded out completely. Therefore, ROCUT XL can be used at any desired position of the pipe



#### **Replacement blade**

No.

Scope of delivery: 1 replacement blade + fastening screws

Model	∆ <sub>kg</sub> ∆	No.
For ROCUT XL 125	0.3	1500000793
For ROCUT XL 225	0.7	1500000794
For ROCUT XL 315	2.1	1500000795

Socket welding

230

#### **ROWELD P 125**

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

#### Product profile

#### **APPLICATION AREA**

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp

#### **KEY FEATURES**

- Process reliability with the temperature control according to DVS, CEN and ISO standards
- With high-quality non-stick Teflon coating, long service life and manufactured according to DVS regulations
- Electronic temperature control and monitoring, as well as prevention against unintentional temperature adjustment
- Saves time and money with quick-exchange system for heating plates
- Optimum temperature distribution over the entire working area
- 4 holes for mounting of heating spigots and heating sockets

Set (No. 55546) includes: basic unit. table



Set (No. 55540) menues. basic unit, table
mounting clamp, heating spigots / heating
sockets 63, 75, 90, 100 and 125 mm, steel case

Model	Power watts	► <b>○</b> ◄ mm	Control Model	$\sqrt[]{kg}$	230 V 50/60 Hz
P 125	1,300	16 - 125	electronically	3.10	55321
P 125 set	1,300	63 - 125	electronically	17.05	55546

#### **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





 $\Delta_{kg}\Delta$ 

0.37

0.60

0.89

1.33

2.07

2.33

No.

55593

55594 55595

55596

55597

55598



Model

50

63

75

90

110

125

# Adaptor plate

No. 55321

Heating spigots / Heating sockets (Form A)

No.

55585

55587

55588

55589

55590

55591

55592

 $\Delta_{kg}\Delta$ 

0.06

0.08

0.08

0.08

0.10

0.17

0.26

Model

16

18

19

20

25

32

40



	Power watts	Heating eleme Ø mm	nt Control Model	∆kg∆	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 mo	unting clamp		0.45	55524	55524
ACCESSO	RIES					

Model	$\sqrt{kg}$	No.	Model	\_kg \_	No.
Table mounting clamp for P 125	0.45	55524	Floor stand for ROWELD P 125	0.44	55539
Adaptor plate for butt welding ROWELD P 125 Ø 160 mm (1 set = 2 pcs.) non-stick Teflon coating			1.15	55536	

**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  $\rm 63\;mm$ 

#### **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**

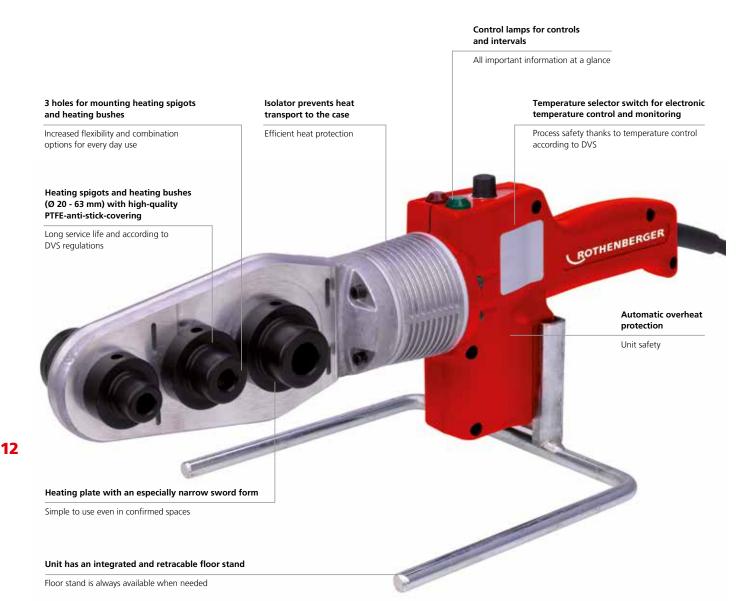
Power: Model: Pipe diameter:

Voltage:

800 W Thermostatic or electronically controlled For sockets, pipes and fittings from Ø 20 - 63 mm 230 V, 50/60 Hz 110/115 V, 50/60 Hz

× 230 V 2000 V

115 V



Socket welding

## **ROWELD P 63 S-6 Sword sets**

P 63 S-6 Sets include: Heating spigots, hex key size 6 (No. 321216), socket-head screws, table mounting clamp, loor stand, plastic carrying case



Fig. P 63 S-6, thermostatically controlled

# Electronically controlled for a constant temperature!

Fig. P 63 S-6, electronically controlled

Model	Working range Ø mm	Power watts	Description	$\sqrt{kg}$	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	
P 63 S-6 single unit		800	electronically	1.78	053896X	

P 63 S-6 set thermostatically controlled



#### Heating spigots and sockets (Form A) for P 63 S-6

With high-quality non-stick Teflon coating with a long service life and manufactured according to DVS regulations

Working range Ø mm	∆ g ∆	No.
20	80	53511
25	100	53512
32	170	53513

Secure workbench operation, integrated holder for the table mounting clamp



Working range Ø mm	∆ g ∆	No.
40	260	53514
50	370	53515
63	600	53516



PLASTIC PIPE WELDING TECHNOLOGY



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.

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**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**

#### **APPLICATION AREA**

Universal electrofusion welding unit for PE drainage pipe fittings. For the following makes:

 40 - 160 mm: Geberit, Akatherm-EUR, Coes, Valsir, WAVIN-Duo, Aquatherm and Vulcathene-Euro
 200 - 315 mm: Valsir, Akatherm, Eurofusion, Geberit and Coes

#### **KEY FEATURES**

- Microprocessor controlled welding unit with automatic temperature and voltage compensation
- Icon-based software for intuitve and easy operation
- Visual monitoring of the welding process via large
- illuminated display
- Robust and impact-resistant housing (IP 54)
- Automatic welding parameter detection

# 

#### **TECHNICAL DATA**

Input voltage:	180 - 280 V (230 V)
Frequency:	40 - 70 Hz
Output voltage:	5 A controlled
Protection class:	IP 54
Working range:	up to Ø 160 mm (Sani 160)
	up to Ø 315 mm (Sani 315)
Temperature range:	-5 °C up to + 40 °C
Weight:	2.4 kg (Sani 160)
	3.9 kg (Sani 315)
Dimensions:	110 x 200 x 80 mm
Welding cable:	3 m



#### 90° angeled plugs





230 V fitting	Connection to welding machine	
Pipe Pipe		
	Welding	Finished joint
Model		No.

 ROWELD ROFUSE Sani 160 in ROCASE
 2.4
 1000002630

 ROWELD ROFUSE Sani 315 in ROCASE
 3.9
 1000002631

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

**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:	approx. 21.5 kg
(Basic unit without accessories)	



12

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

**Electrofusion welding** 

# 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 Squeezing device hydraulic	32 - 63 mm 75 - 180 mm	53200 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	53251
Double clamp adjustable	40 mm	53252
Double clamp adjustable	50 mm	53253
Double clamp adjustable	63 mm	53254
Double clamp short	75 mm	53255
Double clamp short	90 mm	53256
Double clamp short	125 mm	53258
Double clamp short	140 mm	53259
Double clamp short	160 mm	53260
Double clamp short	180 mm	53261
Double clamp short	200 mm	53262
Double clamp short	225 mm	53263
Quad clamp	63 mm	53271
Quad clamp	75 mm	53272
Quad clamp	90 mm	53273
Quad clamp	110 mm	53274
Quad clamp	125 mm	53275
Quad clamp	140 mm	53276
Quad clamp	160 mm	53277
Quad clamp	180 mm	53278
Quad clamp	200 mm	53279
Quad clamp	225 mm	53280
Rounded clamp	25 mm	53281
Rounded clamp	32 mm	53282
Rounded clamp	40 mm	53283
Rounded clamp	63 mm	53285
•		

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# **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

#### 110 V YA. 1 115 V 230 V

#### **KEY FEATURES**

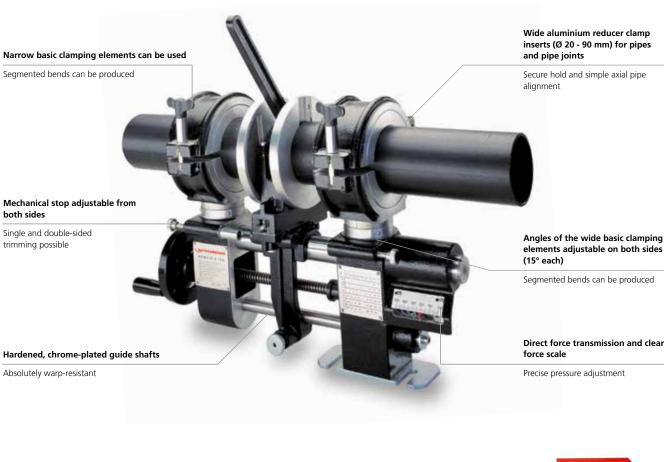
- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

#### **TECHNICAL DATA**

Pipe diameter:
Weight:
Size:

Ρ

Ø 20 - 90 mm (SDR 41 - SDR 7.25) Ø 20 - 110 mm (SDR 41 - SDR 11) 8.5 kg 450 mm total length



12

Rectangular heating element



Joints between fittings and pipes with narrow and wide clamping elements



By adjusting the basic clamping element angles on both sides (15° each side) segmented bends can be produced



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/R, left (No. 55808) (Ø 110 mm), reducer clamping inserts R/R and R/F for Ø 40 - 90 mm, assembly tools, table mounting clamp (No. 55524), transport box (No. 55832)





Model	Working range Ø mm	Temperature control	$\sqrt{kg}$	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD P 110 complete	40, 50, 56, 63, 75, 90, 110	electronically	43	55844	55924

# **Butt welding**

## **ROWELD P 110 basic machine**

Model	$\sqrt{kg}$	No.
ROWELD P 110 basic machine with table mounting bracket	6.8	55787

## **Basic clamping set 110 mm**

Model	$\sqrt{kg}$	No.
For wide/pipe joints (1 set = 2 clamps)	2.5	55807
For narrow/fitting joints, left (1 clamp)	1.0	55808
For narrow/fitting joints, right (1 clamp)	1.0	55809

# **Reduction inserts wide P 110**

Each set includes 4 aluminium half-shells

►O < mm	$\sqrt{kg}$	No.	►O ◄ mm	$\sqrt{kg}$	No.
20	1.9	55318	56	1.6	55122
25	1.9	55126	63	1.4	55121
32	1.8	55125	75	1.6	55120
40	1.7	55124	90	1.1	55119

## **Reduction inserts narrow P 110**

Each set includes 4 metal half-shells

► <b>○</b> ◄ mm	$\sqrt{kg}$	No.	► <b>○</b> ⊲ mm	$\sqrt{kg}$	No.
20	0.6	55319	56	0.5	55130
25	0.6	55134	63	0.5	55129
32	0.5	55133	75	0.4	55128
40	0.5	55132	90	0.3	55127

# **Manual trimmer unit**

Model	$\sqrt{kg}$	No.
With machine holder	1.90	55826
Spare blade (1 set = 2 blades)	0.05	55152

## **Heating plate**

With non-stick Teflon coating, 180 x 130 mm, 800 W

Model	$\sqrt{kg}$	230 V 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled	2.6	55324	55918
Table clamp	0.7	55524	55524

# Flange adaptor clamping unit

For centred welding of flanges

Model	$\sqrt{kg}$	No.
Flange adaptor clamping unit	1.50	55199
Steel carrying case (540 x 345 x 355 mm)	14.20	55832
Hex key SW 6	0.03	321216
Hex key SW 8	0.05	321218













No. 5.5324





**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

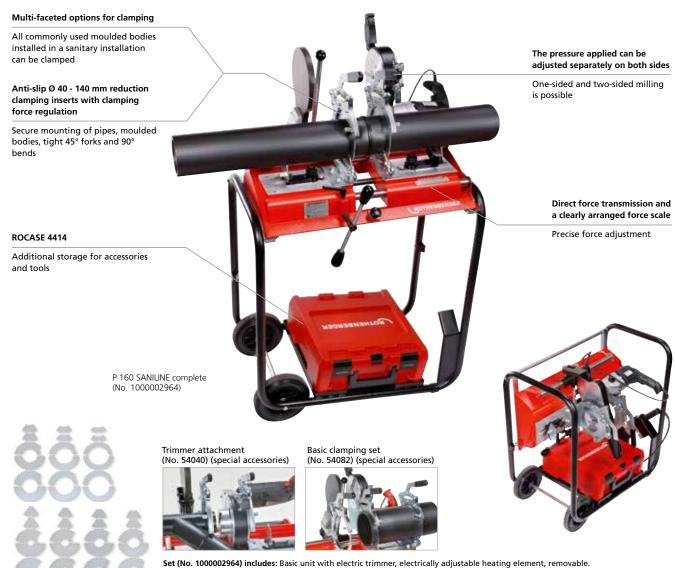
#### ★ 115 V 1 230 V

#### **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 - 140 mm	(SDR 41 - 7.25) (SDR 41 - 11) (SDR 41 - 17.6)
Weight:	34.4 kg	
Heating plate:	800 W	
Trimmer unit:	1,050 W	



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	$\sqrt{kg}$	230 V 50 Hz
ROWELD P 160 SANILINE	40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	1000002964
ROWELD P 160 SANILINE	40, 50, 63, 75, 90, 110, 125, 160 incl. 56 mm insert	electronically	57.5	1000002967

# ROTHENBERGER

# **Butt welding**

# 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

$\sqrt{kg}$	230 V 50 Hz
34.4	54005

# **Reduction inserts P 160 SANILINE**

Set includes: Reducer inserts (4 half-shells), pipe supports

►O Nominal size	$\sqrt{kg}$	No.	► <b>○</b> ◄ Nominal size	$\sqrt{kg}$	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	$\sqrt{kg}$	No.
Trimmer attachment for Ø 40 - 75 mm	0.63	54040

## **Basic clamping set P 160 SANILINE**

(special accessories)

For outer clamping position, especially for welding pressure pipes, includes 2 basic clamps, left and right, up to Ø 160 mm

Model	$\sqrt{kg}$	No.
Basic clamping set Ø 160 mm	5.3	54082

## **ROWELD P 160 SANILINE** Conversion Kit

Converting existing ROWELD P 160 SANILINE with universal clamp system

Set (No. 54080) includes: Basic clamping set Ø 160 mm left and right, (No. 54082) as well as two reducer clamping sets (left and right) for the diameters 40, 50, 63, 75, 90, 110 and 125 mm

Model	Working range Ø mm	$\sqrt{kg}$	No.
Conversion Kit	40, 50, 63, 75, 90	11.20	54080
	110, 125, 160		
Trolley and transpor	t sub-frame	11.30	1000002971
Folding trolley		20.00	56051
ROCASE for reducer	rs	1.70	1000002970
Open-ended spanne	er SW 17 DIN 894	0.05	310411
Trimmer unit blades	75 mm (set = 2 blades)	0.10	55685
Blades 35 mm for tr	immer adaptor	0.01	55686
Heating plate 230 V	//115 V/110 V	1.92	55316 / 55851
Trimmer blade, carbio	de 75 mm (set = 2 blades)	0.05	55684



No. 56051









**Butt welding** 

## **ROWELD P 250 A**

#### Plastic pipe welding machine Ø 40 - 250 mm

#### **Product profile**

#### **APPLICATION AREA**

For use on building sites and in the workshop. Particularly suited for sanitary installations, drain pipe laying as well as chimney reconditioning with PVDF liners

