

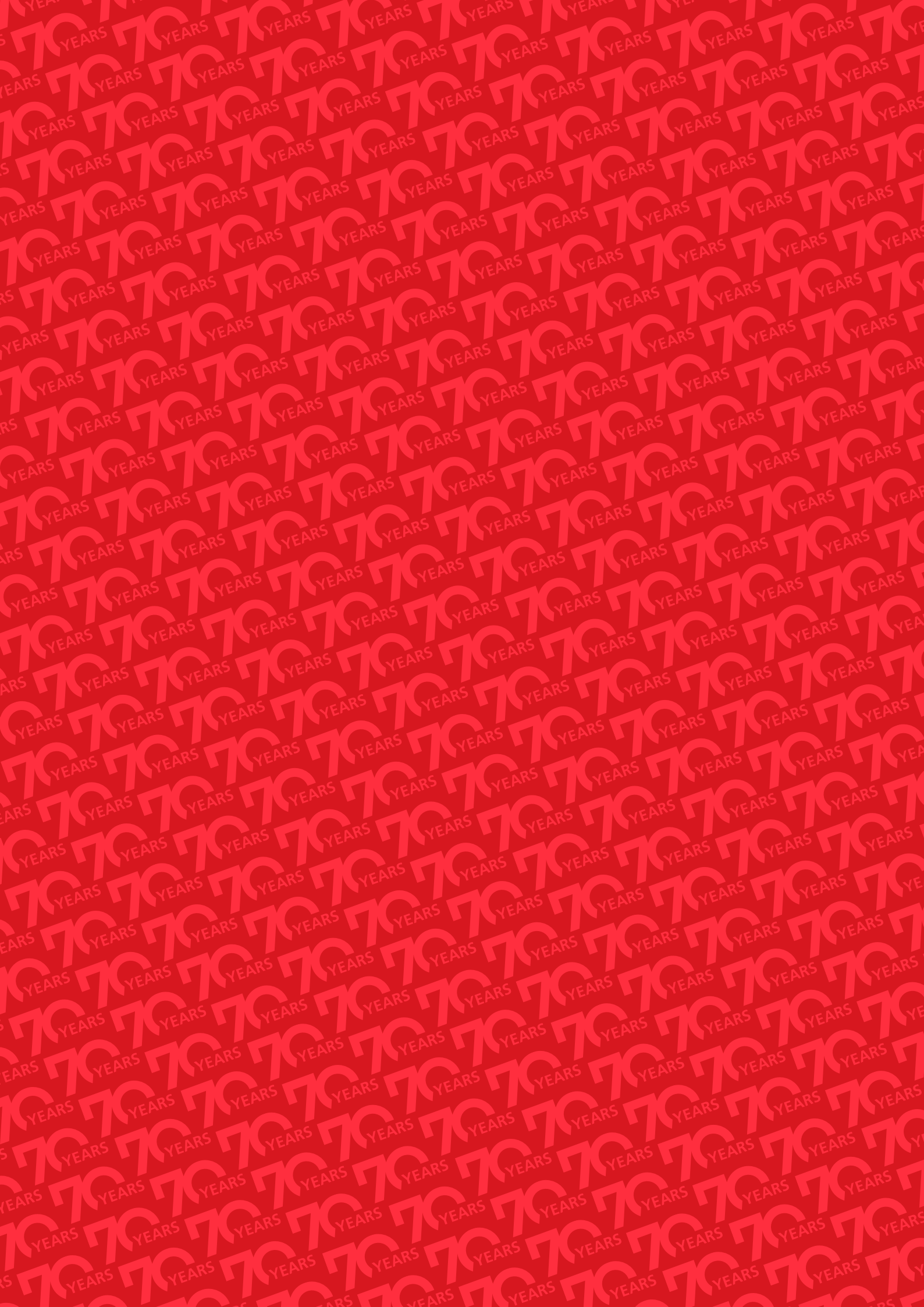
ROTHENBERGER
pipetool technologies at work



MAIN CATALOG 2019



70
YEARS



Welcome to ROTHENBERGER!

We follow the pipe. The needs of service technicians and installers drive what we do at ROTHENBERGER. On this basis we develop pipe tools, machines and services to make professionals more productive.

We see the world through your eyes, because you are our Number One – and have been for 70 years. Accordingly, we would like to celebrate you and your achievements in 2019, because you have contributed to making ROTHENBERGER what the brand is today.

Thank you for your trust – and enjoy our anniversary year with us!





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.

When you perform your work neatly, quickly and profitably, and go back home satisfied, then we have done a good job.



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 **CAS¹⁾** batteries to operate more than 110 compatible machines.



Service for professionals: always prepared.

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





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.

Also, visit us on Facebook and YouTube!



Applications

Page

Installation	Cutting		8	1
	RODIA Diamond Core Drilling		34	2
	Bending		52	3
	Expanding, Extracting, Flaring		74	4
	Pressing		98	5
	Threading & Grooving		122	6
	Soldering & Welding		144	7
Service & Maintenance	Testing & Leak Detection		180	8
	Freezing		192	9
	Inspection & Locating		198	10
	Flushing & Pipe Cleaning		212	11
	ROWELD Plastic Pipe Welding		248	12
	Refrigeration & Air-Conditioning Technology		272	13
	General-Purpose Tools		294	14
	Index – Alphabetical / Numeric, Legend – Abbreviations / Pictograms		344	15





* Detailed terms and conditions rothenberger.com/de-de/5-jahres-umtauschgarantie



Cutting



System overview	10 - 13
Cutting metal, manual	
Tube cutter for copper & steel	14 - 18
Tube cutter for stainless steel (INOX) & steel	18 - 20
Cutting wheels & spare parts	21
Cutting plastic / MSR, manual	
Plastic pipe shears	22 - 23
Tube cutter for plastic	24 - 25
Tube cutter for MSR	25
Sawing, manual	
Hand saws & saw blades	26
Sawing, electric	
Band saws	27
Pipe saws	28
Universal saws	29
Saw blades	30
Deburring, chamfering & calibration	
Universal internal & external deburrer	31
Deburrer for metal	32
Chamfering unit for plastic	32
Deburrer for MSR	33

Pipe cutters for steel, plastic, MSR					
	TC 35 DURAMAG	TC 35 C	TC 35 DURAMAG MSR	TC 35 PRO INOX DURAMAG	TC 42 PRO
					
Working range:	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-35 mm (1/4-1.3/8")	Ø 6-42 mm (1/4-1.5/8")
Dimensions:	150 x 60 x 40 mm	150 x 60 x 40 mm	150 x 60 x 40 mm	150 x 60 x 40 mm	160 x 60 x 40 mm
Weight:	255 g	470 g	255 g	255 g	550 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes	Refrigeration technology	PE-, PP-, PVDF-, PVC, plastic-coated pipes	Stainless steel	Cu, brass, Al, thin-walled steel pipes




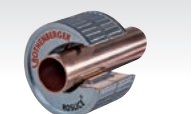
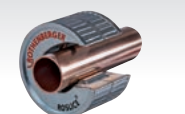
Page	14, 15	14, 15	14, 15	14, 15	14, 15
------	--------	--------	--------	--------	--------

	TC 42 PRO MSR	TC 42 PRO PVC	TC 42 PRO INOX	MINICUT I PRO	MINICUT II PRO
					
Working range:	Ø 6-42 mm (1/4-1.5/8")	Ø 6-42 mm (1/4-1.5/8")	Ø 6-42 mm (1/4-1.5/8")	Ø 3-16 mm (1/8-5/8")	Ø 6-22 mm (1/4-7/8")
Dimensions:	160 x 60 x 40 mm	160 x 60 x 40 mm	160 x 60 x 40 mm	46 x 35 x 22 mm	55 x 38 x 22 mm
Weight:	550 g	550 g	550 g	110 g	125 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle
Suitable for:	PE, PP, PVDF, plastic-coated pipes	PE, PP, PVDF, plastic-coated pipes	Stainless steel	Cu, brass, Al, thin-walled steel pipes	Cu, brass, Al, thin-walled steel pipes

Page	14, 15	14, 15	15, 19	16	16
------	--------	--------	--------	----	----

	MINICUT 2000	MINI MAX	TUBE CUTTER 30 PRO	TUBE CUTTER 50	TUBE CUTTER 30 PRO INOX
					
Working range:	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")	Ø 12-50 mm (1/2-2")	Ø 3-30 mm (1/8-1.1/8")
Dimensions:	70 x 40 x 30 mm	80 x 60 x 30 mm	150 x 60 x 28 mm	175 x 75 x 30 mm	150 x 60 x 28 mm
Weight:	140 g	270 g	305 g	520 g	305 g
Extras:	Spare cutter wheel, spare axle	Spare cutter wheel, spare axle	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer, spare cutter wheel
Suitable for:	Cu, brass, Al, thin-walled steel pipes	Cu, brass, Al, thin-walled steel pipes	Cu, brass, Al, thin-walled steel pipes	Cu, brass, Al, thin-walled steel pipes	Stainless steel, thin-walled steel pipes

Page	16	16	17	17	18
------	----	----	----	----	----

Pipe cutters for steel					
	Automatic pipe cutter size 1	Automatic pipe cutter size 2	Chain pipe cutter	ROSLICE 12 mm	ROSLICE 15 mm
					
Working range:	Ø 6-67 mm (1/4-2.5/8")	Ø 50-127 mm (2-5")	Ø 20-100 mm (1-4")	Ø 12 mm (1/2")	Ø 15 mm (5/8")
Dimensions:	240 x 110 x 50 mm	360 x 80 x 70 mm	370 x 280 x 250 mm	48 x 48 x 35 mm	48 x 48 x 35 mm
Weight:	755 g	755 g	575 g	230 g	240 g
Extras:	Internal pipe deburrer, spare cutter wheel	Internal pipe deburrer	–	–	–
Suitable for:	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes	Cu, brass, Al, thin-walled steel pipes, plastic-coated pipes	Cu	Cu




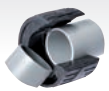


Page	17	17	17	18	18
------	----	----	----	----	----






	ROSLICE 18 mm	ROSLICE 22 mm	TUBE CUTTER INOX	ENORM 4"	SUPER 1.1/4"
					
Working range:	Ø 18 mm (3/4")	Ø 22 mm (7/8")	Ø 6-60 mm (1/4-2.3/8")	Ø 60-115 mm (2-4")	Ø 10-42 mm (1/8-1.1/4")
Dimensions:	58 x 58 x 35 mm	58 x 58 x 35 mm	230 x 110 x 40 mm	600 x 175 x 55 mm	270 x 80 x 35 mm
Weight:	250 g	260 g	780 g	7,105 g	1,040 g
Extras:	–	–	–	–	–
Suitable for:	Cu	Cu	Stainless steel	Steel	Steel




Page	18	18	19	20	20
------	----	----	----	----	----

	SUPER 2"	SUPER 1.1/4" INOX	SUPER 2" INOX
			
Working range:	Ø 10-60 mm (1/8-2")	Ø 10-42 mm (3/8-1.1/4")	Ø 10-60 mm (3/8-2")
Dimensions:	370 x 100 x 55 mm	280 x 110 x 40 mm	370 x 100 x 55 mm
Weight:	2,155 g	1,040 g	2,155 g
Extras:	–	–	–
Suitable for:	Steel	Stainless steel	Stainless steel

Page	20	20	20
------	----	----	----

Plastic pipe cutters						
	TC 67 PL	TC 125 PL	TC 168 PL	PLASTICUT PVC 32 mm	PLASTICUT PVC 40 mm	PLASTICUT PVC 50 mm
						
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")	Ø 32 mm	Ø 40 mm	Ø 50 mm
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	55 g	70 g	115 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	PVC	PVC	PVC
Page	24	24	24	25	25	25

Plastic shears					
	ROCUT TC 26	ROCUT TC 32	ROCUT PS 35	ROCUT PS 26/42 S	ROCUT TC 42
					
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")	Ø 0-42 mm (0-1.5/8")
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	210 x 100 x 25 mm
Weight:	370 g	220 g	740 g	950 g	447 g
Suitable for:	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR
Page	22, 23	22, 23	22, 23	22, 23	22, 23

	ROCUT TC 50	ROCUT TC 63	ROCUT TC 75
			
Working range:	Ø 0-50 mm (0-2")	Ø 0-63 mm (0-2.1/2")	Ø 0-75 mm (0-3")
Dimensions:	260 x 120 x 25 mm	280 x 130 x 30 mm	480 x 165 x 35 mm
Weight:	600 g	700 g	1,740 g
Suitable for:	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR	PP, PE, PEX, PB, PVDF, MSR
Page	22, 23	22, 23	22, 23

Pipe saws		
	ROTIGER VARIO ELECTRONIC	UNIVERSAL ROTIGER VARIO ELECTRONIC
		
Working range:	up to Ø 6"	–
Power:	1,500 W (230V, 110V)	1,600 W (230V), 1,300 W (110V)
Speed:	0 - 2,200 rpm	1,000 - 2,800 rpm
Weight:	4.3 kg	3.7 kg
Hub:	26 mm	26 mm
Dimensions:	491 x 94 x 108 mm	440 x 120 x 80 mm
Saw blade holder:	Universal, U-shaft, special pipe saw blades	Quick tensioning for universal saw blades
Extras:	Chain tensioning device up to Ø 6"	–
Page	28	29

1 TUBE CUTTER 35 / 42 Pro

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

Product profile

APPLICATION AREA

TC 35 / TC 42
For copper, brass, aluminium, thin-walled steel pipes
TC 35 Ø 6 - 35 mm / TC 42 Ø 6 - 42 mm
TC 35 MSR / TC 42 Pro MSR
PE, PP, PVDF, plastic-coated pipes, PVC hard plastic pipes
TC 35 MSR Ø 6 - 35 mm / TC 42 Pro MSR 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

DURAMAG
Hi-Tec magnesium body

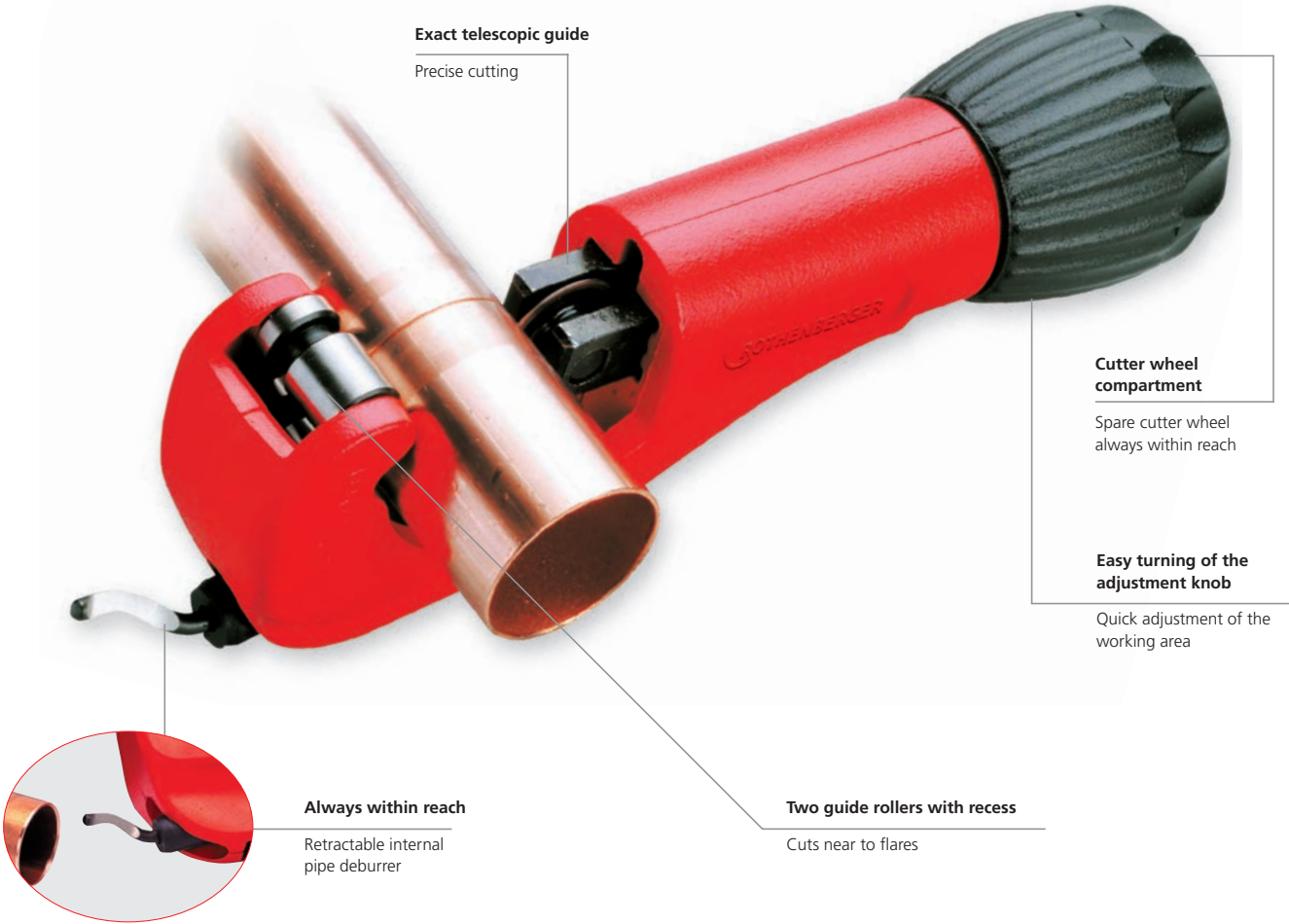
CE

ROTHENBERGER
DURAMANT
TECHNOLOGY

KEY FEATURES

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

Metal casing with DURAMANT coating:
rugged and robust



For copper and aluminium



For MSR pipes



For INOX (stainless steel) pipes



For refrigeration technology



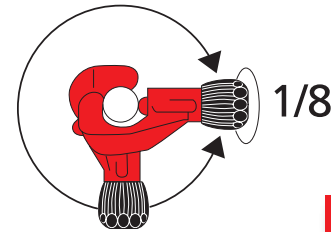
TUBE CUTTER 35 DURAMAG counter display

Counter display includes six
TUBE CUTTER 35 DURAMAG

Product profile

KEY FEATURES

- Improved performance
- Higher stability with noticeably less weight



Constant, tight working radius
of 123 mm

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



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

Set (No. 1000002002) includes: TUBE CUTTER 35, 6 - 35 mm (70027), internal & external deburrer 6 - 35 mm (No. 1500000237), permanent-marker Prepare to Press (No. 1500002640), ROBOX B2350 (No. 1500002641)

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

Model	mm	inch	g			No.
TUBE CUTTER 35 DURAMAG (Cu, brass, Al, thin-walled pipe)	6 - 35	1/4" - 1.3/8"	255	1	4	70027
TUBE CUTTER 35 + cutter wheel set, ROBOX	6 - 35	1/4" - 1.3/8"	360	1	20	1000002190 *
Handtool set prepare to press	6 - 35	1/4" - 1.3/8"	460	1	20	1000002002
TUBE CUTTER 35 DURAMAG counter display	6 - 35	1/4" - 1.3/8"	1,700	1	6	070027DB
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	1	4	070027C
TUBE CUTTER 35 DURAMAG MSR	6 - 35	1/4" - 1.3/8"	255	1	4	70108
TUBE CUTTER 35 PRO INOX DURAMAG (stainless steel)	6 - 35	1/4" - 1.3/8"	255	1	4	70055
TUBE CUTTER 35 INOX + cutter wheel set, ROBOX	6 - 35	1/4" - 1.3/8"	500	1	20	1000002222 *
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	550	1	4	70029
TUBE CUTTER 42 PRO MSR	6 - 42	1/4" - 1.5/8"	550	1	4	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	550	1	4	70072
TUBE CUTTER 42 PRO INOX (stainless steel)	6 - 42	1/4" - 1.5/8"	550	1	4	70070

* ROBOX system p. 340

TUBE CUTTER 42 XL

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

Product profile

APPLICATION AREA

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

KEY FEATURES

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

** Stainless steel compared to TC 42 Pro

Model	g	No.
TUBE CUTTER 42 XL	500	1000001748
Spare cutter wheel (contains 5 pcs.)	20	070056D



Cutting

Cutting metal, manual

1

ROTRAC 28 / 42

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



KEY FEATURES

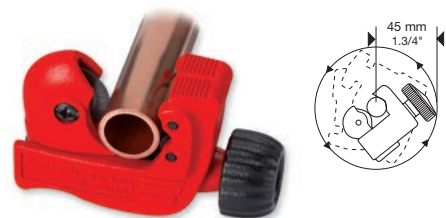
- Constant working radius
- Cast aluminium design
- Protection of the cutter wheel with the rolling stop
- Retractable internal deburrer and spare cutter wheel in handle
- Protected screw spindle – protection against dirt and jamming

Model	mm	inch	g	No.
ROTRAC 28	3 - 28	1/8 - 1.1/8"	220	70010
ROTRAC 42	6 - 42	1/4 - 1.5/8"	255	70011
ROTRAC 28 PLUS chrome, limited edition			220	1000000046
Spare axle			5	70080
Spare cutter wheel INOX			20	070007X
Spare cutter wheel (3 pcs.) for Cu, Al, brass			20	070007D

MINICUT 2000

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

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



KEY FEATURES

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

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

MINICUT I PRO / II PRO

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

Ideal for maintenance and repair work!



KEY FEATURES

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

Model	mm	inch	g	No.
MINICUT I PRO	3 - 16	1/8 - 5/8"	115	70401
MINICUT II PRO	6 - 22	1/4 - 7/8"	125	70402
Spare cutter wheel			20	070017D
Spare axle			5	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



Set (No. 1000002191) includes:
MINICUT I PRO pipe cutter, 3 - 16 mm (No. 70401), MINI MAX pipe cutter, 3 - 28 mm (No. 70015), ROBOX B2350 (No. 1500002641)



KEY FEATURES

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

Model	mm	inch	g	No.
MINI MAX	3 - 28	1/8 - 1.1/8"	270	70015
MINICUT I PRO + MINI MAX, ROBOX				1000002191*
Spare cutter wheel			20	070017D
Spare axle			5	70041

* ROBOX system p. 340

TUBE CUTTER 30 PRO / 50

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

KEY FEATURES

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

Model	mm	inch	g	No.
TUBE CUTTER 30 PRO	3 - 30	1/8 - 1.3/8"	305	71019
TUBE CUTTER 50	12 - 50	1/2 - 2"	520	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	mm	inch	g	No.
Size 1	6 - 67	1/4 - 2.5/8"	755	70030
Size 1 spare deburring blade			5	21652
Size 1 spare cutter wheel (5 pcs.)			20	070017D
Size 2 spare cutter wheel (2 pcs.)			20	070057D
Size 2 spare deburring blade			5	21652

Chain pipe cutter

For pipes Ø 20 - 100 mm (1 - 4")

KEY FEATURES

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

Model	mm	inch	g	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	1500000237
Internal / external deburrer, Ø 10 - 54 mm	1500000236
GRATFIX	21655
UNIGRAT	21660
Spare cutter wheels	21

Cutting

Cutting metal, manual

1



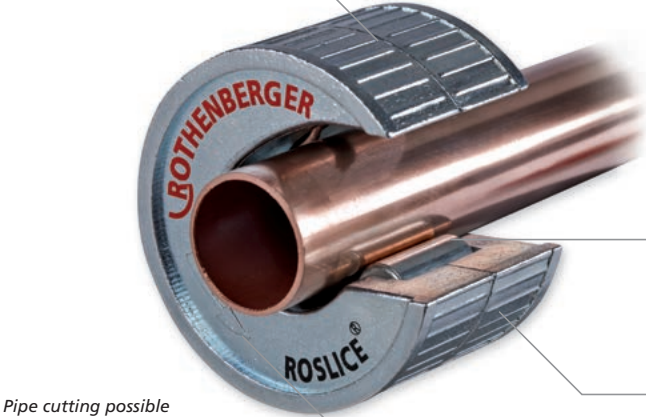
Model	g	No.
Spare cutter wheel (5 Pcs.)	20	070017D
Spare axle	5	70041



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

Ergonomic form

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



Pipe cutting possible near the wall



Indicates rotating direction

Quick cutting with just a few turns

KEY FEATURES

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

Self-clamping and self-alignment

Prevents the deformation of the pipe

Non-slip surface

Reliable grip

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

TUBE CUTTER 30 PRO INOX

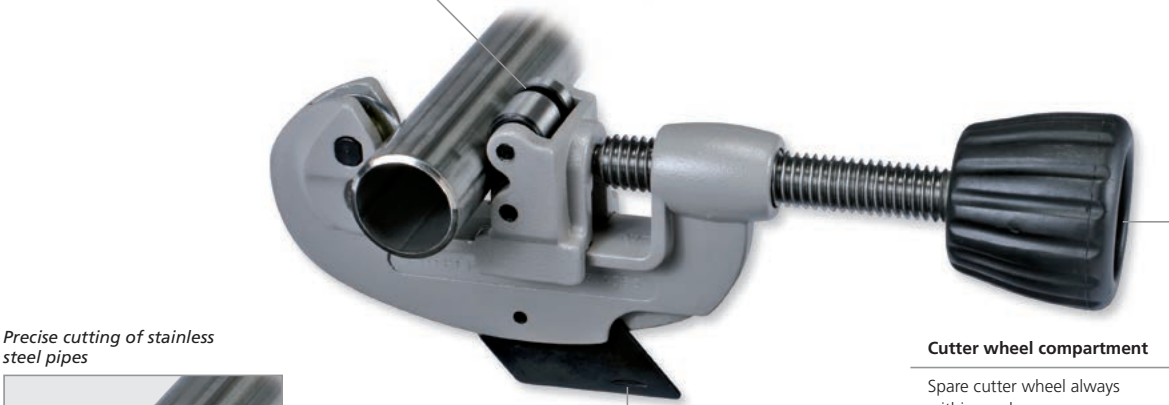
Stainless steel pipe cutter Ø 3 - 30 mm (1/8 - 1.1/8")
for the precise cutting of stainless steel pipes

INOX



2 guide rollers with recess

Cut near flares



Precise cutting of stainless steel pipes



Internal deburrer

Retractable

Cutter wheel compartment

Spare cutter wheel always within reach

KEY FEATURES

- Retractable internal deburrer and spare cutter wheel in handle
- Two guide rollers with recess for cuts near flares

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

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

KEY FEATURES

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

12 x ball bearings!

Model	mm	inch	g		No.
TUBE CUTTER INOX	6 - 60	1/4 - 2.3/8"	305	4	70340
TUBE CUTTER INOX + cutter wheel set, ROBOX				1	1000002192*
Spare cutter wheel			20	1(2)	70341

* ROBOX system p. 340



12x ball bearings

Extremely stable, fast and direct guidance of the pipe

INOX



Easy turning of the adjustment knob

Quick adjustment of the working area

Metal casing made of aluminium

Rugged and robust

No. 1000002192

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	mm	inch	g	No.
TC 35 INOX	6 - 35	1/4 - 1.3/8"	440	70055
TUBE CUTTER INOX + cutter wheel set, ROBOX				1000002222*
TC 42 PRO INOX	6 - 42	1/4 - 1.5/8"	510	70070

* ROBOX system p. 340



Easy turning of the adjustment knob

Quick adjustment of the working area

Model	g	No.
Spare cutter wheel (5 pcs.)	20	070056D
Spare deburring blade	10	21652

TUBE CUTTER CSST

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

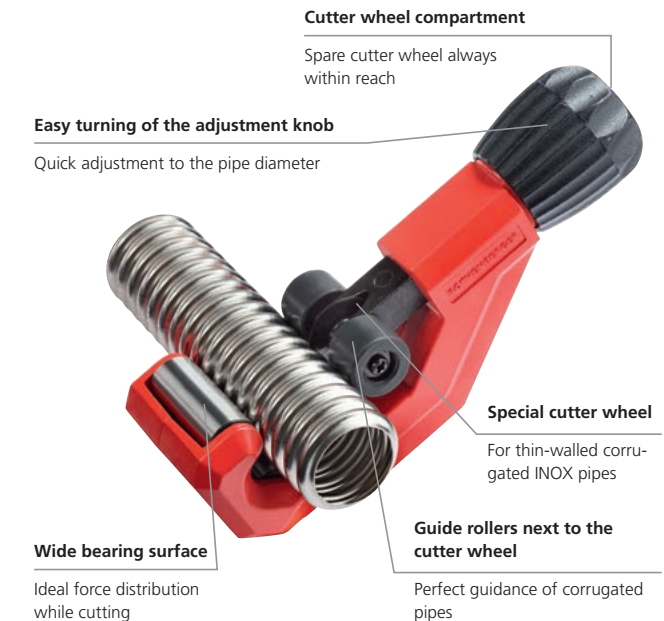
KEY FEATURES

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

APPLICATION AREA

Corrugated pipes with a wall thickness of up to 0.2 mm

Model	kg	No.
TUBE CUTTER CSST 42 mm	0.5	1000001747
Cutter wheel CSST pipe (contains 5 pcs.)		1000002077



Cutter wheel compartment

Spare cutter wheel always within reach

Easy turning of the adjustment knob

Quick adjustment to the pipe diameter

Special cutter wheel

For thin-walled corrugated INOX pipes

Guide rollers next to the cutter wheel

Perfect guidance of corrugated pipes

Wide bearing surface

Ideal force distribution while cutting

Cutting

Cutting metal, manual

1

ENORM 4"

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



KEY FEATURES

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

KEY FEATURES

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

Thread for handle

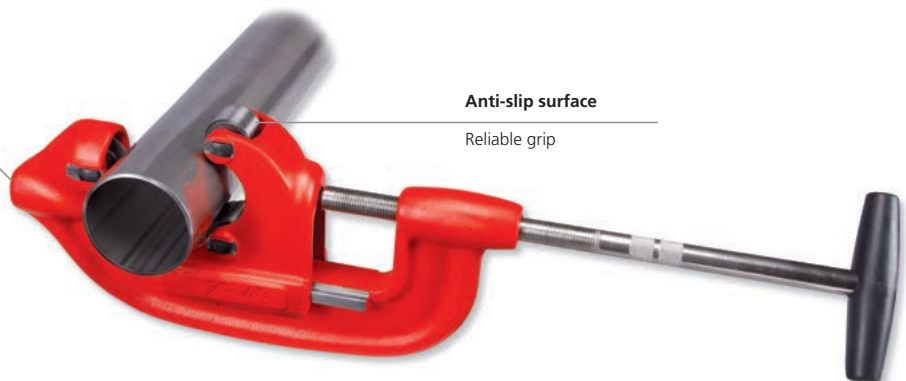


Handle (included in delivery)



Anti-slip surface

Reliable grip



Model	mm	inch	g	No.	Model	g	No.
ENORM 4"	60 - 115	2 - 4"	7,105	70060	Spare axle	5	70064
Spare cutter wheel (2 pcs.)			20	070061D			

SUPER 1.1/4" and 2"

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

KEY FEATURES (SUPER/SUPER INOX)

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

SUPER 1.1/4" and 2" INOX

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

KEY FEATURES (SUPER/SUPER INOX)

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

Precise cutting of stainless steel pipes

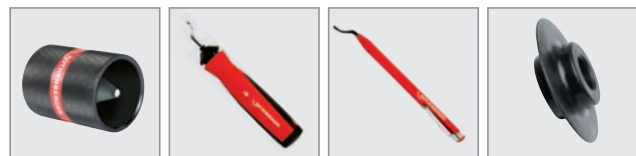


INOX



Model	mm	inch	g	No.	Model	mm	inch	g	No.
SUPER 1.1/4"	10 - 42	1/8 - 1.1/4"	1,040	70040	SUPER 1.1/4" INOX	10 - 42	1/8 - 1.1/4"	1,040	70086
SUPER 2"	10 - 60	1/8 - 2"	2,155	70045	SUPER 2" INOX	10 - 60	1/8 - 2"	2,155	70087
1.1/4" spare cutter wheel (3 pcs.)			20	070046D	1.1/4" spare cutter wheel (2 pcs.)			20	070088D
1.1/4" spare axle			5	701011500	1.1/4" spare axle			5	701011500
2" spare cutter wheel (3 pcs.)			20	070051D	2" spare cutter wheel (2 pcs.)			20	070089D
2" spare axle			5	70053	2" spare axle			5	70053

ACCESSORIES



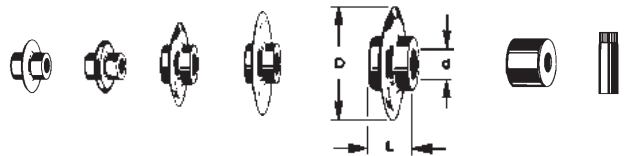
Model		No.
Internal / external deburrer, Ø 6 - 35 mm	31	1500000237
Internal / external deburrer, Ø 10 - 54 mm	31	1500000236
GRATFIX	32	21655
UNIGRAT	32	21660
Spare cutter wheels	21	


Cutting

Accessories cutting metal, manual

Pipe cutters, cutting wheels and spare parts

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



Pipe cutter type	Model for pipe - Ø	No.	Cutting wheel No.	Sizes d, L, D mm		Cutting depth	Spare axle No.	Ø mm Length mm Thread	Spare roller No.	Deburring blade No.	Application area	
MINICUT I PRO	3 - 16 mm	70401	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-	Copper pipe (Cu),	
MINICUT II PRO	6 - 22 mm	70402	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-	brass pipe (Ms),	
MINICUT 2000	6 - 22 mm	70105	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-	aluminium pipe (Al),	
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-	thin-walled steel pipe (Fe),	
											PVC hard plastic pipe, plastic-coated pipe	
TUBE CUTTER 30 PRO	3 - 30 mm	71019	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu),	
TUBE CUTTER 35 + 35 C	6 - 35 mm	070027(C)	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652	brass pipe (Ms),	
TUBE CUTTER 42 PRO	6 - 42 mm	70029	070017D	4.8 / 5.90 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652	aluminium pipe (Al),	
TUBE CUTTER 35 MSR	6 - 35 mm	70108	070188D	4.8 / 5.90 / 19.3	5	4.0	70041	4.7 / 14 / M3	70067	21652	thin-walled steel pipe (Fe),	
TUBE CUTTER 42 PRO MSR	6 - 42 mm	70109	070188D	4.8 / 5.90 / 19.3	5	4.0	70041	4.7 / 14 / M3	70067	21652	PVC hard plastic pipe, plastic-coated pipe	
TUBE CUTTER 50	12 - 50 mm	70065	070017D	4.8 / 5.90 / 18.5	5	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe	
AUTOMATIC pipe cutter	Size 1	70030	070017D	4.8 / 5.90 / 18.5	5	3.0	70042	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled	
		70031	070028D	4.8 / 5.90 / 23.6	3	7.0	70042	4.7 / 16 / M4	-	21652	PE, PP, VPE, PB and PVDF pipes	
	Size 2	70142	070057D	8.0 / 14.0 / 29.0	2	7.0	751004200	7.9 / 23.5 / 1/4"	-	21652	thin-walled Cu, Ms, Al, Fe	
		055054D	8.0 / 13.0 / 40.0	3	13.0	751004200	7.9 / 23.5 / 1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes		
		055053D	8.0 / 13.0 / 30.5	2	8.0	751004200	7.9 / 23.5 / 1/4"	-	21652	thin-walled PP pipes		
		055074D	8.0 / 11.0 / 45.0	2	16.0	751004200	7.9 / 23.5 / 1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes		
	Size 3	055074D	8.0 / 11.0 / 45.0	2	16.0	751004200	7.9 / 23.5 / 1/4"	-	21652	PE, PP, VPE, PB and PVDF pipes		
		055053D	8.0 / 11.0 / 30.5	2	8.6	751004200	7.9 / 23.5 / 1/4"	-	21652	thin-walled PP pipes		
	TUBE CUTTER 28	3 - 28 mm	70010	070007D	4.8 / 3.0 / 16.0	3	2.5	70080 + 70081	4.7 / 9 / SR	80679	-	Cu, Ms, Al, Fe thin-walled
	TUBE CUTTER 42	3 - 42 mm	70011	070007D	4.8 / 3.0 / 16.0	3	2.5	70080 + 70081	4.7 / 9 / SR	80679	-	Cu, Ms, Al, Fe thin-walled
TUBE CUTTER 42 PRO PVC	6 - 42 mm	70072	070028D	4.8 / 5.90 / 23.6	3	7.0	70041	4.7 / 14 / M3	70067	-	PE, PP, VPE, PB and PVDF pipes	
Steel pipe cutter SUPER	1/8" - 1.1/4" 1/8" - 2"	70040 70045	070046D 070051D	7.5 / 14.0 / 25.7 9.0 / 17.0 / 31.5	3 3	5.5 6.0	701011500 70053	7.4 / 30 / - 8.9 / 35 / -	70047 70052	- -	Steel pipe (Fe) Steel pipe (Fe)	
Steel pipe cutter ENORM	2" - 4"	70060	070061D	9.7 / 20.0 / 41.0	2	8.0	70064	9.4 / 52 / -	70063	-	Steel pipe (Fe)	
TUBE CUTTER 30 PRO INOX	3 - 30 mm	71085	070056D	4.8 / 5.9 / 18.5	5	5.5	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe	
TUBE CUTTER INOX	10 - 54 mm	70340	70341	5.0 / 21.0 / 30.0	2	3.5	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
TUBE CUTTER 35 INOX	6 - 35 mm	70055	070056D	4.8 / 5.90 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
TUBE CUTTER 42 PRO INOX	6 - 42 mm	70070	070056D	4.8 / 5.90 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
SUPER INOX	1/8" - 1.1/4" 1/8" - 2"	70086 70087	070088D 070089D	4.8 / 5.90 / 19.3 9.0 / 19.0 / 31.5	2 2	4.0 7.0	701011500 70053	7.4 / 30 / - 8.9 / 35 / -	70047 70052	- -	Stainless steel pipe Stainless steel pipe	
Chain pipe cutter	100 mm	70285	-	4.0 / 3.80 / 17.8	-	3.0	-	-	Spare chain 70286		Cu, Ms, Al, Fe thin-walled	

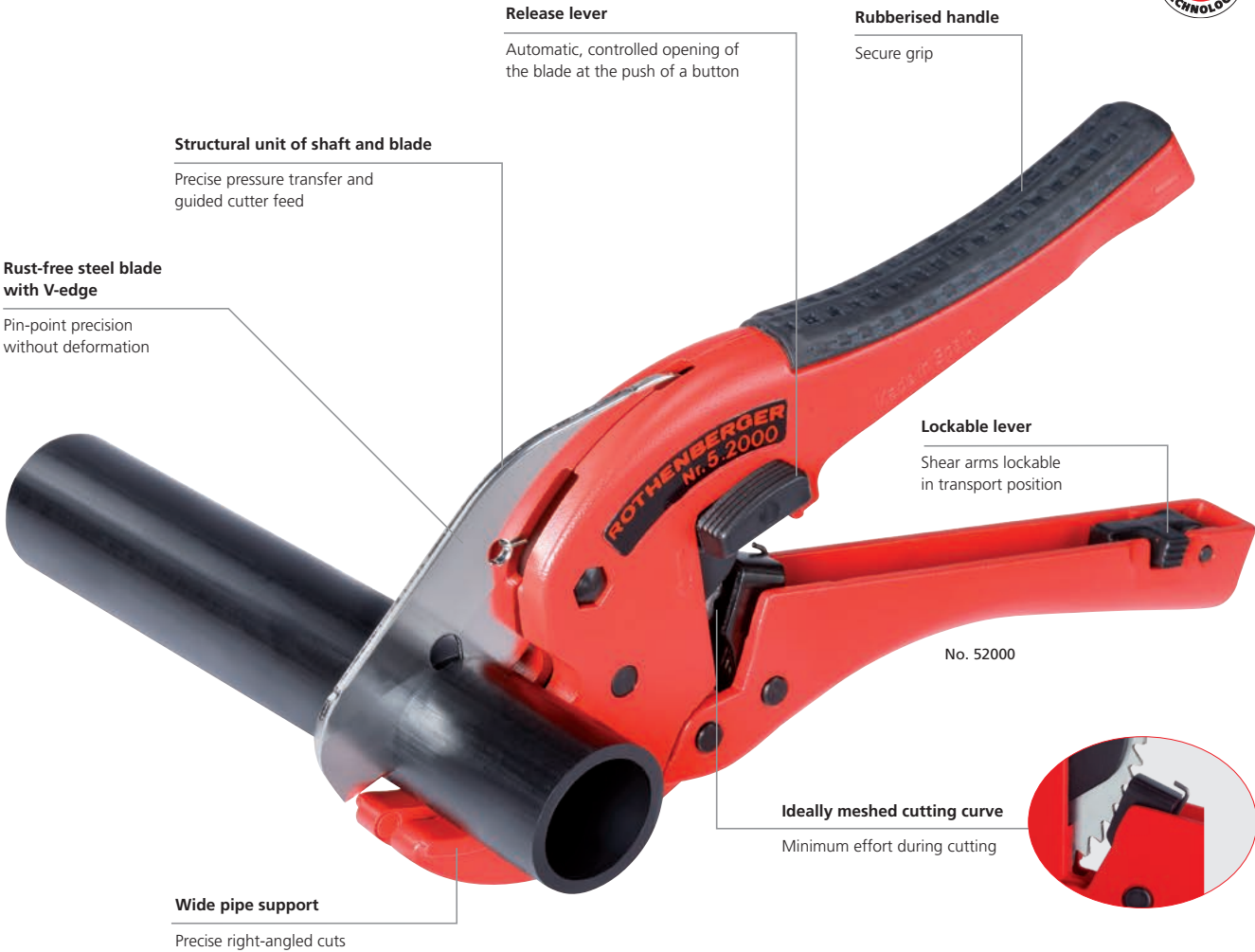
ROCUT

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

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

Product profile
APPLICATION AREA
For precise cutting of PP, PE, PEX, PB, PVC and PVDF pipes up to Ø 75 mm
KEY FEATURES
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Secure grip with the rubberised handles• Shear arms lockable in transport position
TECHNICAL DATA
ROCUT Professional: TC 42: Ø 0 - 42 mm TC 50: Ø 0 - 50 mm TC 63: Ø 0 - 63 mm TC 75: Ø 0 - 75 mm
ROCUT Standard: TC 26: Ø 0 - 26 mm TC 32: Ø 0 - 32 mm PS 35: Ø 6 - 35 mm PS 26/42: Ø 6 - 42 mm



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

ROCUT TC 50 / TC 75 Professional

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



ROCUT TC 26 / TC 32
PS 26 / PS 42 S / PS 35 S

Plastic pipe shears up to Ø 42 mm (1.5/8")
(TC 32 for multi-layer composite pipes MSR)



ROCUT TC 63 Professional

Plastic pipe shears up to Ø 63 mm (2.1/2")
(TC 63 Professional for PVC pipes)



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

* ROBOX system p. 340

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



1 TUBE CUTTER 67 / 125 / 168
PL Automatic

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

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



KEY FEATURES
<ul style="list-style-type: none">Maximum strength with the monoblock aluminium constructionOptimum, fatigue-free operation with the ergonomically optimised metal handleFast adjustment to the outer tube diameter with the telescopic ratchet guideFast opening with automatic retractionInternal pipe deburrer retracts into cutter bodyHardened, 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"



Removable
internal pipe
deburrer



Model	mm	inch	Cutting- depth	kg	g	No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	7.0	0.7	1	70031
TC 125 PL	50 - 125	2 - 5"	13.0	1.6	1	70032
TC 168 PL	110 - 168	4 - 6.5/8"	16.0	1.7	1	70033
TC 67 PL, counter display					1 (4)	070031D
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

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

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

Product profile
APPLICATION AREA
TUBE CUTTER 35 MSR and 42 PRO MSR for multi-layer composite pipes TUBE CUTTER 42 PRO PVC for PVC pipes
KEY FEATURES
<ul style="list-style-type: none">Space-saving work, also in confined spaces, uniform, small working radius of 123 mmRight-angled and burr-free cutting with precise telescopic guidanceFast and simple adjustment of the working range due to the feed being synchronised with the feeder rotationOptimum, fatigue-free operation with the optimised ergonomic handleOnly one tool for cutting and deburring due to integrated, retractable internal pipe deburrerSpare cutter wheel in the handle

Model	mm	inch	g	kg	No.
TC 35 MSR	6 - 35	1/4 - 1.3/8"	440	1	10 70108
Spare cutter wheel TC 35/42 MSR			19	1	5 070188D

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



Model	mm	inch	g	kg	No.
TC 42 PRO MSR	6 - 42	1/4 - 1.5/8"	510	1	10 70109
TC 42 PRO PVC	6 - 42	1/4 - 1.5/8"	510	1	4 70072
Spare cutter wheel TC 42 PVC			10	3	070028D

PLASTICUT PVC

For quick, clean and right-angled cuts on PVC pipes

KEY FEATURES
<ul style="list-style-type: none">Fast cut: quick cutting with just a few turnsFlexible casing, allows cutting on smaller diametersLess space required, ideal for hard-to-reach placesNo deformation of the pipe: self-clamping and self-alignmentReadjustment not necessary

- No deformation of the pipe!
- No fraying of the cut edge!
- Chipless pipe cutting!

Model	mm	No.
PLASTICUT PVC	32 mm	59035M
PLASTICUT PVC	40 mm	59042M
PLASTICUT PVC	50 mm	59050M
Spare blade plastic type A (3 pcs.)		
10 mm, 15 mm, 20 mm, 22 mm, 32 mm, 40 mm, 50 mm		59000R
PLASTICUT Plus, MSR	16 mm	88716
PLASTICUT Plus, MSR	20 mm	88720
PLASTICUT Plus, MSR	26 mm	88726
PLASTICUT Plus, MSR	32 mm	88732
PLASTICUT Plus Set, MSR	16-20-25/26 mm	88700
PLASTICUT Plus Set, MSR	16 + 20 mm	88701
Cutter wheel f. PLASTICUT Plus MSR 16 - 32 mm		88777

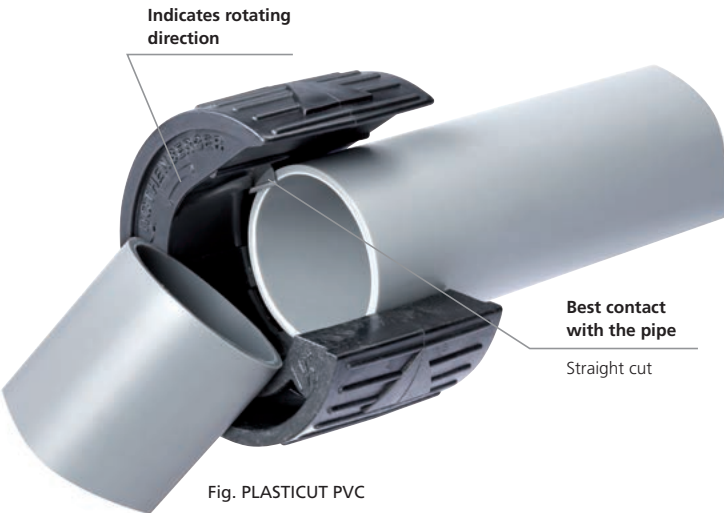
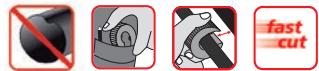


Fig. PLASTICUT PVC

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



Cutting


Sawing, manual

1 ROBO Super

Safety saw frame

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




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

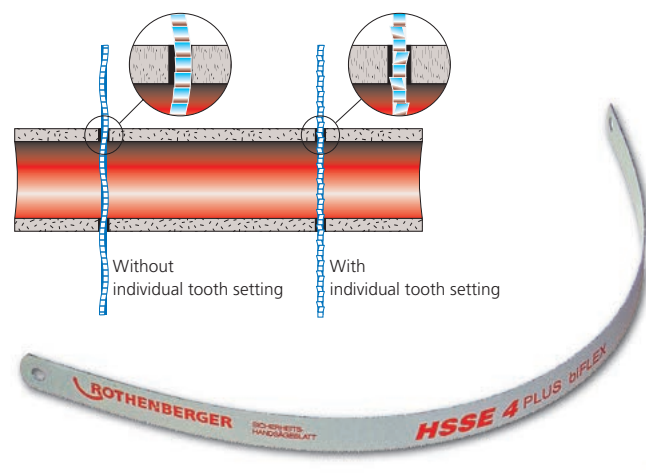
Metal saw frame

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

Cross-slotted squared clamping piece



Model	Clamping width mm	 g	No.
Metal saw frame without saw blade	300	530	300013




Hand saw blades with single offset teeth optimally cut the hand saw blade free. Jamming in the workpiece is prevented. Therefore, the working rhythm is maintained, less effort is needed and there is a higher cutting performance.