#### **KEY FEATURES**

- Versatile for difficult situations with the removable heating plates
- Protects against unintentional starting and derailing of the trimmer unit
- Single and double-sided trimming possible
- Warp-resistant for minimum drag and low pressure transfer loss

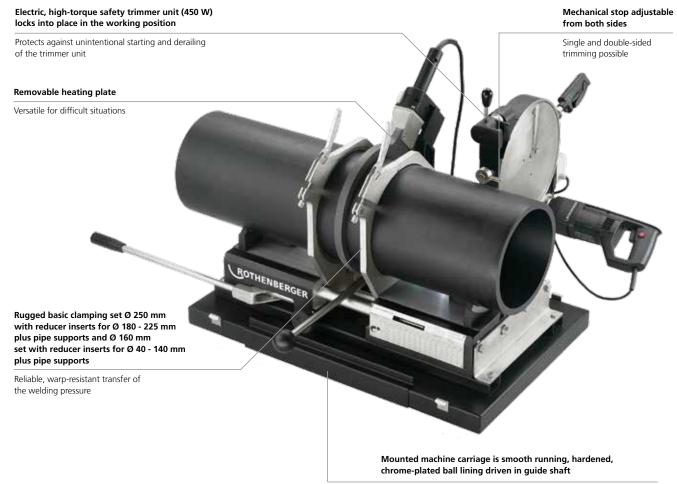
# 230 V 115 V 110 V

#### **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

(SDR 41 - SDR 7.25)
(SDR 41 - SDR 11)
(SDR 41 - SDR 17.6)
(SDR 41 - SDR 26)
(SDR 41 - SDR 33)



Warp-resistant, for minimum drag force and low loss of pressure transfer

Model	Working range Ø mm	Temperature control	$\sqrt{kg}$	230 V 50 Hz
ROWELD P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 2	50 electronically	131.0	55795
ROWELD P 250 A basic mach	ine		36.1	55768

# 262 **ROTHENBERGER**

**Butt welding** 

## **ROWELD P 250 A set Basic machine with trimmer unit**

Set (No. 55795) includes: holder for heating plate, electronically adjustable heating plate, basic clamping set 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

► <b>◯</b> ⊲ mm	$\sqrt{kg}$	No.	► <b>◯</b> ⊲ mm	$\sqrt{kg}$	No.
160	7.25	55742	250	10.10	55717



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	$\sqrt{kg}$	No.	► <b>○</b> ⊲ mm	$\sqrt{kg}$	No.
32	1.89	55753	110	1.26	55746
40	1.89	55752	114	1.20	55745
50	1.81	55751	125	1.06	55744
56	1.83	55750	140	0.80	55743
63	1.75	55749	180	2.46	55721
75	1.68	55748	200	2.03	55718
90	1.50	55747	225	1.41	55719

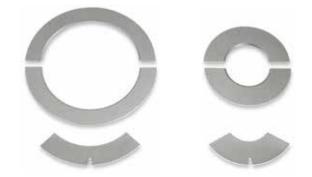
# **Heating plate**

Non-stick Teflon coating. Ø 300 mm, 1,500 W

Model	$\sqrt{kg}$	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
Hex key size 8	0.20	321218	321218
Transport box, protective cover red	25.00	55759	55759
Steel carrying case	2.82	54020	54020











**Butt welding** 

## **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

Flexible

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.

pe	P 160 B	40 -	160 mm
ELD	P 200 B	63 -	200 mm
ment,	P 250 B	90 -	250 mm
welding	P 355 B	90 -	355 mm
ines	P 500 B	200 -	500 mm
ines	P 630 B	315 -	630 mm
	P 800 B	500 -	800 mm
	P 1200 B	710 -1	,200 mm

WORKING RANGE

Model

# The 3rd basic clamping element can be moved flexibly Set P355B No. 1000000383 Control to the set P355B No. 1000000383 Control to the set P355B No. 1000000383

#### Simple operation

Ideally matched components allow precise start-up of the pressure



Fig. similar

Safe

Ømm



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Supply of power for heating element and trimmer unit over Professional Hydraulic (P 160 B-P 355 B)



Electronic control for heating element can be placed flexibly using a magnet (P 355 B)

ROTHENBERGER



Professional Hydraulic with large, easily legible manometer as well as a pressure limiting and pressure relieving valve



The pull-off fixture allows rapid lifting out of the heating element



## **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
P 250 B SA	90 - 250 mm
P 250 B VA	90 - 250 mm
P 355 B SA	90 - 355 mm
P 500 B SA	200 - 500 mm
P 630 B SA	315 - 630 mm

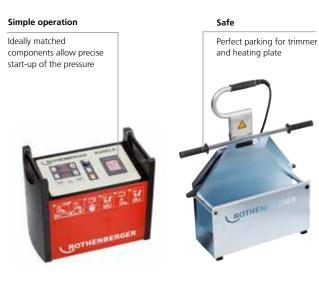
SA = semi-automatic, VA = fully automatic

#### Flexible



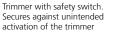
## **TECHNICAL DATA**

Automatic logging: Data output: Languages:	10,000 logs USB interface DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, futher languages available upon request
Welding monitoring:	Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions
Logging:	in accordance to DVS
Welding standards:	DVS, further standards available upon request, manual entry of welding parameters is possible
With CNC function:	During the welding process, all move- ments are performed by the machine, including dragging resistance and bead development measurement. Automatic extending heading element enables a fully-automatic welding process (optional, not available for all machines)



Simple operation via touch control panel







Safe operation – Automatic calculation, control and inspection of the welding parameters



The pull-off fixture allows rapid lifting out of the heating element



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**Butt welding** 

# The new generation of ROWELD hydraulic controls for butt welding

The ROWELD hydraulic unit is available in a **Professional** and **Premium** version. The premium hydraulic unit is divided into **Premium** and **Premium CNC** capacities.

Everything at a glance	Fig. similar	Type Premium CNC
Temperature control	•	•
Pressure reading analogue	•	<u> </u>
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	_	•



Chamfering

# Plastic pipe chamfering unit

With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe



## **KEY FEATURES**

- Flexible in use
- Wall thickness is continuously adjustable

Model	► <b>○</b> ◄ mm	∆g∆	No.
Chamfering unit size 1	16 - 110	720	55050
Chamfering unit size 2	32 - 160	800	55051
Spare blade size 1 and 2		30	55058



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# System overview

	Complete solutions						
	ROKLIMA MULTI 4F	ROCADDY 120 R32 Analogue	ROCADDY 120 R32 Digital				
Refrigerants class A1: (R134a, R410A etc.)	$\checkmark$	$\checkmark$	$\checkmark$				
Refrigerants class A2: (R32, R1234yf etc.)	-	$\checkmark$	$\checkmark$				
CO <sub>2</sub> subcritical (R744):	-	-	$\checkmark$				
System size:	< 24 kW	< 24 kW	< 24 kW				
Page	272 - 273	274	274				

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.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Refrigerants class A2: (R32, R1234yf etc.)	$\checkmark$	$\checkmark$	-	$\checkmark$		
CO <sub>2</sub> subcritical (R744):	$\checkmark$	-	-	$\checkmark$		
System size:	all	all	all	all		

Page

System overview

		Evacuation		
	ROAIRVAC R32 1.5	ROAIRVAC R32 3.0	ROAIRVAC R32 6.0	ROAIRVAC R32 9.0
Refrigerants class A1: (R134a, R410A etc.)	$\checkmark$	$\checkmark$	✓	$\checkmark$
Refrigerants class A2: (R32, R1234yf etc.)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CO <sub>2</sub> subcritical (R744):	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
System size:	< 24 kW	< 74 kW	< 123 kW	> 124 kW
Page	280 - 281	280 - 281	280 - 281	280 - 281

Recovery					
	ROREC	ROREC PRO Digital			
		BOTHENBERGER			
Refrigerants class A1: (R134a, R410A etc.)	$\checkmark$	$\checkmark$			
Refrigerants class A2: (R32, R1234yf etc.)	-	$\checkmark$			
CO <sub>2</sub> subcritical (R744):	-	-			
System size:	< 24 kW	all			
Page	282	283			

**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

ol of the recovery pro

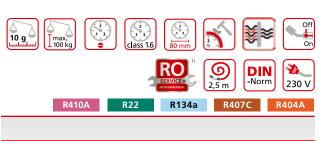
Everything you need within reach

Charging Leakage test

- 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

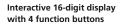
 Final vacuum:
 1 x 10<sup>-2</sup> mbar

 Scale range:
 up to 100 kg

 Resolution:
 10 g

 Pressure hose length:
 2,500 mm

 Pump rating:
 42 l / min



All required parameters can be easily entered

#### 3 different pressure gauges "Pulse-free", class 1.6, 80 mm

Universal use on air-conditioning units with all common refrigerants and operation in the high pressure range with R410A

#### 2 pressure hoses (2,500 mm) from the series "Plus" with ball valve

Safe and comfortable operation with refrigerants without the risk of refrigerant loss

#### Plastic capillary hose

Safe, leak-free filling due to shut-off valve

vacuum pump with 42 l/min suction power For evacuation of the

system in accordance with **DIN 8975** 

Integrated high

Pull-out precision digital scale up to 100 kg

Secure stand for large and small containers



Shock-resistant low pressure and high pressure gauges for various refrigerants



Secure storage of all accessories

ROTHENBERGER

KLIMA MULTI 4F



Pressure hoses: 2.5 m long with shut-off valve



Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces



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

**Complete solutions** 

Automatic evacuation and filling with the ROKLIMA MULTI 4F!

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	\_kg ↓	No.
ROKLIMA MULTI 4F	17.0	1000000138
Reducer pieces 1/4" SAE F - 5/16	" SAE M 0.1	170016

Secure storage of accessories: pressure hoses bottle adaptor, plastic capillary hose



Precision scale up to 100 kg Resolution: 10 g Accuracy: ± 1%



Er	gor	nomi	с, с	.om	pac



Light

13

# **Complete solutions**

## 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) Simple and comfortable transport with

ample room for accessories and small parts

#### **TECHNICAL DATA**

- Electric digital scale ROSCALE 120 with a weight capacity of 120 kg and a measuring accuracy per measurement of 5 g
- 2-stage vacuum pump ROAIRVAC R32 1.5 with integrated vacuum meter and solenoid valve, as well as a pump rating of 42 l/min
- Digital manifold (with ROCADDY 120 R32 Digital) for the automatic calculation of superheat and subcool. More than 80 refrigerants are on file in the unit
- 2 analogue 4-way manifolds (with ROCADDY 120 R32 Analog) for the common refrigerants R22, R134a, R404A, R407C and the high-pressure refrigerant R410A
- Pressure hose sets, each with 3 hoses from the "Plus" series with shut-off valve for safe use with refrigerants
- Pipe cutter TUBE CUTTER 35 and MINICUT II PRO for cutting Ø 6 - 35 mm pipes to length



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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. 150000030), pressure hose set 1/4" SAE each 1,500 mm with ball valve for R22, R32, R134a, R407C (No. 150000028), 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		Perform	nance	∫kg∆		No.
R410A	R22	R134a	R407C	R404	AR	32
ROCADDY	120	42   /	min	20	1000002	2560
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	erformance	$\sqrt{kg}$		No.
R410A	R22	R134a	R407C	R404A	R507	R32
ROCADE	OY 120	4	12 l / min	19	1000	002561
R32 Digi	tal					



**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



All important data at a single glance. Strong backlight for dark environment

Connection for the temperature sensor T1

For automatic measurement of superheat data

Connection for the external vacuum probe

For very precise measurement of the vacuum level directly at the refrigeration system

Pressure sensors "Made in Germany'

Precise measurement from -1 to 60 bar

#### T-connection with Schrader valve 1/4" SAE

3-way function: Evacuation and filling without changing a hose

#### Y-connections 1/4" SAE

A connection and sealing plug in one. Simple transport of hoses when not in operation

Set (No. 100000569) includes: ROCOOL 600, 1 temperature sensor Set (No. 100000570) includes: ROCOOL 600, 2 temperature sensors, carry case Set (No. 100000572) includes: ROCOOL 600, 2 temperature sensors, red box and data viewer software, carry case

Model	No.
Set with 1 temperature sensor (in the blister)	100000569
Set with 2 temperature sensors (in the case) Set with 2 temperature sensors, red box,	1000000570 1000000572
data viewer software (in the case)	100000372

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



#### **TECHNICAL DATA**

ROTHENBERGER

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4 102

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Pressure display: bar, psi, Kpa, MPa Temperature display: °C, °F Vacuum display: Micron, mbar, mmHg, Pa, mTorr Power source: 9 V battery, 550 mAh Screen size: 4.1/3" / 11 cm Pressure measurement range: -1 up to 60 bar Precision (at 22 °C): ± 0.5% fs Temperature measurement range: -50 °C to +200 °C Working temperature: -10 °C to +50 °C 4x 1/4" SAE **Connections:** Max. recording time: 12h (device), 96h (red box)

An absolute all-rounder due to the unique modular system!

#### 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 diameter of up to Ø 32 mm

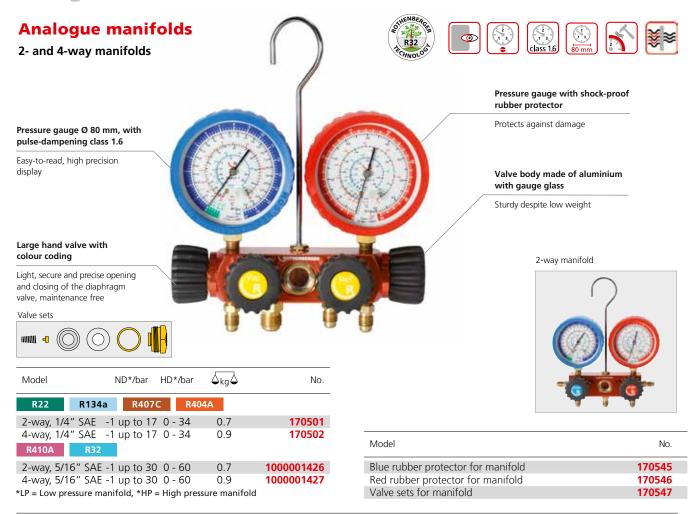


Set (No. 100000539) includes: Red box, data viewer software, connection cable, external power supply

Model	No.
Red box, software, connection cable, external power supply	100000539
Temperature sensor Vac probe	1000000540 1000000541

ROTHENBERGER

**Refrigeration circuit control** 



# **Manifold sets**

#### Manifold sets and pressure hoses

2-way manifold (for 170600 and 170607) 4-way manifold (for 170601, 170606, 170602 and 170608)

Durable and highly precise tool



Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant

Sets include: manifold, pressure gauge with Ø 80 mm, "Pulse-free", class 1.6, 3 x 1,500 mm pressure hoses, plastic carrying case

(;;;)

Model				$\sqrt{kg}$	No.
2-way "S	tandard"				
R22	R134a	R407C	R404A		
Manifold s	set 2-way "	Standard"		2.7	170600
R410A	R32				
Manifold s	set 2-way "	Standard"		2.7	170607
4-way "S	tandard"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way I	"Standard"		2.8	170601
R410A	R32				
Manifold s	set 4-way I	"Standard"		2.8	170606
4-way "P	lus"				
R22	R134a	R407C	R404A		
Manifold s	set 4-way II	"Plus"		2.8	170602
R410A	R32				
Manifold s	set 4-way II	"Plus"		2.8	170608
Plastic carı	ry case			1.4	171505



# **Refrigeration circuit control**

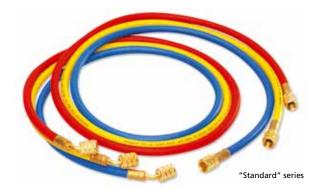
## **3-piece pressure hose sets**

Available in "Standard" and "Plus"

#### **Product profile**

#### **KEY FEATURES**

- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10x longer service life compared to neoprene seal
- Working pressure 60 bar / burst pressure 300 bar. This is an 8% better pressure resistance as previously



#### Pressure hose from the series "Standard"

Model		Connection	ı Lmm	No.
Vacuum h	ose	3/8″ SAE	1,500	150000032
R22	R134a	R407C	R404A	
Set of 3 p	ressure hose	s 1/4" SAE	1,500	150000024
Pressure h	ose yellow	1/4" SAE	1,500	150000025
R410A	R32			
Set of 3 p	ressure hose	s 5/16″ SAE	1,500	150000026
Pressure h	ose yellow	5/16" SAE	1,500	150000027



#### Pressure hose from the series "Plus" with ball valve

Model		Connection	<del>k →</del> L mm	No.
R22	R134a	R407C	R404A	
	ressure hoses lose yellow	1/4" SAE 1/4" SAE	1,500 1,500	1500000028 1500000029
R410A	R32			
	ressure hoses Iose yellow	5/16" SAE 5/16" SAE	1,500 1,500	1500000030 1500000031

R134a R407C

## 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	170604
Tool set Climate II	2.4	170605





No. 170604

Leak testing and locating

## Nitrogen set

#### Multiple uses for refrigeration systems

#### **Product profile**

#### **APPLICATION AREA**

- Pressure and leak test with nitrogen
- Flushing of the installation
- Nitrogen admission during soldering to prevent scale formation

# Ideal for split air-conditioning units and heat pumps!



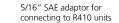
Connection for large bottles

Any size of bottle can be connected without a problem

Spring loaded pressure reducing valve

Simple and safe handling





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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 <sup>3</sup> )		259060
Nitrogen bottle, each 950 cm <sup>3</sup>	6	259008
Filling hose with pressure gauge		259010
Connection 5/16" SAE internal, 1/4" SAE	external	01700RD

Leak testing and locating

## **ROLEAK Pro**

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)

## **Product profile**

#### **KEY FEATURES**

- Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds
- Suitable for R32
- Simple determination of the refrigerant concentration
- Adjustment of the sensor tips zero measurement point for simple detection of the leak
- Reference leak for functionality test included
- Easy accessibility of even hard to reach leaks



TECHNICAL DATA	
Leak status:	LED display
Sensor length:	40 cm
Leak detection rate:	3 g/a within 3 seconds
Weight:	400 g
Working temperature:	0 °C up to 40 °C
Voltage:	6 V (4 AA batteries included)



No. 1500002241

Model	No.
ROLEAK Pro	1500002241
in plastic case	

**Evacuation** 

## **ROAIRVAC R32**

#### Two-stage vacuum pump

For evacuation in accordance with DIN 8975 with vacuum gauge and solenoid valve

## **Product profile**

#### **KEY FEATURES**

- Solenoid check valve to protect the refrigeration system from oil contamination during power outage
- Vacuum gauge with integrated drag indicator enables simple and quick control of the evacuation process
- Protects the integrated components with the light and high-quality casing
- Gas ballast valve for reduction of water vapour in the oil container
- Special filter reduces oil mist on exhaust vent

#### **KEY FEATURES**

- Gauge-glass enables easy oil-stand monitoring
- Fast filling of oil without spilling, no special funnel is necessary

DIN -Norm

230 V

- Easy access to the oil drain plug makes emptying quick
- Thermal switch protects the unit from the motor overheating
- Standard 1/4" SAE connection as well as 5/16" SAE and 3/8" SAE adaptor included in delivery
- Removable cable prevents cable damage









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

**Evacuation** 

## **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 l / min /	3.0 CFM / 85 l / min /	6.0 CFM / 170 I / min /	9.0 CFM / 255 l / min /
	2.5 m³/h	5.1 m³/h	10.2 m³/h	15.3 m³/h
Vacuum stages	2	2	2	2
Final vacuum	15 micron / 0.02 mbar	15 micron / 0.02 mbar	15 micron / 0.02 mbar	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	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Connection	1/4″	1/4"	1/4"	1/4″
with adaptor	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M
Oil capacity	250 ml	330 ml	580 ml	590 ml
Weight	10.1 kg	11.9 kg	17.3 kg	18.4 kg
Manifold Ø	45 mm	50 mm	80 mm	80 mm

# Future-proof product for the increased use of R32 refrigerants





ROAIRVAC R32 1.5 (42 l/min)



ROAIRVAC R32 3.0 (85 l/min)



ROAIRVAC R32 9.0 (255 l/min)

Mineral oil is included in all pump deliveries



ROAIRVAC R32 6.0 (170 l/min)



Scope of delivery ROAIRVAC: vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	$\sqrt{kg}$	No.
Roairvac R32 1.5 Roairvac R32 3.0	42 l/min 85 l/min	10.1 11 9	1000002399 1000002713
ROAIRVAC R32 5.0	170 l/min	17.5	1000002713
ROAIRVAC R32 9.0 Mineral oil 1 litre	255 l/min	18.4	1000002714 169200

ROAIRVAC R32 1.5 - vacuum pump in use with the digital manifold ROCOOL 600



ROTHENBERGER 281

**Recovery and filling** 

## ROREC

#### **Refrigerant recovery device**

Compact, portable device for recovery and recycling refrigerants of all kinds

## **Product profile**

#### **KEY FEATURES**

- 4-pole motor guarantees the durability of the machine
- Low noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Maintenance-free operation through the oil-free compressor
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing

## 230 V

#### **TECHNICAL DATA**

Suitable for:	all refrigerants	all refrigerants of the type CFC-HCFC-HFC	
Capacity:	gaseous:	0.26 kg / min	
	fluid:	1.85 kg / min	
	push/pull:	6.22 kg / min	
Electrical data:	230 V / 50 - 60Hz		
Power:	370 W		
High pressure switch	<b>1:</b> 38.5 bar		
Dimensions:	490 x 244 x 3	53 mm	
Weight:	17 kg		

Oil-free compressor

Maintenance-free operation

Thermal switch

Protects the unit from overheating

Light and compact

plastic casing Simple transport and use

Ideal for mono and multi-split air-conditioning units and heat pumps!

#### Integrated high pressure switch

Protects the integrated components

#### **PURGE** function

Emptying of refrigerant residue in the unit (self-cleaning mode)

#### Simple use

Controlled dosage of the refrigerant supply

#### **RESET Button**

Reset of the pressure shut-off

#### Removable cable

Prevents cable damage

## **Recovery of refrigerant**

Exemplary: Outdoor air-conditioning unit Low High 🚦 High Low 📳 ROREC Filter

Simple and precise reading with the glycol filled pressure gauge



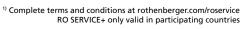
Practical storage compartment for accessories on the back



Model	Connected Load	$\sqrt{kg}$	No.
ROREC	370 W	17.0	168605
Filter		0.12	168713

4-pole motor Increased torque and

service life



**OTHENBERGER** 282

**Recovery and filling** 

## **ROREC PRO Digital**

#### **Refrigerant recovery device**

Lightweight recovery unit for the recovery of refrigerants of the classes A1, A2L and A2 (incl. R32), suitable for all unit sizes thanks to its high recovery rate.

#### **Product profile**

#### **KEY FEATURES**

- Suitable for refrigerants of the classes A1, A2L and A2 (incl. R32)
- Compact design with a weight of less than 12 kg
- Digital display and one-knob control
- Maintenance free operation with the oil-free 2-piston compressor
- 4-pole motor guarantees the durability of the machine
- Automatic shut-off and automatic restart once the pressure increases again
- Emptying of refrigerant residues with the PURGE function

#### **Digital display**

Clearly structured display of the measured pressure values

#### Low pressure switch

Automatic shut-off and automatic restart once the pressure increases again



#### TECHNICAL DATA

Recovery rate:	gaseous: fluid: push/pull:	0.5 kg / min; 30 kg / h 3.5 kg / min; 210 kg / h 9.5 kg / min; 570 kg / h
Power supply:	230 V / 50 - 6	50 Hz
Power:	730 W	
High pressure switch:	38.5 bar	
Product dimensions:	380 x 250 x 3	50 mm
Weight:	12 kg	



#### Oil-free 2-piston compressor

Very high recovery rate with maintenance free operation



Practical storage compartment

Storage of accessories in the back

Shoulder strap for transport over longer distances



Clearly structured digital display



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Model	$\sqrt{kg}$	No.
ROREC PRO Digital	12.0	1500002637
Filter	0.12	168713

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

**Recovery and 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





1	3

Model			No.
R407C	Refrigerant R407C in cardboard p	ackaging	
1   steel b	ottle 1/4" SAE, 850 g	6	170913
2   steel b	ottle 1/4" SAE, 1,700 g	4	170931
R410A	Refrigerant R410A in cardboard pa	ackaging	
1   steel b	ottle 5/16" SAE, 800 g	6	170912
2   steel b	ottle 5/16" SAE, 1,600 g	4	170932
R32	Refrigerant R32 in cardboard packa	aging	
1   steel b	ottle 1/2" SAE, 780 g	6	170960
2   steel b	ottle 1/2" SAE, 1,800 g	4	170961

**Recovery and filling** 

## **ROSCALE 120**

#### **Electronic refrigerant scale**

Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg

## **Product profile**

#### **KEY FEATURES**

- Resolution of 5 g enables very precise filling
- Weight capacity sufficient for all common refrigerant bottles
- Cable connection enables comfortable use in every situation
- Bottle adaptor for connecting small refrigerant bottles (1 | and 2 | 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° C / 14 up to +120° F 1/4" SAE for 1 - 2 lit. bottles Connection: Battery: 9 V 230 x 230 x 53 mm Platform size: Weight: 3.28 kg



Set (No. R17300416) includes: ROSCALE	120, 9 V	/ battery, carryin	g case
---------------------------------------	----------	--------------------	--------

Model	$\sqrt{kg}$	No.
ROSCALE 120	3.28	R17300416

ROSCALE 120 in carrying case



# Accessories

## SANIFRESH

**Deodorising cleaning spray** 



## **Bottle connection and adaptors**

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



<b>Torque wrench set</b>
--------------------------

#### 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



ROTHENBERGER

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 1/2" LEFT - 5/16" SAE M connection	173206
Adaptor, 1/4" SAE M - 3/8" SAE F connection	89501
Adaptor, 3/8" SAE M - 1/4" SAE F connection	89503
Adaptor, 1/4" SAE F - 5/16" SAE M connection	170016
Adaptor 1/4" SAE M - 5/16" SAE E connection	01700RD



Volume

400 ml

No.

85800

# Fix with torque urgently necessary!

with valve trigger

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	$\sqrt{kg}$	No.
Torque wrench set, 7 pcs.	1.7	175001

Accessories

## **Adjustable wrench**

Chrome vanadium steel, drop forged, chrome-plated and polished

#### **Product profile**

∆ g ∆

100

220

390

660

1,170

No.

70441

70443

70445

No.

70442

70444

#### **KEY FEATURES**

⊨L a

mm

160

210

250

300

380

Size

inch

6″

10″

12″

15″

Model

8″

 Precise operation: smooth-running and robust roller with minimum play in the sliding guides

Clamping width

up to mm

20

25

29

34

44

2 E	The contraction of the state

Schrac	ler va	lve tool

For exchanging the Schrader valve on air-conditioners under pressure, without having to recover the unit
For safe and easy change of spring insert of the Schrader valve tool
With safety thread for risk-free use with R410A

**Product profile** 



## **Plate fin comb**

Schrader valve tool in plastic carrying case

<ul> <li>KEY FEATURES</li> <li>For straightening the plate fins of heat-exchangers</li> <li>C different sizes in one tool</li> </ul>	2	Produc
		KEY FEATURES
• 6 different sizes in one tool	changers	<ul> <li>For straightening the plate fir</li> <li>6 different sizes in one tool</li> </ul>

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	1,810	-
R134a (HFKW-chlorine-free refrigerant)	CF3CH2F	0	1,430	-
R32 (HFKW-chlorine-free refrigerant)	CH2F2	0	675	-
R404A (HFKW-chlorine-free blends)	52% R143a, 44% R125, 4% R134a	0	3,922	-
R507 (HFKW-chlorine-free blends)	50% R143a, 50% R125	0	3,985	-
R407C (HFKW-chlorine-free blends)	23% R32, 25% R125, 52% R134a	0	1,774	7.5K
R410A (HFKW-chlorine-free blends)	50% R32, 50% R125	0	2,088	0.2K

ODP = Ozone Depletion Potential (degree in which the ozone layer is destroyed)

GWP = Global Warming Potential (degree in which it contributes to the greenhouse effect)

## Instructions for safe and proper use of the refrigerants:

#### **Refrigerant:**

- Wear protective gloves and safety goggles
- Do not let refrigerant come in contact with skin
- Do not inhale high concentrations of vapours (Lack of oxygen causes a narcotic effect and is a danger to life)
- Do not smoke around refrigerant
- Working place / room must be thoroughly aired, if necessary extracted

#### **Refrigerant bottles:**

- Secure against accidents, do not throw
- Do not expose to direct sunlight and do not place near radiators or other heat sources
- Do not use open flame

- Do not disassemble or remove valves
- Damaged bottles need to be properly returned
- Close empty containers

#### Air-conditioners:

- Air-conditioner leaks need to be repaired immediately
- Do not allow refrigerant to leak while filling or doing maintenance work
- In high concentrations (for example pipe burst), leave the room and do not enter again until it has been properly ventilated
- Only do brazing work together with protective nitrogen gas and only in well ventilated areas

## Flare connections

Normal flare size in accordance with JIS B8607:2008 Flare outer diameter in relationship to the pipe diameter

Pipe outer diameter mm / inch	Metric	Wall thickness mm / inch	Flare outer diameter with R22-, R134a-, R404-, R407C air-conditioners	Flare outer diameter with R410A air-conditioners
6 mm	-	1 mm	8.5 mm	9.1 mm
8 mm	-	1 mm	11.1 mm	11.1 mm
10 mm	-	1 mm	13.6 mm	13.2 mm
12 mm	-	1 mm	15.3 mm	16.5 mm
16 mm	-	1 mm	19.5 mm	19.2 mm
18 mm	-	1 mm	22.0 mm	22.7 mm
1/4″	6.35 mm	0.35″	9.0 mm	9.1 mm
5/16″	7.94 mm	0.35″	11.0 mm	11.1 mm
3/8″	9.52 mm	0.35″	13.0 mm	13.2 mm
1/2″	12.70 mm	0.35″	16.2 mm	16.6 mm
5/8″	15.88 mm	0.35″	19.4 mm	19.7 mm
3/4″	19.05 mm	0.35″	23.3 mm	24.0 mm

## **Refrigeration and air-conditioning technology**

**Conversion table pressure, temperature** 

## **Conversion table pressure**

mbar	Micron	TORR	mm HG Vakuum
10	7,516	7.5	752
5	3,759	3.6	756
2	1,503	1.5	758
1	752	0.75	759
0.5	376	0.36	
0.4	300	0.30	
0.3	225	0.23	
0.2	150	0.15	
0.1	75	0.08	
0.09	68		
0.07	53		
0.06	45		
0.05	38		
0.04	30		
0.03	22		
0.02	15		
0.01	8		