ROBO Mini

Small saw frame

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




Model	Clamping width mm	 g	No.
ROBO Mini including UNIVERSAL saw blade (No. 71217)	150	160	71222

UNI small saw PUK

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



Model	Clamping width mm	 g	No.
PUK static, with UNIVERSAL saw blade	150	100	842100
PUK adjustable, with UNIVERSAL saw blade (w. App.)	150	140	71215
UNIVERSAL saw blade for metal	150 (32 TPI)	20	71217
Saw blade for wood	150 (14 TPI)	20	71216




HSSE 4 Plus

Bimetal hand saw blade

Highly flexible spring band steel with fused HSSE cutter

- Highest flexibility with extremely hard teeth
- Hardness approx. 65 HRC: Average service life 4 times longer
- Risk of breakage significantly reduced even under extreme operational demands
- Precise cutting with individual tooth setting



Model	mm	TPI	 g			No.
HSSE 4 Plus	300	24	20	1	100	71213

Cutting

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 features
- **Preserves saw blade life** with the 4-way adjustable cutting pressure

PORTACUT 185 BSR


- With safety chain quick-grip system

PORTACUT 185 BSP


- With parallel vice for clean, exact cuts and mitred cuts up to 45°

Cutting power Machine Type	Straight Cuts		45° Cuts	
	Ø mm	□ mm	Ø mm	□ mm
185 BSR	180	150	–	–
185 BSP	180	150	85	75

Sets include: PORTACUT 185 BSR and/or BSP, 2 band saw blades HSS bimetal 14 TPI (No. 56605)

Model	 kg	230 V	110 V
PORTACUT 185 BSR	43	56710	56717
PORTACUT 185 BSP	49	56711	56718

Band saw blades for PORTACUT 185 BSR / BSP

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




TRENNBOY 300

Pipe cutter up to Ø 300 mm

For cutting of SML cast iron / steel pipes up to Ø 300 mm, profiles / solids up to Ø 70 mm. For use with market-standard angle grinders and cut-off wheels Ø 230 mm.

KEY FEATURES

- For quick, precise, right-angled cutting
- Basic model with right and left telescopic extension
- Extendable to a total support length of 1,680 mm
- Mountable as desired with "C" clamp
- Easy mounting of the angle grinder with the toggle screw

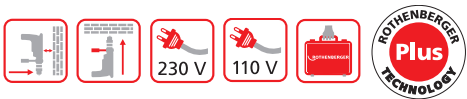
Model	 kg	No.
TRENNBOY 300 (without angle grinder)	13.5	58520
Double telescoping extension rail, r. (300 mm)	1.9	58527
Double telescoping extension rail, l. (300 mm)	1.9	58528
"C" clamp	0.4	58529



TRENNBOY 300 (No. 58520) with double telescoping extension rail, right (No. 58527) and left (No. 58528), "C" clamp (No. 58529), angle grinder and cut-off wheel (not included in delivery)

ROTIGER VARIO Electronic

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



Product profile

KEY FEATURES

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

TECHNICAL DATA

Performance: 1,500 W
Speed: 0 - 2,200 rpm (adjustable via wheel)
Weight: 4.3 kg
Distance: 26 mm
Dimensions: 491 x 94 x 108 mm
Cutting blade attachment: Universal, U-shaft, special pipe saw blades

Speed thumbwheel
Simple speed adjustment for various applications

Double insulation
Better protection against moisture

Robust universal saw blade attachment
For universal, U-shaft and special saw blades

Chain tensioning device attachment
Very robust, casted in housing

Chain tensioning device
Enables precise 90° cuts

Carbon brush
Simple exchange with the exterior screw joint

Supporting shoes
Reliable guidance of the saw

Fig. tension device 2 in 1 (No. 50312)

Fig. chain tensioning device (No. 50311)

L- and U-shaft attachments

Precise 90° cuts

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

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

Fig. ROTIGER VARIO Electronic

Universal ROTIGER VARIO Electronic

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



Product profile

KEY FEATURES

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

TECHNICAL DATA

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

Carbon brush
Simple exchange with the exterior screw joint

Adjusting wheel
Simple speed adjustment for various uses

Quick tensioning for saw blades
Very robust turning / tensioning lock

Double insulation
Better protection against moisture

Ergonomic D-handle
Fits perfectly in the hand during sawing

Adjustable supporting shoe
Secure guidance of the saw

Universal-shaft attachment

Working in confined spaces

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

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

Fig. Universal ROTIGER VARIO Electronic

































Cutting

Saw blades

1

UNIVERSAL HSS bimetal /
TCT TIGER SAW BLADES














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

Cutable materials	Material	L x B x thickness mm	TPI		Reference	 *	No.	
	HSS bimetal	100 x 20 x 0.9	24	L	S 522 AF	1 (5)	865783	
	HSS bimetal	150 x 20 x 0.9	24	L	S 922 AF	1 (5)	865784	
	HSS bimetal	150 x 20 x 0.9	18	L	S 922 EF	1 (5)	865785	
	HSS bimetal	150 x 20 x 0.9	14	L	S 922 BF	1 (5)	865786	
	HSS bimetal	200 x 20 x 0.9	18	L	S 1022 EF	1 (5)	865787	
	HSS bimetal	200 x 20 x 0.9	14	L	S 1022 BF	1 (5)	865788	
 	HSS bimetal	300 x 20 x 0.9	10 - 14	L	S 1222 VF	1 (5)	865789	
 	HSS bimetal	150 x 20 x 1.25	6	L	S 611 DF	1 (5)	865781	
 	HSS bimetal	300 x 20 x 1.25	6	L	S 1411 DF	1 (5)	865782	
 	HSS bimetal	150 x 22 x 1.6	8 - 10	L	S 920 CF	1 (5)	865790	
 	HSS bimetal	200 x 22 x 1.6	8 - 10	L	S 1120 CF	1 (5)	865791	
	TCT coated	225 x 20 x 1.5	30 grit	L	S 1130 RF	1 (5)	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)

Cutable materials	Material	L x B x thickness mm	TPI		Reference	 *	No.	
	HSS bimetal	140 x 25 x 1.6	8	U	S 920 CF	1 (5)	865795	
	HSS bimetal	200 x 25 x 1.6	8	U	S 1120 CF	1 (5)	865796	
 	HSS bimetal	150 x 25 x 1.0	10 - 14	U		1 (5)	865798	
 	HSS bimetal	200 x 25 x 1.0	10 - 14	U		1 (5)	865799	

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

Special pipe saw blades

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

Cutable materials	Material	L x B x thickness mm	TPI			No.	
	HSS	140 x 25 x 1.6	8	L	1	50260	
	HSS	200 x 25 x 1.6	8	L	1	50261	
	HSS	290 x 25 x 1.6	6 - 8	L	1	50263	
 	HSS-E	140 x 25 x 1.6	14	L	1	50264	
 	HSS-E	200 x 25 x 1.6	8	L	1	50265	
	HSS	200 x 25 x 1.6	6 - 8	L	1	50266	

Cutting

Deburring, chamfering & calibration






1

Universal internal & external deburrer

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

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



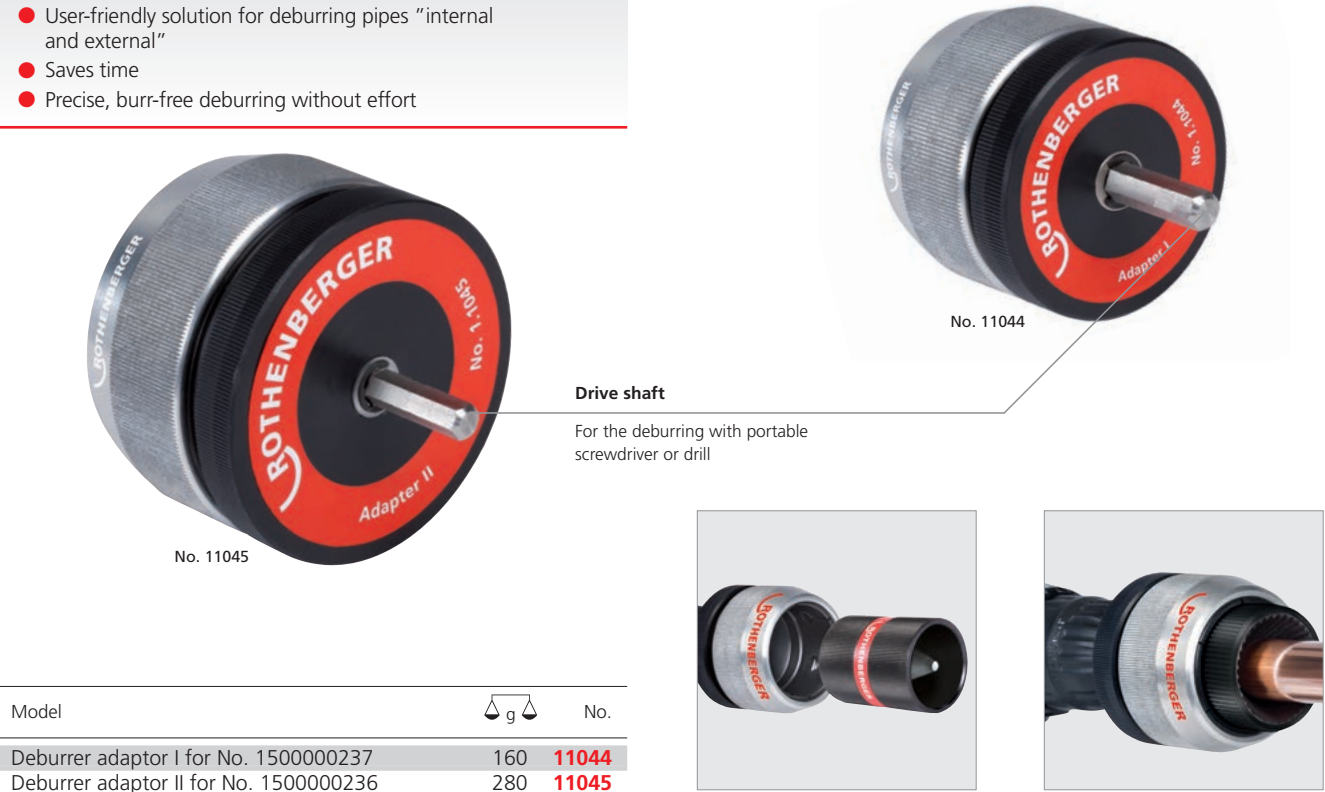
Model	 mm	 inch	 g			No.
Internal and external deburrer for copper and plastic	4 - 36	1/8 - 1.3/8"	30	1	25	11006
Internal and external deburrer for copper and INOX (stainless steel)	6 - 35	1/4 - 1.3/8"	100			1500000237
Internal and external deburrer for copper and INOX (stainless steel)	10 - 54	1/2 -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

Deburrer adaptor I / II

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

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

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




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




UNIGRAT (No. 21660)

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

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



GRATFIX HSS (No. 21655)

Model		No.
HSS deburring blade No. 1 Universal	10	21652
HSS deburring blade No. 2 for brass and cast iron	10	21653
HSS deburring blade No. 3 for straight edges	10	21654

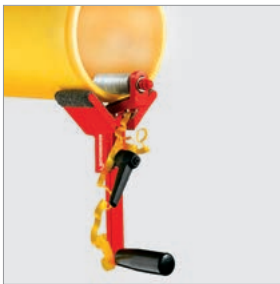
Plastic pipe chamfering unit

With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe





No. 55051



KEY FEATURES

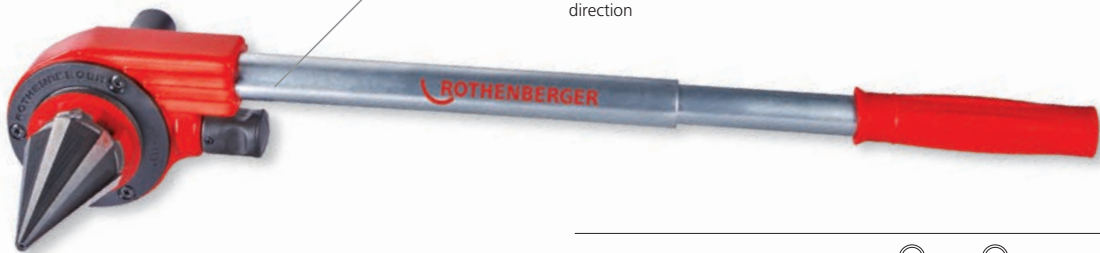
- Flexible in use
- Wall thickness is continuously adjustable

Model			No.
Chamfering unit size 1	16 - 110	720	55050
Chamfering unit size 2	32 - 160	800	55051
Spare blade size 1 and 2		30	55058

Ratchet pipe deburrer 1/4 - 2"

Quick and clean deburring

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






Quick adjustment

Handy, lockable reversal of the ratchet direction



Spare deburrer bit (No. 70296)

Model				No.
Internal deburrer with ratchet	1/4 - 2"	13 - 60	2,680	70289
Spare deburrer			200	70296

ROGRAT MSR deburrer and chamfering tool

For internal and external deburring, chamfering, calibrating and custom milling of PE-X and aluminium multi-layer (MSR) pipes of up to Ø 32 mm

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

True to size guiding and calibration pin

Increased safety, protects O-ring from damage



Star handle with screw-bit attachment and quick locking mechanism

High force transmission


Shock-resistant protective sleeve

Protects from injury



Fig. ROGRAT MSR deburrer set

ROGRAT MSR system - manual chamfering attachments

ROGRAT type	Press system	Pipe measurement mm	Color code		No.
G 16		16.0 x 2.25	●	53	14102
G 20	GEBERIT Mepla	20.0 x 2.50	●	93	14104
G 26		26.0 x 3.00	●	108	14106
G 32		32.0 x 3.00	●	162	14107
U 14		14.0 x 2.00	●	51	14111
U 16		16.0 x 2.00	●	53	14112
U 18	UNIPIPE/TIGRIS-S	18.0 x 2.00	●	58	14113
U 25		25.0 x 2.50	●	108	14115
U 32		32.0 x 3.00	●	162	14117
TH 14		14.0 x 2.00	●	51	14121
TH 16	Henco / MHS	16.0 x 2.00	●	53	14122
TH 18	Giacomini	18.0 x 2.00	●	58	14123
TH 20		20.0 x 2.00	●	93	14124
TH 26		26.0 x 3.00	●	108	14126
F 16-1		16.0 x 2.00	●	53	14132
F 18	Fränkische Rohrwerke	18.0 x 2.00	●	58	14133
F 20-1	alpex-therm	20.0 x 2.00	●	93	14134
F 26	alpex-san	26.0 x 3.00	●	108	14136
F 32		32.0 x 3.00	●	162	14137

● black ● brown ● violet ● yellow


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



RODIA diamond core drilling

System overview	36 - 37
Characteristics diamond drill bits	38
Hand-operated drilling	
Wet drilling machine	39
Hand-operated & stationary drilling	
Wet drilling machine	41
Diamond wet & dry drilling system RODIACUT	40 - 45
RODIA diamond drill bits	
Wet cutting drill bits for natural stone, soldered	46
Wet & dry cutting drill bits, space welding	47 - 48
Accessories for hand-operated & stationary drilling	
Vacuum pump systems	49
Accessories diamond core drilling	49 - 50
Extraction systems	
Wet & dry extraction unit	51

Hand-operated drilling			
	<div>RODIADRILL Ceramic</div>	<div>RODIADRILL 160</div>	<div>RODIADRILL 200</div>
			<div>RODIACUT 150, RODIADRILL 160</div>
	Hand-operated	Hand-operated	Hand-operated
Stationary drilling in concrete:	Ø 6 - 67 mm	Ø 10 - 132 mm	Ø 10 - 200 mm
Stationary drilling in masonry:	Ø 6 - 67 mm	Ø 32 - 162 mm	Ø 32 - 225 mm
Hand-operated drilling in concrete:	Ø 6 - 35 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
Power output:	800 W	1,400 W	2,400 W
Speed transmission:	2-gear	2-gear	3-gear
Nominal speed:	3,600 / 6,400 rpm	500 / 1,050 rpm	600 / 1,250 / 3,200 rpm
Torque:	4 / 7 Nm	55 / 27 Nm	71 / 34 / 17 Nm
Weight:	3.4 kg	6.7 kg	7.2 kg
Page	39	40, 41	40, 41

Drill bits			
	<div>High SPEED Plus-natural stone*</div>	<div>DX- High SPEED Plus*</div>	<div>SPEED STAR DX*</div>
Connection:	G 1/2"	G 1/2", 1.1/4" UNC	G 1/2", 1.1/4" UNC
Drill bit diameter:	Ø 6 - 67 mm	Ø 20 - 300 mm	Ø 10 - 500 mm
Working length:	up to Ø 10 mm = 50 mm from Ø 12 mm = 120 mm	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length	G 1/2", 400 mm working length 1.1/4" UNC, 430 mm working length
Application:	wet	wet & dry	wet & dry
Tiles:	☺☺☺	☺	☺☺
Granite:	☺☺☺	☺	☺☺
Marble:	☺☺☺	☺	☺☺
Brick:	☺☺	☺☺☺**	☺☺☺**
Masonry:	☺	☺☺☺**	☺☺**
Lime-sand brick:	☺	☺☺☺**	☺☺**
Asphalt:	☺☺	☺☺☺**	☺☺☺**
Screed:	☺☺	☺☺☺	☺☺
Concrete:	☺☺☺	☺☺☺	☺☺
Reinforced concrete:	☺☺☺	☺☺☺	☺☺☺
Page	46	47	48

* Special lengths and diameters on request, ** Suitable for dry drilling, ☺☺☺ Ideally suited ☺☺ Very suitable ☺ Suitable

Stationary drilling			
	<div>RODIACUT 150, RODIADRILL 200</div>	<div>RODIACUT 250, RODIADRILL 200</div>	<div>RODIACUT 250, RODIADRILL 500</div>
			<div>RODIACUT 400 PRO, RODIADRILL 500</div>
	Hand-operated / stationary	Hand-operated / stationary	Stationary
Stationary drilling in concrete:	Ø 10 - 152 mm	Ø 10 - 200 mm	Ø 32 - 250 mm
Stationary drilling in masonry:	Ø 10 - 152 mm	Ø 32 - 225 mm	Ø 32 - 250 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
Speed transmission:	3-gear	3-gear	3-gear
Nominal speed:	600 / 1,250 / 3,200 rpm	600 / 1,250 / 3,200 rpm	215 / 430 / 785 rpm
Torque:	71 / 34 / 17 Nm	71 / 34 / 17 Nm	185 / 107 / 55 Nm
Weight:	17.2 kg	25.2 kg	30.1 kg
Page	40, 41	42, 43	42, 43

* Drilling range with distance plate expandable to 500 mm

RODIA diamond core drilling
Hand-operated & stationary drilling

Space welding

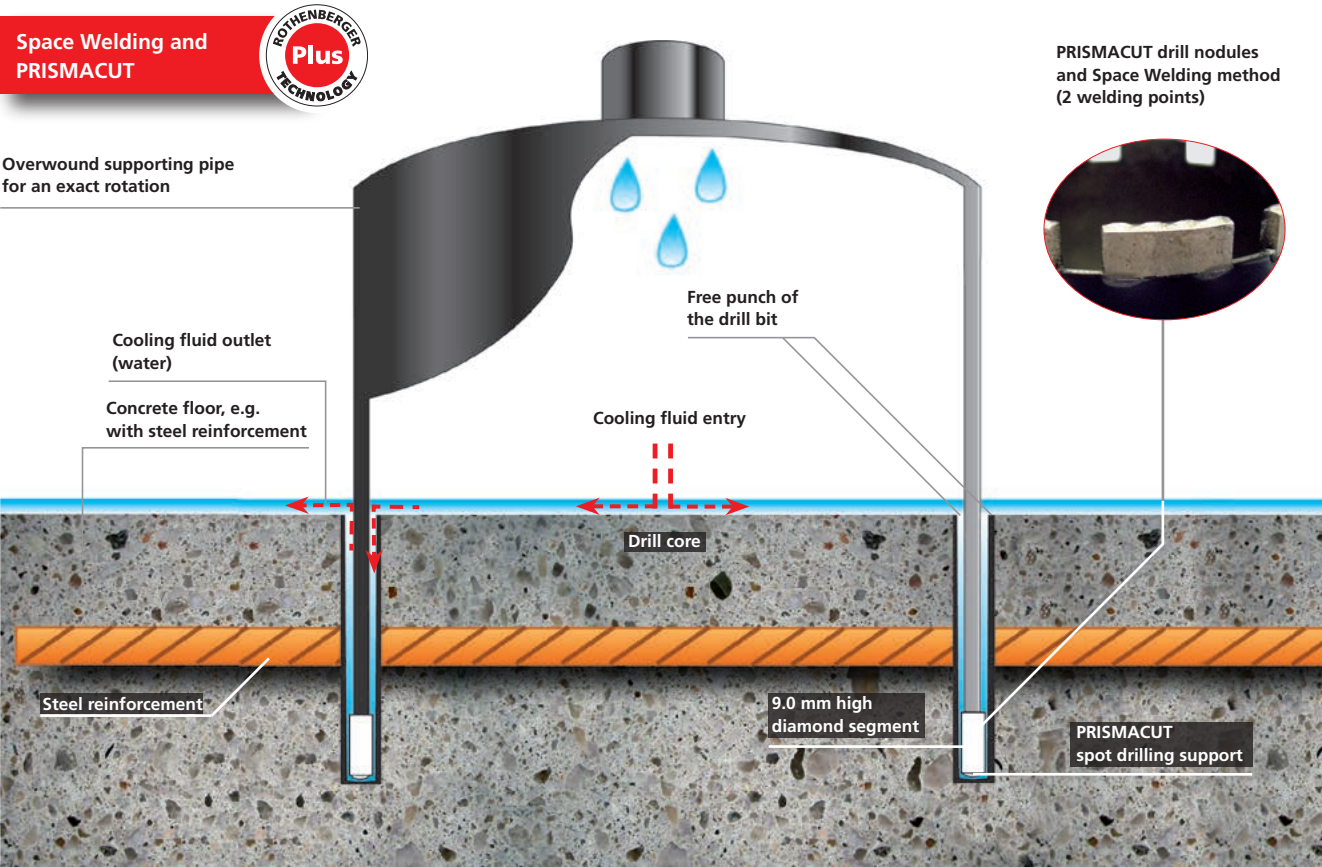
Cold welding process according to cutting-edge bonding technology: Due to the "neutral zone" the entire diamond segment is used without waste.

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

PRISMACUT

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

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



DX-HIGH SPEED PLUS universal drill bits
Space welding universal wet and dry drill bits for Ø 10 - 300 mm



DX-HIGH SPEED PLUS universal drill bits on page 47

SPEED STAR DX
Space welding wet and dry drill bits for Ø 10 - 500 mm



SPEED STAR DX drill bits on page 48

RODIA diamond core drilling
Hand-operated & stationary drilling

RODIADRILL Ceramic
Hand-operated wet drilling, drill Ø 6 - 67 mm
Ideally suited for HVAC&R, plumbing professionals, tilers, stair builders, remodelling specialists as well as electricians.
Everywhere where jolt-free operation is necessary and extremely hard materials need to be processed.



Table with 2 columns: Feature and Description. Includes sections for Product profile, Application Area, Key Features, and Technical Data.

Table with 2 columns: Feature and Value. Includes sections for Technical Data and Accessories.

Integrated 1 litre water tank

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

Quick change system drill bit adaptor

Toolless quick change for G 1/2" drill bits

Connection for external water supply

Ideal solution for serial drillings

11-part set (No. FF40150) includes: drill motor RODIADRILL Ceramic (No. FF40150), 1 high speed plus drill bit each Ø 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), 3 x quick change adaptor (No. FF35751), spanners sizes 24 and 27 (No. FF70024, FF70027), hexagonal key (No. 321523), transport case (No. FF60150)

Table with 3 columns: Model, Weight (kg), and No. Includes the RODIADRILL Ceramic set.



Table with 4 columns: Model, No., Model, and No. Lists various accessories and their part numbers.

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

RODIA diamond core drilling

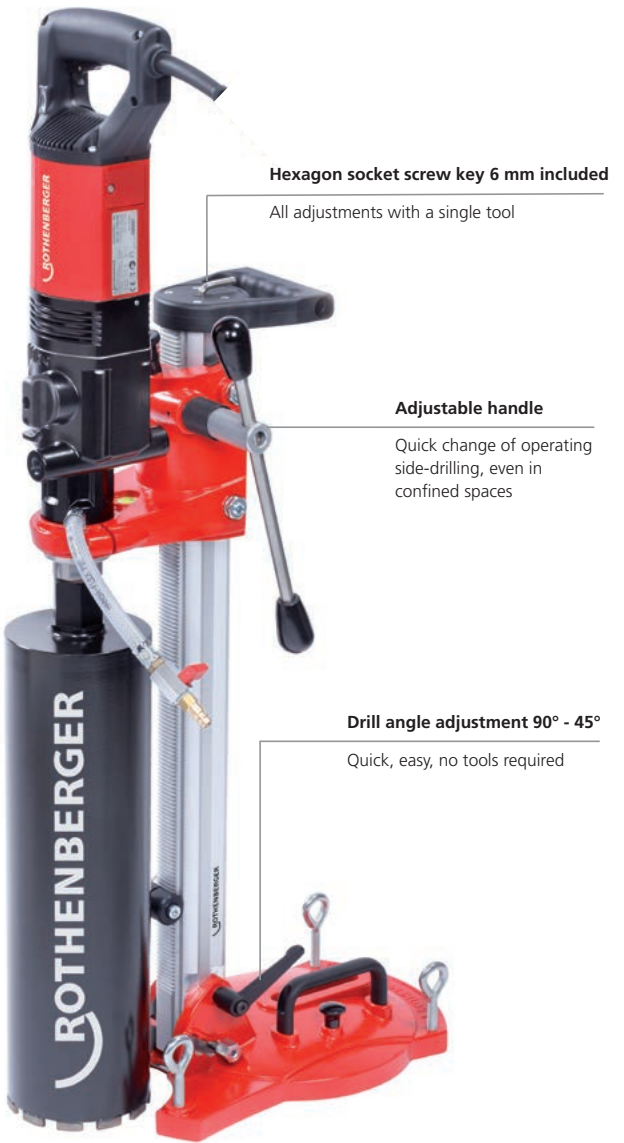
Hand-operated & stationary drilling

RODIACUT 150 / RODIADRILL 160

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

Product profile	
APPLICATION AREA	
RODIADRILL 160:	
Stationary wet drilling in (reinforced) concrete:	Ø 10 - 132 mm
Hand-operated wet drilling in (reinforced) concrete:	Ø 10 - 82 mm
Hand-operated dry drilling in masonry:	Ø 10 - 162 mm
TECHNICAL DATA (DRILL STAND)	
RODIACUT 150:	
Drilling range:	without water collection ring max. Ø 152 mm with water collection ring max. Ø 132 mm
Drill motor adaptor:	Ø 60 mm
L x W x H:	280 x 440 x 810 mm
Hub:	480 mm
Weight:	9.7 kg

3 applications with just one unit

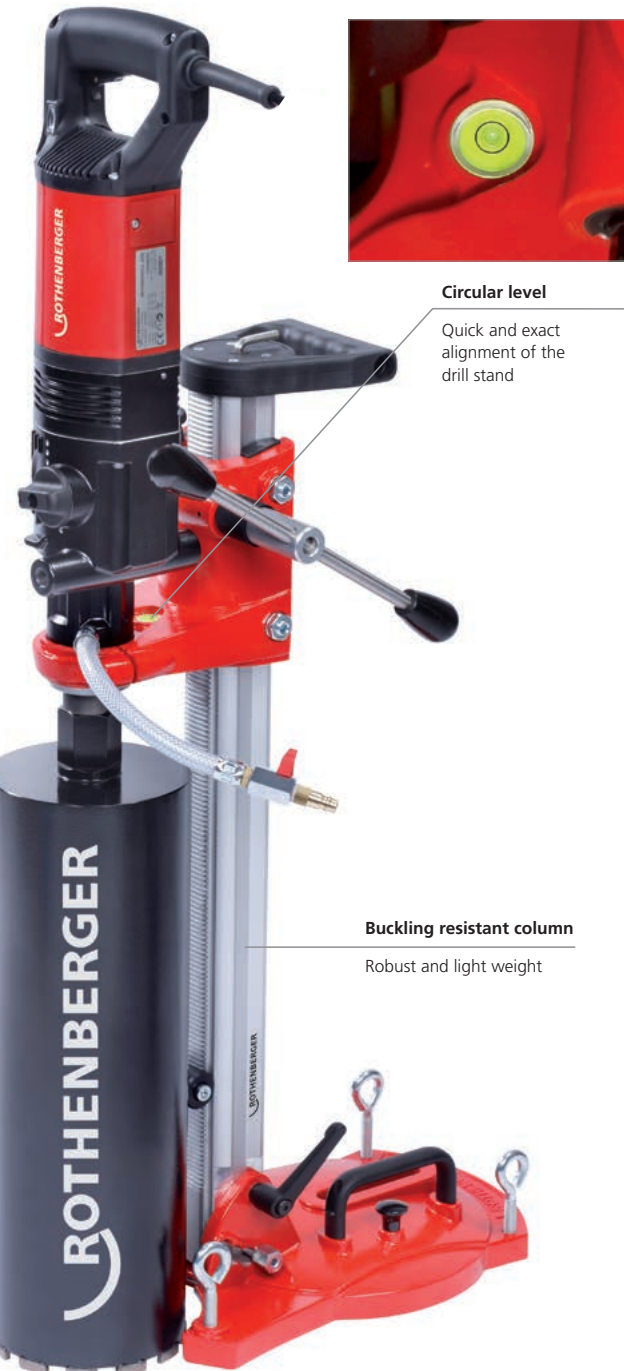


RODIACUT 150 / RODIADRILL 200

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

Product profile	
APPLICATION AREA	
RODIADRILL 200:	
Stationary wet drilling in (reinforced) concrete:	Ø 10 - 132 mm
Hand-operated wet drilling in (reinforced) concrete:	Ø 10 - 82 mm
Hand-operated dry drilling in masonry:	Ø 10 - 162 mm

3 applications with just one unit



RODIA diamond core drilling

Hand-operated & stationary drilling

RODIADRILL 160

Drill motor

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

RODIADRILL 200

Drill motor

TECHNICAL DATA (DRILL MOTOR)	
Drill motor:	RODIADRILL 200
Threaded adaptor:	G 1/2" and 1.1/4" UNC
Power input / output:	2,700 W / 2,400 W
3-speed transmission:	1. gear 2. gear 3. gear
Nominal speed:	600 rpm 1,250 rpm 3,200 rpm
Torque:	71 Nm 34 Nm 17 Nm
Clamping neck:	Ø 60 mm



Set (No. FF34150) includes: drill stand RODIACUT 150 (No. FF30150), drill motor RODIADRILL 160 (No. FF40165), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW36 DIN894 (No. FF70036), allen key SW41 DIN894 (No. FF70041), concrete fixing set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 160+200 (No. 1300002468), earplugs SaveRave (No.4100000439), rubberized gloves (No.4100000443), safety goggle HC/AF (No. 4100000441)

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

Model	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	No.
RODIADRILL Ceramic	39 FF40150	RODIA DRY CLEANER 1600	51 FF35144
Pressurized water container 10 l	50 FF35026	Water collection ring, stationary (for No. FF30150)	50 FF35700
Vacuum pump RODIA-VAC	49 FF35200	Drill bits	46 - 48

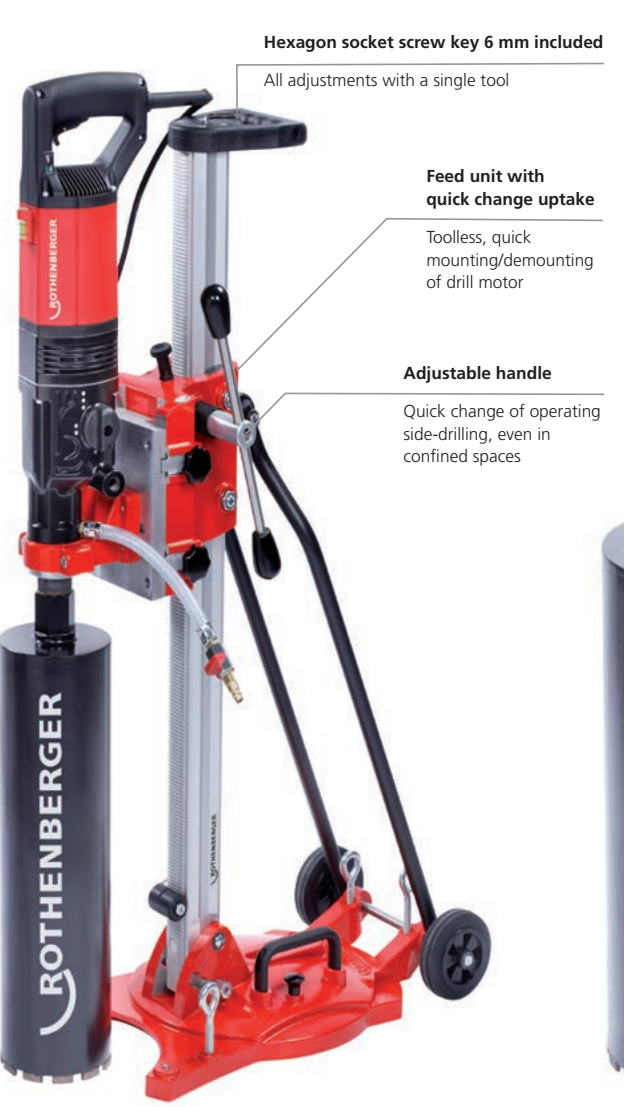
RODIA diamond core drilling
Hand-operated & stationary drilling

RODIACUT 250 / RODIADRILL 200

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

Table with 2 columns: Feature, Value. Rows include Product profile, APPLICATION AREA, TECHNICAL DATA (DRILL STAND), and drilling specifications.

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

Table with 2 columns: Feature, Value. Rows include Product profile, APPLICATION AREA, and drilling specifications.

2 applications with just one unit



RODIA diamond core drilling
Hand-operated & stationary drilling

RODIADRILL 200

Drill motor



Table with 2 columns: Feature, Value. Rows include TECHNICAL DATA (DRILL MOTOR) and specifications for drill motor, threaded adaptor, power input/output, 3-speed transmission, torque, and clamping neck.

RODIADRILL 500

Drill motor



Table with 2 columns: Feature, Value. Rows include TECHNICAL DATA (DRILL MOTOR) and specifications for drill motor, threaded adaptor, power input/output, 3-speed transmission, nominal speed, torque, and drill motor adaptor.



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

Set (No. FF34260) includes: drill stand RODIACUT 150 (No. FF30250), drill motor RODIADRILL 500 (No. FF40400), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW32 DIN894 (No. FF70032), allen key SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 150-250 (No. 1300002467), instruction manual RODIADRILL 500 (No. 1300002469), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety goggles HC/AF (No. 4100000441)

Table with 3 columns: Model, Weight (kg), and Part Number. Rows list various components and their weights and part numbers.

ACCESSORIES



Table with 4 columns: Model, Weight (kg), Part Number, and Description. Rows list accessories like RODIADRILL Ceramic, Pressurized water container, Vacuum pump, RODIA DRY CLEANER, Water collection ring, and Drill bits.

RODIA diamond core drilling

Stationary drilling

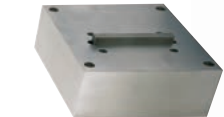
RODIACUT 400 PRO / RODIADRILL 500

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



Product profile	
APPLICATION AREA	
2 applications in one unit:	
Stationary wet drilling in (reinforced) concrete	Ø 32 - 400* mm
Stationary dry drilling in masonry	Ø 32 - 400* mm
KEY FEATURES	
● Drill angle adjustments from -15° up to +45°, in 2.5° steps adjustable	
● Exchangeable guide rail	

TECHNICAL DATA (DRILL STAND)	
Drilling range:	w/o water collection ring: max. Ø 400 mm optional with distance plate max. Ø 500 mm
Weight:	28.4 kg
L x W x H:	460 x 260 x 1,100 mm
Hub:	680 mm



*Distance plate optional (No. FF35136)
To enlarge the drill hole diameter from Ø 400 to 500 mm with RODIACUT 400 PRO

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

RODIA diamond core drilling

Stationary drilling



RODIADRILL 500

Drill motor

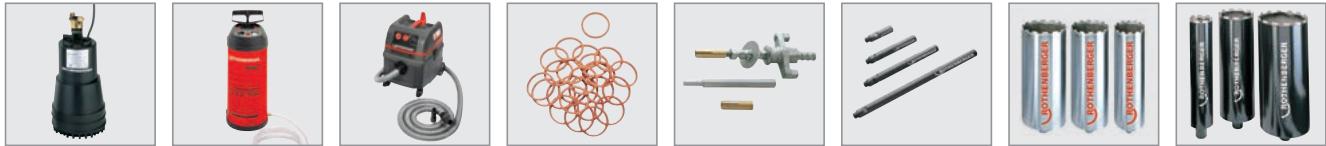


Set (No. FF34500) includes: drill stand RODIACUT 400 PRO (No. FF30030), drill motor RODIADRILL 500 (No. FF40400), tool bag (No. FF70001), allen key SW19 DIN895 (No. FF70019N), allen key SW24 DIN894 (No. FF70024), allen key SW32 DIN894 (No. FF70032), allen key SW41 DIN894 (No. FF70041), concrete fixing-set (No. FF35120), water supply hose + adaptor for Gardena coupling (No. FF35302), hammer drill SDS Plus 15x160mm (No. 111429), copper ring 1.1/4" (No. FF35190), instruction manual drill stand RODIACUT 400 PRO (No. 1300002467), instruction manual RODIADRILL 500 (No. 1300002468), earplugs SaveRave (No. 4100000439), rubberized gloves (No. 4100000443), safety Goggles HC/AF (No. 4100000441)

TECHNICAL DATA (DRILL MOTOR)	
Drill motor:	RODIADRILL 500
Threaded adaptor:	G 1/2" and 1.1/4" UNC
Power input / output:	4,000 W / 3,000 W
3-speed transmission:	1. gear 2. gear 3. gear
Nominal speed:	215 rpm 430 rpm 785 rpm
Torque:	185 Nm 107 Nm 55 Nm
Drill motor adaptor:	Dovetail plate

Model	kg	No.
Drill system RODIACUT 400 PRO / RODIADRILL 500	40.5	FF34500
Drill stand RODIACUT 400 PRO	28.4	FF30030
Drill motor RODIADRILL 500	12.1	FF40400

ACCESSORIES



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

RODIA diamond core drilling
RODIA diamond-drill bits

HIGH SPEED PLUSnatural stone

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

Product profile
APPLICATION AREA
Special wet drill bits for drilling in natural stone, granite, marble, (double) baked brick, masonry, (reinforced) concrete, glass or hollow brickwork from Ø 6 - 67 mm
Typical areas of application are HVAC&R, plumbing and electronic installations, old building renovations, laying tile, stairs and railing installation, air-conditioning technology, garden and landscaping
KEY FEATURES
Extremely easy cuts, very long service life through 9 mm high segments
Suitable for all ROTHENBERGER drilling machines
Balanced rotation reduces wear
Drilling even through material combinations possible

9 mm high segments with high diamond concentration
Extremely easy cutting, very long service life in Granite tiles
Threaded adaptor G 1/2"
Suitable for all other ROTHENBERGER drilling machines
Overwound drill bits
Balanced rotation reduces wear

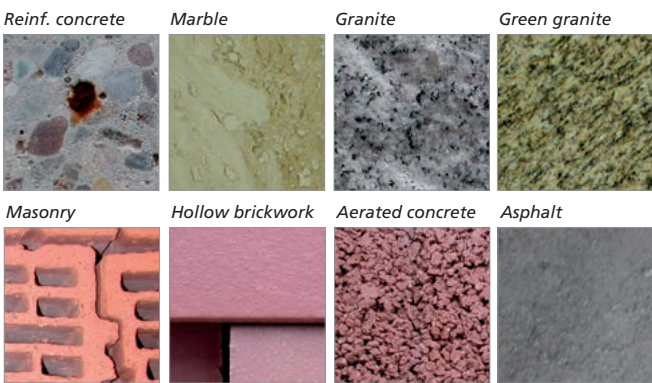


Table with 4 columns: Ø mm, kg, Adaptor G 1/2" No., and product number. It lists specifications for various drill bit sizes and their corresponding weights and adaptor numbers.

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 mm = 50 mm
Ø 12 - 67 mm = 120 mm
Special length of 300 mm available upon request

*Single segment mounting from Ø 45 mm

RODIA diamond core drilling
RODIA diamond-drill bits

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, air-conditioning technology, garden and landscaping
KEY FEATURES
Extremely easy cutting, safe cut in hand-operated use
Faster cutting progress and extremely long service life
Suitable for all other ROTHENBERGER drilling machines
Balanced rotation reduces wear
Suitable for
RD 160* RD 200* RD 500*
We recommend the optional extraction rotor when using as a dry drill bit
Highest service life and universal application!



Table with 4 columns: Ø mm, kg, Adaptor G 1/2" No., and product number. It lists specifications for various drill bit sizes and their corresponding weights and adaptor numbers.

Space Welding and PRISMACUT
ROTHENBERGER Plus TECHNOLOGY
TECHNICAL DATA
G 1/2" connection (400 mm effective length)
Drill bits Segment Segment dimensions (L x W x H)
Ø 20 - 40 mm 1 19.3 x 2.5 x 9 mm
Ø 42 - 62 mm 4 - 6 24.0 x 2.5 x 9 mm
Ø 72 - 92 mm 7 - 8 24.0 x 2.8 x 9 mm
Ø 102 - 132 mm 7 - 11 24.0 x 3.3 x 9 mm
1.1/4" UNC connection (430 mm 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

Threaded adaptor G 1/2" and 1.1/4" UNC
Suitable for all other ROTHENBERGER drilling machines
Special segment mix
Quicker drilling progress and extremely long service life
Extremely easy cuts, safe cuts in hand operated use
Space welding
Allows wet and dry use
Overwound drill bits
Balanced rotation reduces wear

Table with 4 columns: Ø mm, kg, Adaptor 1.1/4" No., and product number. It lists specifications for various drill bit sizes and their corresponding weights and adaptor numbers.

RODIA diamond core drilling

RODIA diamond-drill bits

SPEED STAR DX

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

Space welding and
PRISMACUT



Product profile

APPLICATION AREA


Wet and dry drill bits for asphalt, masonry, as well as natural and artificial stone of Ø 10 - 500 mm

Typical areas of application are HVAC&R, plumbing, old building renovations, building industry, air-conditioning technology, gardening and landscaping


KEY FEATURES

- Extremely easy cuts, safe cut in hand-operated use
- Balanced rotation reduces wear
- Suitable for all other ROTHENBERGER drilling machines
- Standard lengths 400 / 500 mm, special lengths available on request
- Conventional G 1/2" and 1.1/4" UNC threaded adaptors


TECHNICAL DATA			
Drill bits	Segment	Segment dimensions (L x W x H)	
Ø 10 - 38 mm	1	16 x 3.0 x 7.0 mm	
Ø 40 - 48 mm	1 - 4	24 x 3.0 x 9.0 mm	
Ø 50 - 55 mm	5 - 6	24 x 3.5 x 9.0 mm	
Ø 56 - 72 mm	6 - 7	24 x 3.5 x 9.0 mm	
Ø 75 - 102 mm	7 - 8	24 x 3.5 x 9.0 mm	
Ø 107 - 142 mm	9 - 11	24 x 4.0 x 9.0 mm	
Ø 142 - 182 mm	11 - 14	24 x 4.0 x 9.0 mm	
Ø 182 - 250 mm	14 - 16	24 x 4.0 x 9.0 mm	
Ø 300 - 500 mm	16 - 26	20 x 5.0 x 9.0 mm	
Connection G 1/2":		Effective length 400 mm	
Connection 1.1/4" UNC:		Effective length 430 mm	




PRISMACUT
for better drill behaviour




Extremely high
diamond concentration
Faster drilling progress




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



RD 160*






RD 200*




RD 500*


Suitable for




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



Reinf. concrete



Marble



Asphalt

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

Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor 1.1/4" No.	Ø mm	kg	Adaptor 1.1/4" No.
10	0.3	FF00610	52	0.9	FF00650	20	0.5	FF00020	122	4.2	FF00120
12	0.4	FF00612	56	1.2	FF00655	25	0.6	FF00025	125	4.3	FF00125
14	0.4	FF00614	62	1.2	FF00660	30	0.7	FF00030	132	4.6	FF00130
15	0.4	FF00615	66	1.3	FF00665	40	1.2	FF00040	142	5.0	FF00140
16	0.4	FF00616	72	1.4	FF00670	46	1.4	FF00045	152	6.4	FF00150
18	0.4	FF00618	76	1.5	FF00675	52	1.6	FF00050	162	7.0	FF00160
20	0.5	FF00620	82	1.6	FF00680	56	1.7	FF00055	172	7.5	FF00170
24	0.5	FF00624	87	1.7	FF00685	62	1.9	FF00060	182	8.0	FF00180
25	0.5	FF00625	92	1.9	FF00690	66	2.1	FF00065	200	9.0	FF00200
26	0.5	FF00626	95	2.0	FF00695	72	2.3	FF00070	220	11.4	FF00220
28	0.6	FF00628	102	2.1	FF00700	76	2.4	FF00075	250	13.6	FF00250
30	0.6	FF00630	108	2.3	FF00705	82	2.6	FF00080	280	17.6	FF00280
32	0.6	FF00632	112	2.4	FF00710	87	2.8	FF00085	300	19.3	FF00300
38	0.7	FF00638	117	2.5	FF00715	92	3.0	FF00090	350	23.6	FF00350
40	0.7	FF00640	122	2.6	FF00720	102	3.4	FF00100	400	28.4	FF00400
46	0.7	FF00645	127	2.8	FF00725	108	3.6	FF00105	450	33.6	FF00450
			132	2.9	FF00730	112	3.8	FF00110	500	39.1	FF00500

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

RODIA diamond core drilling

Accessories hand-operated & stationary drilling

Vacuum pump RODIA-VAC

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

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



10 l extraction tank

Safety during a power failure

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

Vacuum-sets

No. FF35710
No. FF35740



Quick clamping column

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

No. FF35015



Model	kg	No.
Quick clamping column	9.0	FF35015
Vacuum pump RODIA-VAC 230 V	20.0	FF35200
Vacuum set for RC 150/170 PRO-C	1.1	FF35710
Spare foamed rubber for drill base RC 150 etc.	0.1	FF50007
Vacuum set for RC 250/270 PRO-C	1.1	FF35740
Spare foamed rubber for drill base RC 250 etc.	0.1	FF50008

Concrete / masonry fixing set

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

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



No. FF35120

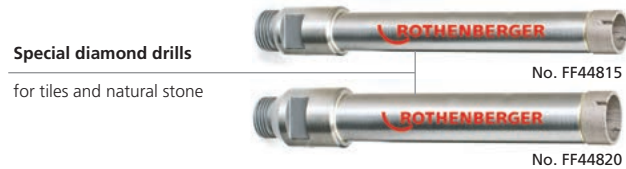


No. FF35121

Special diamond drills for tiles and natural stone


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

Special diamond drills
for tiles and natural stone



No. FF44815
No. FF44820

SDS-plus hammer drill



Model	kg	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
SDS-plus hammer drill Ø 20 mm, wl. 300 mm	0.22	111449*
Wet drill bit Ø 20 mm, G1/2"	0.22	FF44820
G 1/2" outer thread to 1.1/4" UNC outer thread	0.50	FF35080
1.1/4" UNC inner thread to G 1/2" inner thread	0.70	FF35095
Adaptor DD-BI to G 1/2" + 1.1/4"	0.50	FF35091
Adaptor DD-BU to G 1/2" + 1.1/4"	0.80	FF35092
Adaptor DD-BL/BS/BR to G 1/2" + 1.1/4"	0.80	FF35093
Threaded interface WÜRTH to 1.1/4"	0.60	FF35101
Copper ring 1.1/4"	0.05	FF35190

* Cordless rotary hammer p. 331

Thread interfaces

Between motor connection and drill bit



No. FF35095



No. FF35080



No. FF35091

Copper rings 1.1/4"

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



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

RODIA diamond core drilling

Accessories hand-operated & stationary drilling

Water supply

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

Comfortable water connection

Quick connection with the GK adaptor and quick-plug coupling

Rust-free motor shaft

Prevents the quick jamming of the rotor

Fine filter

Prevents entry of foreign materials and protects the motor shaft

No. FF35029

Model	kg	No.
Submersible water pump, 230 Volt	4.40	FF35029
Water supply hose with Aqua-Stop	0.20	FF35302



Connection quick plug-in coupling

Drip-free connection even under water pressure

Model	kg	No.
Pressurized water container, 10 Liter	5.50	FF35026
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, FF35210)



Model	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 length in mm	kg	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 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	kg	No.
Extraction rotor (drill bit 1.1/4" UNC / motor G 1/2")	1.90	FF40056



RODIA diamond core drilling

Extraction systems

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

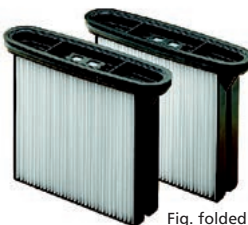


Fig. folded filter No. FF55374

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

RODIA CLEANER 1400

Water suction unit

KEY FEATURES

- Easy-to-handle and powerful 1,400 watt water extraction unit
- 35 litre container made of zinc-plated steel plate with acrylate coating: rust-free
- Separate automatic outlet connection for an additional electrical tools



Set (No. FF35210) includes various extraction tubes and extraction nozzles. Wet-suction is possible when used with the cartridge filter system. When used with a cloth filter, dry suction possible. Suitable for use with our core drilling systems.

Model	kg	No.
RODIA CLEANER 1400, 35 litres	9.0	FF35210
Cartridge filter	1.0	FF55447
Paper filter (5 pieces)	1.0	FF55448

Constant extraction power!
Automatic filter-cleaning function!



High cleaning efficiency

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



User comfort with a wide operating range

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

Separate automatic outlet
Adaptor for further electric tools



Light and easy to handle




Impact protective ring at base with 4 double roller wheels, 9 kg weight







Bending

System overview	54 - 55
Manual	
Bender one-handed	56 - 58
Bending pliers	59 - 60
Tube bending springs CU	61
Internal bending springs MSR	61
Vice bender	62 - 63
Manual hydraulic	
Bender, manual hydraulic	64 - 65
Electro-hydraulic	
Bender, electro-hydraulic	66 - 67
Electro	
Bender, electro	68 - 70
Bending tables	71 - 73





Push bending

	TUBE BENDER	TUBE BENDER Maxi	TUBE BENDER Maxi MSR
			
Method:	Manual 90°	Manual 90°	Manual 90°
Working range: Copper	Ø 5 - 12 mm (1/4 - 1/2"), •Ø 1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8") •Ø 1 mm, soft	–
Working range: Aluminium	Ø 5 - 12 mm (1/4 - 1/2"), •Ø 1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8") •Ø 1 mm, soft	–
Working range: Precision steel	Ø 5 - 12 mm (1/4 - 1/2"), •Ø 1 mm, soft	Ø 12 - 22 mm (3/8 - 7/8") •Ø 1 mm, soft	–
Working range: Stainless steel	–	Ø 12 - 18 mm (3/8 - 5/8") •Ø 1 mm, soft	–
Working range: MSR	–	Ø 14 - 26 mm (5/8 - 7/8") •Ø 2 mm	Ø 14 - 32 mm •Ø 2 mm
Page	56	57	58


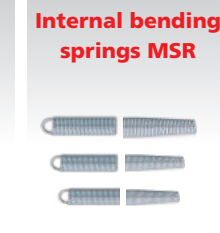


Pull bending

	Standard two handed bender	MULTIBEND	MINIBEND	Standard bender
				
Method:	Manual 90°	Manual 180°	Manual 180°	Manual 180°
Working range: Copper	Ø 12 - 22 mm •Ø 1 mm, semi-hard	Ø 10 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •Ø 1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft
Working range: Aluminium	–	Ø 10 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •Ø 1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft
Working range: Precision steel	–	Ø 10 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft	Ø 6 - 10 mm (1/4 - 3/8") •Ø 1 mm, soft	Ø 6 - 18 mm (1/4 - 5/8") •Ø 1 mm, soft
Working range: Stainless steel	–	–	–	–
Working range: MSR	–	–	–	–
Page	59	59	60	60

Push bending

	ROBULL type E	ROBULL MSR type E	ROBULL type ME	ROBULL MSR type ME
				
Method:	Manual hydraulic 90°	Manual hydraulic 90°	Electro-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: MSR	–	Ø 40 - 63 mm	–	Ø 40 - 63 mm
Page	64, 65	64, 65	66, 67	66, 67

Pull bending

	Pro bender	Internal bending springs MSR	ROBEND H+W PLUS	ROBEND 4000
				
Method:	Manual 180°	Manual 180°	Manual 180°	Electro 180°
Working range: Copper	Ø 10 - 16 mm (3/8 - 3/4") •Ø 1 mm, soft, semi-hard, hard	–	Ø 8 - 22 mm (5/16 - 7/8") •Ø 1 mm, soft, semi-hard, hard	Ø 12 - 35 mm (1/2 - 1.3/8") •Ø 1.6 mm, soft, semi-hard, hard
Working range: Aluminium	–	–	Ø 8 - 22 mm (5/16 - 7/8") •Ø 1 mm, soft	Ø 12 - 28 mm (1/2 - 1.1/8") •Ø 2.0 mm, soft, semi-hard, hard
Working range: Precision steel	–	–	Ø 10 - 22 mm (3/8 - 5/8") •Ø 1 mm, soft	Ø 12 - 28 mm (1/2 - 1.1/8") •Ø 2 mm, soft
Working range: Stainless steel	Ø 10 - 16 mm (3/8 - 3/4") •Ø 1 mm, soft, semi-hard, hard	–	Ø 8 - 22 mm (5/16 - 7/8") •Ø 1 mm	Ø 12 - 28 mm (1/2 - 1.1/8") •Ø 1.5 mm
Working range: MSR	–	Ø 6 - 20 mm	–	Ø 12 - 32 mm (1/2 - 1.1/4") •Ø 3 mm
Page	59	61	62, 63	68 - 70

TUBE BENDER

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



Product Profile			
APPLICATION AREA			
Suitable for pipes made of:			
Copper (soft) and aluminium:	Ø 5 - 12 mm, 1/4 - 1/2"		
Precision steel (soft):	Ø 5 - 12 mm, 1/4 - 1/2"		

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



TUBE BENDER sets include: basic tool complete with bending segments, back plates, in plastic carrying case (No. 24025)

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

TUBE BENDER bending segments

Model	Size	g	No.
Bending segment	5 mm	190	24001
Bending segment	6 mm	210	R2403200
Bending segment	8 mm	250	R2403300
Bending segment	9 mm	360	R2403400
Bending segment	10 mm	390	R2403500
Bending segment	12 mm	390	24007
Bending segment	1/4"	210	R2403200
Bending segment	5/16"	250	R2403300
Bending segment	3/8"	270	24006
Bending segment	1/2"	380	24008

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

TUBE BENDER MAXI

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



Product Profile	
APPLICATION AREA	
For the bending of pipes made of soft copper and aluminium, coated copper and precision steel pipes, as well as multi-layered 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"
MSR (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. 23001, MSR set No. 23001, MSR set No. 24022), plastic carrying case (No. 23097)

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

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

TUBE BENDER MAXI bending segments

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

TUBE BENDER MAXI MSR

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



Product profile

APPLICATION AREA

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

KEY FEATURES

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

Adjustable bending frame

Production of U-bends, counter bends, swan-neck bends and connecting bends possible at all levels

Ratchet arm with bayonet coupling

Bending formers easily changed

Plastic bending formers and support segments with increased conductivity

Optimum bending results

Mechanical ratchet feed

Quick operation

Smooth running feed lever

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

Release lever

Quick release and resetting of bending formers

Fig. TUBE BENDER MAXI MSR

Body made of resistant die-cast steel

Sturdy and long-lasting

Universal field operation



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

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

ACCESSORIES



Description	g	No.	Description	g	No.
Bending segment 14 x 2,0 mm	80	23003	Bending segment 26 x 2,0 mm	200	23053
Bending segment 16 x 2,0 mm	100	23005	Bending segment 32 x 2,0 mm	380	23051
Bending segment 18 x 2,0 mm	140	23050	Basic tool 32 w/o support brackets	1,280	23076
Bending segment 20 x 2,0 mm	150	23052	Support brackets with support segments R/L 23076	790	23080
Bending segment 25 x 2,0 mm	180	23009	Support segment MSR R/L 14 - 32 mm for 23076 (1 pc.)	200	23083

Pro bender

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

KEY FEATURES

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



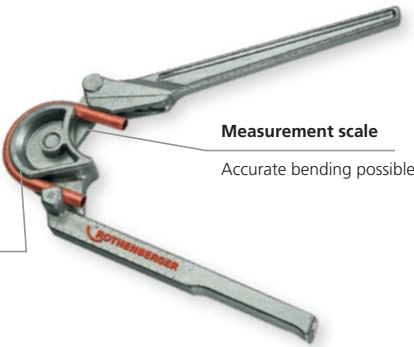
Size	max. mm	R Radius mm	L mm	kg	No.
3/8" / 10 mm	1.0	40	530	2.2	1000001431
1/2" / 16 mm	1.0	47	530	2.1	767050016
5/8" / 16 mm	1.0	76	770	4.0	1000000445
3/4"	1.0	76	770	3.9	767750016

MULTIBEND standard bender 180°

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

KEY FEATURES

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



Knee bending possible

Practice bending

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

Standard two handed bender 90°

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

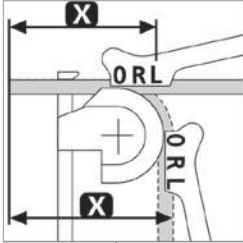
KEY FEATURES

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

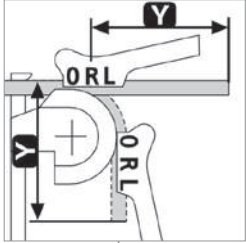


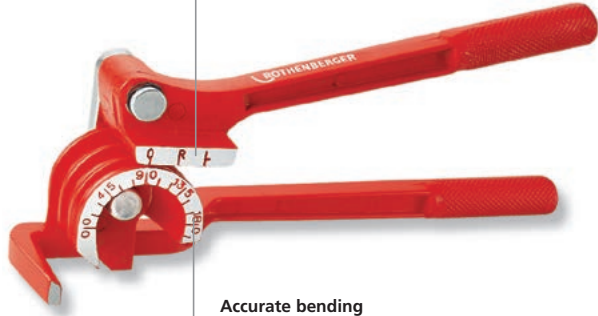
Size	mm	R Radius mm	L mm	kg	No.
12 mm	1.0	43	460	1.4	462212
15 mm	1.0	60	600	2.3	462215
18 mm	1.0	74	860	3.2	462218
22 mm	1.0	87	900	4.3	462222

Method L



Method R





Accurate bending

Minimum size chart and bending radius display on measurement scale

MINIBEND

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

- KEY FEATURES**
- Suitable for use in refrigeration and air-conditioning, oil supply, automotive, hydraulic and pneumatic industries
- Method L: Determination of the length of L - Left:**
O: Reference to bending scale (0-0) and/or start/end of the bending radius
L: Used to determine/indicate the final dimension desired from the left (pipe beginning) up to top edge of the pipe (Measure X)
- Method R: Determination of the length of R - Right:**
O: Reference to bending scale (0-0) and/or start/end of the bending radius
R: Used to determine/indicate the final dimension desired from the right (pipe beginning) up to top edge of the pipe (Measure Y)

Model	Size	g	No.
MINIBEND	6 - 8 - 10 mm	420	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

Size	R Radius mm	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 mm	24	305	640	25131
1/2"	30	390	1,680	25142
5/8"	58	450	1,830	25136

Accurate bending

Minimum size chart and bending radius display on measurement scale

ACCESSORIES





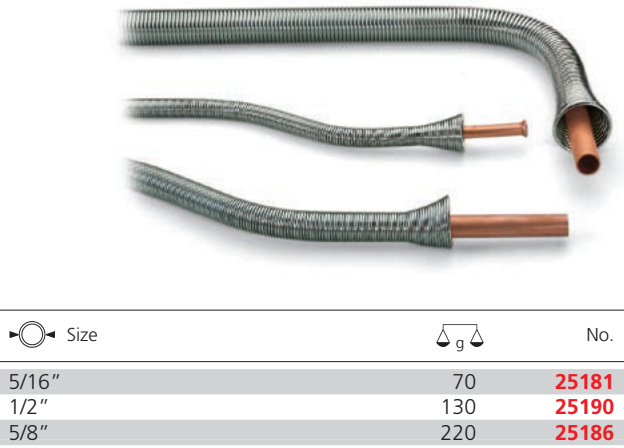
Description	No.
Internal / external deburrer	31 1500000236
Bending spray, 150 ml	61

Copper tube bending springs

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

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

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



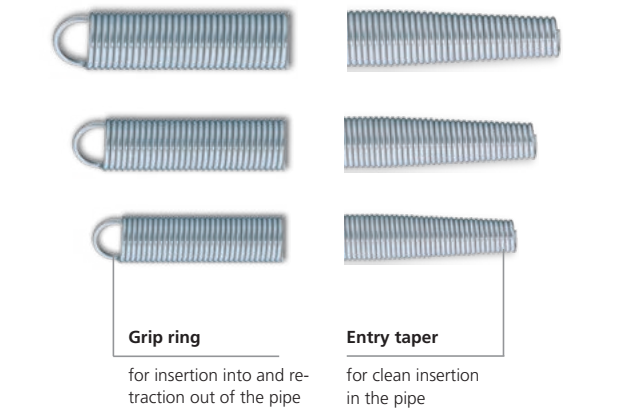
Size	g	No.
5/16"	70	25181
1/2"	130	25190
5/8"	220	25186

MSR internal bending springs

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

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

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



Bending spray

For bending copper and steel pipes

KEY FEATURES

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

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





Fig. bending spray

ACCESSORIES

Description	No.
Internal / external deburrer	31 1500000236

ROBEND H+W PLUS

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



Product profile		
APPLICATION AREA		
For accurate bending up to 180° on pipes made of:		
Copper (soft, semi-hard, hard thin-walled):	Ø 8 - 22 mm	5/16 - 7/8"
Copper (coated, also thin-walled):	Ø 10 - 18 mm	3/8 - 5/8"
Aluminium and brass:	Ø 8 - 22 mm	5/16 - 7/8"
Precision steel (also coated):	Ø 10 - 22 mm	3/8 - 5/8"
Seamless stainless steel:	Ø 8 - 22 mm	5/16 - 7/8"

KEY FEATURES
● Exact bending to the mm on continuous pipe
● Retains shape and remains stable
● Two-handed bending possible with the additional handle up to Ø 18 mm / 5/8"
● Eliminates the costs of purchase and storage of bending formers
● Easy bending through clamping on a vice
● Exact bending with the minimum size chart and bending radius display

ROLUB-Anti-Block-System
Less effort due to lower friction and optimum distribution of the bending spray

ROLUB-Anti-Block-System!

Optimum combination of ROLUB guide shoe and the bending former
Perfect bending results without friction marks

Minimum size chart and bending radius display
Accurate bending

Bending formers with base plate
Easy bending through clamping on a vice

Thread for the attachment of the additional lever (accessories)
Free-hand bending possible

Made from high quality forged aluminium
Retains shape and remains stable

Ø = Anlegepunkt
a = Anlegemaß

Biegespray verwenden

L = l₁ + l₂
a = l₁ - 30

L = l₁ + l₂ - 40
a = l₁ - 85

L = l₁ + l₂ + 83
a = l₁ - 86

2.4522

ROBEND H+W PLUS bender

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



ROBEND H+W PLUS bender

Size	max mm	R Radius mm	g	No.
8 mm	1	22	660	24508
10 mm	1	32	1,180	24510
12 mm	1	38	1,110	24512
14 mm	1	45	1,370	24514
15 mm	1	45	1,370	24515
16 mm	1	64	2,620	24516
18 mm	1	64	2,620	24518
22 mm	1	81	3,800	24522
5/16"	1	22	660	24508
1/2"	1	38	1,110	24552
5/8"	1	64	2,620	24516
3/4"	1	81	3,850	24519
7/8"	1	81	3,800	24522
ACCESSORIES (additional lever for two-handed bending)*				
Lever (short) for bending formers Ø 8 mm / 3/8"				25075
Lever for bending formers Ø 10 - 15 mm				25076
Lever for bending formers bigger than Ø 15 mm				25078
Bending spray, 150 ml				25120
ROCASE 6414				1300003542
Plastic inlay f. ROCASE 6414				1300004002

*Possible from 10 mm

Conventional bender

One-point support plate

ROBEND with ROLUB-system

Two-point support plate

Accurate bending

ROBEND H+W PLUS bending sets

Sets include: Steel carrying case for a maximum of 5 bending formers, 2 levers for vice bending and bending spray (No. 25120). Bender corresponds to the respective pipe dimensions.

ROBEND H+W PLUS bending sets

Model	Description	mm	kg	No.
ROBEND H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	24500
ROBEND H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	24501
ROBEND H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	24502
ROBEND H+W PLUS	15 - 18 - 22 mm	1.0	14.9	24505
ROBEND H+W PLUS	1/2 - 5/8 - 3/4"	1.0	13.6	24503
ROBEND H+W PLUS	1/2 - 5/8 - 7/8"	1.0	13.7	24504

ROLUB Anti-Block special guide shoe

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

ROLUB Anti-Block special guide shoe

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

Elastic honeycomb construction
Up to 42% less effort due to less friction

ROLUB special guide Shoe made of high-quality polyamide
Perfect bending results without friction marks

Two-point lubricating chamber system
Ensures optimum distribution of lubrication

Bending
Manual hydraulic

ROBULL type E / ROBULL MSR type E

For precise, manual hydraulic cold bending up to 90°



Product profile

APPLICATION AREA

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

ROBULL type E:

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

Carbon steel suitable for welding and thread-cutting: Ø 3/8 - 2"

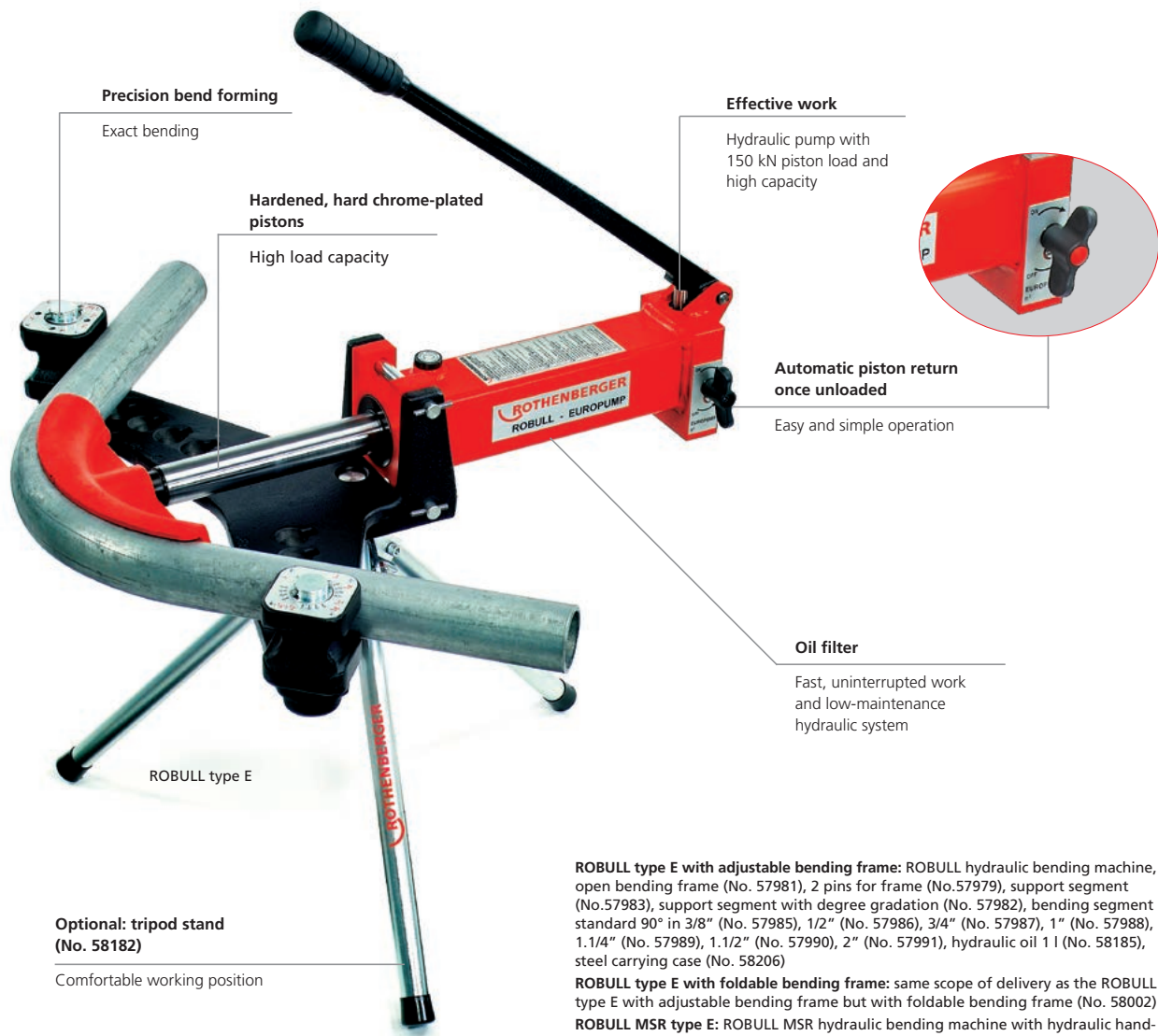
ROBULL MSR type E:

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

Multi-layered composite pipe (MSR): Ø 40 - 50 - 63 mm

KEY FEATURES

- Precise bending with the angle scale on the support brackets (not with ROBULL MSR type E)
- Reduces welded joints
- No pre-warming of pipe is required
- No bending forms needed
- Works quicker with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (opt.)
- With foldable and adjustable bending frame



ROBULL type E with adjustable bending frame: ROBULL hydraulic bending machine, open bending frame (No. 57981), 2 pins for frame (No.57979), support segment (No.57983), support segment with degree gradation (No. 57982), bending segment standard 90° in 3/8" (No. 57985), 1/2" (No. 57986), 3/4" (No. 57987), 1" (No. 57988), 1.1/4" (No. 57989), 1.1/2" (No. 57990), 2" (No. 57991), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206)

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

ROBULL MSR type E: ROBULL MSR hydraulic bending machine with hydraulic hand-pump, adjustable bending frame, 2 pins for frame (No. 57979), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206) (bending segments and support segments not included)

Model	Description	kg		No.
ROBULL type E	without accessories	16.8	1	057950X
ROBULL type E	with adjustable bending frame and accessories (see above)	59.8	1	057966X
ROBULL type E	with foldable bending frame and accessories (see above)	72.6	1	057961X
ROBULL MSR type E	without bending segments and support segments (see above)	54.0	1	57900

ROBULL type E



ROBULL type E with foldable bending frame

ROBULL MSR type E



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

ROBULL type E bending segments

Small bending radius (red)

inch	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 E bending segments

Large bending radius (black)

inch	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 MSR type E bending segments

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



ACCESSORIES



Model	kg	No.
ROBULL type E		
Bending frame, adjustable	15.2	57981
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	775004000
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	57983
Bending frame, foldable	12.5	775504100
Locking pin	0.3	57979
ROBULL MSR type E		
Support segments, 40 mm (2 pieces)	1.9	57921
Support segments, 50 mm (2 pieces)	3.2	57922
Support segments, 63 mm (2 pieces)	3.9	57923
ROBULL type E / ROBULL MSR type E		
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182
Steel case	10.0	996277400

ROBULL type ME / ROBULL MSR type ME

For precise, power hydraulic cold bending up to 90°



Product profile

APPLICATION AREA

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

ROBULL type ME:

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

Carbon steel suitable for welding and thread-cutting: Ø 3/8 - 2"

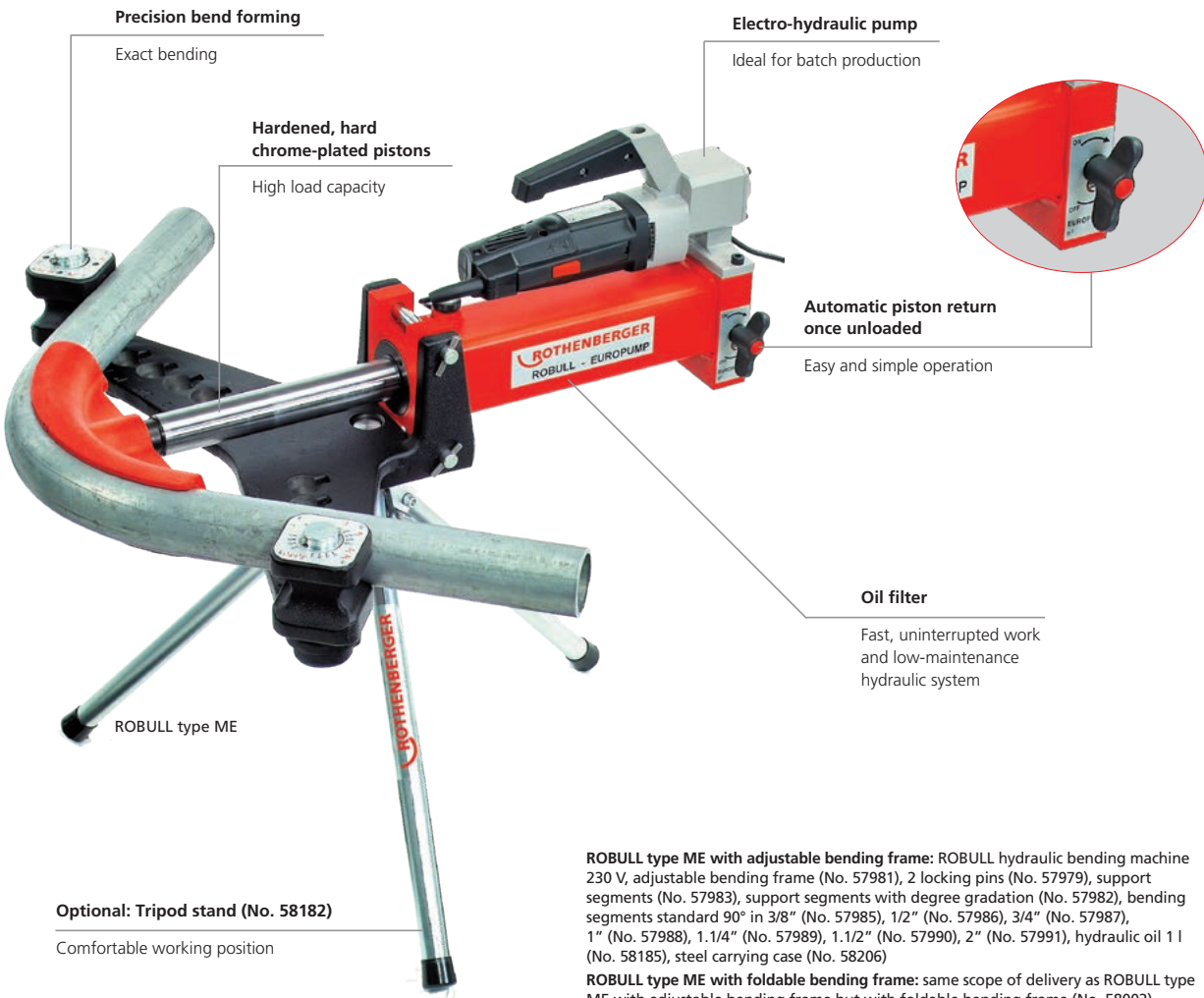
ROBULL MSR type ME:

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

Multi-layered composite pipe (MSR): Ø 40 - 50 - 63 mm

KEY FEATURES

- Precise bending with the angle scale on the support segments (not with ROBULL MSR type ME)
- Reduces welding joints
- Pre-warming of the pipe no longer necessary
- No bending forms are necessary
- Effective use with the 150 kN piston strength
- Easy and simple operation
- Closed, low-maintenance hydraulic system with a mono-block design and with quick, automatic piston retraction
- Comfortable working position with the tripod stand (optional)
- With foldable and adjustable bending frame



ROBULL type ME with adjustable bending frame: ROBULL hydraulic bending machine 230 V, adjustable bending frame (No. 57981), 2 locking pins (No. 57979), support segments (No. 57983), support segments with degree gradation (No. 57982), bending segments standard 90° in 3/8" (No. 57985), 1/2" (No. 57986), 3/4" (No. 57987), 1" (No. 57988), 1.1/4" (No. 57989), 1.1/2" (No. 57990), 2" (No. 57991), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206)

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

ROBULL MSR type ME: ROBULL MSR hydraulic bending machine 230 V, adjustable bending frame, 2 locking pins (No. 57979), hydraulic oil 1 l (No. 58185), steel carrying case (No. 58206) (bending segments, support segments not included)

Model	Description	kg		No.
ROBULL type ME	without accessories	17.8	1	057969X
ROBULL type ME	with adjustable bending frame and accessories (see above)	59.8	1	057973X
ROBULL type ME	with foldable bending frame and accessories (see above)	72.6	1	057972X
ROBULL MSR type ME	without bending segments and support segments (see above)	54.0	1	57915

ROBULL type ME



ROBULL type E with foldable bending frame

ROBULL MSR type ME



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

ROBULL type ME bending segments

Small bending radius (red)

inch	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)

inch	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 MSR type ME bending segments

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



ACCESSORIES



Model	kg	No.
ROBULL type ME		
Bending frame, adjustable	15.2	57981
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	775004000
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	57983
Bending frame, foldable	12.5	775504100
Locking pin	0.3	57979

Model	kg	No.
ROBULL MSR type ME		
Support segments, 40 mm (2 pieces)	1.9	57921
Support segments, 50 mm (2 pieces)	3.2	57922
Support segments, 63 mm (2 pieces)	3.9	57923
ROBULL type ME / ROBULL MSR type ME		
Hydraulic oil, 1 litre	1.0	58185
Tripod stand	3.0	58182

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")

Multi-layered composite pipe (MSR): Ø 12 - 32 mm, (1/2-1.1/4")

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

Pre-adjustment of the bending angle without tools

Fast and precise bending

ROLUB special guide shoe

Bending without deformation or ripples due to less friction



High-performance 1,010 W motor

Ideal for continuous operation

Automatic switch-off when preset bending angle is obtained

Fast batch production possible

Bending of pipes made of various materials possible



Seven-fold drive



Comfortable carry handle



ROBEND 4000 with stand

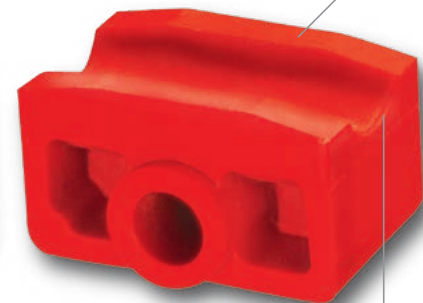


ROBEND 4000 sets

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



ROLUB-Anti-Block-System!



Two-point lubricating chamber system

Ensures optimum distribution of lubrication

ROLUB special guide shoe made of high-quality polyamide

Perfect bending results without friction marks

Optional: Tripod stand



Fig. ROBEND 4000 set

ROBEND bending sets



Forged aluminium former with bending radius display



Pre-adjustment of the bending angle without tools



Model	Description	Pipe type	kg	No.
ROBEND 4000 set	15 - 18 - 22 mm	Cu, Fe 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 segments	Cu, Fe et al.	14.50	1000001559

ACCESSORIES



Model	No.	Model	No.
Bending spray, 150 ml	25120	Pipe cutter	14 - 25
Guide shoe axle	25743	Internal / external deburrer	31
ROBEND carrying case, for 5 segments up to Ø 30 mm	995830200	Hard soldering torch (SUPER FIRE 3 with MAPP ²⁾ gas)	148-157
Tripod stand, foldable	25748	Brazing solder	177
ROBEND carrying case, for 32 mm (1.1/4") and 35 mm (1.3/8")	1000001564		

ROBEND 4000 bending sets can be found on 70

ROBEND 3000/4000 bending formers

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



Fig. ROBEND 3000 / 4000 bending set with ROLUB special guide shoe

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

Size	Wall thickness mm	Bending radius mm	kg	No.
1/2"	3.25	88	1.42	25684
3/4"	3.25	112	2.90	25685

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

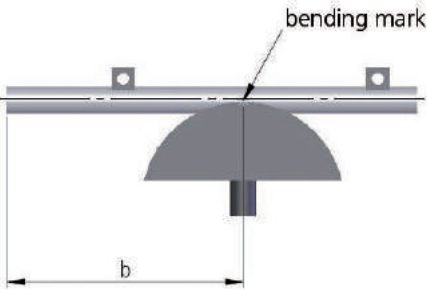
Size	Wall thickness mm	Bending radius mm	kg	No.
12 mm	1.0	42	0.48	25612
14 mm	1.0	49	0.48	25614
15 mm	1.0	52	0.53	25615
16 mm	1.0	56	0.60	25616
18 mm	1.0	72	1.17	25618
20 mm	1.0	80	1.42	25620
22 mm	1.2	88	1.42	25622
28 mm	2.0	112	2.90	25628
32 mm*	2.0	128	3.40	1000001561
35 mm*	2.0	140	3.60	1000001563

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

Size	Wall thickness mm	Bending radius mm	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



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

Symbols

- L_1, L_2 = Leg length
- b = Lay out length
- L = Total length of the pipe piece
- L_W = Distance / pipe end - wall
- A_W = Distance / pipe middle - wall
- L_M = Minimum length*
- L_R = Reserve length*

90°- arc



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

Calculation examples TUBE BENDER MAXI

Specifications:

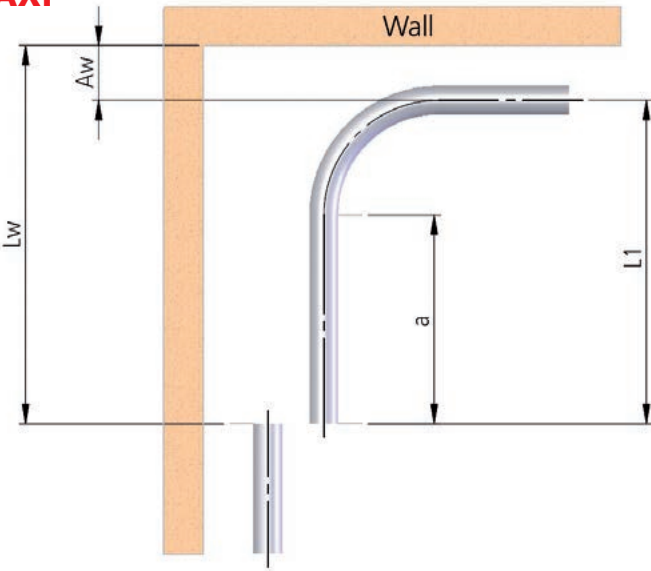
- Installation in corner areas
- $L_W = 1,200$ mm
- $A_W = 30$ mm
- Pipe-Ø 12 mm, 90°-arc

Sought after:

- Leg length L_1
- Applied size b

Solution:

Summary from the TUBE BENDER MAXI bending table



Leg length $L_1 = L_W - A_W = 1,200 - 30 = 1,170$ mm
Applied size $b = L_1 - L_R = 1,170 - 7.5 = 1,162.5$ mm; L_R ... Tabular value

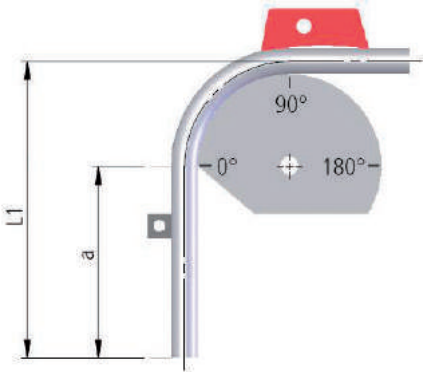
TUBE BENDER		at 45°		at 90°		at 180°	
for Ø mm / inch	Bending radius R (mm)	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm
4.75/5	20.0	4.5	1.0	4.5	10.0	-	-
6	23.5	5.0	1.2	5.0	11.5	-	-
8	28.0	7.0	1.4	7.0	14.0	-	-
9	30.0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

TUBE BENDER MAXI		at 45°		at 90°		at 180°	
for Ø mm / inch	Bending radius R (mm)	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm
12	35.0	0.8	10.0	7.5	35.0	-	-
14	42.5	0.9	12.5	9.0	42.5	-	-
15	48.5	1.1	14.0	10.5	48.5	-	-
16	49.0	1.1	14.5	10.5	49.0	-	-
18	74.0	1.7	22.0	16.0	74.0	-	-
22	87.0	1.9	25.5	18.5	87.0	-	-
3/8"	35.0	0.8	10.0	7.5	35.0	-	-
1/2"	35.0	0.8	10.0	7.5	35.0	-	-
5/8"	49.0	1.1	14.5	10.5	49.0	-	-
3/4"	74.0	1.7	22.0	16.0	74.0	-	-
7/8"	87.0	1.9	25.5	18.5	87.0	-	-

TUBE BENDER MAXI CT		at 45°		at 90°		at 180°	
Tube Ø / Ws mm	Bending radius R (mm)	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm	Reserve length L_R mm	Minimum length L_M mm
10 x 0.6	42.5	0.8	12.5	9.0	42.5	-	-
12 x 0.6	49.0	1.1	14.5	10.5	49.0	-	-
15 x 0.7	74.0	1.7	22.0	16.0	74.0	-	-
18 x 0.7	87.0	1.9	25.5	18.5	87.0	-	-

Bending
Bending tables

Pull bending



Symbols
L1, L2 = Leg length
a = Lay out length
L = Total length of the pipe piece
LW = Distance / pipe end - wall
AW = Distance / pipe middle - wall
LM = Minimum length*
LR = Reserve length*

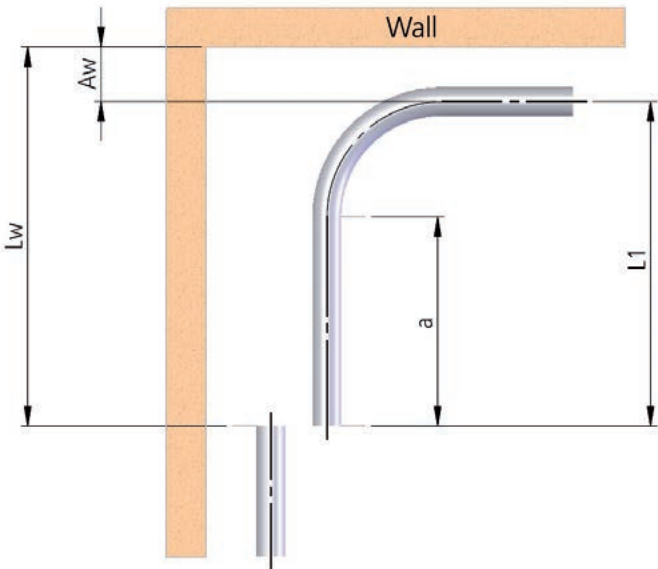
45°- arc, 90°- arc, 180°- arc
L = L1 + L2
a = L1 - LR
L = L1 + L2 - LM
a = L1 - LR
L = L1 + L2 + LM
a = L1 - LR

Calculation examples
ROBEND 3000 / ROBEND 4000

Specifications:
Installation in corner areas
LW = 1,200 mm
AW = 30 mm
Pipe-Ø 12 mm, 90°-arc

Sought after:
Leg length L1
Applied size a

Solution:
Summary from the ROBEND 3000/4000 bending table



Leg length L1 = LW - AW = 1,200 - 30 = 1,170 mm
Applied size a = L1 - LR = 1,170 - 42 = 1,128 mm; LR ... Tabular value

Bending
Bending tables

Table with multiple sections: ROBEND H+W Plus, MINIBEND, Standard bender 180°, MULTIBEND, and ROBEND 3000/4000. Each section contains a table with columns for pipe size, bending radius, reserve length, and minimum length at various angles (45°, 90°, 180°).





Expanding, extracting, flaring



System overview	76 - 77
Expanding, manual	78 - 85
Expanding, electro	86
Expanding, hydraulic	87 - 88
Accessories expanding	89
Expanding & extracting, manual	90
Extracting, manual	91 - 92
Accessories extracting, manual	93
Flaring	94 - 97
Torque wrench	97



Expanding, extracting, flaring





System overview




Expander				
	ROCAM expander power torque	ROLOCK expander power torque	Expander A0	Step expander A1
				
Operation mode:	Manual	Manual	Manual	Manual
Working range: Copper	Ø 8-42 mm (5/16-1.3/4") +Ø 1.6 mm, soft, semi-hard	Ø 8-42 mm (5/16-1.3/4") +Ø 1.6 mm, soft, semi-hard	Ø 22-67 mm (1-2.1/2") +Ø 2.5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft
Working range: Aluminium	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 22-67 mm (1-2.1/2") +Ø 2.5 mm, soft, semi-hard	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft
Working range: Precision steel	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 22-54 mm (1-2.1/8") +Ø 1.5 mm, soft	–
Working range: Stainless steel	Ø 8-22 mm (5/16-7/8") +Ø 1 mm, soft	Ø 8-22 mm (5/16-7/8") +Ø 1 mm, soft	Ø 22-54 mm (1-2.1/8") +Ø 1.5 mm, soft	–
Page	78, 79	80, 81	84	86

	ROMAX expander AC ECO MAXI	H 600
		
Operation mode:	Electro-hydraulic	Hydraulic
Working range: Copper	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft, semi-soft	Ø 8-110 mm (5/16-4.1/4") +Ø 3 mm, soft, semi-soft
Working range: Aluminium	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft	Ø 8-110 mm (5/16-4.1/4") +Ø 3 mm, soft, semi-soft
Working range: Precision steel	–	Ø 8-110 mm (5/16-4.1/4") +Ø 3 mm, soft, semi-soft
Working range: Stainless steel	–	Ø 8-110 mm (5/16-4.1/4") +Ø 3 mm, soft, semi-soft
Page	86	87

Expanding, extracting, flaring

System overview

Expander heads				
	Expander head standard	Expander head ROLOCK	Expander head type S	Riveted expander head
				
Working range: Copper	Ø 8-42 mm (5/16-1.3/4") +Ø 1.6 mm, soft, semi-soft	Ø 8-42 mm (5/16-1.3/4") +Ø 1.6 mm, soft, semi-soft	Ø 22-67 mm (1-2.1/2") +Ø 2.5 mm, soft, semi-soft	Ø 15-38 mm +Ø 1.5 mm, soft, semi-soft
Working range: Aluminium	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 22-67 mm (1-2.1/2") +Ø 2.5 mm, soft	–
Working range: Precision steel	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 8-28 mm (5/16-1.1/8") +Ø 1.6 mm, soft	Ø 22-54 mm (1-2.1/8") +Ø 1.5 mm, soft	–
Working range: Stainless steel	Ø 8-22 mm (5/16-7/8") +Ø 1 mm, soft	Ø 8-22 mm (5/16-7/8") +Ø 1 mm, soft	Ø 22-54 mm (1-2.1/8") +Ø 1.5 mm, soft	–
Page	82	83	85	85

	Expander head H2, type 2	Expander head H2, type 3	Step expander head
			
Working range: Copper	Ø 28-70 mm (1.1/8-2.3/4") +Ø 2.5 mm, soft, semi-soft	Ø 70-110 mm (2.3/4-4.1/4") +Ø 3 mm, soft, semi-soft	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft, semi-soft
Working range: Aluminium	Ø 28-70 mm (1.1/8-2.3/4") +Ø 2.5 mm, soft, semi-soft	Ø 70-110 mm (2.3/4-4.1/4") +Ø 3 mm, soft, semi-soft	Ø 35-108 mm (1.3/8-4.1/8") +Ø 2.5 mm, soft
Working range: Precision steel	Ø 28-70 mm (1.1/8-2.3/4") +Ø 2.5 mm, soft, semi-soft	Ø 70-110 mm (2.3/4-4.1/4") +Ø 3 mm, soft, semi-soft	–
Working range: Stainless steel	Ø 28-70 mm (1.1/8-2.3/4") +Ø 2.5 mm, soft, semi-soft	Ø 70-110 mm (2.3/4-4.1/4") +Ø 3 mm, soft, semi-soft	–
Page	88	88	89

Expanding, extracting, flaring

Expanding, manual

ROCAM expander power torque

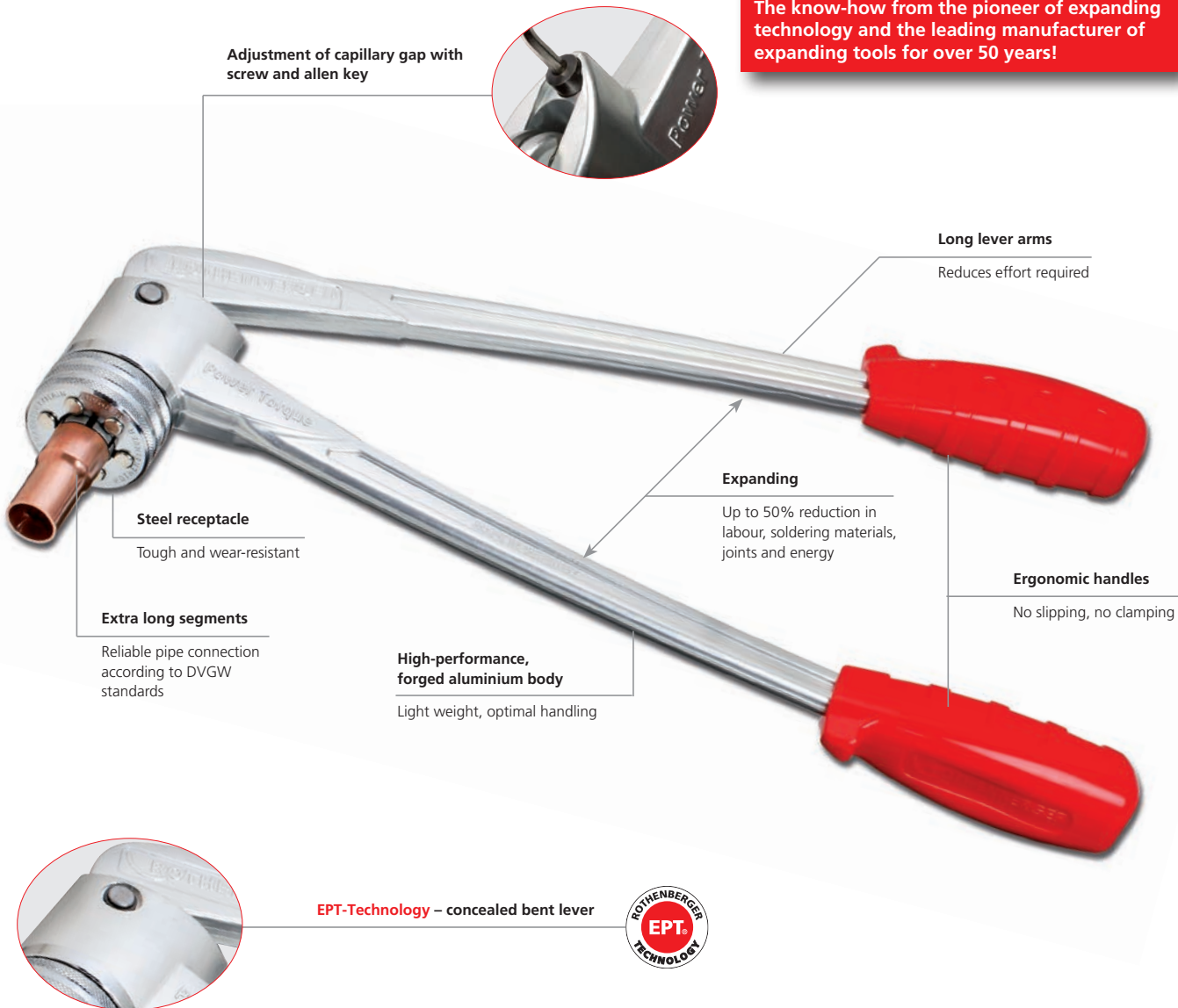
For expanding, reducing and calibrating soft and semi-hard pipes Ø 8 - 42 mm (5/16 - 1.3/4"), as well as producing tapers



Product profile	
APPLICATION AREA	
For efficient, fitting-free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems	
Suitable for pipes made of:	
Copper (soft and semi-soft):	Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
Aluminium (soft):	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
Precision steel (soft):	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
Stainless steel (soft):	Ø 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

KEY FEATURES
● Eliminates the cost of purchase and storage of fittings
● Converts deformed pipes into fittings; saves resources
● 50% reduction of labour, soldering materials, joints and energy
● Reliable pipe connection according to DVGW standards
● Tough, light and wear-resistant
● Fine adjustment of the capillary gap
● EPT – concealed bent lever

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



ROCAM expander power torque		kg	No.
Expander tool (without expander heads) for expander heads up to 42 mm / 1.3/4"	1	1.0	12000

Expanding, extracting, flaring

Expanding, manual

ROCAM expander power torque sets

ROCAM expander power torque sets include: expander heads, ROCAM expander power torque (No. 12400), internal and external deburrer (No. 11006), steel carrying case (No. 24022), plastic inlay (No. 11002)

ROCAM expander power torque sets		kg	No.
Model			
12 - 15 - 18 - 22 mm	1	2.9	12300
10 - 12 - 15 - 18 - 22 mm	1	3.3	12302
12 - 15 - 18 - 22 - 28 mm	1	3.3	12303
10 - 12 - 16 - 18 - 22 mm	1	3.3	12304
10 - 12 - 16 - 22 - 28 mm	1	3.3	12305
12 - 14 - 16 - 18 - 22 mm	1	3.3	12309
12 - 14 - 16 - 18 - 22 - 28 mm	1	3.3	12310
10 - 12 - 14 - 16 - 18 - 22 mm	1	3.6	12311
3/8 - 1/2 - 5/8 - 3/4 - 1"	1	3.3	12317
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8"	1	3.6	12318
1/2 - 5/8 - 3/4 - 7/8"	1	2.9	12321
12 - 16 - 18 - 22 - 28 mm	1	3.2	12322
3/8 - 1/2 - 3/4 - 1"	1	3.2	12323
1/2 - 5/8 - 7/8 - 1.1/8"	1	3.0	12324
12 - 15 - 18 - 22 - 28 - 35 - 42 mm	1	4.2	12326
15 - 22 - 28 mm	1	2.9	12327
15 - 22 mm	1	2.5	12328
1/2 - 3/4 - 1"	1	2.9	12335
10 - 12 - 15 - 16 - 18 - 22 - 28 mm	1	3.6	12337
12 - 14 - 16 - 18 - 22 - 28 - 32 mm	1	3.7	12338
15 - 18 - 22 - 28 - 35 - 42 mm	1	4.0	12339

Quality protection against wear with the TiN sealed pin drive



EPT-Technology (Enclosed Power Transmission)
The expander head offers the following technical benefits:
Concealed bent lever:
Protection against dirt and external mechanical damage
Energy efficient through optimised force transmission:
Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort



ROCAM expander power torque sets		kg	No.
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"	1	3.7	12336
3/8 - 1/2 - 5/8 - 3/4" - 22 - 28 mm	1	3.6	12320
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"	1	4.5	12341

For efficient, fitting-free installation of pipes



ROCAM PE-X expander power torque

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

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

Model	kg	No.
ROCAM expander PE-X w/o expander heads	1.0	12005



Article upon request*

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

Expanding, extracting, flaring

Expanding, manual

ROLOCK expander power torque

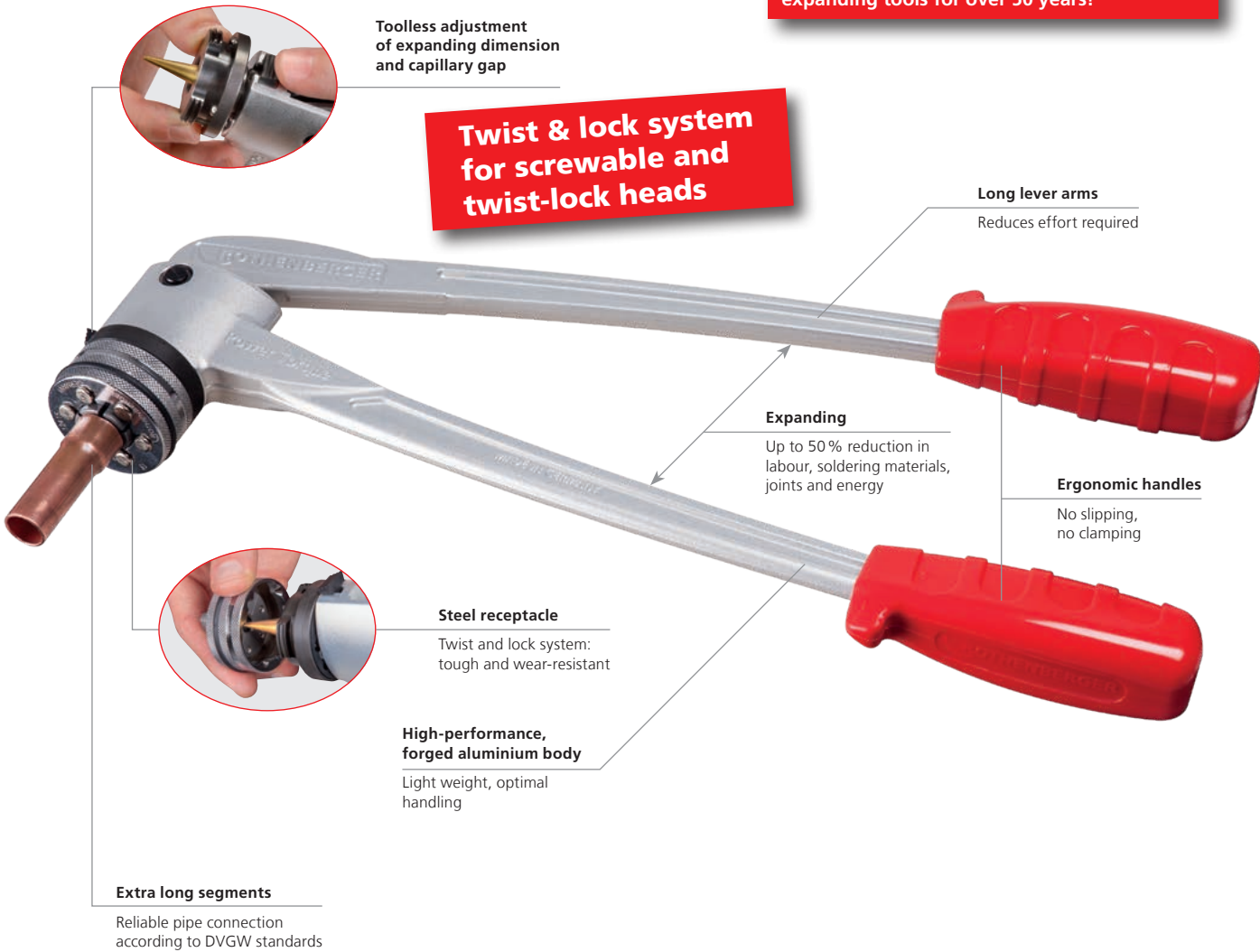
For expanding, reducing and calibrating soft and semi-hard pipes Ø 8 - 42 mm (5/16 - 1.3/4"), as well as producing tapers



Product profile	
APPLICATION AREA	
For efficient, fitting-free installation of pipes in sanitary heating, gas, refrigeration and air-conditioning systems	
Suitable for pipes made of:	
Copper (soft and semi-soft):	Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
Aluminium (soft):	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
Precision steel (soft):	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
Stainless steel (soft):	Ø 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

KEY FEATURES
● Eliminates the cost of purchase and storage of fittings
● Converts deformed pipes into fittings; saves resources
● 50% reduction of labour, soldering materials, joints and energy
● Reliable pipe connection according to DVGW standards
● Tough, light and wear-resistant
● Fine adjustment of the capillary gap
● EPT – concealed bent lever

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



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

Expanding, extracting, flaring

Expanding, manual

ROLOCK expander power torque sets

ROLOCK expander power torque sets include: expander heads, RO-LOCK expander power torque (No. 12400), internal and external deburrer (No. 11006), steel carrying case (No. 24022), plastic inlay (No. 11002)



Expander head for guide change between nominal diameters



Expander heads with screw top applicable

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

EPT-Technology (Enclosed Power Transmission)
The expander head offers the following technical benefits:
Concealed bent lever:
Protection against dirt and external mechanical damage
Energy efficient through optimised force transmission:
Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort



For efficient, fitting-free installation of pipes



ACCESSORIES			
Description		Description	
Expander heads for ROLOCK expander power torque		Expander adaptor type S	
Expander heads type S / riveted expander heads		Brazing solder	
Pipe cutter		High-performance torch (SUPER FIRE 3 with MAPP ¹⁾ gas)	
Internal / external deburrer			

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

Expanding, extracting, flaring

Expanding, manual

Expander head 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

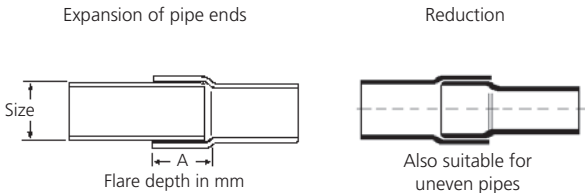
Product profile

KEY FEATURES

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

Made in Germany!