### **Conversion table temperature**

Conversion from °C in °F: °C x 1,8 + 32 = °F Conversion from °F in °C: (°F-32) : 1,8 = °C

°C	°F	°C	°F	°F	°C	°F	°C
100	212	30	86	212	100	70	21
95	203	25	77	200	93	60	16
90	194	20	68	190	88	50	10
85	185	15	59	180	82	40	4
80	176	10	50	170	77	30	-1
75	167	4	39	160	71	20	-7
70	158	0	32	150	66	10	-12
65	149	-10	14	140	60	0	-18
60	140	-20	-4	130	54	-10	-23
55	131	-30	-22	120	49	-20	-29
50	122	-40	-40	110	43	-30	-34
45	113	-50	-58	100	38	-40	-40
40	104	-60	-76	90	32	-50	-46
35	95	-273	-460	80	27	-60	-51
						-112	-80
						-460	-273

## **Common threads**

UNF-Thread	SAE-Thread	Outer diameter (max. mm)	Internal diameter (min mm)	Lodes per inch	Increment (mm)
7/16″ - 20	1/4″	11.079	9.738	20	1.270
1/2″ - 20	5/16"	12.667	11.328	20	1.270
5/8" - 18	3/8″	15.839	14.348	18	1.411
3/4" - 16	1/2″	19.012	17.330	16	1.588
7/8″ - 14	_	22.184	20.262	14	1.814
7/8″ - 14	5/8″	22.184	20.262	14	1.814
1″ - 14	3/4″	25.357	23.437	14	1.814
11/16″ - 14	-	26.947	25.024	14	1.814
11/8″ - 12	_	28.529	26.284	12	2.117
11/4″ - 12	7/8″	31.704	29.459	12	2.117
13/8″ - 12	-	34.877	32.634	12	2.117
11/2″ - 12	1 ″	38.052	35.809	12	2.117





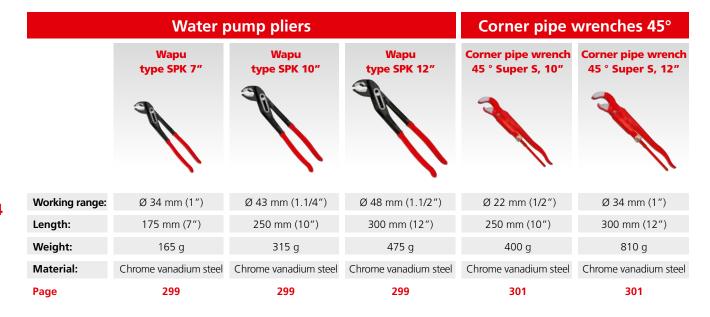


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Hammers, chisels, punchs	326
Vices	327
Workbenches	328
General aids and tool bags	329 - 330
Case system	331 - 333

## System overview

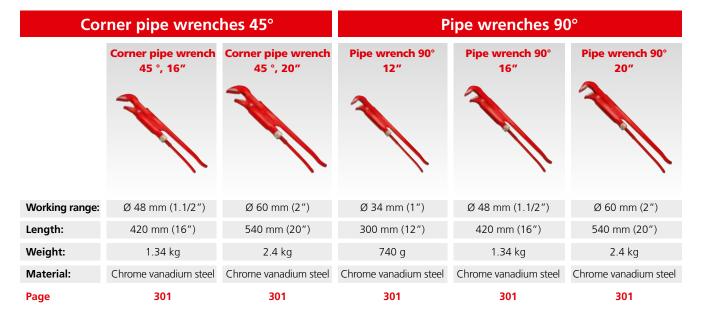
	ROGRIP pliers						
	ROGRIP M 7" 1K	ROGRIP M 7″ 2K	ROGRIP M 10" 1K	ROGRIP M 10" 2K	ROGRIP F 7" 1K	ROGRIP F 7" 2K	
	A	A.	N	N	A.	A.	
Working range:	Ø 43 mm (1.1/4")	Ø 43 mm (1.1/4")	Ø 60 mm (2")	Ø 60 mm (2")	Ø 43 mm (1.1/4")	Ø 43 mm (1.1/4")	
Length:	185 mm (7")	185 mm (7")	254 mm (10")	254 mm (10")	185 mm (7")	185 mm (7")	
Weight:	245 g	255 g	490 g	490 g	215 g	227 g	
Material:	Chrome vanadium steel						
Page	296	296	296	296	296	296	
ROGRIP pliers				Wa	ater pump pli	ers	





System overview

Corner pipe wrenches 45°								
	Corner pipe wrench 45° Super S, 16"	Corner pipe wrench 45° Super S, 20"	Corner pipe wrench 45° Super S, 24"	Corner pipe wrench 45°, 10"	Corner pipe wrench 45°, 12"			
	J.	J.	Je e					
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	301	301	301	301	301			



Pipe wrenches 90°			One-handed pipe wrenches HEAVY DUTY		
	Pipe wrench 90°	Pipe wrench 90°	HEAVY DUTY 6"	HEAVY DUTY 8"	HEAVY DUTY 10"
	24"	36"	Contraction of the second seco		The second
Working range:	Ø 89 mm (3")	Ø 114 mm (4")	Ø 22 mm (1/2")	Ø 32 mm (1")	Ø 48 mm (1.1/2")
Length:	640 mm (24")	750 mm (36")	152 mm (6")	200 mm (8")	250 mm (10")
Weight:	3.4 kg	5.6 kg	250 g	400 g	780 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	301	301	302	302	302

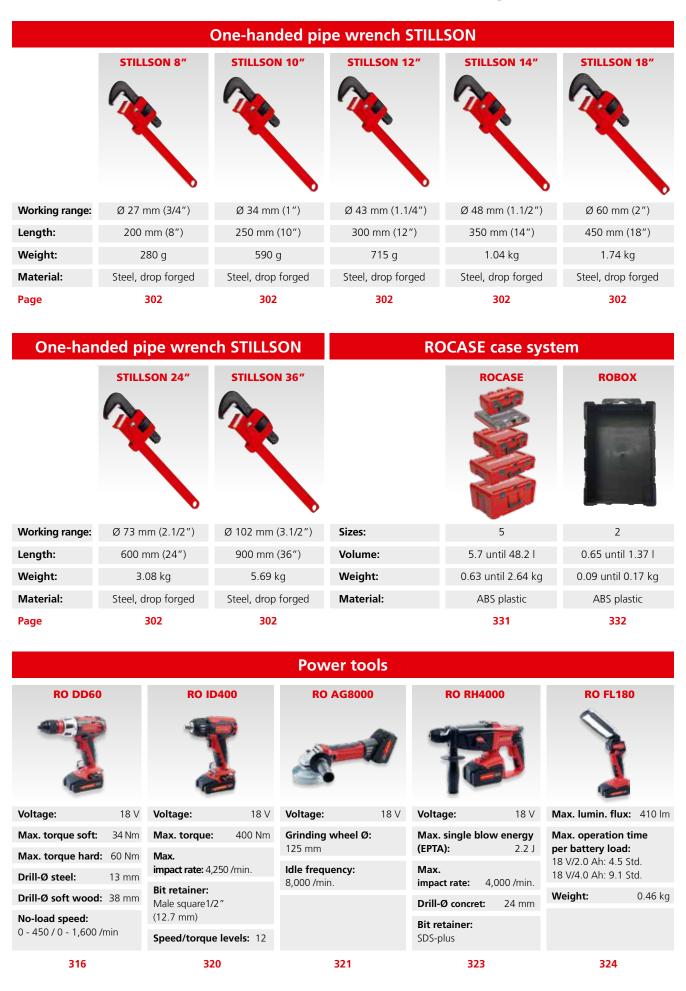
# System overview

	0	ne-handed pipe	wrench HEAVY	DUTY	
	HEAVY DUTY 12"	HEAVY DUTY 14"	HEAVY DUTY 18"	HEAVY DUTY 24"	HEAVY DUTY 36
			2		
Vorking range:	Ø 60 mm (2")	Ø 60 mm (2")	Ø 73 mm (2.1/2")	Ø 89 mm (3")	Ø 141 mm (5")
ength:	300 mm (12")	350 mm (14")	450 mm (18")	600 mm (24")	900 mm (36")
Veight:	1.25 kg	1.68 kg	2.67 kg	4.32 kg	7.5 kg
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium st
age	302	302	302	302	302
One-hand	led pipe wrench	HEAVY DUTY	One-hand	ded pipe wrench	1 ALUDUR
	HEAVY DUTY 48"	HEAVY DUTY 60"	ALUDUR 10"	ALUDUR 14"	ALUDUR 18"
			0	0	2
			( <b>*</b>	~~ <b>~</b>	2
			<u> </u>	1	
	0	0	0	0	
Norking range:	Ø 168 mm (6")	Ø 203 mm (8")	Ø 48 mm (1.1/2")	Ø 60 mm (2″)	Ø 73 mm (2.1/2"
ength:	1,200 mm (48")	1,300 mm (60")	250 mm (10")	350 mm (14")	450 mm (18")
Weight:	15.8 kg	24 kg	480 g	990 g	1.63 kg
Material:	Chrome vanadium steel	Chrome vanadium steel	Aluminium	Aluminium	Aluminium
age	302	302	302	302	302
	One-ha	nded pipe wren	ch ALUDUR		Pliers wrenc
	ALUDUR 24"	ALUDUR 36"	ALUDUR 48"	ALUDUR 60"	ROFAST
	G	9	9	()	4
	· · · ·	· · · ·	· · · ·	· · · ·	1 St
	0	V	0	V	
Working range:	Ø 89 mm (3")	Ø 141 mm (5")	Ø 168 mm (6")	Ø 200 mm (8")	Ø 50 mm (1.7/8″
enath.	600  mm (24'')	900  mm (36'')	1.200  mm (48'')	1 300 mm (60")	254 mm (10")

Page	302	302	302	302	304
Material:	Aluminium	Aluminium	Aluminium	Aluminium	Chrome vanadium steel
Weight:	2.51 kg	5 kg	8.42 kg	14.6 kg	580 g
Length:	600 mm (24")	900 mm (36")	1,200 mm (48")	1,300 mm (60")	254 mm (10")
Working range:	Ø 89 mm (3")	Ø 141 mm (5")	Ø 168 mm (6")	Ø 200 mm (8")	Ø 50 mm (1.7/8")

# 294 **ROTHENBERGER**

System overview



ROTHENBERGER 295

## Pliers

### **ROGRIP M**

#### Quickly adjustable water pump pliers

#### **KEY FEATURES**

- **Durable:** Due to double hardening, the teeth are particularly wear-resistant
- Slip-resistant: The shape of the teeth (self-locking), the 3-touchpoint grip on the pipe and the soft-touch handle, prevent slipping of the pliers

Working range

1.1/4"

1.1/4"

2″

2″

6

6

6

6

• 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

### Double hardened jaws

#### 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 grip with two handle versions

#### Wide handles

No.

1000002697

1000002698

1000002699

1000002700

More comfort and better power transmission

ROTHENBERGER Curve-Shape-Design 7" pliers grip like 10" pliers!

## **ROGRIP F**

ROGRIP M 7" 1K

ROGRIP M 7" 2K

ROGRIP M 10" 1K

ROGRIP M 10" 2K

Model

#### Quickly adjustable water pump pliers

### **KEY FEATURES**

- **Durable:** Due to double hardening, the teeth are particularly wear-resistant
- Slip-resistant: The shape of the teeth (self-locking), the 3-touchpoint grip on the pipe and the soft-touch handle, prevent slipping of the pliers
- Large gripping capacity: 30% more gripping capacity\*: 10" pliers up to 2" pipe diameters
- Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment

Curve-Shape-Design: especially ergonomic



ROGRIP F 10" 2K



2″

ROTHENBERGER

6

 Model
 Working range

 ROGRIP F 7" 1K
 1.1/4"

 ROGRIP F 7" 2K
 1.1/4"

 ROGRIP F 10" 1K
 2"

#### Double hardened jaws

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 grip with two handle versions

#### Wide handles

No.

1000002701

1000002702

1000002704

1000002705

More comfort and better power transmission

#### ROTHENBERGER Curve-Shape-Design 7" pliers grip like 10" pliers!

Safety lock system

Prevents unintentional opening and enables a 50% quicker adjustment

Pliers

## **ROGRIP XL**

#### Quickly adjustable water pump pliers

### **KEY FEATURES**

- 16" pliers up to 3.1/2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- 14 point size adjustment

#### **TECHNICAL DATA**

- Chrome vanadium steel tempered, drop forged with heavy-duty box joint
- Polished head and joint
- Double hardened jaws, extremely durable

Enourmos gripping width of 3.1/2" reliable grip during application



## **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



14

**Increased safety:** 

**Plastic covered handles!** 

## Water pump pliers type SPK

#### **KEY FEATURES**

• Features similar to type SP, additionally with plastic covered handles



**Pliers** 



∎ inch	⊾ mm	► <b>○</b> • max. inch	►O max. mm	∆ <sub>g</sub> ∆		No.
7″	175	1″	34	165	6	70521
10″	250	1.1/4″	43	315	6	70522
12″	300	1.1/2″	48	475	6	70523
10″	Counte	er display (1	2 pcs.)			070522D

## **Grooved water pump pliers CL**

Chrome vanadium steel, chrome-plated, drop forged, tempered, polished head and sliding joint, even jaws, in compliance with DIN 5231  ${\rm E}$ 

### **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



▶ <b>∟</b> inch	<mark>⊫∟</mark> ∎ mm r	► <b>○</b> ◄ nax. inch	► <b>○</b> ◄ max. mm	ΔgΔ		No.
9.1/2″	245	1.1/2″	48	330	1	70591
12″	300	2″	60	560	1	70592
16″	420	4″	114	1,150	1	70593







## **Pliers sets**

## **ROBOX pliers sets 9**

#### 3-part pliers sets for holding and turning of diverse types of pipes

**3-part set (No. 1000002188) includes:** corner pipe wrench 45°, SUPER S, 1" (No. 070122X), ROGRIP M 10" 1K (No. 1000002699), ROGRIP M 7" 1K (1000002697), ROBOX B2650 (No. 1000002763)

3-part set (No. 1000002189) includes: one-handed pipe wrench ALUDUR, 14" (No. 70160), ROGRIP M 10" (No. 100002699), ROGRIP M 7" 1K (1000002697), ROBOX B2650 (No. 1000002763)

For the individual pliers see 296 - 305

Model	<b>∆</b> kg <b>∆</b> No.
Pliers set w/ corner pipe wrench, ROBOX (3 pcs.)	1.6 <b>1000002188</b> *
Pliers set w/ ALUDUR, ROBOX (3 pcs.)	1.7 <b>1000002189</b> *
	* ROBOX system p. 332



### **Professional sets**

#### Practice-oriented set of pipe wrenches and pipe cutter

3-part set (No. 070130X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), pipe wrench 2" (No. 070124X)

4-part set (No. 070135X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528), TUBE CUTTER 35 (No. 70027)

3-part set (No. 070140X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528)

11	

No. 070135X

No. 070130X

Model	$\Delta_{kg}\Delta$	No.
Set 1 - 1.1/2 - 2"	5.0	070130X
Set 2 - 1.1/2" + wapu SP 10" + TC35	3.1	070135X
Set 3 - 1.1/2" + wapu SP 10"	2.7	070140X

## **ROGRIP** pliers sets

The quickly adjustable water pump pliers generation **ROGRIP** is available as practice-oriented sets in two 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. 1000002697), ROGRIP M 10" 1K (No. 1000002699), ROGRIP XL 16" (No. 1000000328)