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



Fits similar expanders from other brands as well!

Specially hardened segments

Tough and long lasting

6 rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

Extra long segments

Depth of the flare is consistent with DVGW standards

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

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

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

Suitable for ROTHENBERGER ROCAM expander power torque



Description

ROCAM expander power torque
ROCASE 4414 red, without inlay 39 x 39 x 12 cm



Description

Electro-hydraulic expander pistol H1
COMBI KIT expander / tee-extractor



88
90

Expanding, extracting, flaring

Expanding, manual

Expander head ROLOCK

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

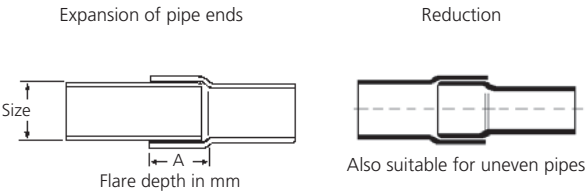
Product profile

KEY FEATURES

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

Made in Germany!

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



Twist & lock heads for ROLOCK expander power torque

Specially hardened segments

Tough and long lasting

6 rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

Extra long segments

Depth of the flare is consistent with DVGW standards

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

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

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

Suitable for ROTHENBERGER ROLOCK expander power torque

Description	Description
ROCASE 4414 red, without inlay 39 x 39 x 12 cm	COMBI KIT expander / tee-extractor
339	90

Expanding, extracting, flaring

Expanding, manual

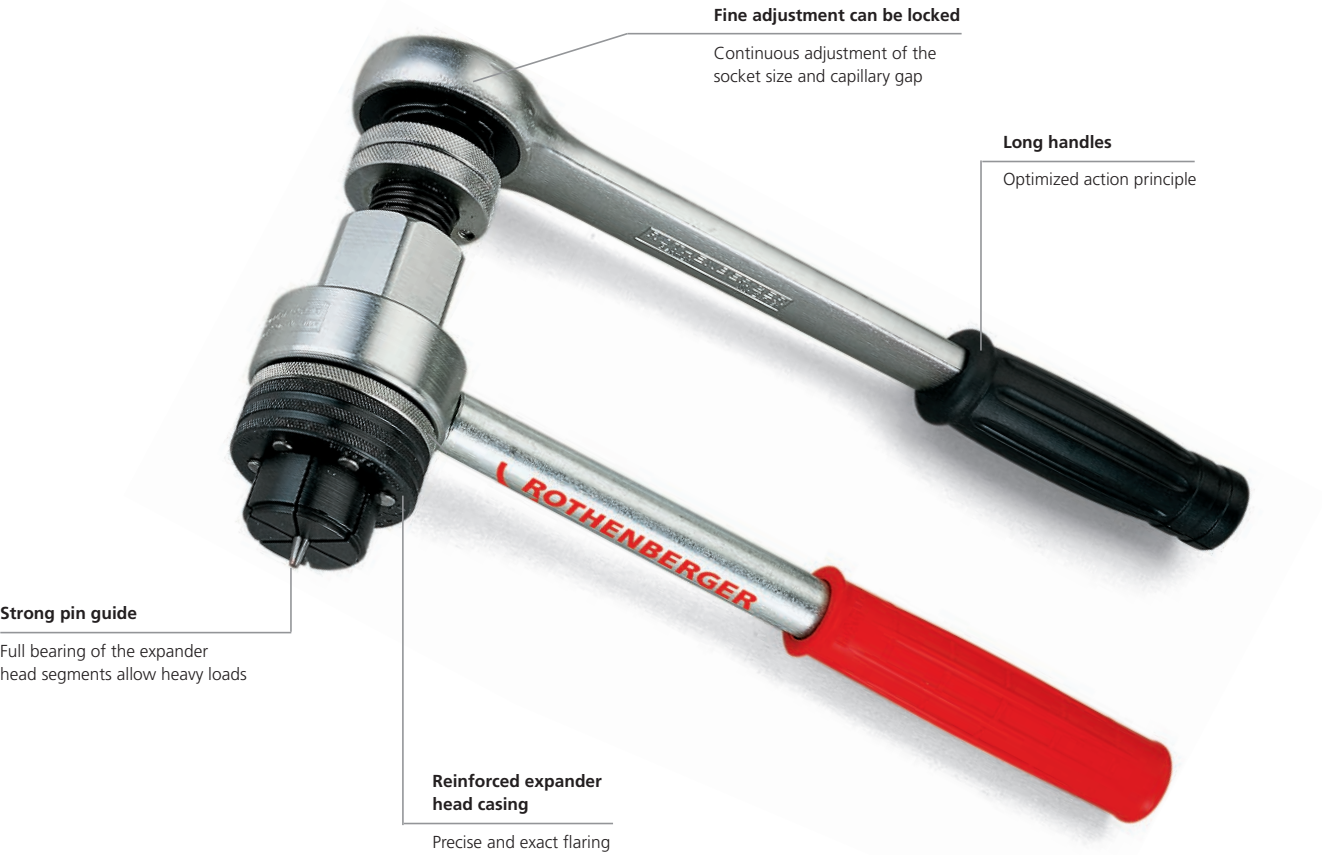
Expander A0

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

Product profile	
APPLICATION AREA	
Suitable for pipes made of:	Ø 22 - 67 mm, 1 - 2.1/2"
Copper and aluminium: (soft, semi-soft)	max. wall thickness 2.5 mm
Precision steel (soft): and stainless steel per DVGW-GW541	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 ROCAM expander power torque	
● Precise and exact flaring	
● Full bearing of the expander head segments allows heavy loads	
● Continuous adjustment of the socket size and capillary gap	
● Optimized action principle with long handles	



Expander A0 set (No. 11400) includes: expander head type S, special ratchet (No. 27181), steel case (No. 27210)
Expander A0 basic unit (No. 11004) includes: square drive mechanism 3/4" with handle, without expander head and ratchet

Model	Size	kg	No.
Expander A0 set	35 - 42 - 54 - 64 mm	8.12	11400
Expander A0 basic unit		1.97	11004



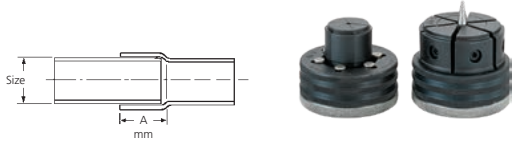
Fig. expander A0 set

Expanding, extracting, flaring

Expanding, manual

Expander head type S

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



Accurate guidance of the segments through the reinforced expander head casing

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

inch	max. wall thickness mm				A-size mm	g	No.
	Cu	Al	Fe	Inox			
1"	2.0	2.0	1.5	1.5	18.5	350	11376
1.1/8"	2.0	2.0	1.5	1.5	19.5	360	11358
1.1/4"	2.0	2.0	1.5	1.5	19.5	380	11332
1.3/8"	2.0	2.0	1.5	1.5	19.5	400	11335
1.5/8"	2.0	2.0	1.5	1.5	19.5	450	11362
2"	2.0	2.0	1.5	1.5	17.0	540	11364
2.1/8"	2.5	2.5	1.5	1.5	17.0	570	11346
2.1/2"	2.5	2.5	-	-	17.0	690	11348

Expander adaptor type S

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

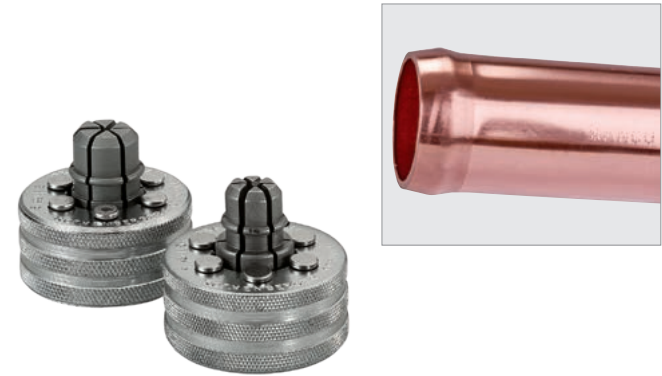


Allows the use of the expander heads type S with copper pipe (soft) up to 67 mm and/or 2.1/2"!

Model	max.	max. mm	g	No.
Adaptor type S, without expander head	67 mm and/or 2.1/2"	2.0	630	11007

Flanged riveted expander heads

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



Product profile	
APPLICATION AREA	
For producing exact hose connections, for example vibrating power units in	
● Air-conditioning technology	
● Auto manufacturing	
● Industrial applications	

mm	mm	Outer dia.-flange 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, extracting, flaring

Expanding, electro

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	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

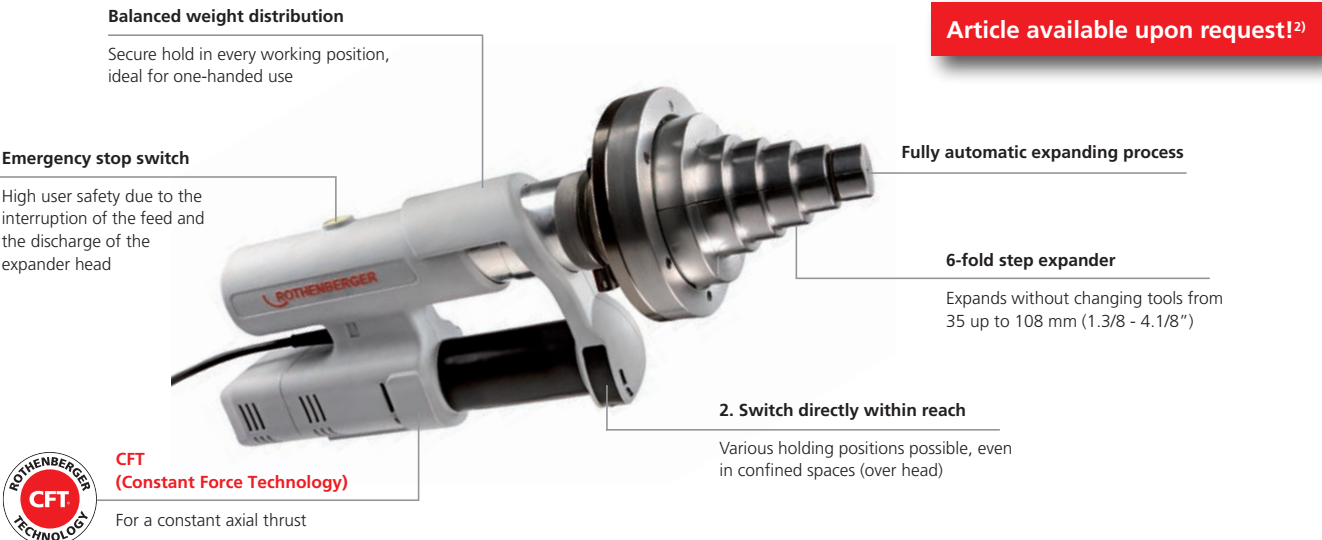
Product profile
APPLICATION AREA
For efficient, fitting-free installation of pipes in sanitary, heating, gas, refrigeration and air-conditioning systems
Suitable for pipes made of:
Copper and aluminium: Ø 35 - 108 mm, 1.3/8 - 4.1/8" (soft) max. wall thickness 2.5 mm
KEY FEATURES
● Affordable alternative when laying larger pipe dimensions with a considerable saving of soldering materials
● Expand without changing tools with the 6 size step expander
● Full bearing of the expander head segments allows heavy loads
● Optimum adjustment of the socket size and capillary gap with the positive fine adjustment
● Optimised force transmission with the trapezoidal screw thread with self-lubricating bronze socket
● Guide guarantees a perfect centred position and uniform capillary gap with 6 rivets and guiding ridge

ROMAX expander AC ECO MAXI

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

Product profile
APPLICATION AREA
Suitable for pipes made of:
Copper and aluminium: Ø 35 - 108 mm (1.3/8" - 4.1/8") (soft, semi-soft) max. wall thickness 2.5 mm
KEY FEATURES
● Optimally suited for batch production and large building sites
● Constant thrust with CFT
● User safety with the easy to reach emergency stop switch

Product profile
KEY FEATURES
● Long service life and high functional safety
● The expansion / calibration takes place after pressing and holding the switch
● Large working radius with the 5 m long cable
TECHNICAL DATA
Weight: ca. 13.7 kg
Motor: 230 V / 50 Hz



Expanding, extracting, flaring

Expanding, hydraulic

Hydraulic expander system H 600

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

Product profile
APPLICATION AREA
Suitable for normal and thick walled pipes made of:
Copper and aluminium: Ø 8 - 110 mm, 5/16 - 4.1/4" max. wall thickness 3.0 mm
Precision and stainless steel: Ø 8 - 110 mm, 5/16 - 4.1/4" max. wall thickness 3.0 mm
KEY FEATURES
● Individual modular design
● Industrial quality expansions
● Proper and efficient handling of material

TECHNICAL DATA
Rated power: 1.2 kW
Rated current: 2.1 A
Operating pressure: 80 - 600 bar
Max. operating pressure: 700 bar
Delivery capacity: 0.82 l / min
Safety category: IP 54
Actuation: 400 V / 1200 W



Set (No. 13100) includes: Electro-hydraulic expander system H 600 complete with hydraulic unit H 600 (No. 13002), expander pistol H 1 (No. 12001), control cable, hydraulic hose 2.5 m with circuit points, adjusting tool, tool rack (No. 13023), safety foot pedal and hydraulic oil 1 l (No. 58185), without expander heads

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

Model	kg	No.
Hydraulic system complete, without heads	36.0	13100
Hydraulic tool H 600	33.1	13002
Foot pedal H 600 with 3 m cable	0.5	12013

Expanding, extracting, flaring

Expanding, hydraulic

Electro-hydraulic expander pistol H1

Product profile	
APPLICATION AREA	
Expander heads standard:	Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
Expander heads type S: (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	kg	No.
Electro-hydraulic expander pistol H1	2.9	12001
S-head adaptor for H1	0.6	11007
Adjusting tool for H1	0.9	12017

ACCESSORIES

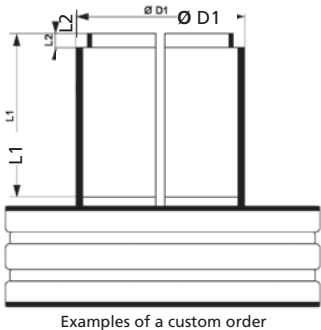
Description	kg	No.
Expander head H2 / type 3, 70 - 110 mm	3.0	12080
Expander head H2 / type 2, 28 - 70 mm	2.5	12078
S-head adaptor for H2	1.1	12097
Adjusting tool for H2	0.9	12018



Custom-made products*
Riveted expander heads H2

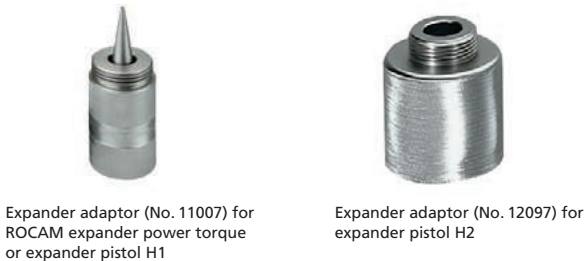
Only one head necessary for every pipe diameter.
When ordering, please fill out form and state the applicable dimensions L1 / L2 / D1

* Availability, delivery time and price available on request!



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



Model	max.	max. mm	kg	No.
Adaptor type S, without expander heads	67 mm and/or 2.1/2"	2.0	0.6	11007
Adaptor H2/type S,	70 - 110 mm	1.1		12097

Expanding, extracting, flaring

Accessories expanding

Expander head compatibility

	Expander head ROLOCK	Expander head standard	Expander head type S	Riveted expander head	Expander head PE-X	Expander head H2, type 2 and 3	Step expander head
ROLOCK expander power torque	●	●	●	●	○	○	○
ROCAM expander power torque	○	●	●	●	●	○	○
Expander A0	○	○	●	○	○	○	○
Expander A1	○	○	○	○	○	○	●
ROMAX expander Compact	○	●	● No. 15714 ● No. 15715	● No. 15714	● No. 15716	○	○
ROMAX expander AC ECO MAXI	○	○	○	○	○	○	●
Expander pistol H1	○	●	●	●	○	○	○
Expander pistol H2	○	○	●	○	○	●	○

● Expander head without adaptor can be used ○ Expander head can not be used Fig.: Can be used with the appropriate adaptor (pictured)

Expanding, extracting, flaring

Expanding & extracting, manual

COMBI KIT expander / tee-extractor

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

Product profile

APPLICATION AREA

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

KEY FEATURES

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

Made in Germany!

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

KEY FEATURES

- Fine adjustment of the capillary gap using the KSO-screw
- Reduces effort required and increases work space
- Up to 67% reduction of soldering materials and soldered joints
- Accurate drilling
- Saves resources by converting scrap pipes into fittings
- Reliable pipe connections to DVGW standards

EPT-Technology

Concealed bent lever

Largest possible expansion size and capillary gap using the adjustable KSO-screw

Professional extractions

Up to 67% reduction of soldering materials and soldered joints

Long handles

Reduces effort required and increases work space

Utilisation of material

Saves resources by converting scrap pipes into fittings

UNIDRILL Automatic 28 / 42

Accurate drilling

Scale and cam depth adjustment

Extractor cam pincer

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

No. 21583 / No. 21575

No. 22080

ROCAM COMBI KIT set includes: ROCAM expander power torque (No. 12000), standard expander heads, tee-extractor, special ratchet (No. 27180), adaptor (No. 1500002894), UNIDRILL Automatic 28 (No. 21583), extractor cam pincer (No. 22080), steel carrying case (No. 24022)

Model	Description	kg		No.
COMBI KIT	12 - 15 - 18 - 22 mm	4.4	1	011180X
COMBI KIT	12 - 14 - 16 - 18 mm	2.6	1	011186X
COMBI KIT	1/2 - 5/8 - 7/8 - 1.1/8"	2.8	1	011194X

ROLOCK COMBI KIT set includes: ROLOCK expander power torque (No. 12400), ROLOCK expander heads, tee-extractor, special ratchet (No. 27180), adaptor (No. 1500002894), UNIDRILL Automatic 28 (No. 21583), extractor cam pincer (No. 22080), steel carrying case (No. 24022)

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

Tee-extractor sets

For efficient production of T-branches (extractions) for fitting-free pipe installations, Ø 12 - 42 mm (3/8 - 2.1/8")

Product profile

APPLICATION AREA

Suitable for pipes made of:
Copper (soft, semi-soft, hart):
Aluminium:
Precision steel:

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

Expanding, extracting, flaring

Extracting, manual

Made in Germany!

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

KEY FEATURES

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

Scale and cam depth adjustment

Limits the insertion depth

Optimal positioning

No pipe removal

Extractions even on installed pipes possible

Extractor cam pincer

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

No. 22081

Optimum capillary gap

Professional extractions

UNIDRILL Automatic 28 / 42

Accurate drilling

No. 21583 / No. 21575



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), steel carrying case (No. 24022)

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

Expanding, extracting, flaring

Extracting, manual





Tee-extractor



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



Product profile



KEY FEATURES

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

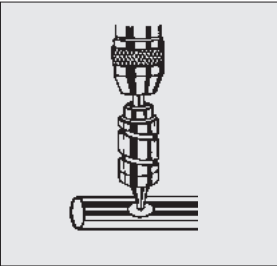
 mm / inch	 mm	Drill Ø mm	 mm	 g	No.
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
28	2.5	15	11	470	22028
35	2.5	22	11	700	22035
38	2.5	22	11	700	22038
42	2.5	26	11	890	22042
54	2.5	30	19	1,380	22054
3/8"	1.0	6	11	110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

 hexagon  square

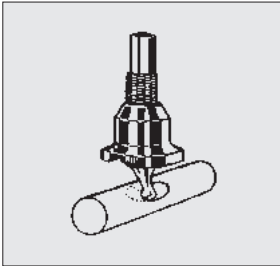
 mm	 g	No.
10	60	1300005045
12	70	1300005046
14	90	1300005047
15	90	1300005048
16	140	1300005049
18	140	1300005050
22	210	1300005051
28	220	1300005052
35	290	1300005054
38	290	1300005055
42	320	1300005056
54	560	1300005057

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

Precise drilling of the pipe with-out 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



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

Double V-block

Accurate and firm positioning for exact 90° branches





Specially polished, forged and tempered extractor hooks

Burr-free operation

Special hook design

Easy insertion into the drilled hole

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

 mm / inch	 mm	Drill Ø mm	 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

Square connection 3/4"

F80053 F80054

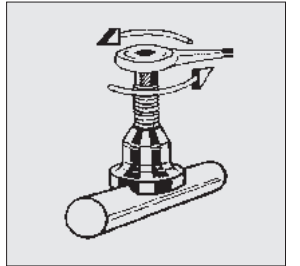
Spare extractor hooks

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

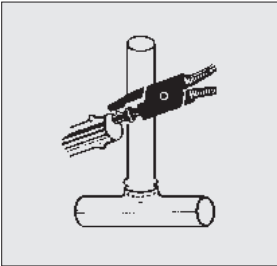


Note: For copper pipes (soft), the use of an extractor support is recommended! (95)

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



Expanding, extracting, flaring

Accessories extracting, manual

Tee-extractor ratchet



Chrome vanadium steel, fine toothed and right/left reversible



No. 27180
Fig. similar

No. 1500002894
Adaptor for the use with extractor

No. 27181


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

Extractor cam pincer

KEY FEATURES

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



 mm	 inch	 g	No.
12 - 42	1/2 - 1.5/8"	150 170	22080

EVERCOOL

Drill and extraction paste

KEY FEATURES

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



Model	Contents	 g	No.
EVERCOOL	50 g	80	21549

UNIDRILL Automatic 28 / 42

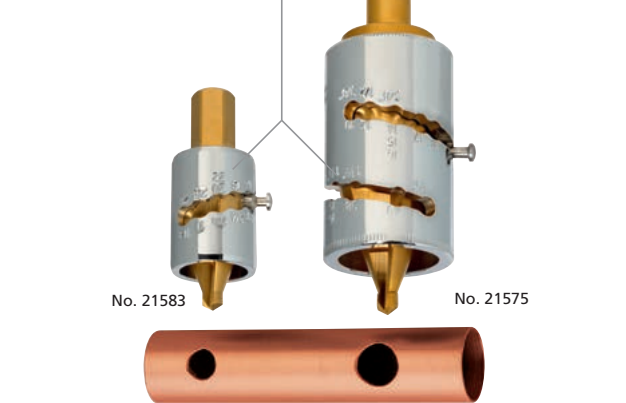
HSS special conical drill

KEY FEATURES

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





UNIDRILL Automatic 28 / 42

Accurate drilling



No. 21583

No. 21575

Model	 mm	 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

Extractor support


KEY FEATURES

- Prevents deformation during extraction, especially for soft pipe material



Extractor support plates

Prevents deformation during extraction

Main pipe	Branch pipe	 g	No.
5/8"	1/2"	170	22153
3/4"	5/8"	250	22172
7/8"	3/4"	250	22157
1.3/8"	1.1/8"	350	22159

Expanding, extracting, flaring

Flaring

Precision double flaring press DB 10

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

Product profile

APPLICATION AREA

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

KEY FEATURES

- Ideal for endless pipes
- For several flaring profiles, wall thickness 0.7 - 1.0 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

Integrated depth stop
Accurate and reproducible results

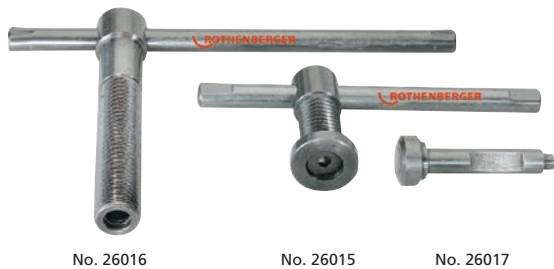
Pluggable pressure cone
Universally insertable

Clamping block
For several pipe diameters

Flange length
Reliable hold with the 25 mm pipe clamping length

Pluggable flaring attachments
For several flaring profiles up to a wall thickness of 0.7 - 1.0 mm

Horizontal clamping
Applicable for endless pipes



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

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



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

Expanding, extracting, flaring

Flaring

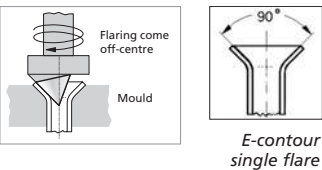
ROFLARE REVOLVER

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
For ratchet & electric drive

Spring loaded safety clutch
No reduction of wall thickness

High-quality revolver die
Highest fitting accuracy with long service life

Recuperating spring
Automatic support to pull back the flexible revolver die

Optimized rubber handle
Durable and slip-proof

Set (No. 1000000230) includes: ROFLARE REVOLVER metric incl. ratchet adaptor, dies Ø 6, 8, 10, 12, 16 and 18 mm, pipe cutter ROTRAC 28 PLUS chrome limited edition (No. 1000000046), in blister pack
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), in blister pack

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

Compact design enables use in confined spaces



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



Expanding, extracting, flaring

Flaring

Reeling flaring tool

For producing precision 45° single flares on copper pipes
Ø 6 - 18 mm (1/8 - 3/4")

Product profile

KEY FEATURES

- Controlled expanding and shaping of the pipe without tearing
- No reduction in wall thickness
- No slipping of the pipe
- Sturdy and long lasting



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

Model	mm / inch	No.
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"	222401
Set EB	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

Flare cone rotates off-centre in needle bearings

Controlled expanding and shaping of the pipe end without tearing

No. 222401, No. 222402, No. 222403

Square connection

For manual operation, for example cordless screwdriver

Spring-loaded slide coupling

No reduction in wall thickness

Made from forged steel

Tough and long-lasting

Self-centring die

Highest flare precision

Adaptor for cordless screwdriver

Pipe will not slip

Die available in metric and imperial sizes

Flaring cone off-centre

Mould

90°

E-contour single flare

Universal flaring tool

For producing precision 45° single flares on copper pipes Ø 4 - 16 mm (3/16 - 5/8")

- Universal application and highest flare precision through self-centring pipe clamp for all diameters
- Controlled flaring without tearing, forming perfect surfaces
- Hardened flare cone with special geometry

Flaring cone centre

Mould

90°

E-contour single flare

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

Model	mm	inch	kg	No.
Set EB	4 - 16 mm	3/16 - 5/8"	900	222601

Flaring and bending set

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



Flaring and bending set (No. 26020) includes: MINICUT I, Ø 3 - 16 mm (No. 70401), internal and external deburrer, Ø 4 - 36 mm (No. 11006), double flare press DB 10 (No. 26013), TUBE BENDER set, Ø 4.75 - 10 mm (No. 24112), steel carrying case (No. 24022)

Model	mm	kg	No.
Flaring / bending set	4.75 - 5 - 6 - 8 - 9 - 10	5.5	26020

Expanding, extracting, flaring

Flaring

ROTORQUE AIRCON / REFRIGERATION

Step-less torque wrench

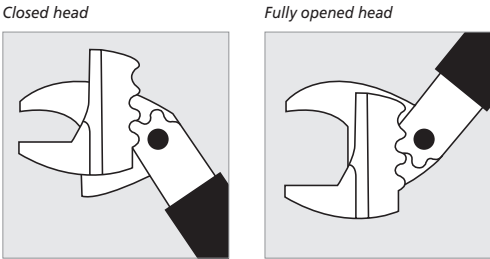
Product profile

APPLICATION AREA

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

KEY FEATURES

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



ROTORQUE sets include: torque wrench, head, carrying bag

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

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



Connection 9 x 12

Head can be exchanged between ROTORQUE AIRCON and ROTORQUE REFRIGERATION

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

The torque can be read off

Always tighten according to the standard

ROTORQUE AIRCON torque wrench

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

ROTORQUE REFRIGERATION torque wrench

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



Fig. ROTORQUE AIRCON torque wrench



Fig. ROTORQUE REFRIGERATION torque wrench

Fix with torque urgently necessary!

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

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

Model	kg	No.
Torque wrench set, 7 pieces	3.5	175001



Pressing

System overview	100 - 101
Press machine compact	102 - 103
»B« MaxiPro press system	104 - 105
Press machines standard	106 - 109
DURA LAZR TEC	110
Press jaws compact	111 - 112
Press jaws standard	112 - 113
Press chains standard	114
Overview press jaws	115 - 116
Pressnavigator app	116
Overview system approvals	117 - 121

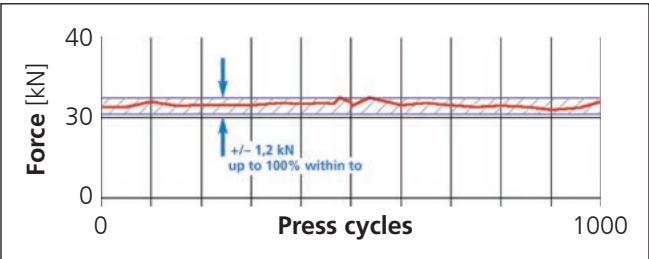
Press machines

				
Operation mode:	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic	Electro-hydraulic
Jaw fixture rotatable:	270°	270°	270°	270°
Constant Force Technology (CFT):	✓	✓	✓	✓
Controlled press cycle:	✓	✓	✓	–
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:	✓	✓	✓	–
Approx. pressing cycle time:	3 s	5 s	5 s	7 s
Dimensions:	336 x 143 x 76 mm	445 x 125 x 75 mm	460 x 120 x 90 mm	415 x 180 x 80 mm
Cable length:	–	–	5 m	5 m
Weight:	2.5 kg	3.6 kg	3.8 kg	4.5 kg
Battery:	✓	✓	–	–
Page:	102	106	108	109

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

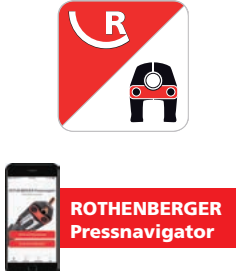







- Cordless Alliance System**
- 100% compatibility of machines, battery packs and chargers – cross-manufacturer
 - World's most powerful battery pack system with 30 years of battery pack competence from Metabo
 - Maximum reliability, clear cost advantages and high investment reliability.
 - Cordless Alliance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



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

Press jaws / press chains

					
Working range metal:	Ø 12 - 35 mm	–	Ø 12 - 54 mm	Ø 42 - 54 mm	Ø 42 - 54 mm
Working range multi-layer:	Ø 12 - 40 mm	Ø 12 - 32 mm	Ø 12 - 40 mm	Ø 50 - 63 mm	Ø 40 - 110 mm
Snap on:	–	–	–	–	✓
DURA LAZR TEC:	✓	–	✓	✓	✓
Long-term corrosion prot.:	✓	✓	✓	✓	✓
3-bolt synch. mechanism:	✓	✓	✓	✓	–
Precision-manufactured contour:	✓	✓	✓	✓	✓
Fits to »B« MaxiPro fitting system:	✓	–	–	–	–
Page:	111	112	112	113	114

No system commitment
Users are free to decide which fitting systems they will press. They are also free to choose the manufacturer of the pressing machines and pressing 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 pressing tools or pressing 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 of 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

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:

Service interval:

Press jaw fixture:

Power supply:

Operating temperature:

Pressings:

336 x 143 x 76 mm (w/ 2.0 Ah battery)

2.5 kg (without press jaw)

19 kN / 30 mm

Ø 12 - 40 mm plastic / multi-layer
Ø 12 - 35 mm metal

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

- 10 °C up to 60 °C

Approx. 130 press cycles with 2.0 Ah battery tested with SV18 stainless steel fittings

Twin Turbo Design

Perfectly balanced weight distribution

270° rotatable jaw fixture

For easy use in confined spaces

Light weight and easy to handle

The press machine is 34 cm short and weighs only 2.5 kg

Automatic controlled press cycles

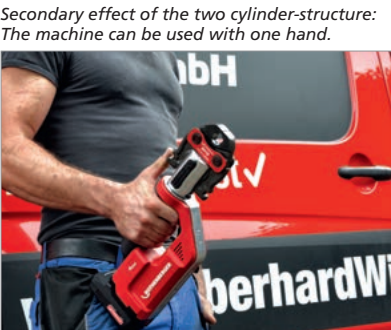
Piston retracts after reaching the necessary pressing force

Turbo Pressure

Pressing of metal fittings up to Ø 35 mm within 3 seconds

Constant Force Technology (CFT)

For constant pressing force



ROMAX Compact TT basic set 1, EU

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



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



Model / Description	Press jaws Ø mm		kg	No.
ROMAX Compact TT basic set 1, 1 x 2.0 Ah, EU	without press jaws	1	4.9	1000002115
ROMAX Compact TT basic set 2, 2 x 2.0 Ah, EU	without press jaws	1	5.3	1000002116
ROMAX Compact TT press jaw set SV, 1 x 2.0 Ah, EU	15 - 22 - 28	1	8.6	1000002117
ROMAX Compact TT press jaw set M, 1 x 2.0 Ah, EU	15 - 22 - 28	1	8.6	1000002118
ROMAX Compact TT press jaw set TH, 1 x 2.0 Ah, EU	16 - 20 - 26	1	8.8	1000002120
ROMAX Compact TT press jaw set U, 1 x 2.0 Ah, EU	16 - 20 - 25	1	8.6	1000002119
ROMAX Compact TT interchangeable press jaw set TH, with 1 x 2.0 Ah, EU	16 - 20 - 26 - 32	1	6.9	1000002113
ROMAX Compact TT interchangeable press jaw set U, with 1 x 2.0 Ah, EU	16 - 20 - 25 - 32	1	6.9	1000002112
ROMAX Compact TT interchangeable press jaw set RFz, with 1 x 2.0 Ah, EU	16 - 20 - 25 - 32	1	6.9	1000002111
ROMAX Compact TT interchangeable press jaw set CO, with 1 x 2.0 Ah, EU	12 - 16 - 20 - 25	1	6.9	1000002114
ROMAX Compact TT basic set 1, 1 x 2.0 Ah, UK	without press jaws	1	4.9	1000002123
ROMAX Compact TT press jaw set M, 1 x 2.0 Ah, UK	15 - 22 - 28	1	8.6	1000002123

ACCESSORIES

Model	No.
RO BP 18V / 2.0 Ah Li-Ion 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, 230 V, EU	1000001654
RO BC14/36, battery charger, 110 V, UK	1000001691
ROCASE case system for press jaws	1000002242
ROCASE case system for interchangeable inserts	1000002307

Press jaws & interchangeable press jaws starting on 111



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

›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
- 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.



TECHNICAL DATA

Application: Air-conditioning and refrigeration

Connections: Copper to copper

Fitting / tube range: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1.1/8"

O-ring: HNBR

Max. operating pressure: 48 bar / 4,800 kPa / 700 psig

Leak tightness: Helium $\leq 7.5 \times 10^{-7}$ Pa.m³/s at +20 °C, 10 bar

Vaccum: 200 microns

Operating temperature: -40 °C up to 140 °C

UL listing continues operating temperature: 121 °C

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

Approved tube: For full information, please visit conexbanninger.com

Approvals, standards and test compliance: For full information, please visit conexbanninger.com



Set (1000002121) includes: ROMAX Compact TT press machine, 1x RO BP 18V/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 / Description	Press jaws Ø mm		kg	No.
ROMAX Compact TT + ›B‹ MaxiPro press jaw 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"	1	21.2	1000002121
ROMAX Compact TT + ›B‹ MaxiPro press jaw 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"	1	21.2	1000002125
›B‹ MaxiPro press jaw set 1/4"–1.1/8" + hand tools	1/4", 3/8", 1/2", 3/4", 5/8", 7/8", 1", 1.1/8"	1	14.0	1000001989
›B‹ MaxiPro press jaw	1/4"	1	1.9	1000001749
›B‹ MaxiPro press jaw	3/8"	1	1.9	1000001750
›B‹ MaxiPro press jaw	1/2"	1	1.9	1000001751
›B‹ MaxiPro press jaw	5/8"	1	1.9	1000001752
›B‹ MaxiPro press jaw	3/4"	1	1.9	1000001753
›B‹ MaxiPro press jaw	7/8"	1	1.9	1000001754
›B‹ MaxiPro press jaw	1"	1	1.9	1000001755
›B‹ MaxiPro press jaw	1.1/8"	1	1.9	1000001756

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

2. Deburr and remove all external sharp edges

3. Use a pencil deburrer on internal edges

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

5. Check for defects

6. Ensure the O-ring is seated

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

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

9. Mark the completed joint

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

ACCESSORIES

Model / Description	No.
RO BP 18V / 2.0 Ah Li-Ion battery	1000001652
RO BP 18V / 4.0 Ah Li-Ion battery	1000001653
RO BP 18V / 4.0 Ah Li-HD battery	1000002548
RO BP 18V / 8.0 Ah Li-HD battery	1000002549
RO BC 14/36, battery charger, 230 V, EU	1000001654
RO BC 14/36, battery charger, 110 V, UK	1000001691
ROCASE 4414 case system for 8x ›B‹ MaxiPro jaws and accessories	1000001786
TUBE CUTTER 35 DURAMAG	70027
Internal and external deburrer 6–35 mm	1500000237
UNIGRAT with HSS deburring blade	21660
ROVLIES cleaning pads (1 x 10 pads)	45268
ROVLIES cleaning pads counter display (36 x 10 pads)	045268D
Depth gauge ›B‹ MaxiPro	1000002400

ROMAX 4000

Electro-hydraulic radial battery-powered press machine for the pressing of fittings up to Ø 110 mm²⁾ 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 mm²⁾ 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

²⁾ system dependent

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:
3.6 kg (without press jaw)

Piston force / hub:
32 - 34 kN / 40 mm

Nominal size:
Ø 12 - 110 mm²⁾

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

Fast and powerful pressings
Pressed in 5 seconds with 32 - 34 kN

Light weight
The machine weighs only 3.6 kg

Automatic controlled press cycles
Piston retracts after reaching the necessary pressing force

270° rotatable press jaw fixture
For easy operation even in confined spaces

Constant Force Technology (CFT)
For constant axial pressing force

Rod-shape
Perfectly balanced weight distribution enables users to work comfortably

Up to 41% more pressing cycles*

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!

Number of pressing cycles

Battery capacity

Up to 41% more pressing cycles*

4.0 Ah ROMAX 4000

3.0 Ah ROMAX 3000

Others

Up to 33% more capacity by highest system efficiency*

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

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

ROMAX 4000 basic set 1, EU

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

66% faster charging
In comparison to the ROMAX 3000

Intelligent battery-management
One battery. Several devices. Full flexibility!

Charge indicator
To control the status of charge

Ergonomic working with the ROMAX 4000

Productive working due to expanded service interval

RO "cordless technology": One battery for the whole application

Model / Description	Press jaws Ø mm		kg	No.
ROMAX 4000 basic set 1, 1 x 4.0 Ah, EU	without press jaws	1	7.0	1000001840
ROMAX 4000 basic set 2, 1 x 4.0 Ah, EU	without press jaws	1	8.0	1000001923
ROMAX 4000 press jaw set SV, 1 x 4.0 Ah, EU	15 - 22 - 28	1	15.0	1000001924
ROMAX 4000 press jaw set M, 1 x 4.0 Ah, EU	15 - 22 - 28	1	15.0	1000001927
ROMAX 4000 press jaw set TH, 1 x 4.0 Ah, EU	16 - 20 - 26	1	15.0	1000001925
ROMAX 4000 press jaw set U, 1 x 4.0 Ah, EU	16 - 20 - 25	1	15.0	1000001926
ROMAX 4000 basic set 1, 1 x 4.0 Ah, UK	without press jaws	1	7.0	1000001856
ROMAX 4000 press jaw set M, 1 x 4.0 Ah, UK	15 - 22 - 28	1	15.0	1000001932

ACCESSORIES

Model	No.
RO BP 18V / 2.0 Ah Li-Ion battery	1000001652
RO BP 18V / 4.0 Ah Li-Ion battery	1000001653
RO BP 18V / 4.0 Ah Li-HD battery	1000002548
RO BP 18V / 8.0 Ah Li-HD battery	1000002549
RO BC 14/36, battery charger, 230 V, EU	1000001654
RO BC 14/36, battery charger, 110 V, UK	1000001691
ROCASE case system 6414	1000001879

Compact & interchangeable press jaws starting on 111

ROMAX 3000 AC

Electro-hydraulic press machine for mains operation for system dependent pressing of fittings up to Ø 110 mm²⁾ 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
- CFT guarantees the necessary pressing force
- Extremely low weight, as well the balanced weight distribution
- Highest quality, service interval of 20,000 pressing cycles
- Expanded operating temperature from -15 °C up to 60 °C
- The compact, wand-like design allows pressings even in confined spaces

²⁾ system dependent

TECHNICAL DATA

Dimensions: 460 x 120 x 90 mm
Weight: approx. 3.8 kg (without press jaw)
Piston force / hub: 32 kN / 40 mm
Nominal size: Ø 12 - 110 mm²⁾
Service interval: 20,000 pressings / 2 years
Press jaw fixture: 270° rotation
Power supply: 230 V / 50-60 Hz, 110 V on request
Operating temperature: -15 °C up to 60 °C

PRESSING TOOLS

Press jaws: ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 112

Press chains: ROTHENBERGER press chains on starting on page 114

Safety lock

No unintentional opening because a 180° rotation is necessary

Balanced weight distribution

Ergonomic use

270° rotatable jaw fixture

For easy use in confined spaces

5 m cable length

Large operations radius

Batch production possible

Slim design

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

Model	No.
ROMAX 3000 AC basic set	1000001001

ACCESSORIES

Model	No.
ROCASE case system 6414, empty	1000001877
Press jaws, press chains starting on	112

ROMAX AC ECO

Electro-hydraulic press machine for mains operation for system dependent pressing of fittings up to Ø 110 mm²⁾ with 32 - 34 kN.



Product Profile

APPLICATION AREA

The ROMAX AC ECO is light, easy to handle and is suitable for the batch production of fitting joints in field operation.

KEY FEATURES

- Ergonomic thanks to the rubberized handle and balanced weight distribution
- Controlled press cycle
- Constant Force Technology (CFT)
- Safety lock
- Emergency stop switch
- 5 m cable

²⁾ system dependent

TECHNICAL DATA

Dimensions: 415 x 180 x 80 mm
Weight: approx. 4.5 kg (without press jaw)
Piston force / hub: 32 kN / 40 mm
Nominal size: Ø 12 - 110 mm²⁾
Service interval: 10,000 pressings / 2 years
Press jaw fixture: 270° rotation
Power supply: 230 V / 50-60 Hz, 110 V on request

PRESSING TOOLS

Press jaws: ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 112

Press chains: ROTHENBERGER 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 270° rotation is necessary

Balanced weight distribution

Ergonomic use

5 m cable length

Large operations radius

Constant Force Technology (CFT)

For constant axial pressing force of 32 kN

Fig. ROMAX AC ECO set with press jaws

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

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

ACCESSORIES

Model	No.
ROCASE case system 6414, empty	1000001959
Press jaws, press chains starting on	112

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

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

DURA LAZR TEC

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

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



- Partial laser-hardening for highly stressed surfaces**

 - Ideal accuracy of contour for highest precision during the complete live time
 - 40% increase in hardness*
- Highest degree of hardness**

 - ROTHENBERGER press jaws are performing with the highest degree of hardness at high stressed areas
 - Even in the case of high burr formation during compression, the wear is reduced to a minimum



100% extended lifetime of the press jaws among other things due to laser hardening*

Parts which have to be flexible stay ductile

Adjustment of the plate

Durability increased by approx. 45%*

**+ 40 %
HARDNESS
AT HIGHLY STRESSED
AREAS***

**+100%
PRESS CYCLES
WITH LASER
HARDENING***

ROTHENBERGER press jaws before surface treatment

* in comparison to previous models



Press jaws compact

For ROMAX Compact TT
ROTHENBERGER press jaws with proven material and manufacturing quality for system dependent pressing of fittings up to Ø 40 mm (plastic / multi-layer) and/or up to Ø 28 mm (metal).

DURA LAZR TEC
100% more press cycles with laser hardening*

- 3-bolt synchronised mechanism**
- Highest precision when pressing
 - Synchronised run of the jaw lever
 - Increased stability and durability
 - Open the jaw with just 1 finger!

Batch numbering and individual testing
Secures the high quality standard of material and press contour

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



Precision-manufactured contours
For optimum and reliable pressings

Made of forged, highly resilient special steel
Suitable for all press machines with a constant axial force of 19 kN and compatible press jaw fixture

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

Long-term corrosion protection
Optimum for heavy-duty field operation

Optimised inlet contour

- Adapted power flow
- Less wear and tear

Press jaws compact Ø 35 mm

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

DURA LAZR TEC
100% more press cycles with laser hardening*

- 3-bolt synchronised mechanism**
- Highest precision when pressing
 - Synchronised run of the jaw lever
 - Increased stability and durability
 - Open the jaw with just 1 finger!

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



Precision-manufactured contours
For optimum and reliable pressings

Made of forged, highly resilient special steel
Suitable for all press machines with a constant axial force of 19 kN and compatible press jaw fixture

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

Long-term corrosion protection
Optimum for heavy-duty field operation

Optimised inlet contour

- Adapted power flow
- Less wear and tear

ACCESSORIES

Model	No.
ROCASE 4212 with inlay compact press jaws	1000002655
Press jaws, press chains starting on	112

* in comparison to previous models

Pressing

Press jaws compact / standard

Interchangeable press jaws compact

For ROMAX Compact TT

ROTHENBERGER press jaws with proven material and manufacturing quality, for the attachment from interchangeable press jaws for system dependent pressing of plastic fittings Ø 12 - 32 mm.

Combine various interchangeable inserts with only one press jaw!



Interchangeable inserts set

3-bolt synchronised mechanism

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

Batch numbering and individual testing

Secures the high quality standard of material and press contour



Guiding ridge

Safe admittance from interchangeable press jaws

Made of casted, highly resilient special steel

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

Long-term corrosion protection

Optimum for heavy-duty field operation

Model	Inserts Ø mm	No.	Model	Inserts Ø mm	No.
Interchangeable inserts set RFz ¹⁾	16 - 20 - 25 - 32 mm	14849	Interchangeable press jaw + set RFz	12 - 16 - 20 mm	15094
Interchangeable inserts set U ¹⁾	16 - 20 - 25 - 32 mm	14869	Interchangeable press jaw + set CO	12 - 16 - 20 mm	15093
Interchangeable inserts set TH ¹⁾	16 - 20 - 26 - 32 mm	14895			

¹⁾ Can only be used with interchangeable pressing jaw No. 014800X

Press jaws standard

For ROMAX 4000, ROMAX 3000 AC and ROMAX AC ECO

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

DURA LAZR TEC

100% more press cycles with laser hardening*

3-bolt synchronised mechanism

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

Batch numbering and individual testing

Secures the high quality standard of material and press contour

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



Precision-manufactured contours

For optimum and reliable pressings

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

Permanent bolt

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

Long-term corrosion protection

Optimum for heavy-duty field operation

Optimised inlet contour

- Adapted power flow
- Less wear and tear

Press jaws overview starting on 115

Pressing

Press jaws standard

3-elemental standard press jaw

For ROMAX 4000, ROMAX 3000 AC and ROMAX AC ECO

ROTHENBERGER 3-elemental press jaws with proven material and manufacturing quality, for system dependent pressing of M42/M54 fittings and TH50/TH63 fittings.

DURA LAZR TEC

100% more press cycles with laser hardening*

3-bolt synchronised mechanism

- Highest precision when pressing
- Synchronised run of the jaw lever
- Increased stability and durability
- Open the jaw with just 1 finger!



3-elemental system

Easy handling / assembling
Optimized power distribution

Precision-manufactured contours

For optimum and reliable pressings

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



Model	kg	No.	Model	kg	No.
3-elemental standard press jaw, M42	4.8	1000001273	3-elemental standard press jaw, TH50	4.8	1000001810
3-elemental standard press jaw, M54	4.8	1000001274	3-elemental standard press jaw, TH63	4.8	1000001811

Press jaws standard sets

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



ROCASE case system

Stack, click, transport

Effective

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

Effective

Enough space for up to 4 press jaws in the ROCASE 4414 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	kg	No.
Press jaw set standard	SV15 - 22 - 28	6.8	1 1000002068
Press jaw set standard	SV15 - 18 - 22 - 28	8.7	1 015060X
Press jaw set standard	SV42 - 54	10.5	1 015080X
Press jaw set standard	M15 - 22 - 28	6.7	1 1000002067
Press jaw set standard	M15 - 18 - 22 - 28	8.6	1 015062X
Press jaw set standard	3-elemental, M42 - 54	12.0	1 1000001502
Press jaw set standard	TH16 - 20 - 26	8.7	1 015063X
Press jaw set standard	U16 - 20 - 25	7.3	1 1000002069
Press jaw set standard	G16 - 20 - 26 - 32	8.8	1 015068X
Press jaw set standard	VP16 - 20 - 25 - 32	9.4	1 015072X
Press jaw set standard	BE16 - 20 - 26	8.7	1 1000002065
ROCASE 4414 with inlay up to 7 press jaws		1.5	1 1000001807
ROCASE 4212 with inlay up to 4 press jaws		1.6	1 1000001808

ROCASE starting on 339

* in comparison to previous models

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).



DURA LAZR TEC

100% more press cycles with laser hardening*

Batch numbering and individual testing

Secures the high quality standard of material and press contour

Long-term corrosion protection

Optimum for heavy-duty field operation

Precision-manufactured contours

For optimum and reliable pressings

Clamping technology

Self-clamping press chain

3 segments

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

Low weight

Comfortable operation even over long periods of work

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

3-bolt synchronised mechanism

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

Fig. press chain SV54

Fig. intermediate jaw ZBS1

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



Closing the press chain



Gripping the press chain with intermediate jaws









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

Model	Press chains Ø mm	No.
Press chains set SV in ROCASE case system	Intermediate jaw ZBS1 / SV42 - 54	1000001501
Press chains set M in ROCASE case system	Intermediate jaw ZBS1 / M42 - 54	1000001500
Press chains set TH in ROCASE case system ¹⁾	Intermediate jaw ZBS1 / TH40 - 50	1000000116

Press chains overview starting on 115

System	Nominal size	Press jaws compact	Interchangeable insert compact Use only in combination with interchangeable jaws No. 014800X	Press jaws standard	Press chains standard Only to be used with intermediate jaw: ZBS1 (No. 1000001126) for SV, M, TH, U Ø 40, 42, 50, 63 mm, ZBS2 (No. 100000123) for U Ø 75, 90, 110 mm
Metal / NE-Metal					
	A				
	A1/2"	—	—	015222X	
	A3/4"	—	—	015223X	
	A1"	—	—	015224X	
	A1 1/4"	—	—	015225X	
	A1 1/2"	—	—	015226X	
	M				
	M12	015151X	—	015101X	
	M15	015152X	—	015102X	
	M18	015153X	—	015103X	
	M22	015154X	—	015104X	
	M28	015155X	—	015105X	
	V / SV				
	M35	1000002267	—	015106X	
	M42	—	—	1000001273	1000001391
	M54	—	—	1000001274	1000001392
	V/SV12	015261X	—	015211X	
	V/SV14	015269X	—	015219X	
	R(H)				
	V/SV15	015262X	—	015212X	
	V/SV16	015260X	—	015220X	
	V/SV18	015263X	—	015213X	
	V/SV22	015264X	—	015214X	
	V/SV28	015265X	—	015215X	
	RFz				
	V/SV35	1000002266	—	015216X	
	V/SV42	—	—	015217X	1000001393
	V/SV54	—	—	015218X	1000001394
	R12	—	14863	015339X	
	R14	015370X	14864	015330X	
	THG				
	R16	015371X	14865	015331X	
	R17	015378X	14866	015333X	
	R18	015379X	14867	015334X	
	R20	015374X	14868	015335X	
	R25	015380X	14707	015338X	
	THT				
	R26	015376X	14708	015336X	
	R32	015377X	14709	015337X	
	RFz12	—	14822	1000000173	
	RFz16	015180X	14823	015161X	
	RFz18	—	1000000124	—	
	TH				
	RFz20	015181X	14824	015162X	
	RFz25	015182X	14825	015163X	
	RFz26	—	1000000125	—	
	RFz32	015183X	14826	015164X	
	TH14	015395X	14842	015321X	
	THG				
	TH16	015385X	14843	015322X	
	TH18	015398X	14844	015323X	
	TH20	015389X	14845	015324X	
	TH25	015399X	14846	015325X	
	TH26	015391X	14847	015326X	
	THG				
	TH32	015393X	14848	015327X	
	TH40	015401X	—	015328X	1000000111*
	TH50	—	—	1000001810	1000000112*
	TH63	—	—	1000001811	1000000113*
	THG32	1000000236	—	1000000235	
	THG				
	THT32	015393H	—	015329X	

For more information visit rothenberger.com

System	Nominal size	Press jaws compact	Interchangeable insert compact Use only in combination with interchangeable jaws No. 014800X	Press jaws standard	Press chains standard Only to be used with intermediate jaw: ZB51 (No. 1000001126) for SV, M, TH, U Ø 40, 42, 50, 63 mm, ZB52 (No. 1000000123) for U Ø 75, 90, 110 mm
U			PEX / Multi-layer		
	U14	015351X	14832	015311X	
	U16	015352X	14833	015312X	
	U18	015353X	14834	015313X	
	U20	015354X	14835	015314X	
	U25	015355X	14836	015315X	
	U32	015357X	14838	015317X	
	U40	015358X	—	015318X	
	U50	—	—	—	
	U63	—	—	—	
	U75	—	—	—	
	U90	—	—	—	
	U110	—	—	—	
RC	RC26	015277X	14837	015271X	
	VP14	015530X	14882	015230X	
	VP16	015531X	14883	015231X	
	VP20	015532X	14884	015232X	
	VP25	015533X	14885	015233X	
	VP32	015534X	14886	015234X	
BE	BE16	015291X	—	015392X	
	BE20	015292X	—	015394X	
	BE26	015293X	—	015396X	
	BE32	015294X	—	015397X	
CO	CO12	—	14852	—	
	CO16	—	14853	—	
	CO20	—	14854	—	
	CO25	—	14855	—	
G	G16	015362X	—	015302X	
	G20	015364X	—	015304X	
	G26	015366X	—	015306X	
	G32	015367X	—	015307X	
	G40	015368X	—	015308X	
HA	HA16	015580X	—	015280X	
	HA20	015581X	—	015281X	
	HA26	015582X	—	015282X	
	HA32	015583X	—	015283X	
	HA40	—	—	015284X	

For more information visit rothenberger.com

Pressnavigator app

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

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













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

iTunes



Google Play



	Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Use only in combination with interchangeable jaws No. 014800X	Anpro EN series stainless steel, carbon steel	APE Raccordi a pressare	Bampi BALPEX (Serie MP)	Bampi BALPEX Gas	Blansol Sistema EasyPress	Blansol Sistema Multiplex	Bonomi Group Turbo Press, Turbo Press Gas	Broen Ballofix Press	Chibro Adduzione / Gas, Conno da Vinizim	Chibro Cunipress, Riscaldamento	CIMBERIO SpA Cimpress	CO.E.S. Coesklima	COMAP, Skin Press	Comisa Multi layer pipe	Conex B-Press Gas, Solar	Conex B-Press, INOX	DALPEX LaserMulti Dalpex	Emmeti Gerpex	EMPUR PEXPRESS	Eurotherm, MULTIST-RATO, Euro 2000
M	M12	015151X	015101X																					
	M15	015152X	015102X																					
	M18	015153X	015103X																					
	M22	015154X	015104X																					
	M28	015155X	015105X																					
	M35		015106X																					
	M42		1000001273																					
	M54		1000001274																					
V / SV	V12	015261X	015211X																					
	SV14	015269X	015219X																					
	SV15	015262X	015212X																					
	SV16	015260X	015220X																					
	SV18	015263X	015213X																					
	SV22	015264X	015214X																					
	SV28	015265X	015215X																					
	SV35		015216X																					
	SV42		015217X																					
	SV54		015218X																					
	G16	015362X	015302X																					
	G20	015364X	015304X																					
	G26	015366X	015306X																					
	G32	015367X	015307X																					
	G40	015368X	015308X																					
	HA16	015580X	015280X																					
	HA20	015581X	015281X																					
	HA26	015582X	015282X																					
	HA32	015583X	015283X																					
	HA40		015284X																					
	R12		015339X	14863																				
	R14	015370X	015330X	14864																				
	R16	015371X	015331X	14865																				
	R17	015378X	015333X	14866																				
	R18	015379X	015334X	14867																				
	R20	015374X	015335X	14868																				
	R25	015380X	015338X	14707																				
	R26	015376X	015336X	14708																				
	R32	015377X	015337X	14709																				
	RFz12		1000000173	14822																				
	RFz16	015180X	015161X	14823																				
	RFz20	015181X	015162X	14824																				
	RFz25	015182X	015163X	14825																				
	RFz32	015183X	015164X	14826																				
	TH14	015395X	015321X	14842																				
	TH16	015385X	015322X	14843																				
	TH18	015398X	015323X	14844																				
	TH20	015389X	015324X	14845																				
	TH25	015399X	015325X	14846																				
	TH26	015391X	015326X	14847																				
	TH32	015393X	015327X	14848																				
	TH40	015401X	015328X																					
THG	THG32	1000000236	1000000235																					
THT	THT32	015393H	015329X																					
	U14	015351X	015311X	14832																				
	U16	015352X	015312X	14833																				
	U18	015353X	015313X	14834																				
	U20	015354X	015314X	14835																				
	U25	015355X	015315X	14836																				
	U32	015357X	015317X	14838																				
	U40	015358X	015318X																					
	RC26	015277X	015271X	14837																				
	VP14	015530X	015230X	14882																				
	VP16	015531X	015231X	14883																				
	VP20	015532X	015232X	14884																				
	VP25	015533X	015233X	14885																				
	VP32	015534X	015234X	14886																				

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.













5

5

5












5

Overview system approvals

		Nominal size	Press jaws compact	Press jaws standard	Interchangeable insert compact Use only in combination with interchangeable jaws No. 014800X	PIPELIFE RADOPRESS	POLYSAN Press-System	Prandelli, MULTYRAMA	Raccorderie Metallique Inoxpress, Steelpress	Raccorderie Metallique, Aespres	Raccorderie Metallique Inoxpress Gas	RIQUIERA A SERTIR	ROTH SISTEMA ROTHAPRESS	Roth-Roth Rohr-Installationssysteme	Sanha 3Fit-PRESS SYSTEM 14 mm - 63 mm	SANHA NiroSan Serie 9000, 17000 Gas, 18000, 19000	SANHA Press Serie 10000, 11000 Gas, 12000, 13000	SANHA PURAPRESS Serie 8000	SANHA-NiroSan-Press-system Chronimo	Simplex SiRoCo Cu / E	Simplex SiRoCo PPSU H	Simplex SiRoCo TH	SST-Rolltec Delphi-Press, STS Systemtechnik	THERMOVAL	THERMOSMART	Tiemme, Cobrapress
	M	M12	015151X	015101X																						
		M15	015152X	015102X																						
		M18	015153X	015103X																						
		M22	015154X	015104X																						
		M28	015155X	015105X																						
		M35		015106X																						
	V / SV	M42		1000001273																						
		M54		1000001274																						
		V12	015261X	015211X																						
		SV14	015269X	015219X																						
		SV15	015262X	015212X																						
		SV16	015260X	015220X																						
	V / SV	SV18	015263X	015213X																						
		SV22	015264X	015214X																						
		SV28	015265X	015215X																						
		SV35		015216X																						
		SV42		015217X																						
		SV54		015218X																						
	G	G16	015362X	015302X																						
		G20	015364X	015304X																						
		G26	015366X	015306X																						
		G32	015367X	015307X																						
		G40	015368X	015308X																						
		HA16	015580X	015280X																						
	HA	HA20	015581X	015281X																						
		HA26	015582X	015282X																						
		HA32	015583X	015283X																						
		HA40		015284X																						
		R12		015339X	14863																					
		R14	015370X	015330X	14864																					
	R (H)	R16	015371X	015331X	14865																					
		R17	015378X	015333X	14866																					
		R18	015379X	015334X	14867																					
		R20	015374X	015335X	14868																					
		R25	015380X	015338X	14707																					
		R26	015376X	015336X	14708																					
	RFz	R32	015377X	015337X	14709																					
		RFz12		1000000173	14822																					
		RFz16	015180X	015161X	14823																					
		RFz20	015181X	015162X	14824																					
		RFz25	015182X	015163X	14825																					
		RFz32	015183X	015164X	14826																					
	TH	TH14	015395X	015321X	14842																					
		TH16	015385X	015322X	14843																					
		TH18	015398X	015323X	14844																					
		TH20	015389X	015324X	14845																					
		TH25	015399X	015325X	14846																					
		TH26	015391X	015326X	14847																					
	THG	TH32	015393X	015327X	14848																					
		TH40	015401X	015328X																						
		THG32	1000000236	1000000235																						
		THT32	015393H	015329X																						
		U	U14	015351X	015311X	14832																				
		U16	015352X	015312X	14833																					
	U	U18	015353X	015313X	14834																					
		U20	015354X	015314X	14835																					
		U25	015355X	015315X	14836																					
		U32	015357X	015317X	14838																					
		U40	015358X	015318X																						
		RC26	015277X	015271X	14837																					
	VP	VP14	015530X	015230X	14882																					
		VP16	015531X	015231X	14883																					
		VP20	015532X	015232X	14884																					
		VP25	015533X	015233X	14885																					
		VP32	015534X	015234X	14886																					

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 <small>Use only in combination with interchangeable jaws No. 014800X</small>	TIEMME, SERIE PA / PG	Tradesa Serie 700	Ulrich VARIOFLEX HAKA-PRESS, UPONOR UNIPipe, UNICORE, Airpipe	Valsir PEXAL	Vescal, Metalplast	VIEGA PROFIPRESS G	Viega Profipress Sanpress, Sanpress INOX PLUS	Viega sanfix FOSTA, P, PLUS	Viesmann	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 Alupec / Blue	WEFA PLASTIC, WEFA PRESS	Winkler	WKS-Press
	M	M12	015151X	015101X																				
		M15	015152X	015102X																				
		M18	015153X	015103X																				
		M22	015154X	015104X																				
		M28	015155X	015105X																				
		M35		015106X																				
		M42		1000001273																				
	V / SV	M54		1000001274																				
		V12	015261X	015211X																				
		SV14	015269X	015219X																				
		SV15	015262X	015212X																				
		SV16	015260X	015220X																				
		SV18	015263X	015213X																				
		SV22	015264X	015214X																				
		SV28	015265X	015215X																				
		SV35		015216X																				
		SV42		015217X																				
	G	SV54		015218X																				
		G16	015362X	015302X																				
		G20	015364X	015304X																				
		G26	015366X	015306X																				
		G32	015367X	015307X																				
	HA	G40	015368X	015308X																				
		HA16	015580X	015280X																				
		HA20	015581X	015281X																				
		HA26	015582X	015282X																				
		HA32	015583X	015283X																				
	R (H)	HA40		015284X																				
		R12		015339X	14863																			
		R14	015370X	015330X	14864																			
		R16	015371X	015331X	14865																			
		R17	015378X	015333X	14866																			
		R18	015379X	015334X	14867																			
		R20	015374X	015335X	14868																			
		R25	015380X	015338X	14707																			
		R26	015376X	015336X	14708																			
	RFz	R32	015377X	015337X	14709																			
		RFz12		1000000173	14822																			
		RFz16	015180X	015161X	14823																			
		RFz20	015181X	015162X	14824																			
		RFz25	015182X	015163X	14825																			
		RFz32	015183X	015164X	14826																			
	TH	TH14	015395X	015321X	14842																			
		TH16	015385X	015322X	14843																			
		TH18	015398X	015323X	14844																			
		TH20	015389X	015324X	14845																			
		TH25	015399X	015325X	14846																			
		TH26	015391X	015326X	14847																			
		TH32	015393X	015327X	14848																			
		TH40	015401X	015328X																				
		THG	THG32	1000000236	1000000235																			
THT		THT32	015393H	015329X																				
	U	U14	015351X	015311X	14832																			
		U16	015352X	015312X	14833																			
		U18	015353X	015313X	14834																			
		U20	015354X	015314X	14835																			
		U25	015355X	015315X	14836																			
		U32	015357X	015317X	14838																			
		U40	015358X	015318X																				
		RC VP	RC26	015277X	015271X	14837																		
		VP14	015530X	015230X	14882																			
		VP16	015531X	015231X	14883																			
		VP20	015532X	015232X	14884																			
		VP25	015533X	015233X	14885																			
		VP32	015534X	015234X	14886																			









Threading & grooving

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

Threading & grooving





System overview

Threader manual				
	<div>SUPER CUT sets 1/2 - 1.1/4"</div> 	<div>SUPER CUT sets 3/8 - 1.1/4"</div> 	<div>SUPER CUT sets 3/8 - 2"</div> 	<div>SANI KIT 1/2 - 1"</div> 
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		
	<div>SUPERTRONIC 1250</div> 	<div>SUPERTRONIC 2000</div> 
Operation mode:	Handed / electric	Handed / electric
Working range:	1/2 - 1.1/4"	1/2 - 2"
Thread type:	BSPT - NPT	BSPT - NPT
Number of die heads:	4 pcs.	6 pcs.
Number of threading dies:	–	–
Power:	800 W	1,010 W
Weight:	12.8 kg	14.5 kg
Page	130, 131	132, 133

Threading & grooving

System overview

Threader stationary				
	<div>ROPOWER 50 R</div> 	<div>SUPERTRONIC 2 SE</div> 	<div>SUPERTRONIC 3 SE</div> 	<div>SUPERTRONIC 4 SE</div> 
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, 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			
	<div>Hand roll groover 1-12"</div> 	<div>ROGROOVER 1-6"</div> 	<div>ROGROOVER 1-12"</div> 
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

SUPER CUT

Ratchet threader Ø 1/4 - 2"

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

Product profile

APPLICATION AREA

For threading of BSPT right: Ø 1/4 - 2"

KEY FEATURES

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

Power optimisation with the offset hand lever!

Quick change die heads

Secure hold

Positive octagonal universal drive with retainer locking

Fits all ROTHENBERGER manual and power threaders

Simple insertion and removal of the die heads

Long lever
Optimum force transfer

Offset lever
Easy operation in hard-to-reach places

Quick adjustment

Convenient, lockable reversal of the ratchet direction

Precision dies

Made of high quality tempered steel
Extremely long service life

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

SUPER CUT when working at the building site

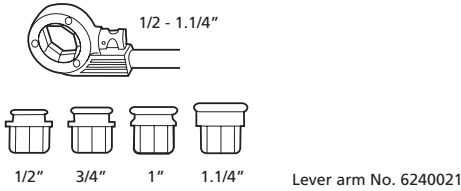


Monoblock - adaptor (No. 600011500)



SUPER CUT sets Ø 1/2 - 1.1/4"

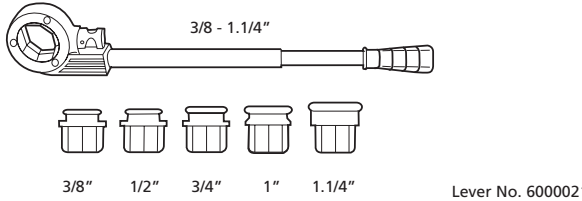
With ratchet handle (small octagonal drive, No. 070840X), die heads in plastic carrying case (No. 70780)



Model	Description	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

SUPER CUT sets Ø 3/8 - 1.1/4"

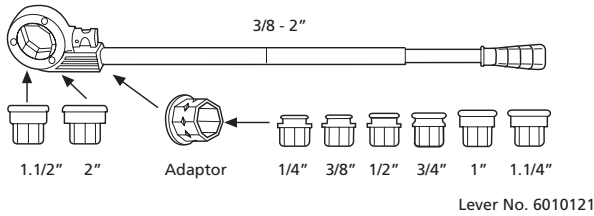
With ratchet handle (small octagonal drive, No. 070840X), and die heads in plastic carrying case



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

SUPER CUT sets Ø 3/8 - 2"

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



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

ACCESSORIES

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



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"

Professional!

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



Steel pipe cutter Super 1.1/4"

Wide rollers
Secure guiding of the cutter wheel on the pipe

Corner pipe wrench Super S

Slim, s-shaped jaw
Firm grip



SUPER CUT ratchet threader

With SUPER CUT ratchet handle 1.1/4"

Perfect alignment
Small outer octagon, BSPT R 1/2 - 3/4 - 1"
Precise thread cutting to approved standards

Water pump pliers type SP

With heavy duty box joint, chrome vanadium steel, drop-forged, tempered
Long service life
Polished head and joint
Firm grip even with heavy-duty use

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" - 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	kg	No.
SANI KIT tool set	8.2	70600

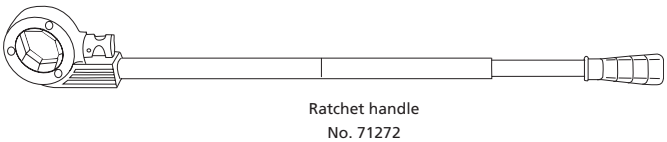


SUPER CUT ratchet arm

With offset adaptor



Direct seating for die heads	via adaptor for die heads	Handle	kg	No.
1/4" - 1.1/4"	-	2 pieces	1.7	070840X
1.1/2" - 2"	1/4" - 1.1/4"	3 pieces	2.5	71272



ACCESSORIES

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



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

KEY FEATURES	
● Die head can be used in both directions (left, right)	
● Stable speed by forward and reverse motion	
TECHNICAL DATA	
Threading speed:	15 - 20 rpm
Rapid reverse speed:	27 rpm
Performance:	800 W
Current:	230 V / 110 V
Weight:	4.9 kg
Dimensions:	456 x 168 x 76 mm



Threading & grooving
Threading electric

SUPERTRONIC 1250 set

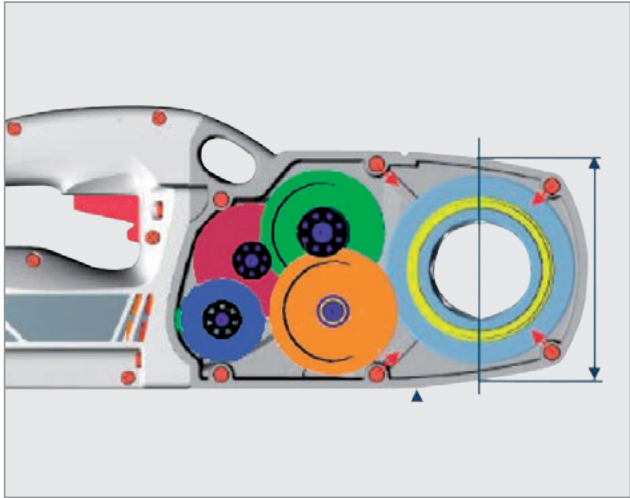
Set includes: SUPERTRONIC 1250 up to Ø 1.1/4" with forged pipe clamp (No. 865008700), precision die heads complete in plastic carrying case (No. 995858100)



Fig. SUPERTRONIC 1250 set (No. 71450)

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

Helical gears for maximum power (800 W)



Steel pipe processing portable, fast and easy



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

Threading & grooving
Threading electric

SUPERTRONIC 2000

Power threader Ø 1/4 – 2"

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



Product profile

APPLICATION AREA

For threading of
BSPT right: Ø 1/4 - 2"
NPT: Ø 1/4 - 2"
High reduction gears with spur wheel teeth, induction tempered, 7 parallel gear shafts, each ball bearing mounted
High, consistent power transmission when fully loaded
Performance:
Strong 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, shafts)
- User friendly work with the large mechanism for switching directions
- Reliable motor for long-term use

Hardened, interlocking prism pipe clamp
Secure grip in both turning directions

Large mechanism for switching directions
User friendly work

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

1,010 W universal motor
Low energy consumption

Compact gear housing
Ideal for confined spaces

Direct seating with tension ring locking
Die heads are held firmly in place

Off-set die head mounting
Threading possible even close to walls

Performance: 1,010 W!

Easy insertion of the die heads



Use with roll grooving tool ROGROOVER



ROFIX adaptor (No. 71271)



High reduction gears



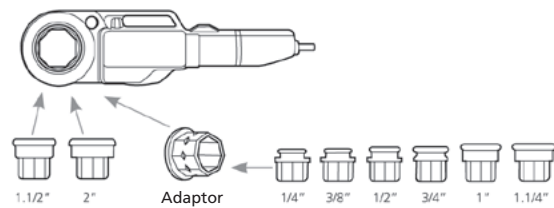
Threading & grooving
Threading electric

SUPERTRONIC 2000 set

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



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



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

Threading & grooving

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

Faster and easier removal of metal chips



Fully automatic production process

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

Extra wide and exchangeable threading dies

Highest demands and long service life

Forcelocked octagonal universal drive with snap ring locking

Easy and tool-free assembly with secure hold



Product profile

KEY FEATURES

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

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

Threading dies

Precision threading dies

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



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

ROFIX adaptor

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

- Easy insertion of the die head with tension ring locking



Tension ring locking

Model	kg	No.
ROFIX adaptor with locking ring	0.8	71271

Threading & grooving

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 oil basis

For threading of all materials including stainless steel

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

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

Model	Contents	kg	l	No.
RONOL spray can	600 ml	0.58	12	65008
RONOL canister	5 l	4.60	4	65010



RONOL SYN

High-performance cutting fluid

Product profile

KEY FEATURES

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

TECHNICAL DATA

No mineral oils, purely synthetic:

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

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

Emulsifying agent enables easy rinsing of the pipeline

No build-up of shavings: perfect cooling quality

Good corrosion protection: no rusting

Undiluted application

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

Model	Contents	kg	l	No.
RONOL SYN spray can	600 ml	0.75	12	65013
RONOL SYN canister	5 l	5.20	4	65015



Threading & grooving
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

Table with 2 columns: Application Area, and specifications for threading (BSPT right, NPT, BSPP, BSW, Metric).

Table with 2 columns: Key Features (Quick and reliable threading, Effortless transport, etc.) and Technical Data (Performance, Speed, Weight, Dimensions).

Pre- and post-processing of pipe

- Self-centering pipe cutter
Internal deburrer, snap in, 3-blade
Impact hammer chuck with maximal clamping-force
Self-centering rear chuck

Easy to maintain machine design

- Motor double insulated in accordance with VDE
Stable high torque motor
Off-set spindle lubrication

Machine slightly angled

Reduced oil consumption, oil coating in pipe interior is avoided



Original RIDGID® threading dies can optionally be used!

Geared oil pump with filter system and adjustable fluid qualities

Constant oil flow quantities

Amplly dimensioned large plastic shavings collection trough

Easy to clean



Threading & grooving
Threading electric

ROPOWER 50 R

Set includes: ROPower 50 R, automatic die head 1/2" - 2" (No. 56052), SS dies BSPT 1/2" - 3/4" (No. 056370X), 1" - 2" (No. 056371X), safety foot switch (No. 56335), collapsible stand (No. 56051), tool

Transportation frame

(Included in delivery)

Carriage with storage space and a mount for the foot switch

Clearly arranged work

Collapsible undercarriage

Comfortable transport

With 2 plastic wheels

High mobility

Safety foot switch (No. 56335)

Increased safety

Automatic die head with integrated oil supply



High mobility



Thread roughing



Cost-effective production of grooves



Die head type R

Automatic die head with integrated oil feed

Long life of the die heads

Optimal lubrication and cooling of the die heads

Long life

Fig. collapsible stand (No. 56051) included in delivery!

Table with 5 columns: Model, Volt, Quantity, Weight (kg), and No. It lists various components like the automatic die head, collapsible stand, and spare cutting wheels.

ACCESSORIES

Table with 3 columns: Description, Quantity, and No. It lists accessories like cutting fluid, automatic die heads, dies, and pipe roughing wrench.



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

Threading & grooving
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 with impact hammer chuck
Burr-free work
Can also be used in combination with a roll grooving tool!

Internal deburrer, snap in, 3-blade
Burr-free work
Smooth action impact hammer chuck with maximal clamping force
No pipe slippage
Self-centering rear chuck
Axial alignment of the pipe
Working spindle with closed bearings on both sides
Low-wear and precise guiding
Dual-sided tool guide sled
Precise guiding of the die head
Tool / guide sled propulsion via turnstile
Finely controlled propulsion
Sturdy oil pump with high flow power and adjustable fluid quantities, filter system, integrated oil feed
Optimal lubrication and cooling
Large shavings collection trough made of plastic
Easy to clean
Modular system concept
Universal die head adaptor, optional in standard or automatic models
Impact hammer chuck with inter-changeable clamping jaw, optimal clamping properties through flexible adjustment and broad support
Automatic die heads with quick adjustment of thread size automatic thread length, finely adjustable thread depth without recentering
Transport frame for 3 and 4 SE (No. 57050)
Fig. SUPERTRONIC 2 SE

Threading & grooving
Threading electric

SUPERTRONIC 2 SE

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

TECHNICAL DATA
Power: 1,150 W
Speed: 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

Table with 4 columns: Model, Weight (kg), 230 V, 110 V. Rows include standard die head, BSPT R 1/2 - 3/4", 1 - 2", and automatic die head, BSPT R 1/2 - 3/4", 1 - 2".



Table with 2 columns: Model, No. Rows include SUPERTRONIC 2 SE and Deburrer without holder 2 SE.

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: 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

Table with 4 columns: Model, Weight (kg), 230 V, 110 V. Rows include standard die head, BSPT R 1/2 - 3/4", 1 - 2", 2 - 3", and automatic die head, BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 3".



Table with 2 columns: Model, No. Rows include SUPERTRONIC 3 SE and Deburrer without holder 3 SE.

SUPERTRONIC 4 SE

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

Table with 4 columns: Model, Weight (kg), 230 V, 110 V. Rows include automatic die head, BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4", NPT 1/2 - 3/4", 1 - 2", 2.1/2" - 4", Deburrer without holder 4 SE, and Transport frame for 3 and 4 SE.



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

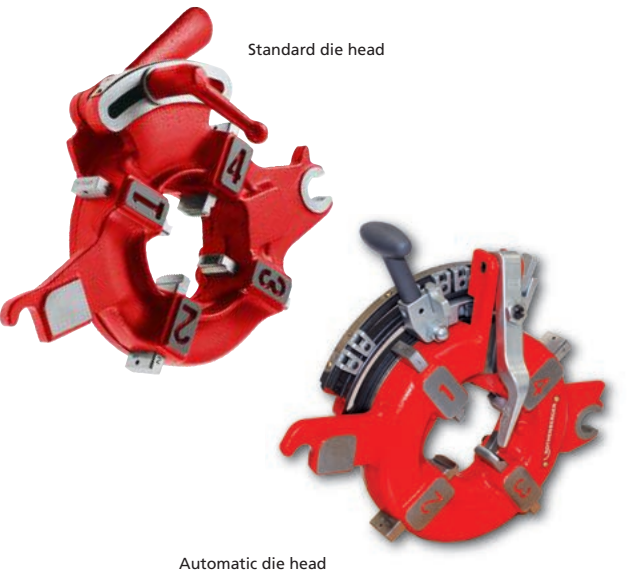
1) Complete terms and conditions at rothenberger.com/roservice
RO SERVICE+ only valid in participating countries

Threading & grooving
Threading electric

Precision die heads

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

Product profile
KEY FEATURES
Standard die heads
• Time saving with a simple and quick change of the threading dies
• User friendly with the locking positioning which eliminates complicated calibration
• Longer life of the dies with the integrated lubrication
• Guaranteed consistent cutting oil film on the pipe surface



Product profile
KEY FEATURES
Automatic die heads
• Simple and clear operation with the quick-adjustment thread sizes
• Automatic adjustable thread length for serial production
• Flexible work: Each thread size offers individual fine adjustment of the thread depth without recentering dimension change

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

Precision threading dies

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

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

Overview die heads / threading dies

Table with columns for Die heads (Thread type, Size, No.) and Threading dies (Size, No., SS-steel, HSS-steel, stainl. steel/INOX pipe). Rows include BSPT R, NPT, BSPP, BSPT R, NPT, BSPP, BSW, and Metric.

- Suitable for:
• Conical pipe threads - BSPT
• Conical pipe threads - NPT
• Cylindrical pipe threads - BSPP
• English bolt threads - BSW
• Metric bolt threads - M

Pipe supporting column

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

Table with columns: Model, Height / mm, kg, No. Row: For pipes up to 6", 780 - 1,200, 5.8, 56047

Pipe roughing wrench 3/8 - 2"

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

- NIPPEL MAX
NIPPEL MAX Ø 1/2 - 2"
For the production of nipples and double nipples, grips short pipe lengths from within; hardened, sharpened gripping jaws. For all stationary threading machines, 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

Images of NIPPEL MAX components and a table listing models, weights, and part numbers.

Threading & grooving
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)

Table listing models, weights, and part numbers for replacement safety foot switches.

Threading & grooving

Roll grooving

Hand roll groover 1 - 12"

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

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

APPLICATION AREA

For standard grooves on installed pipes from 1 - 12"

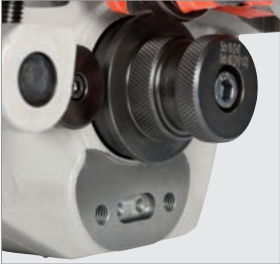
KEY FEATURES

- 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
- ½" ratchet for both adjustment

Application on tripod workbench



Fixture for stabiliser



TECHNICAL DATA

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



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

ROGROOVER 1 - 6"

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

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

APPLICATION AREA

Standard and thin-walled steel pipes up to 6" (168 mm)
Light weight and compact design allows for use with the threaders:

SUPERTRONIC 2000	ROPOWER 50 R
SUPERTRONIC 2 SE	SUPERTRONIC 3 SE
SUPERTRONIC 4 SE	

KEY FEATURES

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

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



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

Threading & grooving

Roll grooving

ROGROOVER 1 - 12"

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

Product profile
APPLICATION AREA Suitable for installations, sprinkler systems, larger heading units, industrial use and mining
KEY FEATURES <ul style="list-style-type: none">• Pressure rollers toolless adjustable due to revolver-button• Safe working with foot switch and emergency stop switch, as well as lighting in workplace• Reliable, powerful 1,500 W motor• Quick and fine adjustment for groovers and regulation

TECHNICAL DATA

Working range: 1 - 12" (33 - 324 mm)
Pipe wall-thickness: 3 - 10 mm
Weight: 175 kg
Dimensions: 685 x 474 x 960 mm
Voltage: 110 V-50 Hz, 230 V-50 Hz / 60 Hz
Power: 1,500 W
Torque: 36 rpm
Max. working pressure: 27,750 N

Control panel

Power supply, light and emergency stop switch

Surrounding steel pipe frame

Protection & carrying frame

Function only via foot switch

Safety for the user

3-way adjustment of the pressure rollers size



Model	kg		No.
ROGROOVER 1 - 12", 230 V 50 Hz	175.0	1	1500001351
ROGROOVER 1 - 12", 230 V 60 Hz	175.0	1	1500001352
ROGROOVER 1 - 12", 110 V 50 Hz	175.0	1	1500001353

Drive shaft and measuring tape in the delivery



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

Model	kg		No.
Pipe support stand	33.00	1	1500001990
Diameter measuring tape	0.05	1	1500000134
Transport stand	25.00	1	57050
Spare spindle for INOX tube, 1 - 1.1/2"	1.3	1	1000002262
Spare spindle for INOX tube, 2 - 6"	1.7	1	1000002263
Spare spindle for INOX tube, 8 - 12"	2.6	1	1000002264
Spare spindle for steel tube, 1 - 1.1/2"	1.3	1	1500001711
Spare spindle for steel tube, 2 - 6"	1.4	1	1500001710
Spare spindle for steel tube, 8 - 12"	1.7	1	1500001709


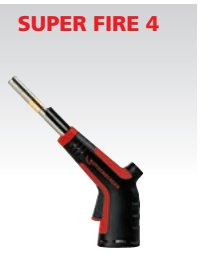
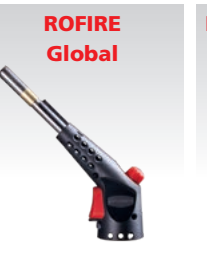


¹⁾ RIDGID is a registered trade mark of the Emerson Electric Co., St. Louis, USA

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









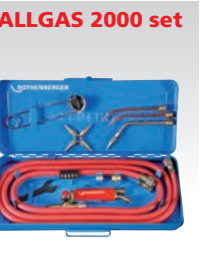
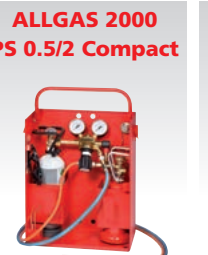
Soldering & welding


System overview	146 - 147
Cartridge brazing	148 - 152, 154 - 155
Cartridge soft soldering	152 - 153, 155, 158
Cylinder brazing	156 - 157
Cylinder soft soldering	159 - 160
Accessories cylinder brazing/soft soldering	161
Electric soft soldering	162 - 163
Gas welding	164 - 167
Three-gas welding	168 - 169
Accessories soldering & welding	170 - 179

Cartridge brazing					
					
Soft soldering:	up to Ø 35 mm	up to Ø 35 mm	up to Ø 28 mm	up to Ø 42 mm	up to Ø 64 mm
Brazing:	up to Ø 28 mm	up to Ø 28 mm	up to Ø 22 mm	up to Ø 18 mm	up to Ø 28 mm
Special application:	Shrinking, removal of paint	Shrinking, removal of paint	–	–	–
For use with:	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas, Maxigas 400, Multigas 300	MAPP ¹⁾ gas ²⁾ , Maxigas 400 ²⁾ , Multigas 300 ²⁾	MAPP ¹⁾ gas ²⁾ , Maxigas 400 ²⁾ , Multigas 300 ²⁾
Page	148, 149	150, 151	152	152	152



Cartridge soft soldering		Roofing & sheet metal works			
					
Soft soldering:	up to Ø 22 mm	up to Ø 22 mm	yes	yes	yes
Brazing:	–	up to Ø 15 mm	–	–	–
Special application:	–	–	Sheet metal working	Sheet metal working	Bonding of bituminous sheeting
For use with:	Supergas C 200	Multigas 300	Multigas 110	Propane, butane	Propane, butane
Page	152	153	158	159	160

Cartridges					
					
Flame temperature:	up to 2,700 °C	up to 2,200 °C	up to 1,900 °C	up to 1,800 °C	up to 1,900 °C
Application:	Soft soldering & brazing	Soft soldering & brazing	Soft soldering	Soft soldering	Soft soldering
Valve:	EU 7/16"	EU 7/16"	EU 7/16"	Pierceable cartridge	EU 7/16"
Content:	788 ml / 380 g	600 ml / 352 g	600 ml / 338 g	314 ml / 190 g	110 ml / 60 g
Page	154	155	155	155	155


Brazing & soft soldering devices					
					
Soft soldering:	yes	yes	yes	yes	yes
Brazing:	yes	yes	yes	yes	yes
Welding:	0.5 - 14 mm	0.2 - 5 mm	–	–	–
Cutting:	12 - 100 mm	–	–	–	–
For use with:	Acetylene, oxygen, Maxigas 400	Acetylene, oxygen	Propane, oxygen	MAPP ¹⁾ gas, oxygen	Maxigas 400, oxygen
Page	168	164	165	166	167

Cylinder brazing & soft soldering		E-soft soldering
		
Soft soldering:	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	230 V
Page	156	157


162, 163	
----------	--

Cartridges & cylinders	
	
Application:	Brazing, welding, cutting
Valve:	DIN 477-1
Pressure:	19 bar
Content:	5 l, 10 l
Page	170


170	
-----	--



Soft soldering
up to 450 °C



Brazing
450 °C - 1100 °C



Gas welding
> 1100 °C

Bonding

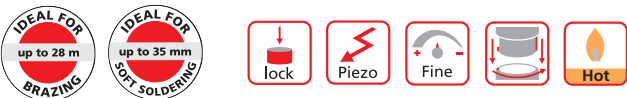
Cartridge brazing

SUPER FIRE 3

Ergonomic HEAVY DUTY brazing unit up to Ø 28 mm

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

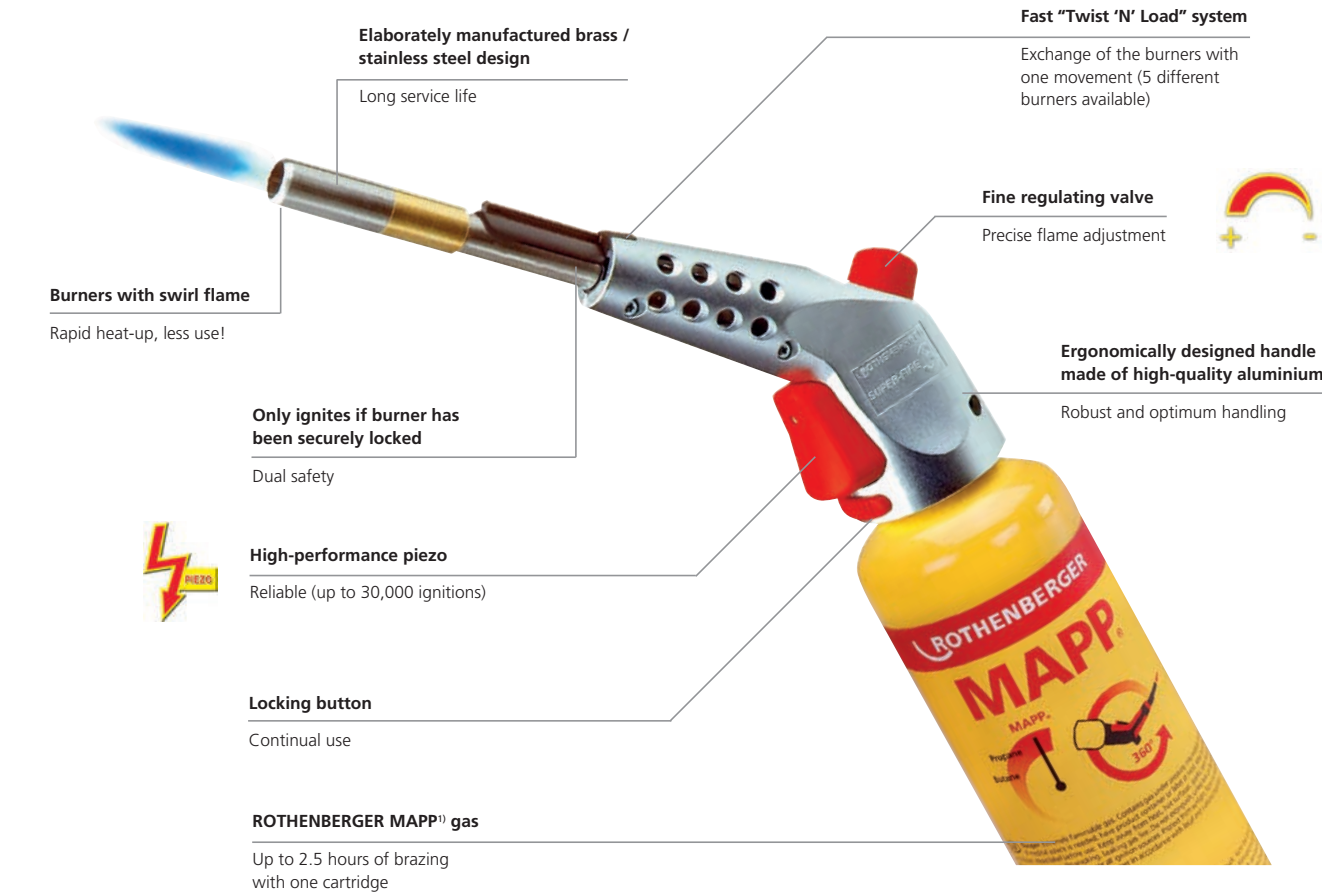
Product profile	
APPLICATION AREA	
Brazing:	up to Ø 28 mm (with flame reflector in a wind protected environment)
Soft Soldering:	up to Ø 35 mm
KEY FEATURES	
● Rapid heat-up, less consumption!	
● Long service life	
● "Twist 'N' Load" system (5 different burners available)	
● Precise flame adjustment	
● Up to 2.5 hours of brazing with one cartridge	



KEY FEATURES	
● Even more comfortable for longer jobs	
● Reliable piezo ignition (up to 30,000 ignitions)	
● Double the safety because there is no gas leakage without locked burners (piezo ignition)	
TECHNICAL DATA	
Coupling:	7/16" EU
Handle:	Aluminium, bolted
Burner:	Brass / stainless steel