Model No. ROGRIP set M 7" 1K + M 10" 1K 6 ROGRIP set M 7" 1K + M 10" 1K + ROGRIP XL

ROTHENBERGER





No.1000001039

No.1000001068



Pliers

## Corner pipe wrench 45°, SUPER S

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### **KEY FEATURES**

- Self-clamping: 3-point clamping ensures reliable and firm grip even on smooth pipes
- Reliable grip and non-slip with teeth set against turning direction, induction hardened
- Double-T profile jaws, ideal for clamping different material forms, enables universal application



► <b>○</b> ◄ Inch	► <b>○</b> ◄ mm	⊾_ Inch	⊫ <b>∟</b> mm	∆ <sub>g</sub> ∆		No.
1/2″	22	10″	250	400	6	070121X
1″	34	12″	300	810		070122X
1.1/2″	48	16″	420	1,440		070123X

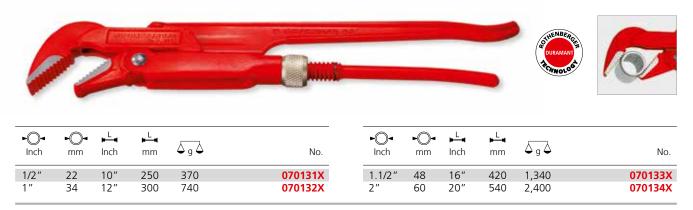
► <b>○</b> - Inch	► <b>○</b> • mm	⊾_ Inch	⊾L mm	∆ <sub>g</sub> ∆	ð	No.
2″	60	20″	540	2,440	1	070124X
3″	89	24″	640	3,400	1	70125

## Corner pipe wrench 45°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 45° angled

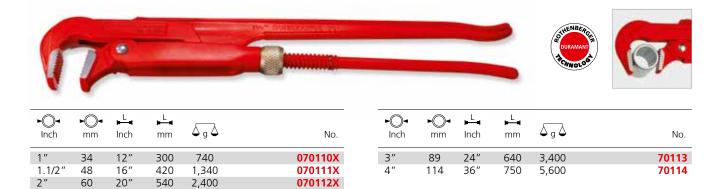


## Pipe wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### **KEY FEATURES**

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



# ROTHENBERGER 301

## **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	$\sqrt{kg}$	No.
One-handed pipe wrench	0.33 <b>10000</b>	02194*
HEAVY DUTY 6", ROBOX 5	* ROBOX syst	em p. 332

## **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 II class A

						_	_	_
∎∎ Inch	∎ <mark>∟</mark> ∎ mm	►O- Inch	► mm	$\sqrt{kg}$		No. pliers	No. hook	No. jaws
6″	160	3/4"	26	0.25	1	70148	70199	70189
8″	200	1″	32	0.40	1	70150	70200	70190
10″	250	1.1/2″	48	0.78	1	70151	70201	70191
12″	300	2″	60	1.25	1	70152	70202	70192
14″	350	2″	60	1.68	1	70153	70203	70193
18″	450	2.1/2"	73	2.67	1	70154	70204	70194
24″	600	3″	89	4.32	1	70155	70205	70195
36″	900	5″	141	7.5	1	70156	70206	70196
48″	1,200	6″	168	15.80	1	70157	70207	70197
60″	1,300	8″	203	24.00	1	70158	70208	70198



US-norm GGG-W-651 type I class B

US-norm GGG-W-651

type I class B



∎ <sup>⊥</sup> ∎ Inch	⊫ mm	► <b>○</b> - Inch	► <b>○</b> ◄ mm	$\overline{\bigtriangleup_{kg}} \overline{\bigtriangleup}$		No. pliers	No. hook	No. jaws
10″	250	1.1/2″	48	0.48	1	70159	70201	70191
14″	350	2″	60	0.99	1	70160	70203	70192
18″	450	2.1/2"	73	1.63	1	70161	70204	70194
24″	600	3″	89	2.51	1	70162	70205	70195
36″	900	5″	141	5.00	1	70163	70206	70196
48″	1,200	6″	168	8.42	1	70168	70207	70197
60″	1,300	8″	203	14.60	1	70169	70208	70198

## One-handed pipe wrench STILLSON

#### KEY FEATURES

#### • Features similar to **HEAVY DUTY**

- Hardened adjustment nut presses onto the handle during use and prevents undesired readjustment
- Optimised double-spring construction guarantees quick and firm self-clamping, ensuring secure hold even on smooth pipes



∎ <sup>⊥</sup> ∎ Inch	∎ <mark>⊥</mark> ∎ mm	► <b>○</b> ◄ Inch	► <b>○</b> ◄ mm	$\sqrt{kg}$		No. pliers	No. hook
8″	200	3/4"	27	0.28	1	70350	70374
10″	250	1″	34	0.59	1	70351	70375
12″	300	1.1/4″	43	0.72	1	70352	70376
14″	350	1.1/2″	48	1.04	1	70353	70377
18″	450	2″	60	1.74	1	70354	70378
24″	600	2.1/2″	73	3.08	1	70355	70379
36″	900	3.1/2"	102	5.69	1	70356	70380



## **Pliers**

## One-handed pipe wrench OFFSET PATTERN HEAVY DUTY

### **KEY FEATURES**

- Offset wrench head is ideal for working in confined spaces (e.g. near to the wall)
- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of pipe Ø using scale on hook
- Wearing parts replaceable: hook and heel jaw can be purchased separately

⊾ Inch	∎ <b>⊥</b> ∎ mm	► <b>○</b> ◄ Inch	► <b>○</b> ◄ mm	$\sqrt{kg}$	No. pliers	No. hook	No. jaws
						70201 70203	

## One-handed corner pipe wrench 90°

### KEY FEATURES

### Features similar to HEAVY DUTY

• Weight savings of approx. 40%: extremely light, high strength aluminium alloy

⊾ Inch	<mark>⊧⊢</mark> ∎ mm	► <b>○</b> ◄ Inch	► <b>○</b> ◄ mm	$\sqrt{kg}$	No. pliers	No. hook	No. jaws
14″	350	2″	60	890		70203	
18″	450	2.1/2″	73	1,490	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

► <b>○</b> ◄ max. Inch	► <b>○</b> ◄ max. mm	∎ Inch	<mark>⊾∟</mark> mm	∆ g ∆		No.
4″	115	12″	300	780	1	70235

## **Chain pipe wrench HEAVY DUTY**

Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable

#### **KEY FEATURES**

- Strong chain made of tempered special steel fits every cross-section
- Double-sided tooth system for ratchet-like use, for right and left-handed operation

► <b>○</b> - max. Inch	► <b>○</b> ◄ max. mm	jaws width mm	⊫ <b>∟</b> mm	\[ \] kg \]	No. pliers	No. jaws
1.1/2″	48	38	350	1.4	70242	70571
2.1/2"	73	52	690	3.5	70243	70572
4″	114	63	940	6.7	70244	70573
6″	168	78	1,120	12.6	70245	70574
8″	220	80	1,280	17.2	70246	70575
12″	324	84	1,630	24.2	70247	









Model	\[ _kg \]	No.
Spare chain HEAVY DUTY 2.1/2"	0.95	70263
Spare chain HEAVY DUTY 4"	1.40	70264
Spare chain HEAVY DUTY 6"	2.80	70265
Spare chain HEAVY DUTY 8"	3.40	70266
Spare chain HEAVY DUTY 12"	5.10	70267



## **Pliers**

## Fittings wrench 90°

Special chrome vanadium steel, steel forged

#### **KEY FEATURES**

- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
- High-quality DURAMANT surface coating



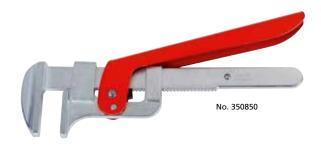


Plastic jaws, gentle grip!

► <b>○</b> ◄ max. Inch	► <b>○</b> ◄ max. mm	⊾ Inch	<mark>⊾∟</mark> ∎ mm	∆ <sub>g</sub> ∆		No.
1″	35	14″	356	740	1	70545
Plastic jav	VS			10		70548

## **Fitting key**

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces





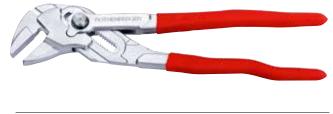
Model	⊫ <b>⊥</b> ⊂I mm	amping widt mm	h and depth mm	<b>∆</b> g∆	No.
	260	75	45	690	350850
	275	65	45	780	350900

## **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



► <b>○</b> ◄ max. Inch	►O max. mm	∎ <b>∟</b> ∎ Inch	⊫ <b>∟</b> mm	∆ g ∆	No.
1.7/8″	50	10″	254	580	1500003170

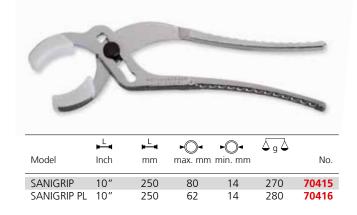
## **SANIGRIP/SANIGRIP PL**

#### Valve pliers PL

Special chrome vanadium steel, drop forged, chrome-plated, 4 adjustable sizes at joint, with toothed grip jaws. SANIGRIP PL designed with plastic jaws to protect fittings

#### 14

- **KEY FEATURES**
- Secure and gentle grip on valuable fittings without damaging polished surfaces
- Optimum grip is ideal for plastic screw joints up to Ø 62 mm (siphon)



# ROTHENBERGER

## Pliers

## Sealing grip pliers

- Chrome vanadium steel, nickel-plated, tempered, hardened jaws
- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes Ø 4 16 mm and hoses
- With leverage and quick-release lever, adjustable and lockable



⊾ Inch	<mark>⊫⊸</mark> ∎ mm	Jaw width mm	∆ <sub>g</sub> ∆	No.
10″	250	4 - 16	490	70250



## 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

<mark>⊾_</mark> ∎ Inch	<mark>⊨∟</mark> mm	Jaw width mm	∆ g ∆	No.
11″	280	95	840	70257

## EASYGRIP

#### Automatic strap wrench for plastic pipes Ø 20 - 160 mm (3/4 - 6")

The indispensable tool for socket welding large diameter plastic pipes

#### **KEY FEATURES**

- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap

Model	► <b>○</b> - mm	► <b>○</b> ◄ Inch	$\sqrt{kg}$	No.
EASYGRIP Spare strap EASYGRIP	20 - 160	6″	1.0 0.1	55075 55076

## Strap and fittings wrench

Made of aluminium special alloy, with replaceable nylon strap

#### **KEY FEATURES**

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)

F)-	F)4	⊫⊥∎	⊧4		
Inch	mm	Inch	mm	$\Delta$ g $\Delta$	No.
3″	89	12″	300	280	70240
Spare stra	р 3″			20	70268
8″	220	12″	300	290	70241
Spare stra	p 8″			30	70269



Centred prismatic support



## **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	∆ g ∆		No.
Set: UNI stepped key and ratchet	670	10	73297
UNI stepped key	120		73298
Gas stepped key	80		73280
1/2" ratchet	440		27180

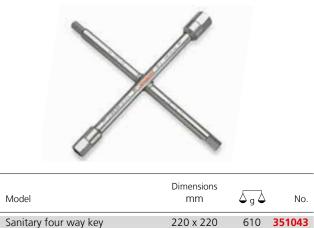


## Sanitary four way key

### Chrome vanadium special steel

#### **KEY FEATURES**

- Four external hexagonal 3/8", 1/2", 3/4", 1" up to 100 mm and installation / removal of heating valves and tank connectors
- Three inner threads M8, M10 and M12 for hanger bolts



Sanitary four way key 220 x 220 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	∆ <sub>g</sub> ∆	No.
Sanitary four way key multifunctional	220 x 220	590	351044



## Installation wrenches

## **RO-QUICK**

#### Valve key

Release valve holder and key for eccentric and standard valves





## 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)

#### **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	<mark>⊨⊥</mark> ⊲ mm	∆g ∆	No.
RO-QUICK set			70439
RO-QUICK valve key	120	300	70414
Adaptor	75	70	70413

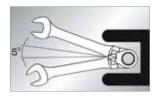
Small operating radius of only 5°!



Fig. ROCLICK wrench set



Small 5° operating radius



Adjustable inclination angle



7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	∆ <sub>g</sub> ∆		No.
ROCLICK spanner set, 7 pcs.	1,150	1	70490

## **Installation wrenches**

### **Torque wrench set**

#### For proper tightening of flange connections

Set with adjustable torque wrench (10-70 Nm) and 6 spanner inserts sizes 17, 22, 24, 26, 27 and 29 mm for flange connections on 1/4", 3/8", 1/2" and 5/8" pipe lines according to DIN EN 378-2:2012-08



## **Ratchet spanner ROCLICK**

Chrome vanadium, head black atramentized



Model	Key width mm	<b>⊨</b> –∎ mm	۵ <sub>g</sub> ۵	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

## **Ring ratchet spanner**

Chrome vanadium steel, drop forged, chrome-plated



ROTHENBERGER

Fix with torque urgently necessary!



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

7-part set (No. 1750.01) includes: spanner wrench sizes 17 - 22 - 24 - 26 - 27 - 29 mm, torque wrench, carrying bag

Model	∆kg∆	No.
Torque wrench set, 7 pcs.	3.5	175001

### **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	⊫ <b>∟</b> mm	∆ <sub>g</sub> ∆	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

#### **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	∆ <sub>g</sub> ∆		No.
12 x 14 mm	230	200	1	70271
13 x 17 mm	250	280	1	70272
19 x 22 mm	310	440	1	70274
24 x 27 mm	360	700	1	70276

14

**Installation wrenches** 

## **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	<mark>⊫∟</mark> ∎ up to	Clamping width	∆ <sub>g</sub> ∆	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

## **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

## SWO adjustable wrench

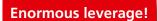
Chrome-vanadium steel, chrome-plated and polished finish

#### **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)	∆ g ∆	No.
6″	176 mm	34 (1.3/8")	205	1500001509
8″	216 mm	39 (1.1/2")	345	1500001510









⊫≟⊲	⊧──╡	Clamping width	Clamping width	∆ <sub>g</sub> ∆	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

⊨L_	⊫∟∎	Clamping width	Clamping width	∆ <sub>g</sub> ∆	No.
255 mm	10″	SW 16 - 33	3/8 - 1″	340	70222
310 mm	12″	SW 22 - 42	1/2 - 1.1/4″	520	70223

## **ROTHENBERGER** 309

**Screwdrivers** 

## EUROLINE

#### Screwdrivers

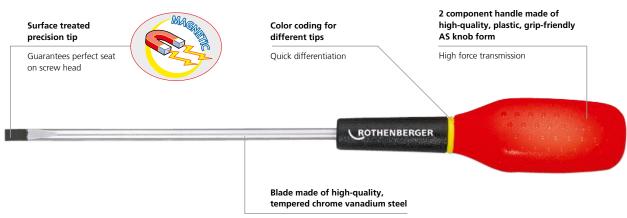
### **Product profile**

#### **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



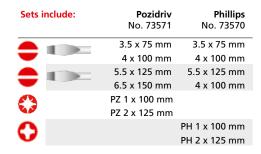
High torque proof



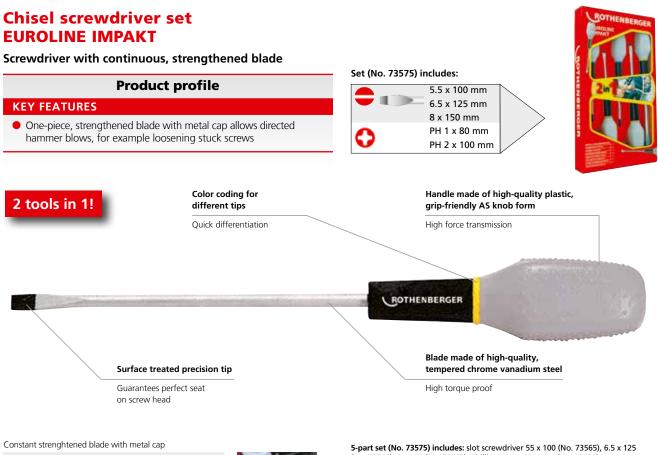
## **Screwdrivers sets**

ROTHENBERGER

Model	$\sqrt{kg}$	No.
Screwdriver set Pozidriv	0.70	73571
Screwdriver set Phillips	0.70	73570