SUPER FIRE 3 burners

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



Brazing in gas installation



High flame temperature based on cyclone swirl



Brazing in aircon and refrigeration



Bonding

Cartridge brazing

SUPER FIRE 3 HOT BOX

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



5-part set (No. 1000002369) includes: Handle (No. 35445), cyclone burner (No. 35457), pin-point burner (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2x MAPP[®] gas A cartridges (No. 035521-A), ROCASE 4414 (No. 1000001945)

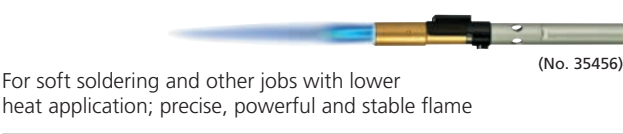
Model		No.
SUPER FIRE 3 HOT BOX EU (incl. MAPP [®] gas A)	1 4	1000002369
SUPER FIRE 3 HOT BOX EU (incl. MAPP [®] gas B)	1 4	1000002370
SUPER FIRE 3 HOT BOX EU (incl. MAPP [®] gas C)	1 4	1000002371

Pin-point burner (460 °C):



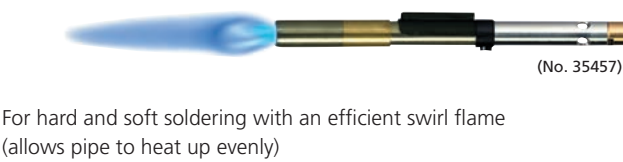
For fine soldering; precise and stable flame

Standard burner (700 °C):



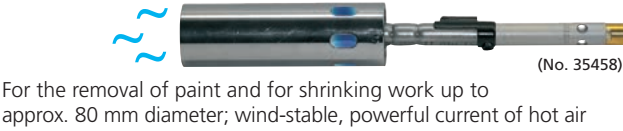
For soft soldering and other jobs with lower heat application; precise, powerful and stable flame

Cyclone burner (950 °C):



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

Hot air burner (400 °C):



For the removal of paint and for shrinking work up to approx. 80 mm diameter; wind-stable, powerful current of hot air

Shrinking burner (720 °C):



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

SUPER FIRE 3 basic set

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

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

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



No. 035648X



No. 35436

ACCESSORIES

Model			Model		
Welding blanket	173		Fitting solder		175
Internal brush for copper pipe	173		ROVLIES		173
Solder	177 - 179		Soft soldering paste ROSOL		175

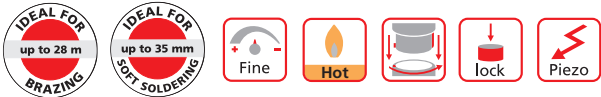
Bonding

Cartridge brazing

SUPER FIRE 4

Ergonomic brazing unit

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



Product profile	
APPLICATION AREA	
Brazing:	up to Ø 28 mm (with flame reflector in a wind protected environment)
Soft soldering:	up to Ø 35 mm
KEY FEATURES	
<ul style="list-style-type: none">● Rapid heat-up, less consumption!● "Twist 'N' Load" system (5 different burner available) – exchange of the burner with only one movement● Precise flame adjustment● Improved trigger locking mechanism for one-handed-operation	

KEY FEATURES	
<ul style="list-style-type: none">● Reliable piezo ignition (up to 30,000 ignitions)● Double the safety because there is no gas leakage without locked burners (piezo ignition)● Longer handle for an even more stable positioning on the cartridge	
TECHNICAL DATA	
Coupling:	7/16" EU
Handle:	Plastic, rubberized
Burner:	Brass / stainless steel

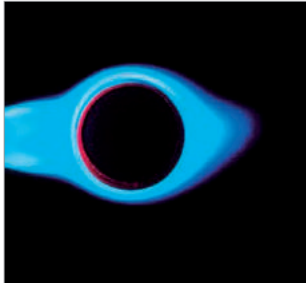


- ✓ Safe
- ✓ Fast
- ✓ Reliable

Brazing in aircon and refrigeration



High flame temperature based on cyclone swirl



Brazing in aircon and refrigeration



Bonding

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 MAPP¹⁾ gas A cartridges (No. 035521-A), ROCASE 4414 (No. 1000001945)

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

Pin-point burner (460 °C):



For fine soldering; precise and stable flame

Standard burner (700 °C):



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

Cyclone burner (950 °C):



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

Hot air burner (400 °C):



For the removal of paint and for shrinking work up to approx. 80 mm diameter; wind-stable, powerful current of hot air

Shrinking burner (720 °C):



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

SUPER FIRE 4 basic set

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

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

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

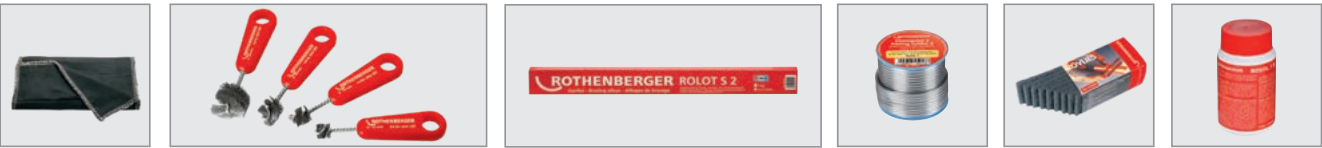


No. 035648X



No. 1500001355

ACCESSORIES



Model		Model	
Welding blanket	173	Fitting solder	175
Internal brush for copper pipe	173	ROVLIES	173
Solder	177 - 179	Soft soldering paste ROSOL	175

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

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

Bonding

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		g	No.
ROFIRE GLOBAL, 7/16"-EU		250	1500002869
ROFIRE GLOBAL, 1"-US		250	1500002196



ROFIRE Swivel PRO cyclone piezo

Cyclone burner with piezo ignition

- Coupling: 1" US
- Brazing: up to Ø 18 mm
- Soft Soldering: up to Ø 42 mm

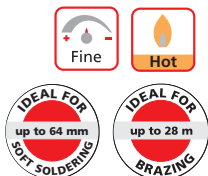


Model		g	No.
ROFIRE SWIVEL PRO cyclone piezo US		330	35016

ROFIRE Swivel PRO twin

Twin cyclone burner

- Coupling: 1" US
- Brazing: up to Ø 28 mm
- Soft Soldering: up to Ø 64 mm



Model		g	No.
ROFIRE SWIVEL PRO twin US		400	35012

ROFLAME 4 PIEZO

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

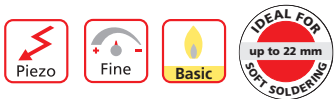
- Soft Soldering: up to Ø 22 mm

KEY FEATURES

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

TECHNICAL DATA

- Coupling: Pierceable connection (C 200 cartridge)
- Handle: Plastic, rubberized
- Burner: Stainless steel & brass
- Housing: Inox burner, 2-component rubber-plastic handle, metal cartridge housing



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

Disposable gas cartridges can be found on pages 154 - 155

Bonding

Cartridge soft soldering

ROFIRE 4

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

- Brazing: up to Ø 15 mm
- Soft Soldering: up to Ø 22 mm

KEY FEATURES

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

TECHNICAL DATA

- Coupling: 7/16"-EU
- Handle: Plastic
- Burner: Stainless steel & brass

Model		g	No.
ROFIRE 4 handle, without gas		300	1500002921
ROFIRE 4 incl. Multigas 300		750	1000002359



ROFIRE 4 PIEZO

Ergonomic soft soldering torch for a safe and comfortable usage

APPLICATION AREA

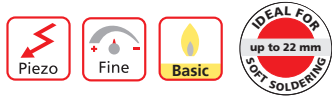
- Brazing: up to Ø 15 mm
- Soft Soldering: up to Ø 22 mm

KEY FEATURES

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

TECHNICAL DATA

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



Model		g	No.
ROFIRE 4 PIEZO, without gas		300	1500002922
ROFIRE 4 PIEZO incl. Multigas 300		750	1000002360

Disposable gas cartridges can be found on pages 154 - 155

Bonding

Cartridge brazing

MAPP¹⁾ gas

High performance brazing and soldering gas
Flame temperatures up to 2,700 °C and 35 % faster than propane



Product profile	
KEY FEATURES	KEY FEATURES
<ul style="list-style-type: none">Superior heat transfer, higher than propane, especially in winter below 0 °CIncreased safety and stability based on massive brass valve and protective collarProvides superior flame performance in any position (360°)	<ul style="list-style-type: none">Easy to useGuaranteed constant top torch performanceLonger periods of use

100 % propylene

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

7/16"-EU brass valve

Patented design for high-pressure gases

Protective collar

Stabilizes the torch and protects against accidental drops

Steel cylinder

Suitable for high pressure gases



Protective collar stabilizes the torch and protects against accidental drops

Model	Content			No.
MAPP ¹⁾ gas 7/16"-EU, A Languages: DE, GB, FR, ES, IT, PT	788 ml	12 / 360		035521-A
MAPP ¹⁾ gas 7/16"-EU, B Languages: DK, NL, SE, FI, FR, RUS	788 ml	12 / 360		035521-B
MAPP ¹⁾ gas 7/16"-EU, C Languages: CZ, PL, HU, BG, TR, RO	788 ml	12 / 360		035521-C

Torches can be found starting on 148

Packaging profile

Model	MAPP ¹⁾ gas
No.	035521-A
EAN Code	4004625400180
Product size (mm) (W x H)	70 x 270
Contents (ml)	788
Weight (g)	380
Unit per PU	12
PU per layer / pallet	10
Layer per pallet	3
Units per pallet	360
Number of pallets per truckload	60
Units per truckload	21,600
Pallet weight (kg)	324
Pallet size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	290 x 310 x 240



SUPER FIRE 3 HOT BOX SUPER FIRE 4 HOT BOX

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

Bonding

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



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

Multigas 300

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



Model	Multigas 300
No.	035510-A/-B
EAN Code	4004625355107 (A)
Product size (mm) (W x H)	65 x 260
Content (ml)	600
Weight (g)	338
Unit per 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

Multigas 110

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



Model	Multigas 110
No.	1500000459
EAN Code	4004625378977
Product size (mm) (W x H)	45 x 150
Content (ml)	110
Weight (g)	60
Unit per PU	12
PU per layer / pallet	30
Layer per pallet	5
Units per pallet	1800
Number of pallets per truckload	60
Units per truckload	108,000
Pallet weight (kg)	198
Pallet size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	185 x 140 x 160

Supergas C 200 TSS

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



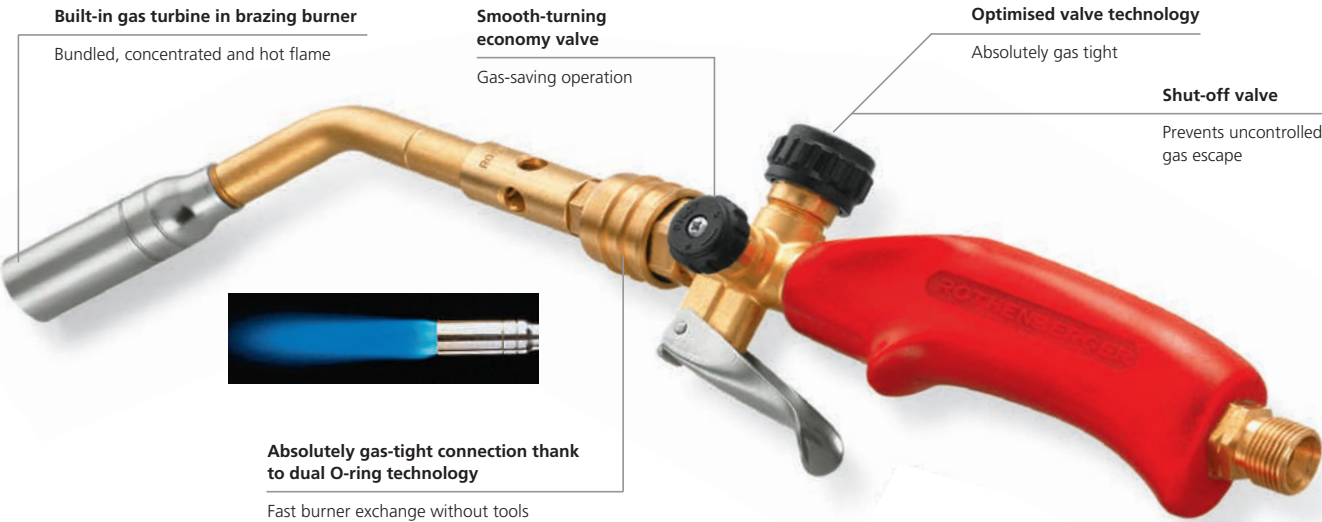
Model	C 200 TSS
No.	035901-A/-B
EAN Code	4004625390627 (A)
Product size (mm) (W x H)	90 x 95
Content (ml)	330
Weight (g)	190
Unit per PU	36
PU per layer / pallet	9
Layer per pallet	3
Units per pallet	972
Number of pallets per truckload	60
Units per truckload	58,320
Pallet weight (kg)	350
Pallet size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

Bonding
Cylinder brazing

AIRPROP
Propane High-performance torches for brazing up to Ø 22 mm and soft soldering up to Ø 54 mm
For brazing and soft soldering of copper and steel pipes up to 2,000 °C without oxygen, as well as warming up, shrinking and flame cleaning

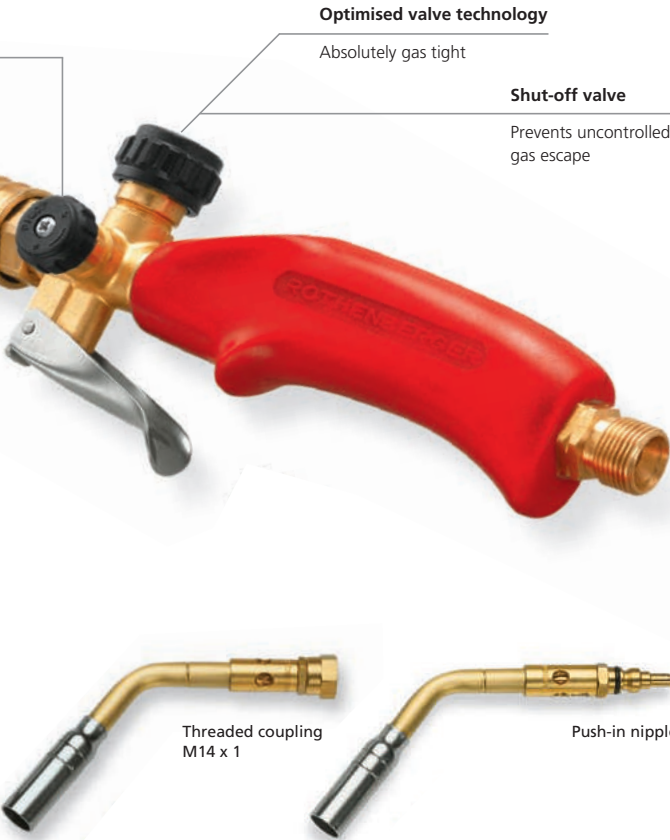
Product profile
KEY FEATURES
Bundled, concentrated and hot flame with the built-in gas turbine in brazing torch
Absolutely gas-tight with the optimised valve technology
Gas-saving operation with the smooth-running economy valve
Fast burner exchange without tools

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



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

Table with 3 columns: Model, weight (kg), and No.
AIRPROP Brazing set without propane regulator: 2.8 kg, No. 31092
AIRPROP Brazing set with propane regulator as in set (No. 31092), but with regulator (No. 32081) (W 21.8 LH – G 3/8 LH): 3.1 kg, No. 31091
Flame cleaning torch 20/50 mm: 0.2 kg, No. 30922



AIRPROP brazing burner with threaded coupling
Table with 7 columns: Ø mm, L mm, g/h 2 bar, kWh – kcal – BTU, weight (g), and No.
14 mm: 140 mm, 125 g/h, 1.60 – 1,375 – 5,465 kWh, 95 g, No. 30913
16 mm: 145 mm, 180 g/h, 2.30 – 3,300 – 7,885 kWh, 100 g, No. 30914
19 mm: 170 mm, 300 g/h, 3.84 – 3,300 – 13,115 kWh, 130 g, No. 30915
22 mm: 171 mm, 400 g/h, 5.12 – 4,400 – 26,195 kWh, 145 g, No. 30916

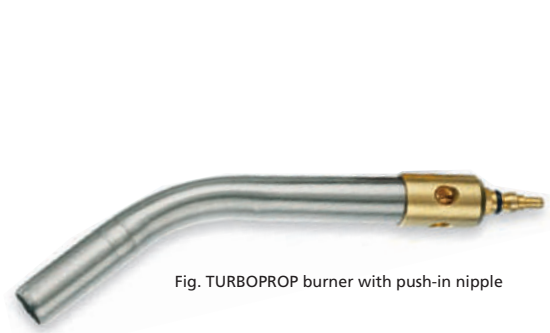
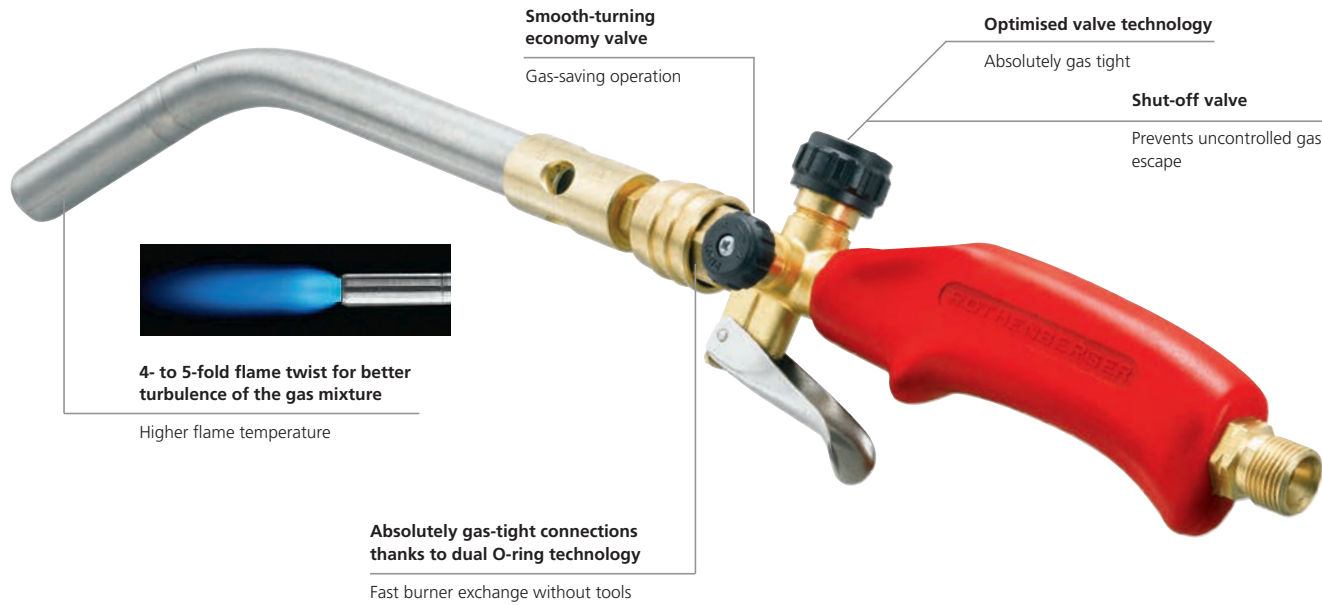
AIRPROP brazing burner with push-in nipple coupling
Table with 7 columns: Ø mm, L mm, g/h 2 bar, kWh – kcal – BTU, weight (g), and No.
14 mm: 140 mm, 125 g/h, 1.60 – 1,375 – 5,465 kWh, 95 g, No. 221131416
16 mm: 145 mm, 180 g/h, 2.30 – 3,300 – 7,885 kWh, 100 g, No. 221131616
19 mm: 170 mm, 300 g/h, 3.84 – 3,300 – 13,115 kWh, 130 g, No. 221131916
22 mm: 171 mm, 400 g/h, 5.12 – 4,400 – 26,195 kWh, 145 g, No. 221132216

Bonding
Cylinder brazing

TURBOPROP
Propane high-performance torch for brazing up to Ø 28 mm and soft soldering Ø 54 mm
For brazing and soft soldering of copper and steel pipes up to 2,200 °C without oxygen, as well as for warming up, shrinking and flame cleaning

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

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



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), 2.5 m propane hose with 3/8" LH coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

Table with 3 columns: Model, weight (kg), and No.
TURBOPROP set without propane regulator: 2.8 kg, No. 31090
TURBOPROP set with propane regulator as in set (No. 31090), but with regulator (No. 32081E) (W 21.8 LH – G 3/8 LH): 3.1 kg, No. 31094
TURBOPROP set with propane regulator as in set (No. 31090), but with regulator (No. 32083) (POL 7/8 LH – G 3/8 LH): 3.1 kg, No. 31037



TURBOPROP brazing burner with push-in nipple coupling
Table with 7 columns: Ø mm, L mm, g/h 2 bar, kWh – kcal – BTU, weight (g), and No.
10 mm: 165 mm, 70 g/h, 1.89 – 770 – 3,050 kWh, 70 g, No. 31031
12 mm: 175 mm, 110 g/h, 1.41 – 1,210 – 4,815 kWh, 90 g, No. 31032
15 mm: 195 mm, 180 g/h, 2.30 – 1,980 – 7,855 kWh, 110 g, No. 221031500
18 mm: 230 mm, 240 g/h, 3.07 – 2,640 – 10,485 kWh, 160 g, No. 221031800

Bonding

Cartridge soft soldering

MULTI MOBILE set

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

Product profile
KEY FEATURES
<ul style="list-style-type: none">● Ideal for mobile construction sites and service calls● Titanium combustion chamber and light aluminium hand grip● No flare-up effect thanks to special Multigas 110 gas cartridge● Usable in any position (360°) with a constantly stable flame● Special wind stability due to the combustion chamber's protective design● Piezo ignition and exact adjustment with a fine regulator valve● For sheet metal work such as roof gutters, panels and roof edges, ventilation shafts etc.● Robust metal case for safe transport

Professional soft soldering with maximum mobility and safety!

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



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

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

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

Bonding

Cylinder soft soldering



MULTI 300 propane soft soldering kit

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

Product profile
KEY FEATURES
<ul style="list-style-type: none">● For all types of fine soldering in the areas of electronics and telecommunications● For working with lead (gutters, laminations and roof edging, ventilation shafts etc.)● Propane handle with heat insulated wooden grip● Rotatable air / rotary valve for the adjustment of an especially fine flame● Rotatable hose coupling M10 x 1 LH
TECHNICAL DATA
<ul style="list-style-type: none">● With longer ball spindle and dual spring control● Favourable working pressure with 1.5 bar

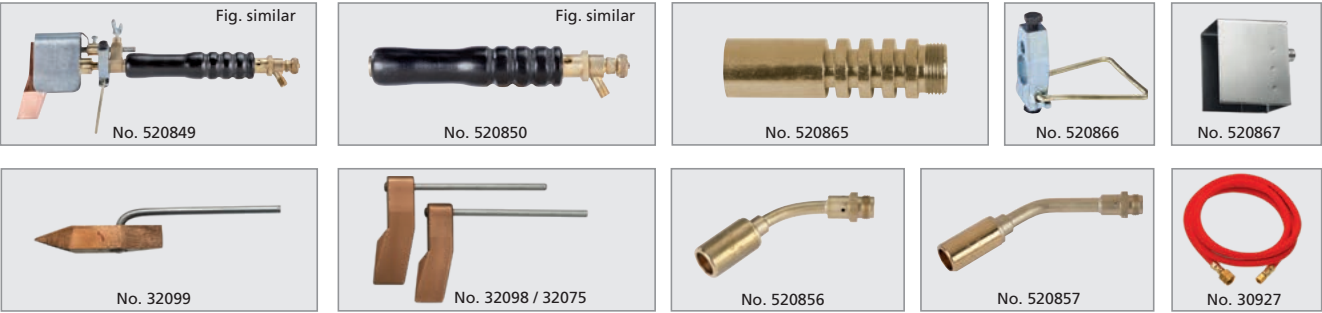


Model	kg	No.
MULTI 300 / set A without propane regulator	4.1	35486
MULTI 300 / set A with propane regulator (No. 242206000)	4.3	35489
MULTI 300 / set B	9	35488

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)

ACCESSORIES



Model	g	No.	Model	g	No.
Soft soldering iron with handle, iron torch,	940	520849	Copper head 250 g flat	270	32098
Iron holder, wind protector, copper head flat 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 with 5 pieces	15	32088

Bonding

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

TECHNICAL DATA

600 mm burner tube
Burner support



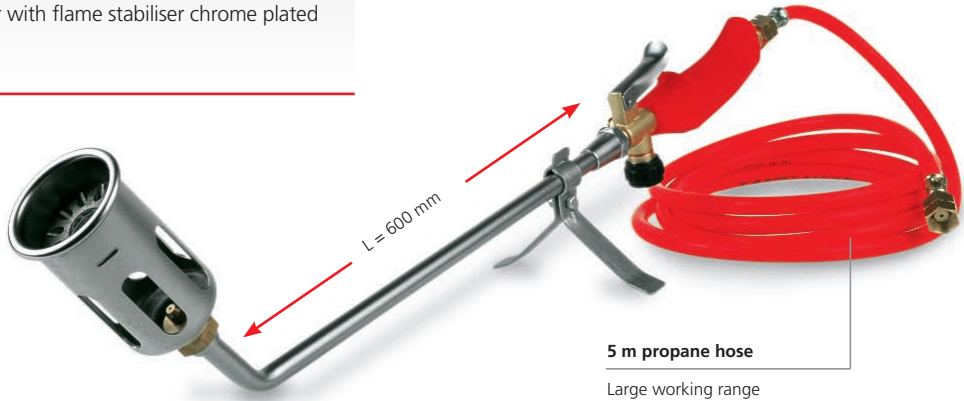
Ø 63 mm

L = 600 mm

5 m propane hose



Large working range

Burner support included!




Ideal for roofing and asphalt work

600 mm burner tube with support and 5.0 m propane hose



Extensions


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



L mm	g	No.	L mm	g	No.
100	90	231010000	350	190	233510000
200	120	232010000	600	290	236010000

Surface-heating burner heads

High-efficiency burner heads with flame stabilisers, made of special chrome plated steel, reinforced edge. For warming up, shrinking, insulating, hardening, general repair work etc.
Threaded M 20 x 1 coupling



mm	L mm	g/h 2 bar	kWh – kcal – BTU	g	No.
45	102	2500	32.00 – 27,500 – 109,280	240	223090616
51	112	3800	48.60 – 41,800 – 165,970	270	223090716
63	138	6700	85.70 – 73,700 – 292,670	440	223090916
closed					
45	102	2500	32.00 – 27,500 – 109,280	240	223214500
51	112	3800	48.60 – 41,800 – 165,970	270	223215100
57	126	5500	70.35 – 60,500 – 240,257	350	223215700
63	138	6700	85.70 – 73,700 – 292,670	440	223216300

Bonding

Accessories cylinder brazing/soft soldering

Safety propane handles

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

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



No. 211121116




No. 211111116


Propane regulators

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


Inlet	Outlet	Working pressure Bar	Performance kg/h	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



No. 32081



No. 242206000



No. 30925

Propane hoses

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

L m	Inlet	Outlet	Standard	Interior-Ø mm Wall thickness	g	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



No. 30927



No. 32223

Propane hose cut-off valve

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

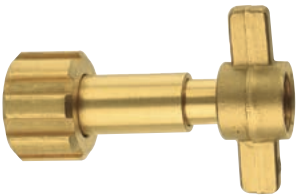
Inlet	Outlet	Performance kg/h	g	No.
G 3/8" LH	G 3/8" LH	10	130	35925



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	g	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 kg	No.
Small cylinder 0.425 kg, with foot G 3/8" LH empty		2.75	33079
Protective collar for 33079			35636



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

Power:	2,000 W
Soldergun cable:	4 m
Dimensions (L x W x H):	260 x 190 x 200 mm
Weight:	10.5 kg

Soldering without open flame!

Thermal overload protection

Automatic device shut-off

2,000 W

High-performance, short soldering times

Generously dimensioned stainless steel cooling ribs

No overheating of the handle shells

Compact design

Comfortable transport and convenient use

Highly flexible, extra long 4 m solder gun cable

Large working radius, also when working under ceilings

Soldering without open flame

No risk of fire from flammable wall or floor covering, or from plastic parts, etc

ROTHERM 2000 soft soldering set

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

Set (No. 36702) includes: ROTHERM 2000 soft soldering unit 230 V (No. 36700), ROSOL 3 fittings soldering paste No. 45225), fitting solder 3 (No. 45255), ROVLIES (No. 45268), Cu. Internal brushes 12 mm (No. 854181) / 15 mm (No. 854183) / 18 mm (No. 854185) / 22 mm (No. 854186) / 28 mm (No. 854187), steel case (No. 36715)

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



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



Model	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

ACCESSORIES					
Model	No.	Model			
Flat electrode (pair)	36721	ROVLIES	173		
Flat electrode with holder (pair)	36711	Solder flux	168		
Rod electrodes (pair)	36720	Solders	175		
Rod electrodes with holder (pair)	36710	Internal brush for copper pipe	173		

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

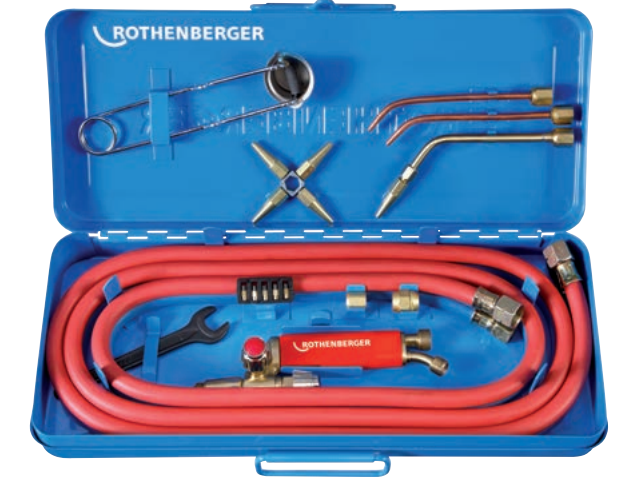
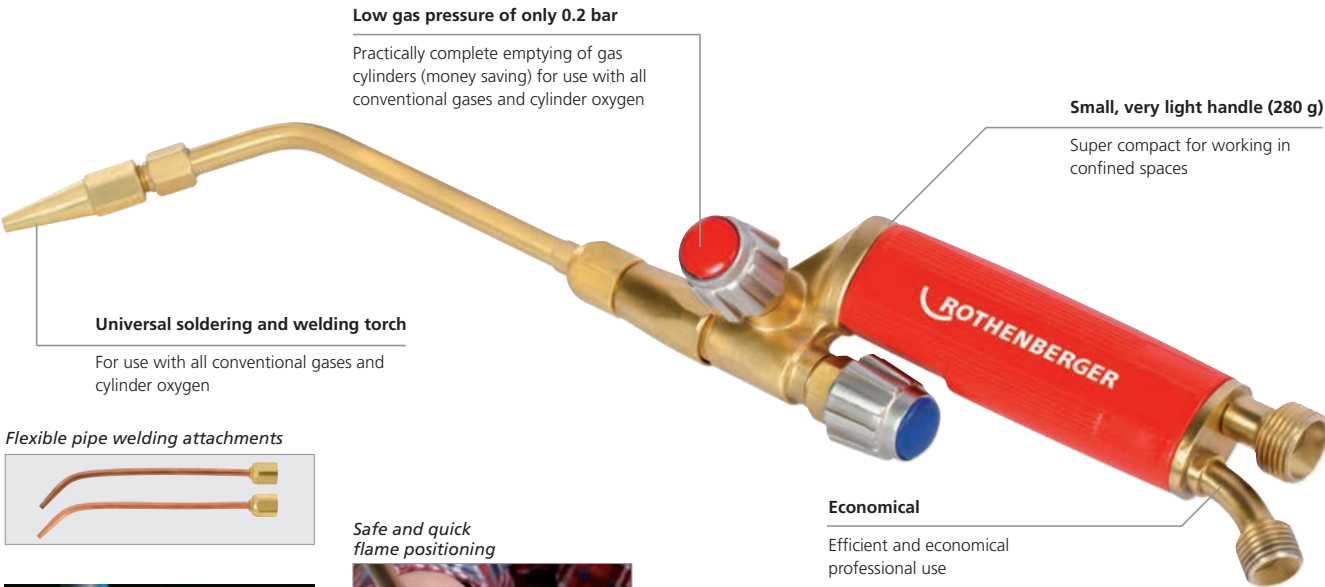
Bonding
Gas-welding

ALLGAS 2000 set

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

Table with 2 columns: Application Area, Product profile. Rows include Soldering range, Welding range, and Suitable for use with.

Table with 2 columns: Product profile, Key Features. Rows include use with conventional gases, emptying of gas cylinders, compact for confined spaces, and professional use.



ALLGAS 2000 set

17-part set (No. 35300) includes: handle (No. 35303), mixing burners with union nut (No. 35304), 5 welding tips 0.2 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5.0 mm (No. 35309), pipe welding tips, size 1 (No. 35313) / size 2 (No. 35314), coupling nut size 14 (No. 35315), dispersion 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)

Table with 5 columns: Model, Coupling oxygen, Coupling fuel gas, weight, No. Rows include ALLGAS 2000 set, Handle ALLGAS 2000, and Mixing burners with union nut.

Table with 4 columns: Model, Welding range mm, weight, No. Rows include welding tips (size 1-5), dispersion burners, welding tip holder, flexible welding tips, and coupling/union nut.

Further accessories can be found on 165

Bonding
Autogen-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

Table with 2 columns: Product profile, Key Features, TECHNICAL DATA. Rows include secure transport, portable equipment, ideal for mobile use, propane cylinders, gas type, flame temperature, and working temperature.

With safety devices to prevent flashbacks

24-part set (No. 35655) includes: handle ALLGAS 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing burners with union nut (No. 35304), welding tips 0.2-1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5 mm (No. 35309), flexible welding tip holder / spanner (No. 35312), multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), nylon safety goggles (No. 540620), small propane cylinder 0.425 kg, empty (No. 33079), steel oxygen cylinder 2.0 l, full (No. 35635), oxygen safety device (No. 1000000633), fuel gas safety device (No. 1000000631), carrying frame (No. 35629)

Table with 4 columns: Model, weight, No. Rows include ALLGAS 2000 PS 0.5 / 2 set and Carrying frame without accessories. Includes a note about further accessories.

ALLGAS 2000 welding tips

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

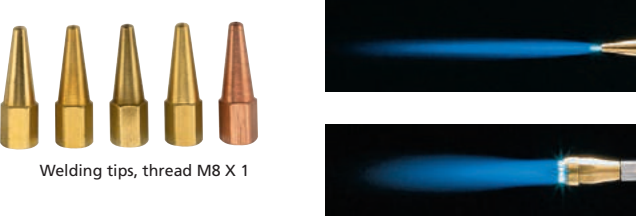
Table with 4 columns: Model, Welding range mm, weight, No. Rows include welding tip sizes 1-5, dispersion burners, and welding tip holder.

Flexible pipe welding attachments

Table with 4 columns: Model, Welding range mm, weight, No. Rows include flexible welding tip sizes 1-2 and coupling/union nut.



The bottle colors shown are without obligation! Fig. similar

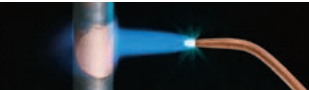


Welding tips, thread M8 X 1



No. 35311

No. 35312



Bonding
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 safety devices for both gas hoses to prevent flash-backs
• MAPP¹⁾ Gas pressure regulator with an adjustable range of 0 - 2 bar for a constant, low consumption and an efficient flame adjustment

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

Accessories included in the set



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

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

Table with 3 columns: Model, weight (kg), and No. It lists various components like ALLGAS Mobile Pro 1" US, ALLGAS Mobile Pro 7/16" EU, MAPP¹⁾ gas, and Oxygen steel cylinder.

Table with 3 columns: Model, weight (kg), and No. It lists pressure regulators for MAPP¹⁾ / LPG and Oxygen.



High quality safety devices
Reliable prevention of gas returns and flashbacks

Pressure reducer 0 - 2 bar
Constant, low consumption and efficient flame adjustment

Total weight < 6 kg
High mobility on construction site

High quality rubber hoses
20 bar, EN ISO 3821 certified, length: 2.5 m

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

Space saving storage in service vehicles!

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

18-part set (No. 35651) includes: handle ALLGAS 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing burners with union nut (No. 35304), welding tips 0.2 - 1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5 mm (No. 35309), welding tip holder / spanner (No. 35312) multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), steel oxygen cylinder 2.0 l, filled (No. 35635), propane cylinder 0.5 kg (empty) (No. 33079), ALLGAS stand (No. 35628)

Table with 3 columns: Model, weight (kg), and No. It lists the ALLGAS 2000 PS 0.5 / 2 set and further accessories.

ROXY 400 L

Standard gas-welding equipment for flame temperatures up to 3,100 °C
For brazing iron, steel, sheet steel, pipes and non-ferrous metals



The bottle colors shown are without obligation!

Space saving storage in service vehicles!

20-part set (No. 035780X) includes: handle with fine regulating valve (No. 35580), Maxigas 400 (No. 035570-A), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 263003700), oxygen pressure reducer according to DIN 0-315 / 200 bar 0-16 / 10 bar (No. 35634), hose set (3 m without handle (No. 35785), oxygen blowback protection (No. 1000000633), gas blowback protection (No. 35691), mixing burners with union nut (No. 35587), high-performance tips 1.5 mm (No. 263005600) / 2.0 mm (No. 263005400), micro-tips 0.3 mm (No. 35712) / 0.5 mm (No. 35696) / 0.7 mm (No. 35713), micro-tip adaptor (No. 35585), welding goggles A5 (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738) carrying frame (No. 35727)

Table with 3 columns: Model, weight (kg), and No. It lists various components like ROXY 400 L, welding handle, ROXY dual hose, micro-tip adaptor, and high-performance tips.

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

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



Including gas cylinders
and dual-telescoping
transport trolley!

The bottle colors shown are without obligation!

27-part set (No. 35400) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 m (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating burners 12-100 mm (No. 35339), 5m dual hose set A/O (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 5 l (filled) (No. 35178), oxygen cylinder 5 l (filled) (No. 35188), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354),

Model	kg	No.
RE 17 Three-gas system AMS 5/5	50	35400

RE 17 Three-gas system AMS 5 and 10

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



Including dual-telescoping
transport trolley!

25-part set (No. 35403) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 m (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating burners 12 - 100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

Model	kg	No.
RE 17 Three-gas system AMS 5 + 10	23	35403

RE 17 Three-gas system AMS 10/100

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



Including gas cylinders
and dual-telescoping
transport trolley!

27-part set (No. 35401) includes: handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 m (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), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece burners cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), gas regulating valve Maxigas (No. 1300003161), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

Model	kg	No.
RE 17 Three-gas system AMS 10/10	66	35401
RE 17 as in 35401, cutting range 3.0 - 25 mm	65	35798

The bottle colors shown are without obligation!

RE 17 UNIVERSAL pipe welding set

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



Set (No. 35479) includes: handle with coupling nut (No. 35324), welding attachments 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329), flexible pipe-welding tips 2 - 4 mm (No. 35347) / 4 - 6 mm (No. 35348), wing-lever cutting attachment (No. 35338), cutting tip 12 - 25 mm (No. 35341), heating burners 12 - 100 mm (No. 35339), nozzle cleaning set, 10 piece (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35800)

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



No. 35480



No. 35324

RE 17 welding attachments

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



RE 17 welding attachments, bendable

Pipe welding attachment,
complete

Welding range mm	g	No.
2.0 - 4.0	140	35347
4.0 - 6.0	150	35348

Flexible copper tips

Welding range mm	g	No.
1.0 - 2.0	40	35475
2.0 - 4.0	40	35476
4.0 - 6.0	50	35477

Pipe welding attachment, front piece



Pipe welding attachment, complete

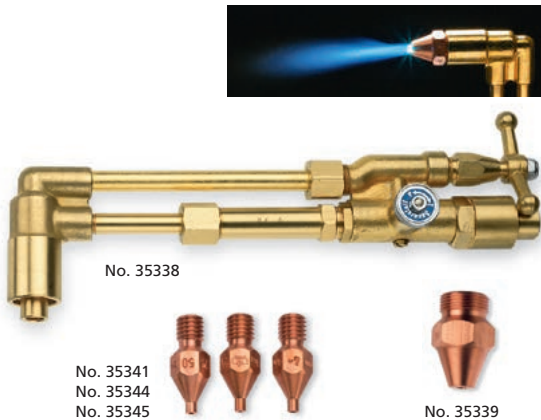


RE 17 wing-lever cutting attachment

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



No. 35338

No. 35341
No. 35344
No. 35345

No. 35339



Oxy-acetylene hoses

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

Oxygen hoses

L m	Inlet	Outlet	Internal Ø x Wall thickness	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

L m	Inlet/Outlet Oxygen	Inlet/Outlet Acetylene	Interior Ø x Wall thickness	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

Lightweight steel cylinders, filled

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



Included in delivery for steel cylinders without cap, protective bracket

The bottle colors shown are without obligation!

Model	Contents	Filling pressure bar	Height mm	Ø mm	kg	No.
Oxygen	2 l	200	420	110	4.6	35635
Oxygen	5 l	200	595	145	14.0	35188
Oxygen	10 l	200	980	145	17.0	35189
Acetylene	5 l	18	595	145	13.0	35178
Acetylene	10 l	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 5 / 10 l acetylene / oxygen cylinders	8.9	35354

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, cylinder pressure reducer with bow coupling according to DIN 477-1

Cylinder contents bar	Working pressure bar	Inlet	Outlet	kg	No.
Oxygen					
0 - 200	0 - 10	G 3/4" RH	G 1/4" RH	1.4	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). 540360 and 540365 are additionally equipped with a temperature-sensitive cut-off valve (TV) and filter

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



Protective guard for pressure reducer

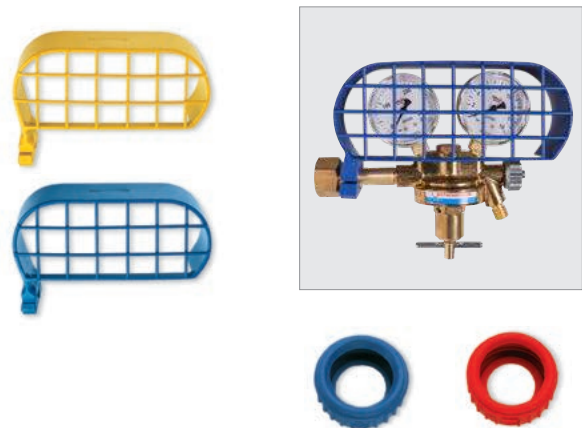
Impact protection, rugged steel construction, mounts on connection coupling

Model	Color	g	No.
For oxygen pressure reducer	blue	820	35146
For acetylene pressure reducer	yellow	820	35140

Protective rubber cap

With slot, open

Model	Color	g	No.
For oxygen pressure reducer	blue	50	511427
For acetylene pressure reducer	yellow	50	511428



Oxygen refilling bend

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

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

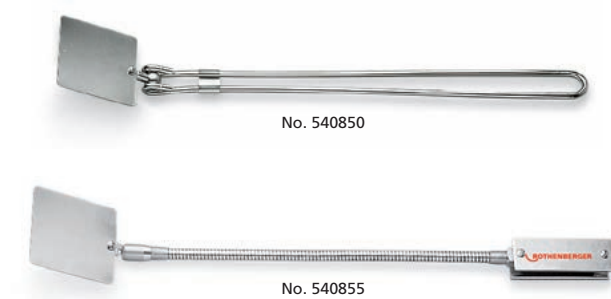


Safety igniters

Powerful spark, wear-free hard alloy friction surface

Model	g	No.
Safety igniter	60	32077
Replacement flints, tin with 5 pieces	15	32088





Hand-held welding mirror

Model		No.
Steel wire handle with clamp / ball joint	280	540850
Spare steel mirror	50	540851

Magnet welding mirror

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



Burners cleaner

Model		No.
11 piece, in folding case	20	510105



Torch spanner

Model		No.
With 10 wrench sizes	210	510106



Soldering flux and container for hydrochloric acid

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



Welding goggles EN 166

With thermal glasses as per EN 169

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

ROVLIES cleaning pads

Metal-free, for fast, score-free cleaning of copper pipe soldering surfaces

KEY FEATURES			
<ul style="list-style-type: none">● Reduced corrosion damage● No metal abrasion, can be used wet or dry● Removes oxide layers, corrosion, surface dirt, oil and grease residues● Solvent-resistant and flexible			
Model			No.
ROVLIES	1(10)	80	45268
ROVLIES counter display	36(10)	2,180	045268D



Internal brushes for copper pipe

For fast cleaning of the soldering surface, rugged plastic handle

		No.			No.
mm	g		mm	g	
12	80	854181	22	140	854186
15	100	854183	28	140	854187
18	120	854185			



Hand wire brushes

Model	Number of rows		No.
Standard steel	3 rows	130	561351
Standard steel	4 rows	130	561352



Welding blanket

Flame and heat resistant up to 700° C

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



Model	L x W x H		No.
Welding blanket	500 x 330 x 5 mm	300	31050

Flame reflectors

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



Model	Width mm	Adaptor Ø mm		No.
65 / 15	65	8 – 15	100	31042
65 / 22	65	15 – 22	100	31043

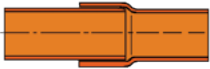
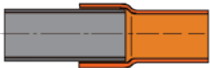


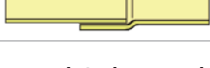
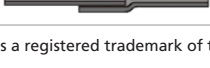
Fitting soft solder according to EN standard

Standard type according to EN 9453	Solder composition in weight %	Melting range °C	Suitable for soft soldering in the plumbing industry			Recommended heat source
			Pipe material	Fittings material	Recommended flux according to EN 94454-1	
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	Cartridge burner, heat resistant soldering unit, propane / induced-air burner, acetylene / induced-air burner, larger pipe diameters above 28 mm with propane / oxygen burner with dispersion burners
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	

Standard solder according to EN ISO standard

Standard type according to ISO 17672	Solder composition in weight %	Melting range °C	Working temperature °C	Suitable for installation technology brazing			Recommended flux according to EN 1045	Recommended heat source
				Pipe material	Fittings material	Flux		
CuP 179	Cu 94 / P 6	710 - 890	760	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	Cartridge torch with MAPP ¹⁾ gas, Propane / induced-air torch, Acetylene / induced-air torch, Larger pipe diameters above 28 mm with propane / oxygen torch with dispersion burners
CuP 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	
CuP 281	Ag 5 / Cu 89 / P 6	645 - 815	710	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
CuP 284	Ag 15 / Cu 80 / P 5	645 - 800	700	Copper	Copper Gunmetal Brass	without flux with flux	FH 10 or LP 5	
Ag 134	Ag 34 / Cu 36 / Zn 27,5 / Sn 2,5	630 - 730	710	Steel Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 or LP 5	
Ag 145	Ag 45 / Cu 27 / Zn 25,5 / Sn 2,5	640 - 680	670	Steel Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	FH 10 or LP 5	

Soldered joints

Material	Required hard solder	Melting range	Working temperature	Standard
Copper-Copper 	S 34 Cu / S 34 Cu U S 94 S 2 S 5 S 15	630 °C - 730 °C 710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	710 °C 760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former DIN EN 1044)
Copper-Carbon steel 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	EN ISO 17672 (former DIN EN 1044)
Copper-Brass 	S 94 S 2 S 5 S 15	710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former DIN EN 1044)
Brass-Carbon steel 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	600 °C - 690 °C 595 °C - 630 °C	680 °C 610 °C	EN ISO 17672 (former DIN EN 1044)
Brass-Brass 	S 94 S 2 S 5 S 15	710 °C - 890 °C 645 °C - 825 °C 645 °C - 815 °C 645 °C - 800 °C	760 °C 740 °C 710 °C 700 °C	EN ISO 17672 (former DIN EN 1044)
Carbon steel-Carbon steel 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	EN ISO 17672 (former DIN EN 1044)


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

Fittings solders

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


Fitting solder 1 S

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

Solder wire Ø	Description	 g	No.
2 mm	250 g coil	270	45252
3 mm	250 g coil	270	45250

Fitting solder 3

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

Solder wire Ø	Description	 g	No.
2 mm	250 g coil	270	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 1 S


Fittings solder paste

Quality soft soldering flux, metal content: **S-Sn97Ag3**, only for use with fitting solder 1 S

Model	 g	No.
ROSOL 1 S in plastic bottle 250 g	270	45220

Fittings soft solder flux

According to **EN ISO 9454-1-3114**, flux residues are 100 % water soluble, for joining copper pipes to copper, gunmetal, and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 2 + GW 7, also suitable for general-purpose soldering work.

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



No. 45252



No. 45257



No. 45220




No. 45225

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





Hard solder rings S 2

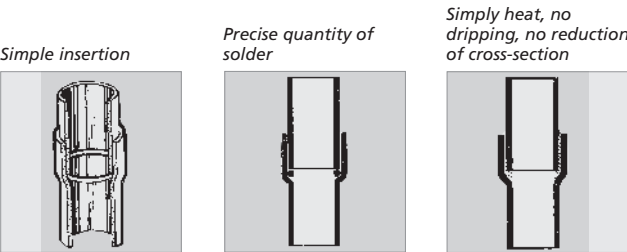
High-quality safety solder material with silver-phosphorus content, guaranteed according to EN ISO 17672, CuP 279

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 re-work of the soldered joint

TECHNICAL DATA

Alloy (weight %):	Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest		
Melting range:	650 °C - 810 °C		
Joinable materials:	Copper, gunmetal, brass, bronze		
Use of flux with:	Gunmetal, brass, bronze with hard solder paste LP 5		
Package size:	250 g plastic bag		



Model	approx. Content rings	g	No.
Hard solder rings S 2, Ø 12 mm	395 pieces	260	40512
Hard solder rings S 2, Ø 14 mm	268 pieces	260	40514
Hard solder rings S 2, Ø 15 mm	244 pieces	260	40515
Hard solder rings S 2, Ø 18 mm	186 pieces	260	40518
Hard solder rings S 2, Ø 22 mm	106 pieces	260	40522
Hard solder rings S 2, Ø 28 mm	79 pieces	260	40528

Hard solder paste LP 5

Flux for hand 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	g	No.
LP 5 in plastic bottle 160 g	160 g	180	40500

Hard solder powder HKM

Flux for hard soldering at working temperatures above 800 °C, according EN 1045 - FH 21, working temperature 800 °C - 1,100 °C, for copper and copper alloys, brass, gunmetal, nickel silver, bronze, steel and galvanised steel, grey iron and malleable cast iron, for welding copper and brass in dry conditions, can be mixed with clean water to form a paste, flux residues must be removed carefully. Free of boric acid.

Model	Content	g	No.
HKM in plastic bottle	50 g	65	35611

Flux brush

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

Hard solders

For copper pipe installation

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

KEY FEATURES

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



ROLOT S 94 CuP 179

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

TECHNICAL DATA

Alloy (weight %):	Cu 94 / P6
Melting range:	710 - 890 °C
Working temperature:	760 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with LP 5



Content	Squared section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	40094

ROLOT S 2

Special quality hard solder, not standardised, **similar to EN ISO 17672**, with low silver content, matched to normally-stressed copper pipe system, ideal for capillary gap soldering

TECHNICAL DATA

Melting range:	700 - 850 °C
Working temperature:	750 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with hard solder paste LP 5



Content	Square section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	40202

ROLOT S 2 CuP 279

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

TECHNICAL DATA


Alloy (weight %):	Ag 2 / Cu 91,8 / P 6,2
Melting range:	645 - 825 °C
Working temperature:	710 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with hard solder paste LP5



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




ROLOT S 5
Particularly high quality hard solder, not standardised, **similar to EN ISO 17672**, with low silver content, ideal for capillary and joint soldering in sanitary, heating and gas installations

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

TECHNICAL DATA	
Melting range:	710 - 840 °C
Working temperature:	750 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with hard solder paste LP5




ROLOT S 5 CuP 281
High-quality silver/phosphorus safety hard solder, **guaranteed according to EN ISO 17672**, for higher-stressed copper pipe systems, ideal for capillary and joint soldering in sanitary, heating and gas installations

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 / P 6
Melting range:	645 - 815 °C
Working temperature:	710 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with hard solder paste LP5



ROLOT S 15 CuP 284
Particularly high quality silver hard solder, **guaranteed according to EN ISO 17672**, especially for capillary-gap soldering subject to high thermal and mechanical alternating loads in HVAC systems, as well as demanding sanitary and gas installations



Content	Square section mm	Length mm	 g	No.
1 kg carton	2 x 2	500	1,025	40015

TECHNICAL DATA	
Alloy (weight %):	Ag 15 / CU 80 / P 5
Melting range:	645 - 800 °C
Working temperature:	710 °C
Joinable materials:	Copper, gunmetal, brass, bronze
Flux required with:	Gunmetal, brass, bronze with hard solder paste LP5

Silver hard solders Ag 134 S 34 Cu U flux-covered
Free of cadmium, quality silver hard solder **guaranteed according to EN ISO 17672**, flux-covered **according to EN1045 FH 10**, universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C





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

Content	 mm	 g	S 34 U No.
100 g plastic bag	2	110	44915
250 g plastic bag	2	260	44916
1000 g plastic bag	2	1,010	44917

Silver hard solders Ag 145 S 45 Cu / S 45 Cu U flux-covered
Free of cadmium, quality silver hard solder, **guaranteed according to EN ISO 17672**, flux-covered **according to EN 1045, Type FH 10**, universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C



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

Content	 mm	 g	S 45 U No.
100 g plastic bag	2	110	45055
250 g plastic bag	2	260	45056
1000 g plastic bag	2	1,010	45057



Testing & leak detection

System overview	182
Testing of water lines & containers	
Testing pumps	183 - 185
Testing of gas & water lines	
Digital testing device	186-187
Analogue testing device	188
Accessories testing devices	189
Testing of waste water lines	
Leakage testing in accordance with DIN EN 1610	190
Leak detection	
Leak detection on water lines	190
Leak detection on gas lines	191
Leak detection spray on gas lines	191

Precision testing pumps manual

RP 50-S / RP 50-S INOX

TP 25

RP 30

Testing & pressure range:	0 - 60 bar	0 - 25 bar	0 - 30 bar
Hub suction capacity:	45 ml / stroke	16 ml / stroke	16 ml / stroke
Tank capacity:	12 l	7 l	4.5 l
Connection:	R1/2"	R1/2"	R1/2"
Dimension:	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

RP PRO III

Testing & pressure range:	0 - 40 bar	Pressure range:	0 - 1500 mbar	0 - 1500 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

188

186

Analogue / digital testing device for gas and water connections

ROTEST GW 150/4

ROTEST GW Digital V3

RP 50-S / RP 50-S INOX

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

Adjustment of the pressure gauge with 0.1 bar scaling is possible!

Product profile

APPLICATION AREA

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

KEY FEATURES

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

TECHNICAL DATA

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
approx. 45 ml / stroke

Hub suction capacity:

12 l

Tank capacity:

495 x 165 x 255 mm

Dimensions (L x W x H):

R 1/2"

Connection:

Steel, DURAMANT coated

Container RP 50-S:

Stainless steel

Container RP 50-S INOX:

Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

Additional pressure gauge with fine scaling 0.1 bar optional

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

Testing hose with steel mesh

Precise measurement

Weather and cold-resistant container

5 year rust-free guarantee - DURAMANT coated

INOX!

No. 60203

No. 60200

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

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

Model	kg	g		No.
RP 50-S testing pump	8	1	4	60200
RP 50-S INOX (stainless steel) testing pump	8	1	4	60203

ACCESSORIES

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

182

ROTHENBERGER

183

ROTHENBERGER

183

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

Testing & leak detection

Testing of water lines & containers

RP PRO III

Self-priming electric testing pump up to 40 bar

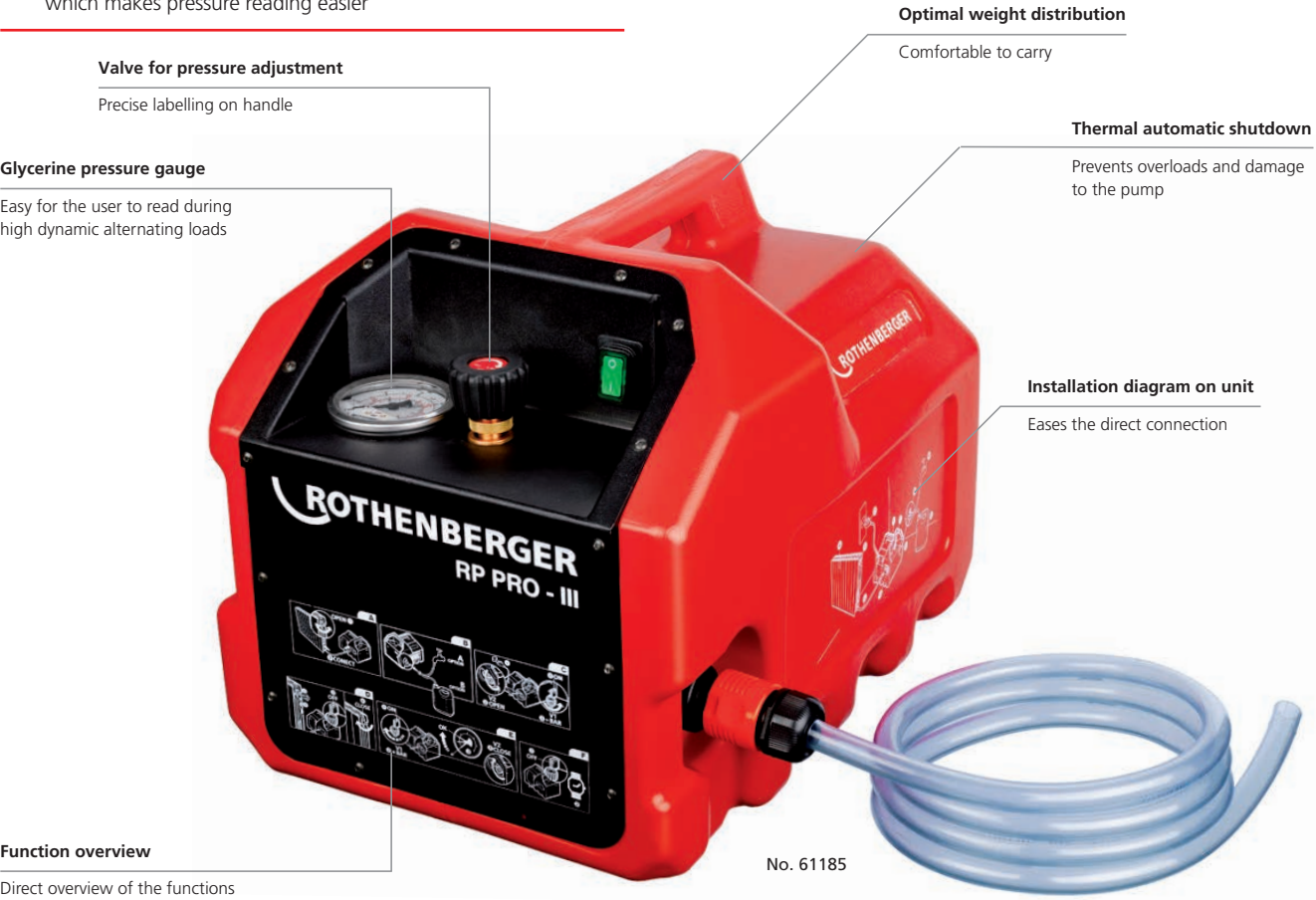
Product profile

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



Model		110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose	16.0	V12110016	61185
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4	V12102000	
Maintenance package RP PRO III in scope of delivery			61186

TECHNICAL DATA	
Testing and pressure range:	0 - 40 bar, with 1 bar steps 0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps
Flow Rate:	max. 6 l / min
Dimensions (L x W x H):	375 x 290 x 300 mm
Connection:	R 1/2"
Mains voltage:	220 - 240 V / 50 HZ and 110 V / 50 - 60 HZ
Performance:	1.3 kW
Container:	ABS-plastic



Testing & leak detection

Testing of water lines & containers

TP 25

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

Product profile

APPLICATION AREA

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

KEY FEATURES

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

TECHNICAL DATA

Testing and pressure range:

Hub suction capacity:

Dimensions (L x W x H):

Connection:

Container:



For the daily work on site



Model	Pressure range				No.
Testing pump TP 25	up to 25 bar	4.6	1	4	60250
Maintenance package TP 25			1		60251

RP 30

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

Product profile

APPLICATION AREA

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

KEY FEATURES

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

TECHNICAL DATA

Testing and pressure range:

Hub suction capacity:

Dimensions (L x W x H):

Connection:

Container:



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



Model	Pressure range				No.
Testing pump RP 30	up to 30 bar	4.5	1	4	61130
High pressure hose with 1/4" connection		0.4	1		R6112500

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

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

Testing & leak detection
Testing of gas & 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 2008
Leak rate measurement for gas pipelines according to TRGI 2008 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 management of all test results

TECHNICAL DATA
Display resolution: 480 x 272
Data transfer: USB, WiFi
Battery life time: approx. 8 h testing time, mains operation possible
Pressure range:
Low pressure sensor: Pressure range 0 – 1,500 mbar (resolution 0.1 mbar)
High pressure sensor: Pressure range 0 – 20 bar (resolution 0.01 bar)
Leak rate measurement: Leak rate 0 – 12 l/h (resolution 0.1 l/h)
Safety class: IP40
Weight: 5.25 kg

WiFi transmitter
Easy data transfer to mobile devices and PCs

4.3" Touchscreen
Easy and clear handling



All-in-One
High- and low-pressure sensor from 1 mbar up to 20 bar in one device



No. 1500002677

Pressure and leakage testing for gas pipelines according to TRGI 2008



Testing of gas pressure regulators



Set (No. 1500002676) includes:
GW Digital basic unit incl. power plug, software disk with RODATA V3 software (No. 1500002851), 2x hose 2m low pressure (No. 1500002846), 2x gas test plug cylindrical size 2 (No. 351272), adaptor 1/8" to NW5 plug (No. 1500002853), adaptor nozzle pressure to NW5 plug 61018, air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017), supply end cap (No. 61041)

Set (No. 1500002677) includes:
GW Digital basic unit incl. power plug, software disk with RODATA V3 software (No. 1500002851), 2x hose 2m low pressure (No. 1500002846), 1x hose 2m high pressure + shut-off valve (No. 1500002845), 2x gas test plug cylindrical size 2 (No. 351272), 2x adaptor 1/2" to NW5 plug (No. 1500002876), adaptor 1/8" to NW5 plug (No. 1500002853), adaptor nozzle pressure to NW5 plug (No. 61018), air pump (No. 1500002848), double bellow (No. 1500002847), shut-off valve NW5 (No. 61017), supply end cap (No. 61041)

Table with 2 columns: Model, No.
ROTEST GW Digital V3 – Set gas 1500002676
ROTEST GW Digital V3 – Set gas / water 1500002677

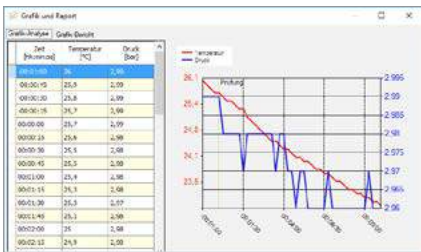
Testing & leak detection
Testing of gas & water lines

ROTEST GW Digital V3 - RoData V3 PC-Software
PC software for data management of all tests carried out

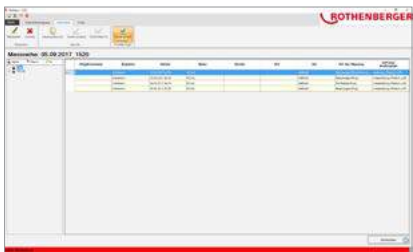


Product profile
KEY FEATURES
Creation of a log with graphical representation of the test process
Management of measurement data – overview of all measurements stored per customer
Customer administration – import of VCard files (.vcf) possible
Testing management – clear allocation of one employee per test
Data transmission via USB cable or WiFi connection possible

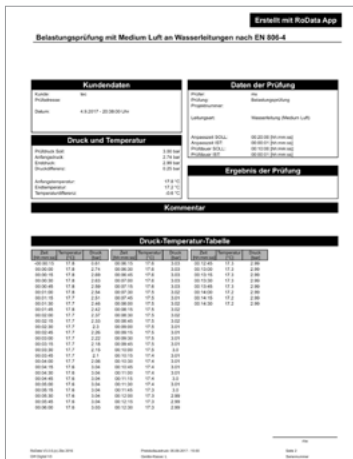
TECHNICAL DATA
RoData V3 PC-Software:
Compatibility: Windows 2000, XP, 7, 8, 10
Size: 16.2 MB



Overview of measurement series with graph



Management of measurement series = RoData V3

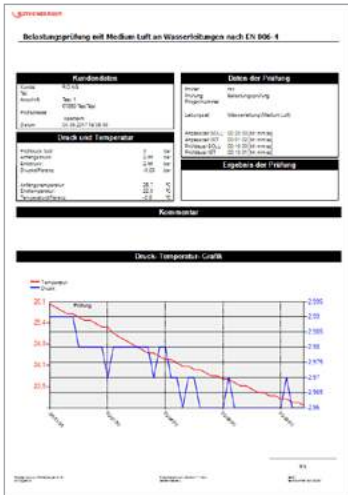


Sample log according to DIN EN 806-4 with diagram

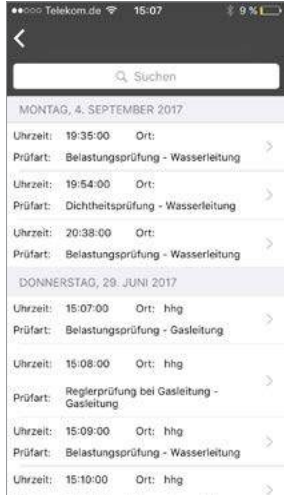
ROTEST GW Digital V3 - RoData Mobile App
App for the data management of all tests carried out

Product profile
KEY FEATURES
Simple, quick and professional documentation
Log ready for immediate use as a PDF
Suitable for iOS and Android devices
Measurement data transfer via WiFi
User-defined company profile set-up in the log
Ready-made logs for various measurement types (leak testing, usability testing, etc.)

TECHNICAL DATA
RoData Mobile App:
Compatibility: iOS 8.0 or newer, Android 4.4 or newer
Size: 11 MB



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



Measurement overview RoData Mobile App



Start screen RoData Mobile App

Testing & leak detection
Testing of gas & water lines

ROTEST GW 150/4

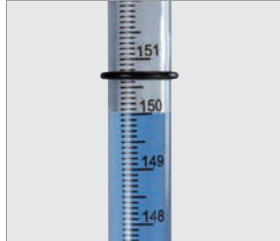
Analogue testing device for gas and water connections using air as the medium

Product profile
APPLICATION AREA
Analogue testing unit for the implementation of the following tests:
Gas: Load and leakage test for newly installed gas lines in accordance with DVGW - TRGI worksheet G600 (April 2008)
Leakage test from propane liquid gas lines / low-pressure liquid gas lines
Adjustment of the duct pressure on atmospheric burners and forced-air burners
Testing of the appliance connection pressure on gas appliances
Water: Pre-testing and testing of newly installed drinking water lines in accordance with DIN 1988 (TRWI)
KEY FEATURES
Quick and precise pressure reading over water column without electronic
Testing time and pressures in accordance with DVGW - TRGI and TRWI clearly arranged on unit cover
Sturdy unit: High reliability when used on the building site

DVGW-TRGI / worksheet G600/April 2008 conforming!



Testing scale up to 150 mbar on transparent extending tube element



Transparent tube element with double o-ring seal



TECHNICAL DATA
Pressure gauge: 4 bar
Water column: 150 mbar
Testing accuracy: Water column 0.1 mbar (Reading accuracy in accordance with TRGI)
Pressure gauge 0.1 bar (Display range 0 - 4 bar)



Legible scaling
Continuous scaling up to 150 mbar

Measurement chart in unit
Testing times and testing pressure from lawmakers at a glance

Foam inlay
High transport safety and protection of the components

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

Model in combination with basic unit
with 5 test plugs and supply end cap
with 5 test plugs without supply end cap



Testing & leak detection
Testing of gas & water lines

Set components

Table with 3 columns: Model, weight (g), and No.
Items include: Pressure pump ROTEST GW 150/4, Bellow f. ROTEST GW 150/4, Shut-off valve NW5 socket/plug, Adaptor nozzle pressure to NW5 plug, O-ring set (6 pcs.) GW 150/4, Supply End Cap f. ROTEST GW 150/4, 1/8" adaptor to NW5 plug, 1/2" adaptor to NW5 plug, Tube element (4 pcs.) GW 150/4, Measurement fluid, blue, GW 150/4, Hose 2 m high pressure + shut-off valve, Hose 2 m low pressure ROTEST GW, Double bellow GW Digital V3, Air pump GW Digital v3, CD RODATA V3 for ROTEST GW Digital V3, Shut-off valve NW5 socket/socket



Gas test plug / adaptor

Suitable for gas lines up to 1.5 bar

Table with 5 columns: Model, Steel exterior pipe Ø inch, Copper exterior pipe Ø mm, weight (g), and No.
Items include: Conical shape with pneumatic connection (Size 0, 1, 2, 3)

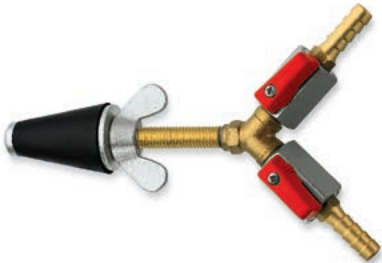
Table with 5 columns: Model, Steel exterior pipe Ø inch, Copper exterior pipe Ø mm, weight (g), and No.
Items include: Cylindrical shape with pneumatic connection (Size 1, 2)

Table with 5 columns: Model, Steel exterior pipe Ø inch, Copper exterior pipe Ø mm, weight (g), and No.
Items include: Conical shape with hose coupling (Size 0, 1, 2, 3)

Table with 5 columns: Model, Steel exterior pipe Ø inch, Copper exterior pipe Ø mm, weight (g), and No.
Items include: Conical shape with 2 ball valves (Size 1, 2, 3)

Table with 5 columns: Model, Steel exterior Pipe Ø inch, Copper exterior Rohr Ø mm, weight (g), and No.
Items include: Conical shape with 1 ball valve (Size 0, 1, 2, 3)

Table with 3 columns: Model, weight (g), and No.
Items include: With double plug valve - with hose snout, Adaptor/cut-off valve with pn. connection



Testing & leak detection

Testing of waste water lines

House connection test set

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

Product profile

APPLICATION AREA

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



Model	kg		No.	Ø Testing/sealing balloon	Testing balloon No.	Sealing balloon No.
House connection test	7.8	1	61340	Ø 65 - 100 mm	61358	-
				Ø 75 - 150 mm	1500002856	61352
				Ø 90 - 250 mm	1500002857	61353

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)

ROLeak Aqua Plus

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

Product profile

KEY FEATURES

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



KEY FEATURES

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

TECHNICAL DATA

3-staged Frequency filter: 1. Stage: 0 - 540 Hz
2. Stage: 540 - 4,000 Hz
3. Stage: 0 - 4,000 Hz
Operating time: ca. 50 h
Weight: 300 g (Handheld device)
Level of protection: IP 41

Improved Sound compared with previous models!

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

Model	kg	No.
ROLeak Aqua Plus	1.6	1500000922

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

Testing & leak detection

Leak detection on gas lines

ROTEST Electronic 3

Leak detection on gas lines

Product profile

APPLICATION AREA

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

KEY FEATURES

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

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

ModelkgNo.

ROTEST Electronic 31.566080

ModelContentkgNo.

ROTEST leak detection spray400 ml470165000

ROTEST leak detection spray400 ml470121000000442

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.

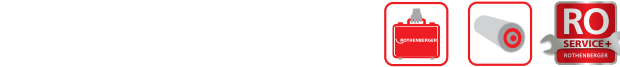
KEY FEATURES

- 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	kg	No.
ROTEST leak detection spray	400 ml	470	1 65000
ROTEST leak detection spray	400 ml	470	12 1000000442



TECHNICAL DATA

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

Sensitivity: < 50 ppm - 1 Vol % (Methan)

Power supply: 9 Volt battery



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



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



Freezing

Freezing electric





Pipe freezing systems

194 - 196

Freezing with gas

Pipe freezing systems

197

Freezing electric		Freezing with gas	
ROFROST Turbo R290 1.1/4"	ROFROST Turbo R290 2"	ROFROST Dry Ice	ROFROST Handy
			
Working range Cu:	10 - 42 mm (3/8 - 1.5/8")	10 - 54 mm (3/8 - 2.1/8")	10 - 54 mm (3/8 - 2.1/8")
Working range Fe:	1/8 - 1.1/4"	1/8 - 2"	1/8 - 2"
Reduction inserts:	up to 12 pcs.	up to 15 pcs.	up to 10 pcs.
Freezing hose:	2.5 m	2.5 m	2 m
Refrigerant:	R290	R290	CO ₂ (R 744)
Page	194, 195	194, 195	197

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

Pipe freezing system for copper, steel and stainless steel

Flexible refrigerant hoses

Work in confined spaces and store the hoses inside the unit

Simple clamping system

For use even in confined spaces

Compact design

Tough powder coated metal case with soft-grip handle makes the machine highly mobile and ideal for service work

The use of heat conductive paste guarantees optimal freezing



The freezing process starts automatically after installing the freezing clamps



Compact freeze clamp design allows the pipe to be frozen - even close to the wall



Heat conductive paste

Enables freezing without continuous spraying of the pipe

Wide application area

A range of pipe sizes can be frozen using the supplied pipe inserts

ROFROST Turbo R290 1.1/4"

Pipe freezing system for copper, steel and stainless steel



Product profile	
APPLICATION AREA	
Maintenance, repair and expansion work in sanitary and heating installations	
Copper pipes:	Ø 10 - 42 mm ROFROST Turbo R290 1.1/4" Ø 3/8 - 1.5/8" ROFROST Turbo R290 1.1/4"
Steel pipes:	Ø 1/8 - 1.1/4" ROFROST Turbo R290 1.1/4"
KEY FEATURES	
<ul style="list-style-type: none">Future-proofed due to the change of the environmental friendly refrigerant R290Compact freezing clamps and shortened thermometer allows working on confined spacesThe 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 waterReduction inserts in various sizes for all common pipe diameters	



Model		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
additional sets upon request			

ROFROST Turbo R290 2"

Pipe freezing system for copper, steel and stainless steel



Product profile	
APPLICATION AREA	
Maintenance, repair and expansion work in sanitary and heating installations	
Copper pipes:	Ø 10 - 54 mm ROFROST Turbo R290 2" Ø 3/8 - 2.1/8" ROFROST Turbo R290 2"
Steel pipes:	Ø 1/8 - 2" ROFROST Turbo R290 2"
KEY FEATURES	
<ul style="list-style-type: none">Future-proofed due to the change of the environmental friendly refrigerant R290Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozenThe 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 waterReduction inserts in various sizes for all common pipe diameters	



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

Freezing

Freezing electric

ROFROST App

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



Application instructions

Application instructions
Check if you have performed the following steps

1. Waterflow interrupted?

2. Select the suitable reduction inserts?

3. Heat Conductive Paste used?

4. Correct mounted clamp at the pipe?

5. Switched on the ROFROST Turbo R290?

Next step

Imprint

Freezing parameter

Freezing parameter
Select the freezing parameter

ROFROST Turbo R290 1.1/4" recognized
Serial number 3108180080055

Pipe materialCopper (Cu)

Pipe diameterØ 22

Recommended minimum freezing time:

14 minutes

Apply freezing parameter

Imprint

Timer

Timer
Start the freezing process with the following parameters:

ROFROST Turbo R290 1.1/4"
Pipematerial Copper (Cu)
Pipe diameter Ø 22

Recommended minimum freezing time:

14 minutes

Start timer

Imprint

Checklist for the freezing process





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

The integrated timer will respond after the freezing time has elapsed

ROFROST Turbo reduction inserts







ROFROST Turbo 1.1/4"

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



ROFROST Turbo 2"

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

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

ROFROST heat conductive paste



No. 62291

For a perfect freezing result



Heat conductive paste enables fully automatic freezing without spraying!

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

Freezing

Freezing with gas

ROFROST Dry Ice set

Freezing unit for the freezing of pipes up to 2" without electricity

Produkt-Profil

APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installation. No electrical connection required!

KEY FEATURES

Flexible use, freezing possible without electricity!

Because of the low temperature (up to -79° C) the dry ice enables a faster freezing as every other electrical freezing unit that uses refrigerant

Piping up to 2" can be frozen with just one unit

Freezer heads made out of extremely cold-resistant special plastic

TECHNICAL DATA

Copper pipes:

Ø 10 mm - 54 mm

Ø 3/8 - 2.1/8"

Steel pipes:

Ø 1/8 - 2"

19-part set (No. 65030) includes: 2 handles with feed valves (No. 65032), 2 high pressure hoses (No. 65033), 10 pairs of freezer heads (2 for each pipe dimension), stopper for one-sided freezing (No. 65049), wrench (No. 65045), internal hexagonal screwdriver (No. 65046), T-piece (65034), plastic carrying case (65031)

for copper pipes

for copper pipes

for steel pipes

g

No.

Ø mm

Ø inch

Ø inch

kg

10 - 54

3/8 - 2.1/8"

1/8 - 2"

4.9

65030

Set without carbon dioxide bottles!



Use carbon dioxide bottles only with stand pipes

Freezer Heads



ROFROST Freezer Heads

Size	for copper pipes	for copper pipes	for steel pipes	g	No.
	Ø mm	Ø inch	Ø inch		
1	10 - 12	1/2"	1/8"	60	65035
2	14 - 15	-	1/4"	60	65036
3	16 - 18	5/8"	3/8"	70	65037
4	22	3/4 - 7/8"	1/2"	70	65038
5	28	1.1/8"	3/4"	110	65039

Size	for copper pipes	for copper pipes	for steel pipes	g	No.
	Ø mm	Ø inch	Ø inch		
6	35	1.3/8"	1"	110	65040
7	42	1.5/8"	1.1/4"	210	65041
8	-	-	1.1/2"	210	65042
9	54	2.1/8"	-	250	65043
10	-	-	2"	250	65044

ROFROST Handy

The fast, portable freezing system for copper pipes Ø 15 - 28 mm and steel pipes 1/4 - 3/4"

Product profile

APPLICATION AREA

Pipe freezing system is ideally for quick repairs and small expansion tasks

KEY FEATURES

Freezing is possible in the smallest spaces

Space saving case

10-part set (No. 64020) includes: Quick Freeze freezing spray (No. 64001), freezing head 1/4" (No. 64021), freezing head 3/8" (No. 64022), freezing head 1/2" (No.64023), freezing head 3/4" (No. 64024), internal hexagonal screwdriver (No. 65046), foam inlay (No. 64026), plastic carrying case without inlay (No. 30898), inlay for plastic carrying case (No. 62045), ROTHENBERGER fleece cloth (No. 93915)



Model	g	No.
ROFROST Handy set	2400	64020
Quick Freeze freezing spray	500	64001R



Inspection & locating

System overview	200 - 201
Video inspection	
ROSCOPE mini	202
ROSCOPE i2000	203
Inspection modules for ROSCOPE i2000	204 - 205
Locating module ROLOC Plus	206
ROSCOPE i2000 & ROCAM 4 Plus app	207
ROCAM 4 Plus	208 - 209
ROCAM 4 Plus accessories	210 - 211

ROSCOPE family



ROSCOPE mini



ROSCOPE i2000 modules



Application:	Hollow spaces	Hollow spaces	Ø 50-100 mm	Ø 40-100 mm	Locating of sondes
Display size:	2.5"	3.5"	3.5"	3.5"	3.5"
Touchscreen:	–	✓	✓	✓	–
Cable length:	1.2 m	1 m	16 m	22 m	–
Cable:	Ø 5.5 mm	Ø 9 mm	Ø 8.5 mm	Ø 5.5 mm	–
Camera head:	Ø 8.5 mm	Ø 17 mm	Ø 25 mm	Ø 25 mm	–
Self levelling:	180°	✓	✓	–	–
Transmitter:	–	–	✓	–	–
Frequency:	–	–	512 Hz	–	512 & 640 Hz, 33 kHz
Picture format:	JPG	JPG	JPG	JPG	–
Picture resolution:	320 x 240 pixel	640 x 480 pixel	640 x 480 pixel	640 x 480 pixel	–
Video format:	–	AVI	AVI	AVI	–
Video resolution:	–	640 x 480 pixel	640 x 480 pixel	640 x 480 pixel	–
Storage:	On-board	SD-card	SD-card	SD-card	–
WiFi:	–	✓	✓	✓	–
Protocol feature:	–	–	–	–	–
Audio-recording:	–	✓	✓	✓	–
Data handling:	–	via app	via app	via app	–

Page

202

204

205

204

206

ROCAM 4 Plus



ROCAM 4 Plus



25 mm camera head:	–	–	40-100 mm
30 mm camera head:	Ø 70-150 mm	Ø 70-150 mm	–
40 mm camera head:	Ø 100-300 mm	Ø 100-300 mm	–
Display size:	10.4"	10.4"	10.4"
Touchscreen:	✓	✓	✓
Cable length:	30 m	65 m	8 m
Metre counter:	✓	✓	✓
Cable-Ø:	7 mm	7 mm	5.5 mm
Self levelling:	✓	✓	–
Transmitter:	✓	✓	–
Frequency:	33 kHz	33 kHz	–
Picture format:	JPG	JPG	JPG
Picture resolution:	720 x 600 pixel	720 x 600 pixel	720 x 600 pixel
Video format:	AVI	AVI	AVI
Video resolution:	720 x 600 pixel	720 x 600 pixel	720 x 600 pixel
Storage:	SD-card	SD-card	SD-card
WiFi:	✓	✓	✓
Protocol feature:	✓	✓	✓
Audio-recording:	✓	✓	✓
Data handling:	✓	✓	✓

Page

208

209

209

Inspection & locating

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.



Product profile	
APPLICATION AREA	
The ROSCOPE mini is perfect for an easy and quick inspection of minor works. Blockages in drainages, pipelines, shower and bath connections, gutters and hollow spaces can be easily inspected.	
KEY FEATURES	
<ul style="list-style-type: none">● Intuitive handling with the first touch● The Ø 8.5mm camera head and the 120 cm camera cable are perfect for minor works and are maximizing the pace of work● Electronical 180° rotation for the perfect perspective in every situation● Waterproofed camera head● Tool less mounting of accessories like the magnet or 90° mirror	
TECHNICAL DATA	
Dimensions:	152 x 90 x 40 mm
Display size:	2.5"
Cable length:	1.2 m
Cable-Ø:	5.5 mm
Cable head-Ø:	8.5 mm
Leveling:	180°
Storage:	30 pictures

Adjustable illumination

7 light levels for best lighting conditions

Ø 8.5 mm waterproof camera head

Perfect working conditions in small diameters

1.2 m camera cable

For quick and easy inspection

180° rotatable picture

Fast and precise analysis on a 2.5" display with triple zoom

Included belt clip

Comfortable wear

Space-saving storage

Camera cable can be easily wound up around the housing

Accessories included

Integrated magnet for catching metal pieces and mirror for the perfect view in a 90° bow

Magnet-accessory

Mirror-accessory



Set (No. 1000002268) includes: ROSCOPE mini basic unit, mirror and magnet accessories, 4x AA batteries, ROBOX B2350 (No. 1500002641)		
Model		No.
ROSCOPE mini set	1	1000002268

Inspection & locating

Video inspection

ROSCOPE i2000

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



Product profile	
APPLICATION AREA	
The ROSCOPE i2000 covers almost all inspection techniques within living and working spaces. Camera and locating modules allow a multifunctional use. WiFi technology enables a quick and easy data transfer.	
KEY FEATURES	
<ul style="list-style-type: none">● User-friendly touchscreen monitor and simple menu guidance● Easy data transfer for subsequent processing● Audio recording and playback possible without further equipment● USB charging function	
TECHNICAL DATA	
Display:	3.5" touchscreen (color)
Video format:	AVI
Picture format:	JPEG, 640 x 480 pixels
Connection:	Mini-USB, AV-Out, SD-card slot
Power supply:	Li-ion battery 3.7 V / 5.2 Ah

Versatile and user-friendly!

- 3.5" touchscreen**
640 x 480 pixel resolution (JPEG)
- Ergonomic handling**
Function keys arranged closely together
- Slip-free handle**
For comfortable and effort saving operation - even over long periods of time



- Compatible connection**
Previous ROTHENBERGER modules can be used
- WiFi**
Easy data transfer to mobile devices
- SD-card slot**
Memory space for audio, video and image data
- Integrated microphone**
- Integrated speaker**
For audio playback
- Powerful Li-ion battery**
For an extra long battery life and short charging times

Modular concept:

4 different modules for the ROSCOPE i2000 basic unit, for visual inspection of pipes and hollow spaces as well as locating of pipes and sondes.

ROSCOPE i2000 App

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

Module TEC

Self-leveling camera for the inspection of hollow spaces and hard to reach areas

Module 25/ 16 & 25/ 22

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

Module ROLOC PLUS

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

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

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

Inspection & locating

Video inspection

ROSCOPE i2000 module TEC

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

Product profile	
KEY FEATURES	
● User-friendly touchscreen monitor and simple menu guidance	
● Self-leveling camera head	
● Recording and playback of the inspection on video (AVI) or photo (JPEG)	
● Waterproof camera head as per IP 68	
TECHNICAL DATA	
Display:	3.5" touchscreen (color) (technical data about basic unit available on page 208)
Camera head:	Ø 17 mm, self-leveling and waterproof, with 4 LED lights
Brightness:	100 LUX (0.5 m)
Cable length:	1 m
Power supply:	Li-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, plastic carrying case

Model		No.
ROSCOPE i2000 module TEC	1	1500000696
Module TEC (without basic unit)	1	69601
Set (hook, magnet, mirror)	1	69615

Self-levelling camera head



No. 69615

Inspection of hollow spaces



Camera head with high-performance LEDs



ROSCOPE i2000 module 25/22

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

Product profile	
KEY FEATURES	
● Recording and playback of the inspection on video (AVI) or photo (JPEG)	
● Extremely flexible camera head for 90° bends starting from Ø 40 mm	
TECHNICAL DATA	
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. 1000000860) includes: ROSCOPE i2000 basic unit, module 25/22, module TEC, charger, plastic carrying case

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

Cable length: 22 m!



Inspection of rain downpipes



Inspection of floor drains



Inspection & locating

Video inspection

ROSCOPE i2000 module 25/16

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

Product profile	
KEY FEATURES	
● Recording and playback of the inspection on video (AVI) or photo (JPEG)	
● Extremely flexible camera head for 90° bends starting from Ø 50 mm	
● Can be used with guide skid up to Ø 100 mm	
● Self-leveling picture	
● Integrated transmitter for the precise locating of the camera head	
● ROSCOPE i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module	

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

Simple locating of the camera head with the integrated transmitter!

3.5" touchscreen
640 x 480 Pixel resolution

Battery compartment
For the power supply of the integrated transmitter (2 AA batteries included in delivery)

Rubberized base
Stable stand without slipping and damaging the surface

Inspection of access line



Inspection of rain drainpipes



WiFi
Easy data transfer to mobile devices

Integrated transmitter
For the precise locating of the camera head

Self-leveling camera head
Picture is always upright, no loss of orientation

Guide skid for module 25/16 and 25/22
For centring of the camera head, better illumination of the pipe



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	1	1000000842
Module 25/16 (without basic unit)	1	1500000052
Guide skid for module 25/16 and 25/22	1	74629

ROSCOPE i2000 module ROLOC PLUS

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

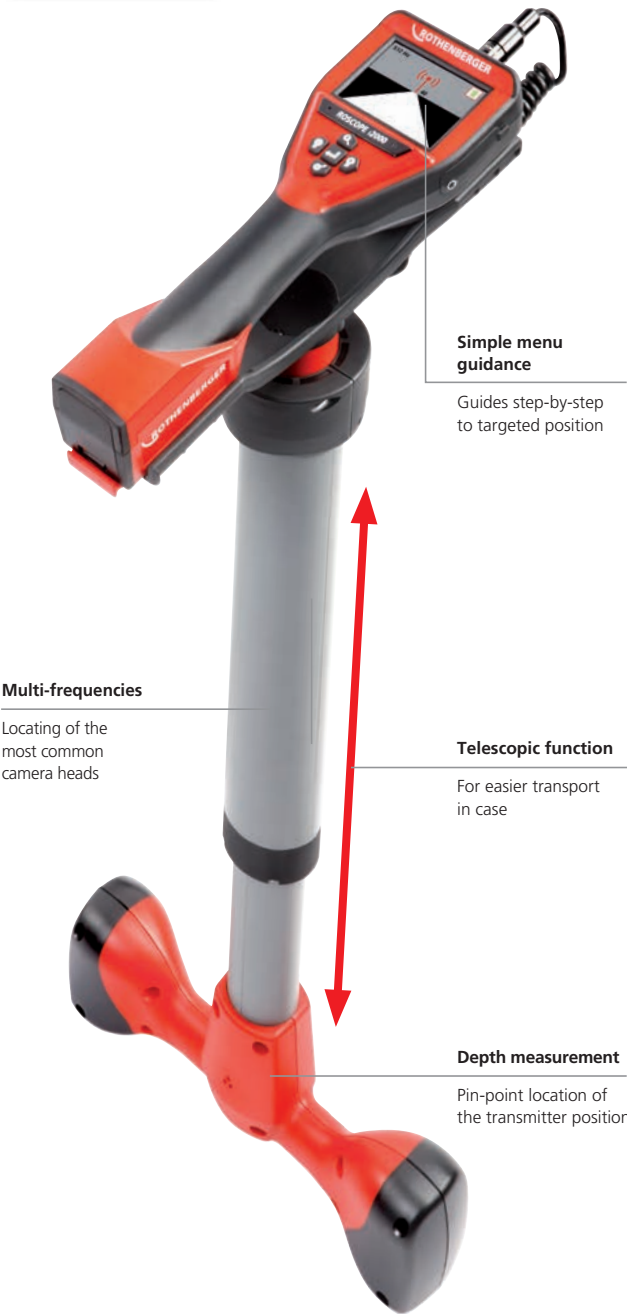


Product profile	
KEY FEATURES	
<ul style="list-style-type: none">● Pin-point location of the sonde● Precise depth measurement● Different frequencies can be chosen● Simple and clear menu design guides step-by-step through the locating process● Telescopic function makes transporting in case easier	
TECHNICAL DATA	
Display:	3.5" touchscreen (color) (technical data about basic unit available on page 208)
Frequencies:	512 and 650 Hz, 33 kHz active/passive, 50/60 Hz passive
Power supply:	Li-ion battery 3.7 V / 5.2 Ah
Dimensions:	95 x 32 x 30 cm (operating mode) 67 x 32 x 9 (transportation mode)
Weight:	1.4 kg

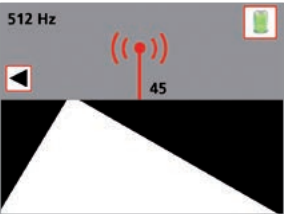


Easy to use pipe and sonde locating device incl. precise depth measurement

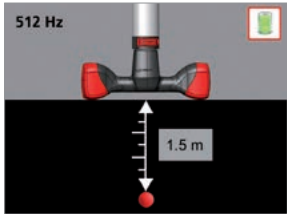
Also for use with
ROCAM 4 Plus



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



Depth measurement with a push of the button



Set ROSCOPE i2000 module ROLOC PLUS (No. 1000000065) includes: ROSCOPE i2000 basic unit, module ROLOC PLUS; module TEC, charger, plastic carrying case			
Model			No.
ROSCOPE i2000 module ROLOC PLUS	1	1000000861	
+ module TEC			
Module ROLOC PLUS (without basic unit i2000)	1	1500000057	

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

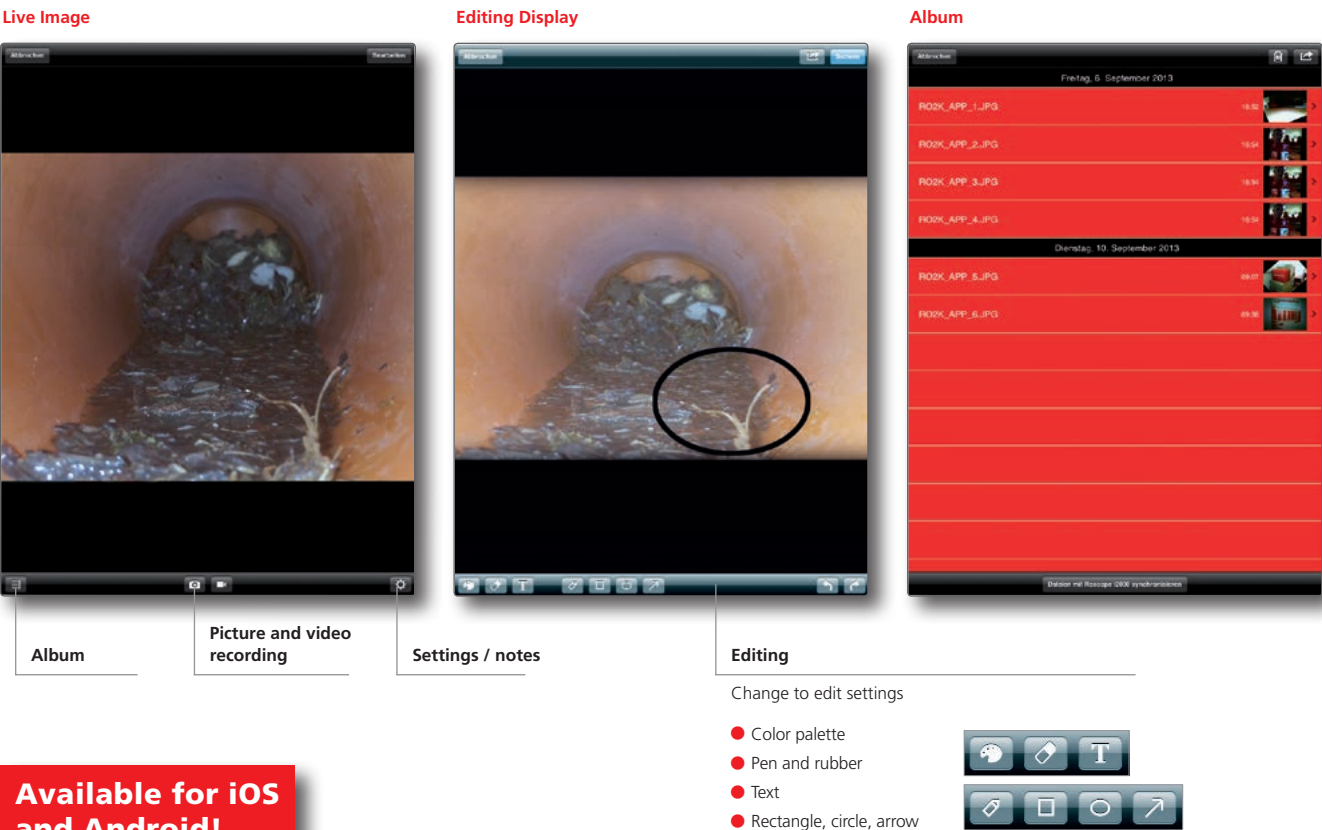
ROSCOPE i2000 & ROCAM 4 Plus app

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



Product profile	
KEY FEATURES	
<ul style="list-style-type: none">● WiFi-transmitter allows a image transfer live from the ROSCOPE i2000 to mobile devices● Integrated editing function to mark and name specific pipeline damages● Synchronizing of stored images of the ROSCOPE i2000 to allow further processing● Sending of edited pictures directly from the place of action	

TECHNICAL DATA	
ROSCOPE i2000:	
Compatibility:	iOS 5.1 or newer, Android 4.0 or newer
Size:	4.1 MB
ROCAM 4:	
Compatibility:	iOS 8.1 or newer, Android 4.0 or newer
Size:	12 MB



Available for iOS
and Android!



Inspection of basin drains



Sending of edited pictures directly from the place of action

Inspection & locating

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 & 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-Ion battery 18 V/4 Ah
Main adaptor 110 - 230 V, 50 - 60 Hz (optional)



Li-Ion battery 18V/4.0 Ah
(same as ROMAX 4000)

Long battery operation
time (up to 6 hours)

Digital metre count
Precise determination of
distance to camera head

Exchangeable reel system
30 m / 8 m

Large operating range from
Ø 40 mm pipe diameter

Cover protected connections for
SD-Card, Micro-Hdmi, Mini-USB



Locating with ROSCOPE module
ROLOC PLUS



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

Model	No.
ROCAM 4 Plus - 30 m cable, 30 mm head, EU	1500002613
ROCAM 4 Plus - 30 m cable, 40 mm head, EU	1500002614
ROCAM 4 - Mini-module, 8 m, 25 mm camera head	1500001472

Inspection & locating

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.



Exchangeable reel system
65 m/30 m/8 m

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



Set (No. 1500002615) includes: ROCAM 4 Plus - 65 m cable w/ transport trolley, Ø 30 mm camera head, rolling skid, accessory bag including: location transmitter, USB-cable, pencil, RO BC14/36 battery charger, RO BP18/4, 4.0 Ah 18V Li-Power battery

Model	No.
ROCAM 4 Plus - 65 m cable, 30 mm head, EU	1500002615
ROCAM 4 Plus - 65 m cable, 40 mm head, EU	1500002616
ROCAM 4 - 8 m Mini-module, 25 mm camera head	1500001472

Mini-Modul ROCAM Plus 4

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

Product profile

KEY FEATURES

- Professional inspection of small pipe diameters
- Easy handling due to Exchange reel system

TECHNISCHE DATEN

Camera head: Ø 25 mm, waterproof with 8 LED lights

Working range: Ø 40 - 100 mm

Cable length: 8 m Mini-module

Cable diameter: 5.5 mm

Model	No.
Mini-module ROCAM 4 Plus	1500001472



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

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

ROCAM 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° curveability in pipes up to Ø 70 mm when enough stability is provided
- Pressure tight up to 3 bar with the stainless steel casing
- Scratch and impact resistant with the sapphire glass objective

KEY FEATURES

Mountable transmitter:

- Optional 33 kHz transmitter can be used to determine the length of the camera head (90° from Ø 70)
- In small pipe diameters the transmitter can also be used without the camera head to determine the course of the pipe without a visual inspection

TECHNICAL DATA

Camera head:

Ø 30 mm with 10 LED lights

Ø 40 mm with 36 LED lights

self-leveling and waterproof

Brightness:

175 LUX (0.5 m), camera head Ø 30 mm

666 LUX (0.5 m), camera head Ø 40 mm

Always an upright picture!