**Screwdrivers** 





(No. 73566), 8 x 150 (No. 73567), Phillips PH 1 x 80 mm 1 (No. 73536), PH 2 x 100 mm (No. 73537)

Model	۵ <sub>و</sub> ۵	No.
Chisel screwdriver set EUROLINE IMPAKT, 5 pcs.	950	73575

## **VDE screwdriver set**

Blades made of chrome vanadium molybdenum steel, thoroughly hardened, extrusion-coated blade insulation tightly joined with handle, 1,000 Volt



Model	∆ <sub>g</sub> ∆	No.
VDE screwdriver set, includes:	680	323126
Slot 2,5 x 75; 4,0 x 100; 5,5 x 125; 6,5 x 150		
Phillips PH 1 x 80; PH 2 x 100 and live-wire-tester		



## **Installation aids**

## ROCHECK

#### Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

#### **KEY FEATURES**

- With horizontal and head levels
- One side with 1/2" external screw thread





#### Spirit level for standard distances

Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

#### **KEY FEATURES**

• For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm



Exact installation by assembling jig for braces



**4-part set (No. 70667) includes:** spirit level for angled valves 200 mm (No. 70661), spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

Model	<b>∆</b> g <b>∆</b>	No.
ROCHECK set in steel case	2,260	70667
ROCHECK spirit level for angled valves 200 mm	220	70661
ROCHECK spirit level for standard distances 300 n	nm 260	70665

## **Cartridge extractor set**

Simple extraction of cartridges in taps



### **KEY FEATURES**

- Simple extraction of cartridges in taps
- 4 adaptors with hook, threaded rod, screw or rivet adaptor for cartridges made before 1979, starting in 1979 and MOEM cartridges, as well as extraction tools

#### Simple use:

Screw the appropriate cartridge extractor on the threaded rod, attach to the cartridge, guide the cartridge body and counter piece over the thread rod, rotate the t-handle and pull the cartridge out of its seat.

Set (No. 854390) includes: T-handle (No. 854380), screw 12 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	Δ <sub>g</sub> Δ	No.
9-part set	1,250	854390





**Installation aids** 

## **Standard spirit level**



N	EI		UK	ES

- 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	<b>⊢</b> u mm	∆ <sub>g</sub> ∆	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

BOTHENBERGER	
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Model	ng length M	Tape width mm	ΔgΔ	No.
Tape measure ROM/ Folding ruler, woode	5 2	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	e Clamping range Inch	<mark>⊾L</mark> mm	∆ <sub>g</sub> ∆		No.
19 - 32	3/4" - 1.1/4"	235	475	1	70228

# ROTHENBERGER 313

**Installation** aids

## **Electrical power combination pliers**

- Equipped with an integrated ring spanner for M8 and M10 nuts/screws
- Inductive hardened blade to ensure a higher service life
- Asymmetric grip function can be used to grab round or flat materials



## **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



## A 1000 V

<mark>⊫∟</mark> ∎ mm	∆ <sub>g</sub> ∆	No.
180	230	1500003167

## **Electrical long nose pliers**

- Inductive hardened blade to ensure a higher service life
- Integrated M10 ring spanner to tighten/loosen nuts and screws
- Grab wires precisely, the serrated gripping surface ensures a tight, firm grip



**1000 V** IEC 60900

14

L mm	∑ g ∆	No.
200	200	1500003168

## **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	∆ <sub>g</sub> ∆	No.
180	210	1500003164

## **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 cutHigh cutting performance suitable for piano wire





	~	
200	300	1500003166

## **Ergonomic electrical installation pliers**

- Integrated stripping function, ring spanner and gripping zone for flat and round material
- Multi purpose tool makes lots of other tools obsolete
- Angled design enables low-fatigue working



**ROTHENBERGER** 



**Installation aids** 

## **Telescopic basin nut wrench**

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation

2	1 4	Conversion				
Ø	Telescopic at 4x adjustabl					
Clamping range mm	Clamping range Inch	<mark>⊫∟</mark> ∎ mm	∆ g ∆	No.		
10 - 32 20 - 48 32 - 63	3/8 - 1.1/4" 3/4 - 1.7/8" 1.1/4 - 2.1/2"	275 - 455 290 - 470 290 - 470	710 740 780	70225 70226 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> </u> Inch	⊫ <mark>∟</mark> mm	Sheet thickness mm	∆ g ∆	No.
10″	250	1.0	450	71095

### **Basin nut pliers**

Special chrome vanadium steel, drop forged, coated with adjustment screw



**Drill driver** 

## **RO DD60 cordless drill driver**

The RO DD60 can be used as drill and screwdriver

#### **KEY FEATURES**

- Quick change of bit retainer and bits, for flexible working
- Spindle with hexagonal recess for screwdriver bits for working without chuck
- Precise working conditions thanks to integrated working light for illuminating the contact area
- Handy belt hook and bit holder can be fixed either on the right or left side

### **TECHNICAL DATA**

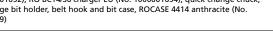
Batteryvoltage: 18 V Max. torque: 34 Nm / 60 Nm Weight with battery pack: 1.9 kg Drill-Ø steel: 13 mm Drill-Ø soft wood: 38 mm



with charge indicator to control the status of charge

> Set (No.1000001647) includes: RO DD60 drill driver, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 100001654), quick change chuck, quick change bit holder, belt hook and bit case, ROCASE 4414 anthracite (No. 1000001949)

Model No. RO DD60 drill driver w/o battery and charger 1000002035 RO DD60 drill driver set EU 1000001647



No 1000001949



316

Screw bits and drill bits

### **ROBIT PRO**

32 pieces



**Set (No. 1500002453) includes:** 30-bit: 1/4" x 25 mm, PH: 1, 2, 2, 3 mm, PZ: 1, 2, 2, 3 mm, FD: 3, 4, 5, 6 mm, HW: 3, 4, 5, 6 mm, TX: 10, 15, 20, 25, 27, 30, 40 mm, TTX: 10, 15, 20, 25, 27, 30, 40 mm, quick release magnetic bit holder

#### **KEY FEATURES**

- Extensive bit set as perfect equipment for professional craftsmen
- High-quality material for heavy usage
- Adjustable belt-clip

### **ROBIT PRO torsion**





**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

No.

DIN -Norm

1500002454

#### **KEY FEATURES**

Model

- For extrem usage
- Suitable for an impact wrench

ROBIT PRO torsion bit set 15 pcs.

Special alloy for maximum life time

 Model
 No.

 ROBIT PRO 32 pcs.
 1500002453

### **PROFI PLUS**

#### Twist drill set DIN 338 type N

HSS rolled, all drill diameters in 0.5 mm diameter steps





## Screw bits and drill bits

## **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.

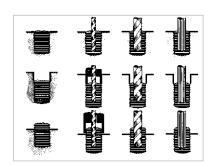
### Screw extraction sets

Packaged in handy plastic box with spiral drills, guide bushes, boring studs and boring nuts

Set	Set contains complete for	Quantity piece	∑ g ∆	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 C thread	Guide bush size	Guide bush No.	► <b>○</b> ◄ mm	Pre-boring No.	► <b>○</b> ◄ mm	Boring No.	Boring stud Gr.	► <b>○</b> ◄ 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

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## **Toolkit sets**

For versatile applications in installation and maintenance



17 pcs. socket set 1/4", ROBOX 🧧	1000002180*
53 pcs. special application bit set 1/4", ROBOX	<b>5</b> 1000002181*
10 pcs. color ring bit set 1/4", ROBOX 🧧	1000002182*

\* ROBOX system p. 332

Set (No. 1000002180) includes: 1x thin type lever ratchet handle with 72-teeth gear, 2x extension bars 50mm and 100mm, 1x universal joint, 1x sliding T-head 3/8" x 1/4", 12x sockets: 4-5-5,5-6-7-8-9-10-11-12-13-14mm, in soft foam and ROBOX B2350 (No. 1500002641)

**Set (No. 1000002181) includes:** 1x 1–1/4" bit holder, 52x bits 1/4" x 25 mm: 13x star bit (torx) 5–6–7–8–9–10–15–20–25–27–30–35–40 mm, 6x hex bit (H) 2–2.5–3–4–5–6 mm, 3x tri wing bit 1–2–3 mm, 5-ribe bit (RM) 5–6–7–8–9 mm, 9-pentalobe bit 7–10–15–20–25–27–30–40–45 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 (No. 1500002641)



## **Hole saw**

## **UNICUT HM**

Carbide-tipped hole saws for cutting circular holes Ø 16 - 140 mm (5/8 - 5.1/2") without impact

### **Product profile**

### APPLICATION AREA

For stationary and free-hand cutting of circular holes. For iron, steel, V2A - V4A, cast, copper, bronze, aluminium, zinc, plastic, fibre-glass, chipboard and wood, light construction plaster boards without impact

### KEY FEATURES

- For use even in high-speed hand drills and stand-mounted drilling machines due to anti-slip shaft
- Positive cutting angle for good chip removal
- Includes adaptor holder and replaceable HSS-Co5 centring drill up to 4 mm sheet thickness, cutting depth 10 mm



## **UNICUT HM**

Hole saw set





(Fig. similar)



(Fig. similar)

► <b>○</b> ◄ mm	► <b>○</b> ◄ Inch	∆ g ∆	No.	► mm	► <b>○</b> ◄ Inch	∆ <sub>g</sub> ∆	No.
16	5/8″	100	21316	34		180	21334
29		140	21329	35	1.3/8″	190	21335

Set (No. 21300) includes: hard metal hole saws, drill paste 40 g and spare centering pin Ø 6 mm (No. 21394), in plastic case

Model	∆ g ∆	No.
UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm Spare centering pin HSS 8 mm	950	21300 21395

**ROTHENBERGER** 319

## **Drill bit and impact wrench**

### 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) and size 3 (No. 21307), in steel case

Model			► mm	∆ g ∆	No.
UNIDRILL	stepped drill bit s	set, 3 pcs.	4 - 30	660	21313
Size	►O- mm	<mark>⊾⊥</mark> mm	Shaft mm	∆ g ∆	No.
3	4 - 30	100	10	185	21307

## **RO ID400 cordless impact wrench**

Enables the quick assembly and disassembly of screws and hexagon nuts. The profiles of pre-wall installations and sprinkler systems therefore no longer pose a challenge.

#### **KEY FEATURES**

- Unique brushless motor for quick work progress and highest efficiency for any application
- High torque accompanied by an exceptionally compact design
- Twelve speed/torgue 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
Max. torque:	400 Nm
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

Bit holder No. 1000001949 Can be fixed either on the right or left side

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,

Model	No.
RO ID400 impact wrench w/o battery and charger	1000002036

compact design

High torque

Accompanied by an exceptionally

#### Belt hook

Can be fixed either on the right or left side

#### Twelve speed / torque levels

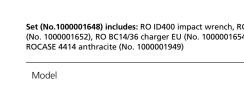
For a wide range of applications

#### Maximum power

Intelligent battery management with charge indicator to control the status of charge

**OTHENBERGER** 

14



RO ID400 impact wrench set EU 1000001648

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

**Angle grinder** 

## **RO AG8000 cordless angle grinder**

Smaller working steps such as the abrasive removal of hanger bolts or the cutting of a U-profile are handled quickly and easily. The slim design, as well as the rotating battery, enables work to be undertaken in cramped spaces and also simplifies working areas such as the disassembly area.

### **KEY FEATURES**

- Slim design for prolonged comfort when working overhead or in areas with limited space
- Save time and be safe with the tool-free adjustable guard
- Detachable dust protection filter protects motor from coarse particles

#### TECHNICAL DATA

Battery voltage: Weight without Batterypack: Idle frequency: Grinding wheel Ø: Spindle thread:

1.7 kg 8,000 / min<sup>-1</sup> 125 mm M14

18 V



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.
RO AG8000 angle grinder w/o battery + charger	100002037
RO AG8000 angle grinder set EU	1000001649



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



**Cutting discs** 

Cutting disc assortment		-	steel			ofiles			s stee		ying		
or burr-free and quick cutting of stainless steel, teel, cast iron and stone		/ed and loved steel	stren	steel	Rust- and acid resistant steel	ed steel pr	l panel	led joints	ed stainles iles		Alumniumalloying	oer	/ hrond
Description	No.	Alloyed	High	Tool	Rust resis	Edged	Steel	Welded	Edged	Cast	Alun	Copper	1
Cutting disc INOX PROFI PLUS (115 x 1 x 22)	071533D	•	•	•	••	•	•	•	•	0	••	••	•
Cutting disc INOX PROFI PLUS (125 x 1 x 22)	071534D	•	•	•	••	•	•	•	•	0	••	••	
Cutting disc INOX FINE CUT (115 x 0.8 x 22)	1500003464	•	•	•	•	••	••	••	••	0	•	•	
Cutting disc INOX FINE CUT (125 x 0.8 x 22)	1500003465	•	•	•	•	••	••	••	••	0	•	•	

•• = very well suited • = well suited • = partially suited

0 115 x

ROTHENBERGER

PROFIPLUS

## **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 (10	pcs.) 115 x 1 x 22	350	1	071533D
PROFI PLUS box 125 (10	pcs.) 125 x 1 x 22	450	1	071534D

Follow all manufacturers instructions





Follow work safety measures



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Do not use defective grinding/ cutting discs

## **INOX-FINE CUT**

#### Cutting disc for stainless steel (0.8 mm)

For thin sheets, steel cables, thin-walled profiles and stainless steel tubes and non-ferrous metals, composite materials (GFK).

- Very high cutting speed ensures a soft and fast cut with minimum contact pressure
- Low flying sparks with extra fine and low-burr cutting pattern



Model	Dimensions mm	∆g∆	No.
INOX FINE CUT (10 pcs.)		333	1500003464
INOX FINE CUT (10 pcs.)	125 x 0.8 x 22	390	1500003465



CAS

**Rotary hammer and chisel** 

### RO RH4000 cordless rotary hammer

The notion of compatibility improves the craftsmanship of the professional plumbers. With the help of the new cordless rotary hammer, slots can easily be drawn, tiling can be knocked into place and pipe clamps can be fastened. There are no working hindrances due to empty batteries, thanks to the ROTHENBERGER battery platform.

#### **KEY FEATURES**

- Combination hammer with 3 functions: hammer drilling, drilling and chiselling
- Variospeed (V) electronics for working at customised speeds to suit various application materials
- S-automatic safety clutch: mechanical decoupling of the drive for safe working should the drill stop unexpectedly
- LED work light for optimum view of the drilling site
- Battery packs with capacity display for checking the charge status

#### Automatic safety clutch

Mechanical decoupling of the drive for save working, in case the drill driver stops unexpectedly

### **TECHNICAL DATA**

Battery voltage: 18 V Weight with batterypack: 2.9 kg Max. single blow energy (EPTA): 2.2 ] 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



#### No. 1000001949

#### Variospeed (V) electronics

For working at customised speeds to suit various application materials

#### LED light

Integrated working light to illuminate the contact area

#### Maximum power Intelligent battery management

with charge indicator to control the status of charge

Set (No. 1000001650) includes: RO RH4000 rotary hammer (No. 1000002038), RO BP18/4 4.0 Ah battery (No. 1000001653), RO BC14/36 charger EU (No. 1000001654), hammer chuck for tools with SDS-plus shank end, rubber-coated side handle drilling depth guide, ROCASE 4414 anthracite (No. 1000001948)

Model	No.
RO RH4000 rotary hammer w/o battery + charger	1000002038
RO RH4000 rotary hammer set EU	1000001650

## Chisel

SDS-plus

Bit retainer

High-quality, fully coated steel chisels with high life time. The construction and cutting edge geometry enable a heavy stock removal



Set (No. 1500002829) includes: flat chisel SDS-plus (No. 1500002825), sharp chisel SDS-plus (No. 1500002826), tile chisel SDS-plus, 40 mm (No. 1500002828), ROBOX B2650 (No. 1000002763)

Model	Length	No.
Tile chisel 80 mm SDS-plus 170 mm	170 mm	1500002824
Flat chisel SDS-plus 250 mm	250 mm	1500002825
Sharp chisel SDS-plus 250 mm	250 mm	1500002826
Hollow chisel 22 mm SDS-plus 250 mm	250 mm	1500002827
Tile chisel 40 mm SDS-plus 250 mm	250 mm	1500002828
Chisel set, 3 pcs. SDS-plus w/ ROBOX*		1500002829

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



**Drill bits and lamp** 

## SDS-plus hammer drill



Model	Ø	No.
Hammer drill SDS-plus	6 x 110 mm	111405
Hammer drill SDS-plus	6 x 160 mm	111406
Hammer drill SDS-plus	8 x 110 mm	111411
Hammer drill SDS-plus	8 x 210 mm	111413
Hammer drill SDS-plus	10 x 110 mm	111418
Hammer drill SDS-plus	10 x 160 mm	111419
Hammer drill SDS-plus	12 x 160 mm	111424
Hammer drill SDS-plus	12 x 260 mm	111426

Model	Ø	No.
Hammer drill SDS-plus	14 x 260 mm	111432
Hammer drill SDS-plus	15 x 160 mm	111429
Hammer drill SDS-plus	16 x 210 mm	111439
Hammer drill SDS-plus	16 x 300 mm	111440
Hammer drill SDS-plus	18 x 450/410 mm	111447
Hammer drill SDS-plus	20 x 450 mm	111450
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



TECHNICAL DATA	
Max. lumin. flux:	440 lm
Max. operation time per battery charge: Weight without	18 V / 2.0 Ah: 4.5h / 18 V / 4.0 Ah: 9.1h
Batterypack:	0.46 kg
	Powerful LED

Rotatable lamp head Can be turned and swiveled through 180° providing almost infinite positions for the lamp

Compact and handy For versatile use

Maximum power

Intelligent battery management with charge indicator to control the status of charge



For uniform, bright illumination of the working area

Robust aluminum die-cast housing

For use on construction sites



Set (No.1000001651) includes: RO FL180 LED lamp, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), ROCASE 4212 anthracite

Model	No.
RO FL180 LED lamp w/o battery and charger	1000001734
RO FL180 LED lamp set EU	1000001651





**CAS battery and charger** 

#### CAS battery packs and charger

"cordless construction site"

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



In comparison to the Li-Ion 4.0 Ah, the Li-HD 4.0 Ah is having less weight, a slimmer design, but still the same performance.





100% compatibility for over 180 machines in the 18 V class!



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



**Hammers and chisels** 

#### **Fitter's hammer**

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft

#### DIN -Norm

#### Lump hammer

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft





#### 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 $\sqrt[4]{g}$	with hand protection $\int g \Delta$	No.
Mason chisel, flat	300	16	22	470	560	77050

Vices

## **Parallel vice**

With forged and hardened pipe jaws, steel forged underneath the parallel vice jaws

- Non-breakable
- Protected, powerful spindle with trapezoidal thread
- Re-adjustable double-sided guide
- Anvil base for levelling and compressing work



Jaw width mm	Clam width mm	nping depth mm	for pipes	► for pipes mm	$\sqrt{kg}$	No.
120	125	65	3/8 - 1.1/2"	16 - 55	8.7 <b>0707</b>	
140	150	80	3/4 - 2"	27 - 70	15.6 <b>0707</b>	

# Chain pipe vice

Tough, powerful design with V-shaped support, bending device, pipe support, wear-resistant jaws are forged and hardened, powerful chain, quick fastening due to offset lever and pre-tensioning screw, simple conversion to other pipe diameters, extremely robust powder epoxy coating

- V-shaped pipe supports with teeth and bridge prevent undesired bending during clamping
- Exchangeable jaws



For pipes / Inch	for pipes / mm	⇔kg⇔	No.
1/8 - 2.1/2″	10 - 76	3.8	70713
Spare jaw		0.7	70734
Spare chain		0.5	70731
1/8 - 4″	10 - 114	6.2	70714
Spare jaw		0.8	70721
Spare chain		0.6	70732
1/8 - 6″	10 - 165	9.3	70715
Spare jaw		0.9	70722
Spare chain		1.3	70733

#### **Pipe vice**

Foldable, with automatic closing hook, upper jaw and lower support jaw milled and hardened. Powerful smooth-running spindle. Durable epoxy-powder coated

• Reliable hold: Pipe support and movable upper jaw



For pipes / inch	►O- for pipes / mm	\[ \] kg \]	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

## **ROBOY clamping workbench**

For on-site repair and service work

- Portable, handy and practical workbench with the smallest dimensions
- Mountable on door frames or walls: Prevents floor damage and saves space
- Pressure plate is coated with rubber to protect against damage
- Spindle with trapezoidal thread for quick adjustment
- With height-adjustable support pipe for additional stability



Parallel vice (No. 070705X) and rotatable table not included

Model	Dimensions / mr	m $\sqrt{kg}$	No.
ROBOY	650 x 400	14.9	70700

# Workbenches

## Tripod uni workbench

#### With / without integrated chain vice

- Collapsible, extremely stable frame
- Attachment of various tools is possible
- Screw fixture for 1" pipe to enable overhead support of the unit 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"

**Working unit** With pipe vice 1/8 - 2" Collapsible, stable, non-slip frame

 Universal vice attachments applicable for pipe vice (No. 70710) and chain pipe vices (No. 70713, 70714, 70715)

with folding pipe vice, bending holes and large tool tray

# ٧o No. 70740 No. 70751

Model	$\sqrt{kg}$	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



#### Telescopic workbench

## **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	$\langle kg \rangle$	No.
Installer	1,200 x 550 x 835	30	070690X
Pipe-fitter	1,000 x 700 x 835	32	70696
Pipe-fitter	1,200 x 750 x 835	38	70698



14

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No.

856911

856907

# General aids and tool bags

GOTHER

All-purpose marker

**Carpenter pencil** 

Lighter

Writes on tile and glass

All-purpose marker

Carpenter pencil

Model



## **Cutter knife**



# ModelNo.Cutter knife w/ 4 blades, 18 mm150000087Blades for cutter knife (10 pcs.)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

• Offers a lot of pockets and tool holders with a waterproof plastic bottom







Model	No.
Trendy tool bag (380 x 300 x 370 mm)	402311
Tool bag (450 x 285 x 335 mm)	1500001320

#### Toolbox apprentice

 Lots of storage room for all your tools



Model	No.
Toolbox apprentice	402312

Model	No.
Tool bag, small (280 x 360 x 230 mm)	1500002182

# Trendy shoulder toolbox

Very light, handy bag for the most important tools



Model

## Tool bag universal

 Ideal for hand tools with straps and flaps inside the roll cover



Trendy shoulder toolbox (250 x 220 x 140 mm) Tool bag universal (220 x 440 x 230 mm)



# Tool bags

#### Apprentice set, 50 pcs.

Tough installation toolbox completely equipped with

- all the tools the craftsman needs
- Extensive and practical tool assortment
   Case made of galvanized steel
- Dimension: 530 x 200 x 200 mm



Set (No. 19166) includes: water pump wrench type SP 10", corner pipe wrench Super S (1"), ALU-spirit level, anodized (500 mm), hacksaw frame (300 mm), 10x HSSE 4 PLUS saw blades, fitter's hammer (300 g), lump hammer (1,250 g), PUK-hacksaw (290 mm) + 12x saw blades, basin nut wrench, stone chisel flat (300 x 16 mm), Ratched key ROCLICK 19 mm, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), wooden ruler (2 m), carpenter pencil, TUBE CUTTER 35 (6-35 mm), MINICUT I PRO (3-16 mm), extension key, corner pipe wrench Super S (1.1/2"), cutter knife, ROGRIP F 10" 1K, installer toolbox, dimensions: 530 x 200 x 200 mm

Model	Ð	No.
Apprentice set, 50 pcs.	1	19166

#### General purpose tool set, 57 pcs.

Tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



Set (No. 1000001425) includes: TUBE CUTTER 35 DURAMAG (6 - 35 mm), UNI-stepped key + ratchet, Uni-small saw PUK, 10x saw blade for PUK-saw metal, saw bow ROBO Super, 10x saw blades BI-METALL HSSE 4 Plus, Ratched key ROCLICK 19 mm, EUROLINE screwdriver set (2x PH, 4x Sclot), spirit level, carpenters pencil, flexible ruler, MINICUT I Pro (3-16 mm), profi universal knife, hammer with hickory wooden handle, electrician chisel, flat, sanitary four way key, ROGRIP M XL (3.1/2"), ROGRIP M 10" 1K, ROGRIP M 7" 1K, ROCUT TC 42 (0-42mm), SWO adjustable wrench 8", tool bag (450 x 285 x 335 mm)

Model	No.
General purpose tools set, 57 pcs.	1000001425

#### General purpose tool set, 17 pcs.

Compact tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



Set (No. 1000001745) includes: EUROLINE screwdriver set, water pump pliers SP 10", water pump pliers SP 7", professional cutter knife, MINI MAX Tube Cutter, 3-28 mm, GRATFIX HSS with spare blade, sanitary four way key multifunctional 3/8-1", flexible ruler, wooden, 2 m, aluminum spirit level, carpenter pencil, safety glasses UVEX, tool bag (280 x 360 x 230 mm)

		Na
		-

General purpose tools set, 17 pcs.

Mode



# **Case system**

#### **ROCASE case system**

	<b>ROCASE 4212</b>	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 l	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	1300003334
ROCASE 4212 anthracite, without inlay, 39 x 19 x 12 cm	1300003649
ROCASE 4407 red, without inlay 39 x 39 x 7 cm	1300005506
ROCASE 4414 red, without inlay 39 x 39 x 12 cm	1300003541
ROCASE 4414 anthracite, without inlay, 39 x 39 x 14 cm	1300003338
ROCASE 6414 red, without inlay, 59 x 39 x 14 cm	1300003336
ROCASE 6427 red, without inlay, 59 x 39 x 27 cm	1300003337



**Case system** 

#### **ROCASE shoulder belt**

Model	No.
ROCASE shoulder belt with logo	1500002239

#### **ROCASE 4212/4414 foam inlay**

Model	No.
ROCASE 4212 foam inlay	1500002449
ROCASE 4414 foam inlay	1500002450



No. 1500002239

No. 1500002450

#### **ROCASE 4414 with tray and ROBOX**

Set includes: ROCASE 4414, 2x ROBOX tray, 12x ROBOX B2350 (No. 1500002641)		
Model	No.	
ROCASE 4414 red, with 2 trays and ROBOXES	1000002108	

## **ROBOX set for ROCASE 4414**

Set includes: 1x ROBOX tray, 6x ROBOX B2350 (No. 1500002641)	
Model	No.
ROBOX set for ROCASE 4414	1000002109

#### ROBOX

Model	No.
ROBOX B2350, 192 x 114 x 50 mm	1500002641
ROBOX B2650, 364 x 114 x 50 mm	1500002763



#### **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	1000002625



# 2 **ROTHENBERGER**

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**Case system** 

#### **ROCASE trolley**

The ROCASE trolley allows an easy transportation of the ROCASE system and other bulky loads. It is foldable really easily and can be stored in the car. To fix the load at the trolley there is a strap included.

#### **KEY FEATURES**

- Load capacity up to 120 kg
- Ideal to carry ROCASEs
- Big wheel diameter: easy to go over stairs
- Including a long strap with hooks to fix the load

Model	\_kg \_	No.
ROCASE trolley, 78 x 48.5 x 6 cm	7.0	1000002628



#### ROBUCKET

The ROBUCKET is a tool bucket for a versatile usage and can be fixed at the ROCASEs. To organise also small items in the bucket there is a ROBOX B2650 in the set included.

#### **KEY FEATURES**

- Handle allows comfortable transport
- ROBOX B2650 can be stored inside the bucket to stow accessories
- Liter display in the inside of the bucket
- Belt mount for shoulder straps

Model	$\sqrt{kg}$	No.
ROBUCKET with 1x ROBOX B2650, 39.5 x 31.2 x 32.1 cm	1.6	1000002627



#### 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

Model

Hand tool kit 4414, 18 pcs.

No.

SIL

1000001955

# **ROTHENBERGER** 333

BOTHENBERGER

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# B

>B< MaxiPro:
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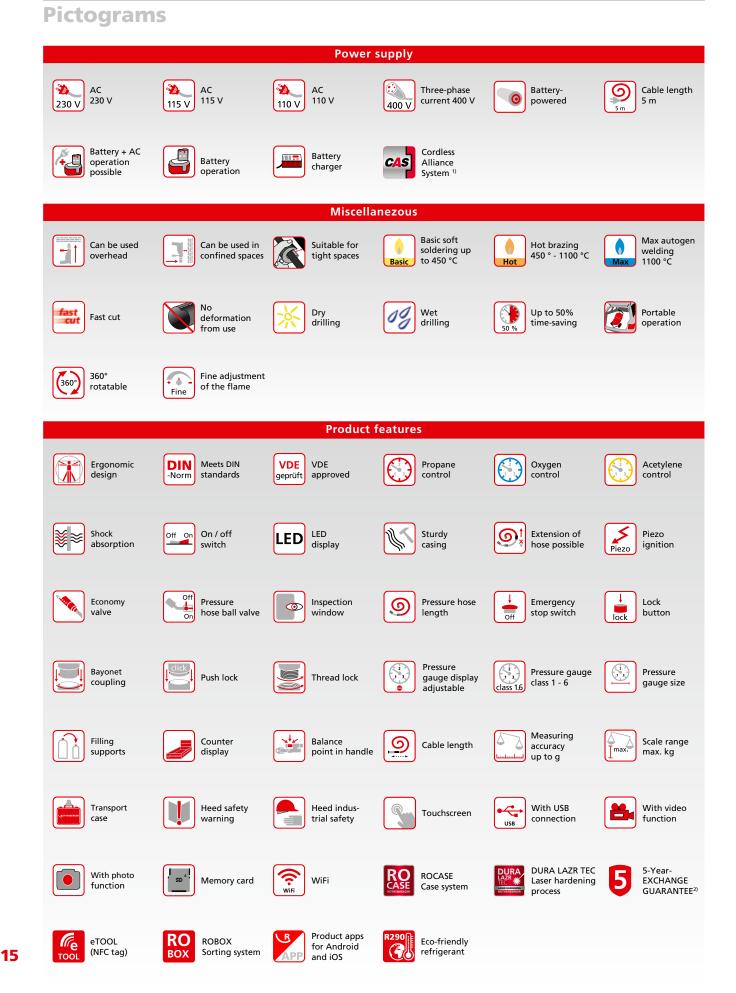
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# Abbreviations

Abbreviation	Description
A/S	Acetylene / Oxygen
ABS	Acrylonitrile-Butadiene-Styrene
ADR	Accord européen relatif au transport international des merchandises dangereuses par route (french)
AG	Silver
AL	Aluminium
AMS	Acetylen-Maxigas-Oxygen
AS	Non-slip
В	Petrol, Gas
BGV	Trade Associations Occupational Health and Safety Regulations
BSP	British Standard Pipe, Standard Withworth Thread as per 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
BTU	British Thermal Unit
CE	European Community
CEN	European Committee for Standardization
CFC	Chlorofluorocarbons
CFM	Cubic Feet per Minute
CFT	Constant Force Technology
CL	Channel Lock
CNC	Computerized Numerical Control
CU	Copper
DK	Pressure Class
DN	Diameter Nominal
DVGW	German Association for Gas & Water Applications
DVS	German Association for Welding
EAN	European Article Number
EPT	Enclosed Power Transmission
FE	Iron
FS	Guide Hose
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

Abbreviations

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
РР	Polypropylene
PS	Professional
PSI	Pound-Force per Square Inch
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RC	RODIACUT
SAE	Society of Automotive Engineers
SD-Card	Secure Digital-memory Card
SDR	Standard Dimension Ratio
SMK	Spiral with Plastic Core
SML	Super Metal Delivery Program
SP	Standard Plier
SP	Special Performance
SPK	Standard Plastic Plier
SS	Quick Cut
SW	Spanner Size
тс	Tube Cutter
TFT	Thin-film Transistor
TiN	Titanium Nitride Coating
TPI	Bits per Inch
TRGI	Technical Guidelines for Gas Installations
TRWI	Technical Guidelines for Water Installations
TÜV	Technical Inspection Association
UKS	Obital Circular Saw
UNC	Unified Coarse Threads
UNF	Unified Fine Thread
VA (Stahl)	Stainless Steel, Corrosion Resistant Steel
VCR	Video Cassette Recording
VDE	Registered Association of the Electrical, Electronic and Information Technology
VPE	Packaging Unit
WG	Hot Gas
ZN	Zinc
ZPZ	Bits per Inch
ZVSHK	German Central Association Plumbing, Heating and Air Conditioning



## **Pictograms**

HENBERG

#### **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

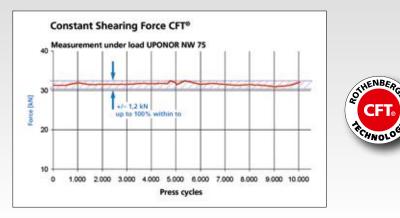


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#### **ROTHENBERGER Constant Force Technology**

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

**ROMAX Compact TT** 19 kN for 40,000 press cycles **ROMAX AC ECO** 32 kN for 10,000 press cycles **ROMAX 4000** 32 kN for 40,000 press cycles **ROMAX 3000 AC** 32 kN for 20,000 press cycles



#### **ROTHENBERGER DURAMAG Technology**

The DURAMAG Technology (High Tec Magnesium Body) offers the following benefits:

Improved performance

Higher stability with considerably lower weight

DURA = Durable MAG = Magnesium





# **General conditions**

for the sale of goods

# General conditions for the sale of goods

Individually agreed sales and delivery terms supersede these GTCs in case of conflicts. For deliveries within Germany, please also note the Terms of Delivery and Payment set out on page 351.

#### § 1 Scope

1. These General Terms and Conditions of Sale apply to all business relations of ROTHENBERGER Werkzeuge GmbH, Industriestraße 7, 65779 Kelkheim ("We" or "Us") with our customers ("Buyer" or "Purchaser"). The General Terms and Conditions of Sale shall only apply if the Buyer is an entrepreneur (Section 14 BGB (German Civil Code)), a legal person under public law 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 particular, to contracts on the sale and/or delivery of movable property ("Goods") without consideration 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 as a framework agreement that is valid at the time the 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 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

 All offers are subject to change without notice. Catalogue and leaflet details are only approximately authoritative. The right to make constructive amendments is reserved. Technical documentation (e.g. drawings, plans, calculations and references to DIN standards) are not binding for us unless agreed otherwise.

2. The Buyer shall be bound by its order for 4 weeks. The contract of purchase shall be deemed entered into if the order has been accepted in writing within this period or the delivery has been performed.

3. Supplementary information, amendments and subsidiary agreements are subject to written confirmation by us.

#### § 3 Prices; terms and conditions of payment

 Unless agreed otherwise, the prices apply EXW (INCO-TERMS 2020), in relation to our respective stated location, without packaging, freight, postage, customs duties, surcharges and insurance etc., plus turnover tax. These costs shall be charged separately.

2. In respect of orders that do not exceed a net order value of  $\in$  250, a minimum quantity surcharge of 10% of the order value applies, at least, however,  $\in$  15.

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.

4. In the event of default in payment on the part of the 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).

5. Apart from cases of a fixed price agreement, the parties undertake, at the request of a party, to agree, based on good faith principles, on an appropriate price correction if, in the case of a contract with a lengthy term, at least four months after entering into the contract order-related costs increase or drop for us, in a manner that is verifiable and significant (more than 5 %) for reasons that are not our responsibility, e.g. as a result of increased raw material prices or energy costs.

6. In the case of default in payment on the part of the Buyer or in the case of reasonable doubt about 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.

 Where the Buyer has authorised us to use SEPA direct debiting, such a direct transfer order collection shall normally be announced in advance in conjunction with the invoicing at the latest 1 (one) calendar day prior to the due date of the direct debit (pre-notification).

#### § 4 Setting off, right of retention

The Buyer may only have the right to offset if its counterclaims have become res judicata, are not disputed or have been recognised by us. The Buyer shall only be entitled to exercise a right of retention insofar as its counterclaim is based on the same contractual relationship.

#### § 5 Scope of delivery, variation from the order, procurement risk

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 trade by up to 10 %, at least however by two items. The actual delivery quantity shall be charged.

3. Where products can only be delivered in a certain packaging unit and this minimum amount is not met by the order, we reserve the right to round up the order to the next packaging unit or to impose a surcharge of 10% of the item order value.

4. We do not accept any procurement risk for the Goods to be delivered.

5. The cost of deadfreight that is the responsibility of the Buyer or its shipping agent shall be borne by the Buyer.

#### § 6 Delivery and performance time

1. Binding delivery times must be expressly agreed upon as such in writing. Other delivery time details that are not expressly agreed upon as binding are non-binding or approximate delivery time details, and we shall endeavour to honour these.

2. 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 run.

3. The day of notification of the readiness for despatch shall apply as the delivery day. Deliveries prior to expiry of the delivery time are permitted.

4. If events of so-called force majeure occur about which we furnish information in each case without delay, the delivery 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 request a binding classification two weeks after confirmation of order. If the Buyer fails to honour this request within three weeks, or if the Buyer defaults in acceptance, we shall be entitled to set an additional period of two weeks and once such a period has lapsed withdraw from the contract and claim for damages. Where not agreed to the contrary, as a matter of principle, de-liveries 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, 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 determined 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 undertake, to insure deliveries in the name and on account of the Buyer.

3. The handover or acceptance shall continue to apply if the Buyer defaults in acceptance. In addition, in the event of default in acceptance we shall be entitled, but do not undertake, to store the Goods at the Buyer's cost and risk.

4. In the event of a delivery stop as a result of default in payment or acceptance, or for another reason that is the Buyer's responsibility, the risk of the accidental loss/accidental deterioration shall pass to the Buyer at the latest upon notification of the readiness to dispatch.

5. Goods for which notice of readiness for dispatch has been given must be called-off without delay. Otherwise, we shall be entitled to send the Goods at our discretion or store them at the Buyer's cost and risk.

6. If acceptance is proposed or agreed, this is to be performed swiftly, following notification of the readiness for dispatch, at our respective, stated, supply plant. If acceptance is not performed irrespective of the setting of a reasonable additional period, or the Buyer waives acceptance, we shall be entitled to send the Goods without acceptance or store them at the Buyer's cost and risk.

#### § 8 Warranty

1. The warranty period is 12 months from the passing of risk. By contrast, the statutory period applies with respect to claims resulting from the German Product Liability Act or claims attributable to the loss of life, physical injury or detrimental effects on health. Wear-and-tear parts are excluded from the guarantee. We shall not provide any quality guarantees where an individual agreement has not been entered into. Performing work under warranty does not constitute recognition or acceptance of a defect.

2. Returns that are not based on a faulty object of sale are not permitted. In the event that a return is permitted in an exceptional case as a result of an express, written agreement, a credit note shall only be issued by way of deducting at least 25 % of the purchase price. All return delivery costs shall be borne by the Buyer.

3. In respect of the Buyer's warranty claims, it is required that the Buyer has honoured its obligations to inspect and provide notification of defects (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 fails to properly inspect and/or provide notification of defects, our liability for the defect for which notification has not been provided, or has not been provided in good time, shall be excluded.

4. If the delivered item is faulty, we may choose whether to provide subsequent performance by way of rectifying the defect (subsequent improvement) or by delivering a fault-free items (replacement). Subsequent performance shall neither entail the dismantling of the faulty item nor new installation if we did not originally undertake to provide installation. The Buyer is to give us the necessary time and opportunity to provide the due subsequent performance, in particular handover the goods for which notification of defects has been provided for inspection purposes. In the event of replacement, the Buyer is to refuse the faulty item to us.

5. If it becomes clear following an inspection that an item was not faulty, we may request compensation from the Buyer for the costs arising from the unjustified complaint (in particular inspection and transport costs) unless the Buyer could not recognize that the item was not faulty.

6. The Buyer's claims for compensation for loss suffered or reimbursement of expenses incurred in vain shall only apply, including in the case of defects, in accordance with Paragraph 9 and in other respects are excluded.

7. The above limitation periods of the sales law also apply to the Buyer's contractual and non-contractual claims for damages that are based on faulty Goods unless application of the normal statutory limitation (Sections 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 excluded unless we are to be accused of intent or gross negligence or of violating a key contractual obligation (see sub-section 2) more than just insignificantly. Where we are liable for simple negligence, the liability shall be limited to compensation of foreseeable, typical and direct damage. Compensation for indirect or collateral damage such as the loss of expected profit, loss of production and use and pecuniary damage regarding third party claims is excluded.

2. Key contractual obligations are obligations a) that protect the Buyer's key contractual legal positions that are to be granted to him in accordance with the content and purpose of the contract and b) such contractual obligations, the honouring of which is required to properly execute the contract and compliance with which the Buyer can normally expect.

3. The aforementioned liability limitations also apply in the case of violations of obligations by, or in favour of, persons whose culpability is our responsibility in accordance with 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

 If we make the ordered Goods available to the Buyer on Euro pallets or other re-usable packaging, these are to be replaced by the Buyer within 7 calendar days with replacement items of the same type and value, or are to be returned to us. If this does not occur, we shall be entitled to invoice the Buyer for the used pallets/packaging at the replacement price.

2. In the case of gas deliveries, rental containers or pallets shall only be handed over to the Buyer on a rental basis for the transport, storage and for the Buyer's own use of the acquired gasses. Any other use, or forwarding to third parties, is prohibited. After emptying, the Buyer is to return the containers and pallets to us without delay at its own cost.

3. The Buyer shall be liable for any damage, pollution or loss of rental containers or pallets, and in such cases undertakes to inform us without delay.

4. In respect of surrendered rental containers that are not contrasted with appropriate gas containers for longer than three months, we may request as security an amount in the sum of the respective list price of similar, new, containers. Such an amount falls due for payment immediately. As soon as the Buyer returns a container for which security has been provided, the security shall be returned to the Buyer without interest and less potential repair costs. If the Buyer fails to return the containers, the security amount shall be set off against the compensation for damages payable by the Buyer. Potential residual content in returned containers shall not be remunerated.

#### § 11 Reservation of title

 We reserve ownership to the supplied Goods up until all existing claims resulting from the business connection (current account reservation) against the Buyer have been settled in full. Processing/finishing or conversion shall apply at all times in our name and by our order for us, however without any obligation for us, and without loss of our ownership.

2. The parties agree that the reservation of title also applies as extended reservation of title. The Buyer is entitled to sell the Goods during the course of normal business activities. Other disposal is prohibited, in particular an agreement on assignment prohibition with customers is prohibited that could result in the loss of our ownership.

3. The Buyer assigns to us at this point in time any claims to which the Buyer is entitled resulting from the use of the reserved Goods. If the Goods are sold with external items, or used as a substance, the assignment only applies to the revenue part that corresponds to the joint ownership part.

4. The entitlement to resell the object of sale shall become inapplicable if the Buyer discontinues its payment or defaults in payment. In such cases, we shall be entitled to disclose the assignment and collect the claim. The Buyer is to notify us without delay if an application is filed for the institution of insolvency proceedings regarding its assets.

5. The Buyer is only entitled to collect assigned claims during the ordinary course of business activities. The Buyer is to provide notification of third party access to the reserved goods without delay, and carry the cost of potential intervention. The Buyer is to insure the reserved goods at replacement value and at its own cost, in particular against theft, water, breakage, fire and other damage. The Buyer is to treat the reserved goods with due care, in particular comply with the proposed maintenance and use notices.

6. We undertake at the Buyer's request to release securities insofar as the realisable value of the security exceeds the claims that are to be secured by more than 10 %. We are free to choose the securities that are to be released.

7. In the event of failure to pay the due purchase price irrespective of a reasonable additional period or if this can be dispensed with, we shall be entitled, in accordance with the statutory requirements, to withdraw from the contract and/or demand return of the Goods as a result of the reservation of title. The demand for the return of the Goods does not simultaneously contain a statement of withdrawal. Moreover, we are entitled to merely demand the return of the Goods and reserve the right to withdraw.

8. For the duration of the reservation of title, in the event of the occurrence of damage we shall be entitled to all rights resulting from insurance policies entered into by the Buyer. In the absence of agreements to the contrary, benefits resulting from the comprehensive insurance are to be used in full for the repair of the delivery item. If a repair is waived following our approval in the case of severe damage, we shall use the insurance benefit to repay the purchase price and the cost of ancillary performance.

#### § 12 Resale and export restrictions

 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 Buyer shall insofar indemnify us.

#### § 13 Applicable law and place of jurisdiction

 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.

#### Date 01/2021

## Additional terms of delivery and payment for Germany

The following terms apply in addition to the general conditions for the sale of goods (pages 350-351) for all deliveries within Germany:

#### Extra charges:

Hazardous goods	€ 9.50 extra per delivery for hazardous goods Example: no. 035510-A.
Solder material	The prices for solder material depend heavily on the current prices of silver and copper. We reserve the right to charge extra due to increased raw-material prices; please ask for the current prices.

**Shipping / Shipping flat rates within Germany:** Shipping is carried out by us via carriers of our choice. We charge the following flat rates for this:

Goods value	Surcharge	Flat rates
Up to € 250.00	10%, at least € 15.00	net: € 12.00
Up to € 399.99	-	net: € 12.00
As of € 400.00	-	net: free

Payment of deliveries within Germany: 30 days net from invoice date (no discount is granted).

# General conditions for the sale of goods


#### ROTHENBERGER 352


# **ROTHENBERGER** 353

ROTHENBERGER

#### Imprint

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