Excellent illumination

Pressure tight screw slip-ring connection

Model

No.

Camera head Ø 30 mm

1500000123

High flexibility and durability

Mountable transmitter

Model

No.

Camera head Ø 40 mm

1500000122

Rolling skids

Recommended for distances from 10 m

APPLICATION AREA

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

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

KEY FEATURES

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



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

Brush attachments

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

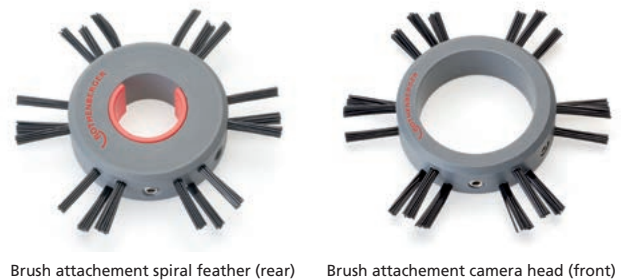
APPLICATION AREA

Brush attachment Ø 100 for use in pipe Ø 100 - 150 mm

Brush attachment 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



*Use with guide skid No. 69112 / 1500000817

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

Rolling skids ROCAM 4 Plus

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

APPLICATION AREA

Guide skid for pipe diameters Ø 70 - 150 mm

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

KEY FEATURES

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



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

Battery pack system CAS, mains adaptor & charger

KEY FEATURES

- Extend the mobile operation spare battery
- No unintentional release of the battery, battery lock with click mechanism
- External battery charger, independent charging of the battery, higher mobility

TECHNICAL DATA

Battery: 18 V / 4.0 Ah, Li-Ionen

Model

No.

RO BP18/4, 4.0 Ah 18V Li-Power battery

1 1000001653

RO BC14/36, battery charger, 230 V, EU

1 1000001654

ROCAM 4 Plus adaptor, 230 V, EU



1 1000002085



Flushing & pipe cleaning

System overview	214 - 215
Flushing	
Flushing compressors	216 - 218
Cleaning chemicals	218
Decalcifying	
Decalcifying pumps	219
Decalcifying chemicals	220
Pipe cleaning manual	
Manual pipe and drain cleaning devices	222 - 224
Pipe cleaning electric	
Manual pipe and drain cleaning machines	225
Sectional drain cleaning machines	226 - 227
Drum drain cleaning machines	228 - 231
Pipe & sewer cleaning machines	232 - 233
Accessories pipe cleaning electric	234 - 235
Drain cleaning spirals	
Spirals	236 - 237
Drain cleaning tools	
Heads & augers	238 - 242
Tool & spiral sets	243 - 244
Accessories drain cleaning spirals	245
System overview high pressure drain cleaners	246
High pressure drain cleaning	
High pressure drain cleaners	246 - 247

Flushing

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

Pipe cleaning





	WC-Blitz	ROPOWER HANDY	ROSPIMATIC CL	ROSPI 6 H+E Plus	ROSPI 8 H+E Plus
					
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 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
					
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:	8**/ 10**/ 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

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 cleaning

	ROSPI 10 H+E Plus	RODRUM S 10	Manual drain cleaner 3 S	RODRUM S 13
				
Operation mode:	manual / electric	electric	manual	electric
Working range:	Ø 20 - 70 mm	Ø 40 - 70 mm	Ø 50 - 100 mm	Ø 50 - 100 mm
Max. spiral length:	10 m	10 m	15 m	15 m
Spiral diameter:	10 mm	10 mm	13 mm	13 mm
Power:	–	440 W	–	440 W
Page:	223	228	224	228

	R 650	R 750	RODRUM L 20	R 80	R 100 SP	R 140 B
						
Operation mode:	electric	electric	electric	electric	electric	fuel
Working range:	Ø 20 - 150 mm	Ø 50 - 200 mm	Ø 70 - 250 mm	Ø 70 - 250 mm	Ø 70 - 250 mm	Ø 100 - 600 mm
Max. spiral length:	65 m	80 m	60 m	80 m	100 m	140 m*
Spiral diameter:	8**/ 10**/ 16/ 22 mm	16**/ 22 mm / 32 mm	20 mm	22**/ 32 mm	22 / 32 mm	32 mm / rod system
Power:	1,350 W	1,400 W	620 W	1,400 W	1,400 W	4,800 W
Page:	227	227	230	232	232	233

Flushing & pipe cleaning

Flushing

ROPULS eDM flushing compressor

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



Product profile

- KEY FEATURES**
- **One unit – three uses** for safety and energy efficiency:
 - Flushing of floor heating systems / heating circuits
 - Flushing of drinking water pipes as per DIN 1988-2/EN 806
 - Sanitizing of drinking water pipes
 - Compact dimensions and practical carriage for simple handling during transport and at the building site
 - Two flushing speeds (impulse and permanent air flushing) for good cleaning results
 - Easy to use with the clearly arranged control panel
 - Chemical cleaning with ROCLEAN accessories possible
 - Free app for easy, professional creation of flushing-protocols 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



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

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

Model	kg	No.
ROPULS eDM flushing compressor with hoses	28	1000001134

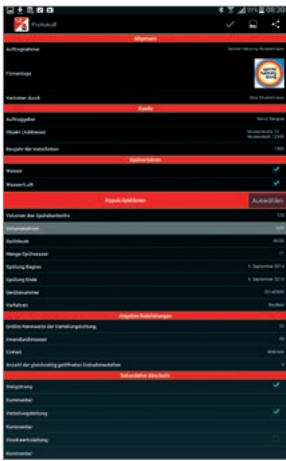
Flushing & pipe cleaning

Flushing

ROPULS eDM App

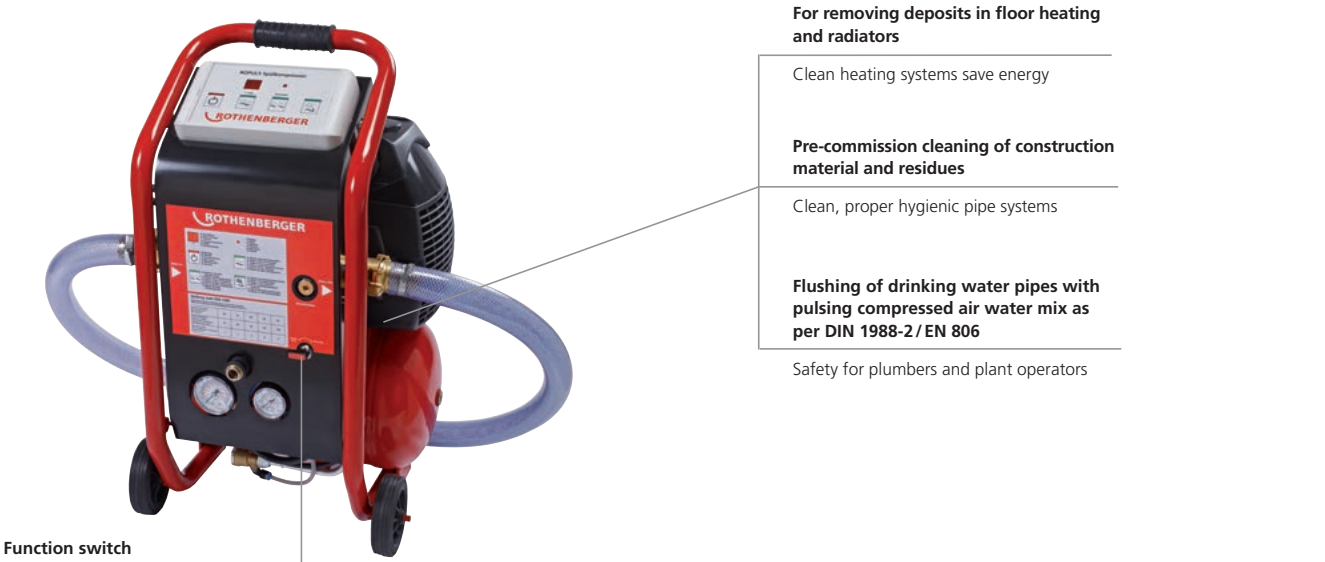
Professional working and documentation due to eDM (electronic Data Management)

- 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)



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

Scope of delivery (No. 1000001145): ROPULS flushing compressor, 2 x 1 m fabric hose 1" with GK coupling

Model	kg	No.
ROPULS flushing compressor with hoses	28	1000001145

ACCESSORIES

Model	No.
ROCLEAN Injector	1000000190
Pressure regulator 2 bar	1500000203
ROCLEAN cleaning and conservation on page 218	



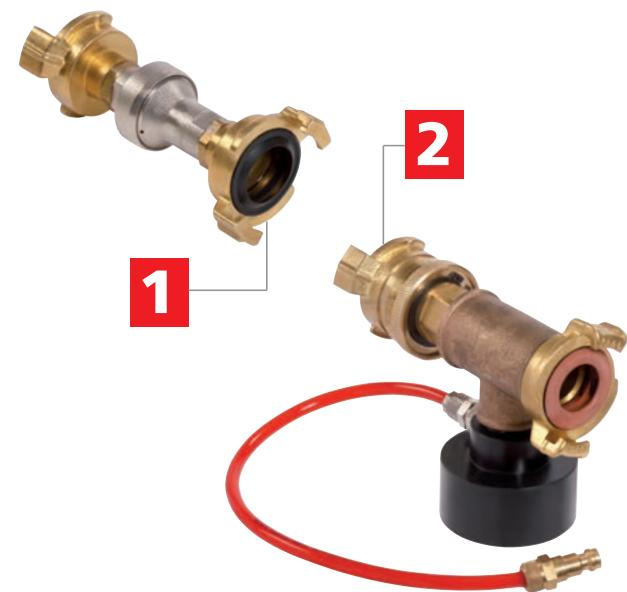
¹⁾ Complete terms and conditions at rothenberger.com/roservice
RO SERVICE+ only valid in participating countries
²⁾ Only for Android devices

Flushing & pipe cleaning

Flushing

ROCLEAN function

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



- 1

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

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



Model	kg		No.
ROCLEAN injector	1.1	1	1000000190
Pressure regulator 2 bar	0.3	1	1500000203

Cleaning and preservation with ROCLEAN

Cleaning chemicals for radiator heating systems



For cleaning incrustations and tough deposits. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



Cleaning chemicals for surface heating systems



For cleaning of deposits and bio films. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



Preservative for radiators and surface heating systems



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



Disinfection of drinking water systems



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



Cleaning and preservation steps:

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

Model	Color code	kg		No.
ROCLEAN injector		1.1	1	1000000190
Pressure regulator 2 bar		0.3	1	1500000203
Chemical cleaning:				
– Radiator heating systems		6.3	6	1500000200
– Surface heating systems		6.3	6	1500000201
Preservative		6.3	6	1500000202
Disinfection		6.3	6	1500000157

Flushing & pipe cleaning

Decalcifying

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
<ul style="list-style-type: none">With the help of the flow reversal (change of the direction of flow) even very hard calcifications and deposits can be loosenedOnly ROMATIC: Running time of the pump and flow reversal can be programmed, which enables comfortable operationApproved for fluid temperatures up to 50 °C for especially efficient decalcifyingConstant circulation of the decalcifying chemical prevents damage that can be caused by the development of gas during decalcification

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



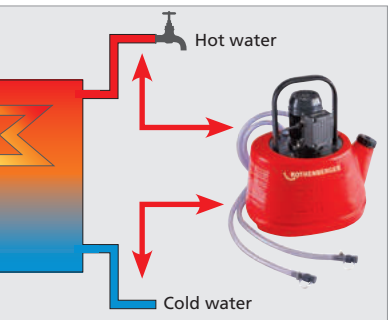
Fig. ROCAL 20



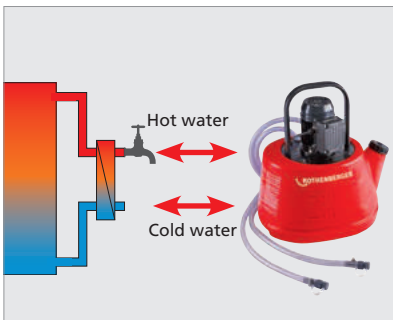
Fig. ROMATIC 20

Automatic flow reversal!

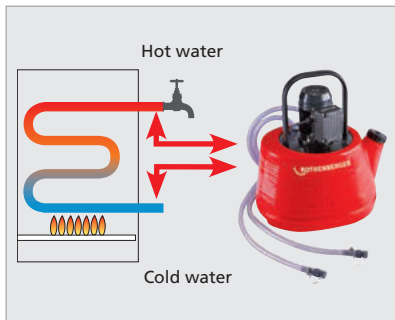
Decalcifying of drinking water storage tanks



Decalcifying of fresh water stations and external heat exchangers



Decalcifying of heat exchangers, water heaters or drinking water pipes



Scope of delivery: ROCAL 20 (No.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	kg		No.
ROCAL 20	6	1	61100
ROMATIC 20	6	1	61190

ACCESSORIES

Decalcifying chemical for ROCAL 20, ROMATIC 20 see 220



Flushing & pipe cleaning

Decalcifying

ROCAL Acid Multi / Plus

Decalcifying chemical for use with ROCAL 20, ROMATIC 20

Product profile

RANGE OF USE

ROCAL Acid Multi

For the safe decalcification of all piping systems, heat exchangers, fresh water stations and water tanks

ROCAL Acid Plus

For strong calcifications and scale build-up. Only suitable for technical systems. Not suitable for drinking water pipes.



	ROCAL Acid Multi	ROCAL Acid Plus
Copper	●	●
Steel	●	●
Stainless steel	●	—

● suitable - unsuitable

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

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



	ROCAL Acid Multi	ROCAL Acid Plus
Aluminium	●	—
Brass	●	—
Plastic	●	—

● suitable - unsuitable

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

Neutralizer powder

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

Product profile

RANGE OF USE

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

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



Flushing & pipe cleaning

Filling

ROSOLAR PUMP / ROSOLAR PUMP PLUS

Solar filling pump

Product profile

KEY FEATURES

- A powerful centrifugal pump for rapid filling and effective flushing out and ventilation of solar plant
- Optional: robust and heat resistant (up to 90°C) Impeller pump: small particles of solid materials are also conveyed without difficulty. Fitted with a pressure relief valve
- Heat resistant hoses (up to 100°C) allow safe filling and maintenance of solar plant
- A height-adjustable (76-110 cm) telescopic grip for spacesaving storage, simple transport and good handling in tight 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
- Ball valves for safe removal of filling hoses without accidental spill

TECHNICAL DATA

Dimensions (H x W x D): 49 x 51 x 76 cm

Container volumes: 30 l

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

A generously dimensioned container opening

For easy and secure filling

Optional: A fleece filter bag

For preservation of the internal filter when flushing older plants with strong pollution

A dirt filter with sight glass

Filters residues out of the medium



Height-adjustable telescopic grip (76-110 cm)

Small and flexible if required

Heat resistant hoses (up to 100°C)

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

Optional: impeller pump

Small particles of solid materials are also conveyed without difficulty

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



ROPUMP SUPER PLUS

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

Product profile
KEY FEATURES
<ul style="list-style-type: none">● Optimal adaption to the job due to adjustable handle● Good force transmission with ergonomic handles● Optimal sealed system and therefore high suction and pressure power with single cast main body

Quick – Compact – Handy!

KEY FEATURES
<ul style="list-style-type: none">● Simple handling with the perfect adaption to the drain and easy to use with ergonomic formed components





Model	kg		No.
ROPUMP SUPER PLUS with 2 adaptors (long, short)	2.00	1	072070X
ROPUMP SUPER PLUS 3 adaptors (long, short, wide) and toolbag	3.30	1	1000001762
Adaptor long	0.66	1	72071
Adaptor short	0.16	1	72072
Adaptor wide	0.40	1	72073

ROPUMP

Force pump cleaner according to the air-pump principle with water pressure



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

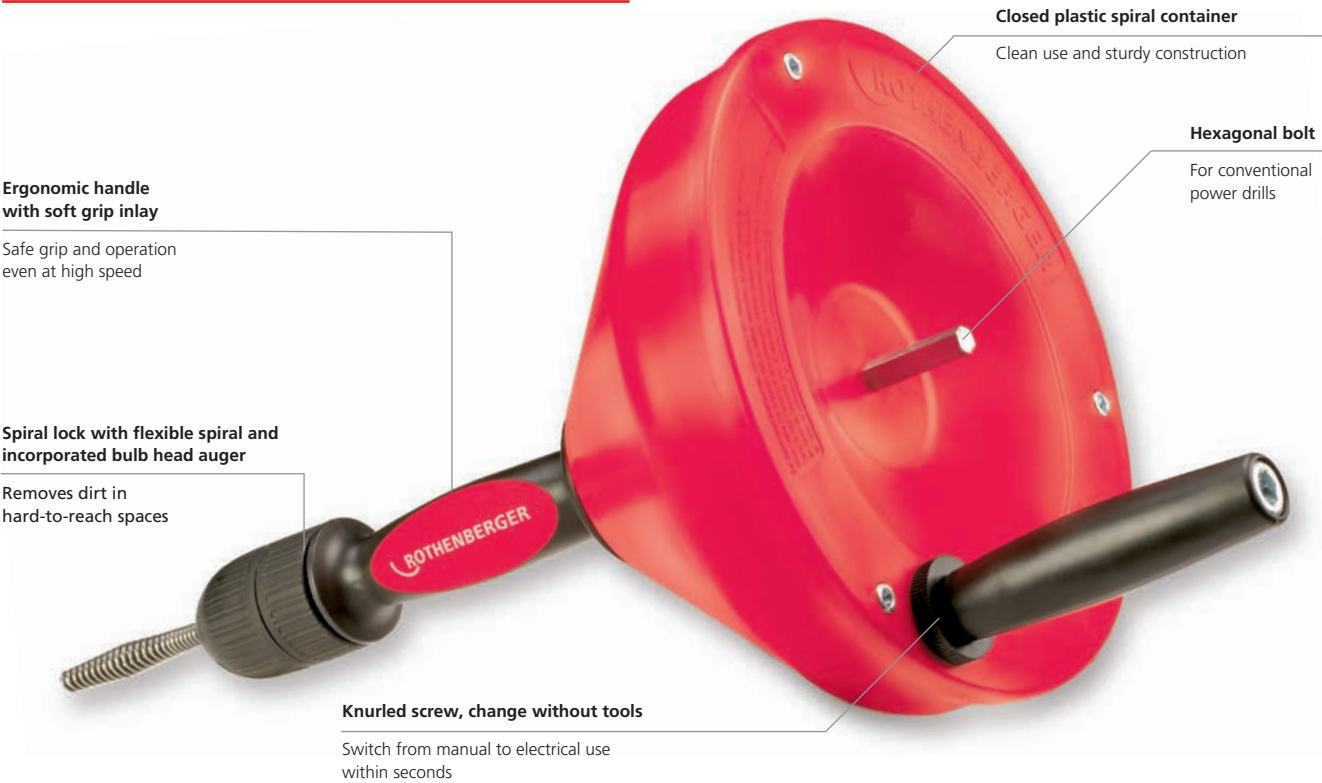
Product profile			
KEY FEATURES			
<ul style="list-style-type: none">● Small and handy● Compact and effective			
Model	 g		No.
ROPUMP with flexible socket	500	1	71991

ROSPI H+E PLUS

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

Product profile
KEY FEATURES
<ul style="list-style-type: none">● Removal of sinks and siphon filters is not necessary● Switch from manual to electrical use within seconds● Secure hold even at higher speeds during drill operation● Impact-resistant and protected from dirt contamination● Hexagonal drive for conventional power drills

TECHNICAL DATA	
Working range:	20 - 50 mm
Spiral:	Ø 8 mm x 7.5 m



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



ROPOWER HANDY

Manual drain cleaning unit, Ø 50 - 100 mm

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

KEY FEATURES

- Additional spiral cleaning effects with the use of a square spiral



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

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

Manual drain cleaner type 3 S

For pipes Ø 40 - 100 mm
Spirals Ø 13 mm x 15 m with 16 mm coupling

KEY FEATURES

- Flexible use with a wide range of applications
For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings
- Cleaning unit with stand
Secure use
- Plastic spiral drum
Corrosion-proof and impact-resistant



Set includes (No. 72003): manual drain cleaner type 3 S (No. 72003), spirals Ø 13 mm x 15 m (No. 72016), cross-blade cutter Ø 35 mm (No. 72176) and separating pin (No. 72100)

Model	kg		No.
Manual drain cleaner type 3 S, complete	17.50	1	72003
Spare spiral Ø 13 mm x 15 m	7.00	1	72016
Cross-blade cutter Ø 35 mm	0.04	1	72176
Separating pin	0.01	1	72100

Further Ø 16 mm tools can be found on 238

WC-BLITZ RO-3 toilet auger

KEY FEATURES

- Flexible use even in hard-to-reach places
With tough cleaning bulb auger. Extendable handle and 1 m spiral length, Ø 1/2"
- No damage to ceramic surfaces
Angle made out of plastic

Angle with plastic protection

No damage to ceramic surfaces in the visual range



Model	kg		No.
WC-Blitz RO-3 complete with spiral	2.75	1	78551
WC-Blitz RO-3 with tool coupling	2.90	1	1500001324

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

Locking knob with torque limit

No squeezing of the spiral



Set (No. 1000002299) includes: ROSPIMATIC CL set incl. spiral 8 mm x 7.5 m with bulb head (No. 72413), spiral 8 mm x 7.5 m with coupling (No. 72425), cross-blade auger (No. 72765) and separating key (No. 72102)

Set (No. 72942) includes: blade cutter (No. 72764), cross-blade cutter (No. 72765), ball head cutter (No. 72766), separating pin (No. 72102)

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



TECHNICAL DATA

Application range:	20 - 50 mm
Spiral with inner-core & Bulb auger:	Ø 8 mm x 7.5 m
Dimensions (without spiral):	420 x 200 x 200 mm

Compact design without power unit

Little required space

Hexagonal take-up for battery drill

Dual use for customer's own drill

Easy connection to professional cordless drill driver



For additional accessories see 234

Flushing & pipe cleaning

Pipe cleaning electric



Model		230 V	110/115 V
R 550 w/ guide hose	16.0	72686	72631
Tool sets and accessories starting on	234		

R 550

Drain cleaning machine for pipe Ø 20 - 100 mm

Reliable, high-performance drain cleaning machine with a variety of general purpose maintenance uses

Product profile	
APPLICATION AREA	
Especially light, compact and handy design: Ideal for the universal service use by pipe obstructions in connecting pipes from wash basins, toilets, sewage pipes, floor drains and roof drainage	
KEY FEATURES	
<ul style="list-style-type: none">Extremely lightDirect attachment of 16 mm spiralsOptional Ø 8 and 10 mm with adaptor magazine possibleMaximum working length 40 m, with Ø 16 mm S-spiral	
TECHNICAL DATA	
For pipe diameters:	Ø 20 - 100 mm
Direct attachment:	Ø 16 mm spirals
With adaptor magazine:	Ø 8 mm and 10 mm
Max. working length:	40 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals
Rating:	440 W (power input)
Voltage:	230 / 110 / 115 V, 50 Hz
Speed:	583 rpm, RH and LH drive
Weight:	16.0 kg

R 650

Drain cleaning machine for pipe Ø 20 - 150 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

Product profile	
APPLICATION AREA	
Perfectly suited for rough use and in extreme working conditions: Quiet operation and powerful cleaning action, even when cutting through roots or grinding out cement and lime deposits	
KEY FEATURES	
<ul style="list-style-type: none">Double motor performance (cp. R 600)Flexible with drive lever that can be fitted on the sideDirect up take of 22 mm and 16 mm spiralsOptional Ø 8 and 10 mm with adaptor magazine possibleMaximum working length 65 m, with Ø 22 mm S-spiral	
TECHNICAL DATA	
For pipe diameters:	Ø 20 - 150 mm
Direct attachment:	Ø 22 and 16 mm spirals
With adaptor magazine:	Ø 8 mm and 10 mm
Max. working length:	65 m with Ø 22 mm S-spirals 55 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals
Rating:	1,350 W (power input)
Voltage:	230 V, 50 Hz
Speed:	623 rpm, RH and LH drive
Weight:	22.8 kg



Model		230 V
R 650 w/ guide hose	22.8	72688
Tool sets and accessories starting on	234	

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	
<ul style="list-style-type: none">Direct up take of 16 mm and 22 mm spiralsOptional Ø 8 and 10 mm with adaptor magazine possibleMaximum working length 50 m, with Ø 16 mm S-spiralsMaximum working length 60 m, with Ø 22 mm S-spirals	
TECHNICAL DATA	
For pipe diameters:	Ø 20 - 150 mm
With direct attachment:	Ø 22 and 16 mm spirals
With adaptor magazine:	Ø 8 and 10 mm
Max. working length:	60 m with Ø 22 mm S-spirals 50 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals
Rating:	690 W (power input)
Voltage:	230 / 110 / 115 V, 50 Hz
Speed:	467 rpm, RH and LH drive
Weight:	20.9 kg

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	
<ul style="list-style-type: none">Drive lever can be rotated (180°), locked and used as a handle for easy wheelingDirect up take of 32 mm and 22 mmOptional Ø 16 mm with clutch jaw possibleMaximum working length 80 m, with Ø 32 mm S-spirals	
TECHNICAL DATA	
For pipe diameters:	Ø 20 - 200 mm
With direct attachment:	Ø 32 and 22 mm spirals
With clutch jaw:	Ø 16 mm
Max. working length:	80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals 55 m with Ø 16 mm S-spirals
Rating:	1,400 W (power input)
Voltage:	230 V, 50 Hz
Speed:	467 rpm, RH and LH drive
Weight:	33.5 kg



Model		230 V
R 750 w/ guide hose	33.5	72689
Tool sets and accessories starting on	234	

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

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

Flushing & pipe cleaning

Pipe cleaning electric

RODRUM S

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

Product profile
KEY FEATURES
<ul style="list-style-type: none">● 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
<ul style="list-style-type: none">● Flexible use: Drum interchangeable for different pipe diameters● Easy to use: Feeding and pressure relief with single handle● Clean: Spiral in detachable drum

Interchangeable drum

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



Flushing & pipe cleaning

Pipe cleaning electric



APPLICATION AREA
<ul style="list-style-type: none">● Compact construction: Ideal for service deployment to unblock pipes in connecting pipes of wash basins, toilets, drainage pipes, floor drainage● On retraction the dirty spiral moves back into the spiral drum. Due to its clean and discrete operation, the machine is best suited for SHK-companies and their services in private houses, hospitals and clinics, gastronomy and hotels, Facility Management and public buildings

TECHNICAL DATA	
Working range/pipe diameter:	Ø 40 - 100 mm
Max. working length:	10 m (with 10 mm Spirals) 15 m (with 13 mm Spirals)
Power (input):	440 W
Speed (drum):	300 rpm
Product dimensions:	58 x 33 x 39 cm

Cleaning of floor drain with 13 mm spiral



Convenient transport thanks to detachable drum



Interchangeable drum for different working ranges



Model	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

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), separating 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), separating pin (No.72100), ROCASE (No. 1300003334) with inlay (No. 1300003372)

ACCESSORIES		
Model	kg	No.
RODRUM S 10 Drum	5.5	1000001275
RODRUM S 13 Drum	11.4	1000001276
Tool kit 16 mm	5.5	1000001308
Spirals, Drain cleaning tools 236		



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

Flushing & pipe cleaning

Pipe cleaning electric

RODRUM M & L

Drum drain cleaning machine with automatic spiral feed. For pipes from Ø 70–250 mm. Perfectly suited for use in public and commercial buildings as well as house connection pipes.



Product profile	
KEY FEATURES	
<ul style="list-style-type: none">● 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	
RANGE OF USE	
<ul style="list-style-type: none">● RODRUM M & 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 households, 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

Loading device

Ergonomic loading of the machine



Model		kg	230 V 50 Hz
RODRUM M 13	spirals 13 mm x 15 m, incl. 16 mm tool kit	45.5	1000001711
RODRUM M 16	spirals 16 mm x 15 m, incl. 16 mm tool kit	50.2	1000001712
RODRUM L 16	spirals 16 mm x 15 m, incl. 16 mm tool kit	51.9	1000001713
RODRUM L 20	spirals 20 mm x 20 m, incl. 20 mm tool kit	68.0	1000001714



Flushing & pipe cleaning

Pipe cleaning electric

RODRUM M & L drums

Interchangeable spiral drums for quick and easy adaption of the machine to different pipe diameters or for extension of the spiral length.



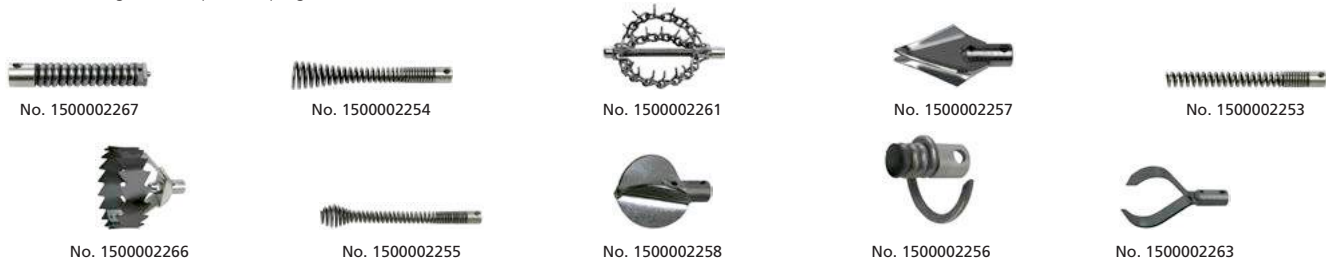
Model	kg	No.
RODRUM drum M 13 incl. spiral 13 mm x 15 m	14.5	1000001727
RODRUM drum M 16 incl. spiral 16 mm x 15 m	19.0	1000001728
RODRUM drum L 16 incl. 2 x spirals 16 mm x 15 m	38.7	1000001729
RODRUM drum L 20 incl. spiral 20 mm x 20 m	36.8	1000001730

ACCESSORIES

Model	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

Model	kg	No.
Forked cutter 80, 20 mm*	0.15	1500002263
Forked cutter 100, 20 mm*	0.20	1500002264
Two-way root cutter 65, 20 mm*	0.39	1500002265
Two-way root cutter 90, 20 mm*	0.46	1500002266
Adaptor, square-coupling to 22 mm T-coupling	0.25	1500002267
Spiral 13x15 with inner core	10.8	1500002271
Spiral 16x15 with inner core	15.5	72918
Spiral 20 mm x 20 m w. inner core & square coupling	33.5	1500002268
RODRUM tool kit 16 mm		1000001731
RODRUM tool kit 20 mm		1000001732

* all 20 mm augers with square coupling



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)

Loading device



Easy transport due to stair capable chassis



Cleaning of a down pipe with 16 mm spiral



Flushing & pipe cleaning

Pipe & sewer cleaning machines

Industrial pipe and drain cleaning machines

For continuous industrial use in pipe and drain cleaning Ø 50 - 600 mm

Ideal for use in the following sectors: private households, pipe networks in industry, municipal enterprises, maintenance organisations, hotels, hospitals, for underground pipes, industrial pipelines, drains, roof drainage etc.

- Extremely powerful, very resilient, for continuous industrial use
- Steel tubular frame with side elements made from fibreglass-reinforced polyamide
- Stable, dismountable and corrosion-resistant designs
- Secure and radial clamping, optimal power transmission and functional reliability, simple replacement of clamping jaws
- Reinforced guide hose with quick coupling ensures the safe and kink-free guiding of the spiral and prevents contamination of the working area.

R 80

One-man professional machine for pipes Ø 50 - 250 mm

Product profile	
KEY FEATURES	
● Small, compact design permits the machine to pass through doorways	
● Portable and easy to navigate stairs	
● Transports easily in any service vehicle, collapsible	
● Ideal for manhole inspections through defined working height	
● Fatigue-free clamping when working with large spiral diameters and lengths	
● Integrated, spacious toolbox	
TECHNICAL DATA	
For pipe diameters:	Ø 50 - 250 mm
For drain cleaning spirals:	Ø 22 and 32 mm (32 mm clutch jaws standard)
Max. working length:	80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals
Rating:	1.4 kW (1.9 HP) RH / LH rotation
Weight:	52 kg



Includes: basic machine, grease gun (No. 855156), allen keys (1 x No. 321515, 1 x No. 321188, 1 x No. 321189), open-ended spanners (1 x No. 310411, 1 x No. 310450)		
Model	kg	230 V 50 Hz
R 80 basic machine	52.0	72585

R 100 SP

One-man professional machine for pipes Ø 50 - 250 mm

Product profile	
KEY FEATURES	
● Ideal for confined spaces such as skylights or ducts	
● Portable and easy to navigate stairs	
● Adjustable working heights, foldable	
● Extendable supporting feet	
● Transports easily in any service vehicle	
TECHNICAL DATA	
For pipe diameters:	Ø 50 - 250 mm
For drain cleaning spirals:	Ø 22 and 32 mm
Max. working length:	100 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals
Rating:	1.4 kW (1.9 HP) RH / LH rotation
Weight:	57 kg



Includes: basic machine, grease gun (No. 855156), allen key (No. 321515), open-ended spanners (No. 310450)		
Model	kg	230 V 50 Hz
R 100 SP basic machine	57.0	72610

R 80 / R 100 SP - ACCESSORIES		kg	No.
Guide hose FS 32 / 4 m		4.1	72559
Clutch jaws R 80 / 100 SP for 22 mm-Spirals		0.4	72561
Clutch jaws R 80 / 100 SP for 32 mm-Spirals		0.3	72562
Spirals and accessories see 234			

Flushing & pipe cleaning

Pipe & sewer cleaning machines

R 140 B

For municipal and industrial applications Ø 100 - 600 mm

Petrol engine 4,8 kW

Product profile	
KEY FEATURES	
● Effortless conversion from spiral to rodding operation Working range from Ø 100 - 250 mm with 32 mm spirals Working range from Ø 150 - 600 mm with bar	
● Petrol engine, independent from electric power supply	
● Ideal for rodding work in rural area pipes	
● Extremely powerful reversible drive	
● 1 forward and 1 reverse gear	
● Speed controlled by means of a manual throttle	
● Manual slip clutch	
● With quick-change couplings for rodding tools	

Product profile	
TECHNICAL DATA	
For pipe diameters:	Ø 100 - 600 mm
For drain cleaning spirals:	Ø 32 mm
For rods:	Ø 6 mm, 3/4"
Max. working length:	100 m with 32 mm-spirals 140 m with rod
Rating:	4.8 kW (6.6 HPS), petrol engine
Motor:	RH / LH rotation
2 gear reversible drive speed:	160 - 600 rpm
Weight:	97 kg



Set includes: 25 x adaptor 3/4", 6 mm x 1,5 m (No. 78581), rod turning grip (No. 78580), tool adaptor for mounting 32 mm spirals (No. 72122), tool adaptor for 32 mm spiral rod coupling (No. H99569), rod tool adaptor (No. H99120), guide glove, left (No. 72120), guide glove, right (No. 72121), separating pin (No. 72101), funnel auger (No. 72322), straight auger (No. 72321), bulb auger, 32 mm (No. 72363), retrieving auger, 32 mm (No. 72325), spiral sawtooth cutter, 32 mm (No. 72329), cross-blade cutter, 32 mm (No. 72374), forked cutter, D=76 mm (No. 72350), forked cutter, D=112 mm (No. 72351), toolbox (No. 402312), allen key, AF 3 (No. 321118), allen key, AF 4 (No. 321189), allen key, AF 5 (No. 321190), open-ended spanners, SW 10/13 (No. 310450), open-ended spanners, SW 17/19 (No. 310411)

Model	kg	No.
R 140 with rod and tool set	108.50	72971
R 140 basic machine	97.00	72970
Push rod 3/4", Ø 6 mm, 1.5 m	0.25	78581
Funnel auger	0.25	72322
Straight auger	0.25	72321
Rod truning grip	0.56	78580
Retrieving auger	0.10	72325
Spiral sawtooth cutter	0.15	72329
Guide glove, left	0.21	72120
Guide glove, right	0.21	72121

Model	kg	No.
Separating pin	0.20	72101
Adaptor for 32 mm augers	0.10	72122
Forked cutter, Ø 76 length		72350
Forked cutter, Ø 112 length		72351
Guide hose FS 32 / length 4 m	4.10	72559
Standard 32 mm, spiral and tool set	41.00	72962X
More accessories see 234		

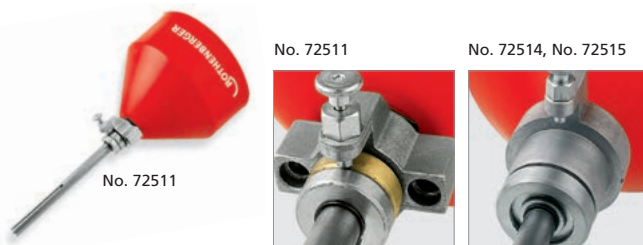
Flushing & pipe cleaning

Accessories pipe cleaning electric



Clutch jaws

For machine type	For spirals-Ø	kg	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	kg	No.
R 550	8 and 10 mm	10 m	1.3	72511
R 600/650	8 mm	10 m	1.8	72514
R 600/650	10 mm	10 m	1.8	72515



Clutch jaw for R 750

For machine type	For spirals-Ø	kg	No.
R 750	16 mm	0.3	72915



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



Ceramic protection hose

- For the protection of ceramic
- With adjustable holding clamp

For spirals	Length	kg	No.
Ø 8, 10, 16 mm	540 mm	0.4	72705



Tripod stand

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: inspection holes in downpipes
- Spiral retrieving device

For machine type	kg	No.
R 550 - R 600 - R 650 - R 750	3.0	58182

Flushing & pipe cleaning

Accessories pipe cleaning electric



Spiral retrieving device

- Safe feeding / retrieving of spirals in downpipes
- Suitable for all Ø 22 and 32 mm open-wound spirals
- Suitable as pusher unit for difficult obstructions
- Also suitable as adaptor for third-party equipment without problems
- With water supply connection (two 1" threaded couplings)
- Socket for tripod stand

Model	kg	No.
Spiral retrieving device	3.7	72135

Telescoping guide tubes

- No twisting: For safe spiral guidance in manholes and manhole covers

Model	Extended length m	Type	kg	No.
For spirals Ø 16, 22 mm	1.4 - 2.3	2 pieces	3.0	72130
For spirals Ø 22, 32 mm	1.9 - 4.3	3 pieces	10.0	72131



ROWONAL care and rust remover

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal



Model	Contents	g	No.
Spray can	0.2 l	220	72142
Plastic canister	5.0 l	5,100	72140

Spiral guide gloves

- For safe grasping and guiding of cleaning spirals

Guide gloves, leather:

- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove

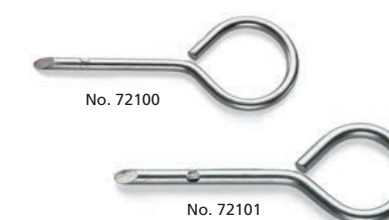


Model	g	No.
Guide gloves left, leather	190	72120
Guide gloves right, leather	190	72121
Guide gloves (pair), rubber	160	1500000439

Separating pin

- For disconnecting spirals and spiral tools

Model	g	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.	kg	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 mm	22.5 m	2.3	72111



Flushing & pipe cleaning

Pipe cleaning spirals

ROTHENBERGER high-performance drain cleaning spirals

For the toughest demands during continuous operation

Product profile

KEY FEATURES

- **Bevelled lead-ins on the T-groove coupling**
- Quick, trouble-free coupling even when wearing gloves
- **For the toughest demands even during continuous operation**
Different wire gauge can be chosen depending on use, high material characteristics, perfected production process
- **Maximum spring tension with high elasticity and flexibility**
Specially hardening process
- **Optimum high torque transmission**
Tightly wound spiral with short pitch
- **Increased spiral tension when machine turns clockwise and depending on the resistance of the obstruction**
Professional left-handed wound spiral

TECHNICAL DATA

Manufactured from quality spring steel, type C DIN EN 10270-1
Material No. 1.1200

Specially hardened and tempered

Safety T-groove coupling system with NIROSTA- pressure pin locking mechanism

Spring mounted NIROSTA pressure pin with NIROSTA spring



Sufficient connecting coil

Spare couplings can be mounted easily



Various wire gauges

Flexible, depending on use

Insertion taper

Simple coupling of spirals and tools



ROPOWER profile cable

Additional cleaning effect with the squared profile



Plastic core

Spiral won't clog with dirt



T-groove made of Nirosta steel

Long lasting and high functional safety with the high-quality coupling design

Spiral / type	Short distance many bends	Long distance straight run	No clogging of the spiral with dirt	Additional cleaning power
Standard spiral	●	○	○	○
SMK-spiral	●	○	●	○
S-spiral	○	●	○	○
S-SMK-spiral	○	●	●	○
ROPOWER profile	○	●	●	●

○ not suitable ● suitable

Flushing & pipe cleaning

Pipe cleaning spirals

ROTHENBERGER locking

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



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



Profile edge

50% more cleaning power when used with the spiral tools

mm	Core	Inch	L m	kg	No.
16	●	5/8"	2.3	1.3	72490
Safety T-groove couplings can be found on 245					

Standard spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



mm	Inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.0	C 8	1.05	72431
22	7/8"	4.5	4.5	C 10	3.98	72441
32	1.1/4"	4.5	5.0	C 11	6.29	72451
Safety T-groove couplings can be found on 245						

S-spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling



mm	Inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.5	E 8	3.00	72428
22	7/8"	4.5	5.0	E 10	4.18	72443
32	1.1/4"	4.5	6.0	E 11	6.80	72453
Safety T-groove couplings can be found on 245						

SMK-spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends
- Additional protection of the spiral from clogging with the plastic core



mm	Inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.0	C 8	1.24	72433
22	7/8"	4.5	4.5	C 10	4.64	72442
32	1.1/4"	4.5	5.0	C 11	7.63	72452
Safety T-groove couplings can be found on 245						

S-SMK-spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling
- Additional protection of the spiral from clogging with the plastic core



mm	Inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.5	E 8	1.30	72435
22	7/8"	4.5	5.0	E 10	4.78	72444
32	1.1/4"	4.5	6.0	E 11	7.85	72455
Safety T-groove couplings can be found on 245						

Flushing & pipe cleaning

Drain cleaning tools



Examples of use

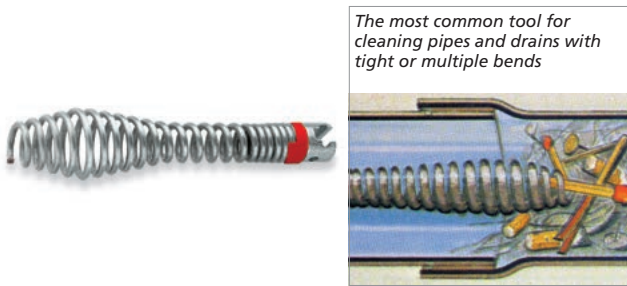
Tool expertise from ROTHENBERGER
Application areas for ROTHENBERGER high-performance drain cleaning tools with T-groove secure couplings
Suitable for all ROTHENBERGER drain cleaning spirals with

- Ø 16 mm - 5/8"
- Ø 22 mm - 7/8"
- Ø 32 mm - 1.1/4"

See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

Bulb auger

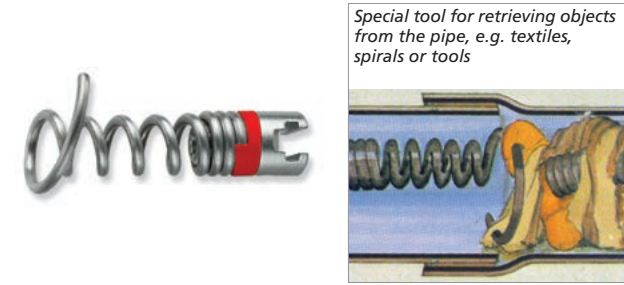
238



The most common tool for cleaning pipes and drains with tight or multiple bends

Retrieving auger

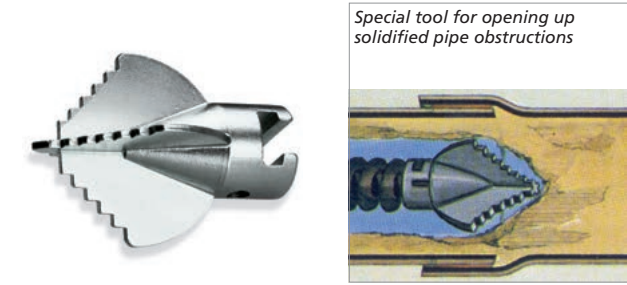
239



Special tool for retrieving objects from the pipe, e.g. textiles, spirals or tools

Cross-blade cutter, serrated

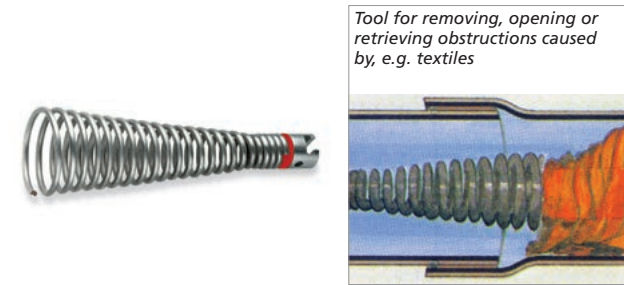
240



Special tool for opening up solidified pipe obstructions

Funnel auger

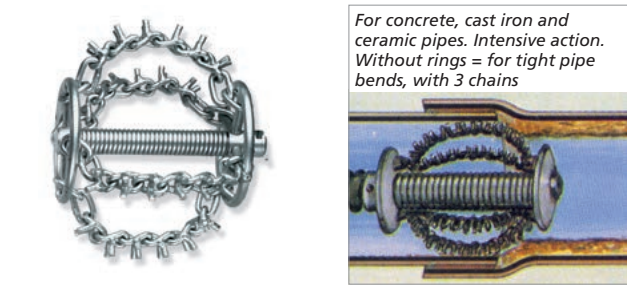
239



Tool for removing, opening or retrieving obstructions caused by, e.g. textiles

Chain-spinning head with spikes

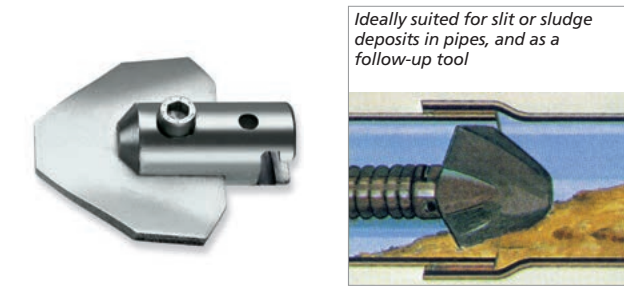
241



For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains

Spade head cutter

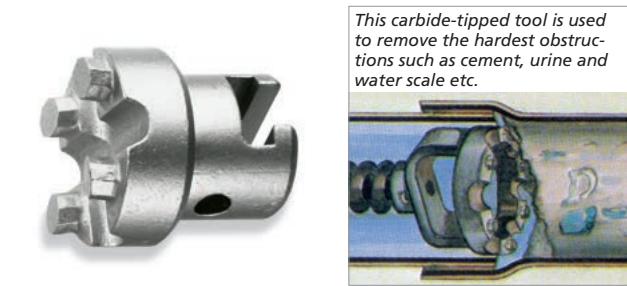
240



Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool

Carbide-tipped cutters

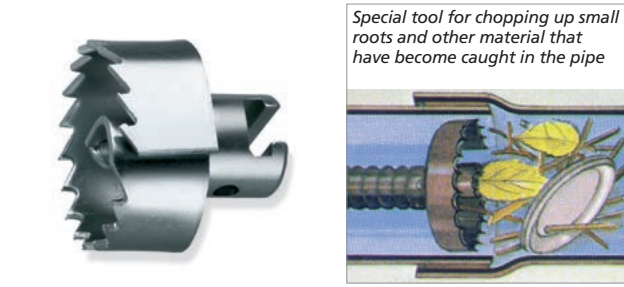
242



This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale etc.

Spiral sawtooth cutter

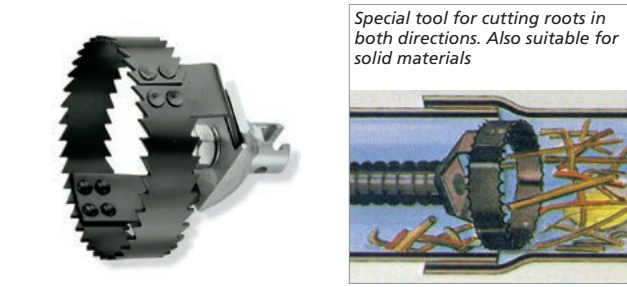
240



Special tool for chopping up small roots and other material that have become caught in the pipe

Two-way root cutter

242



Special tool for cutting roots in both directions. Also suitable for solid materials



Flushing & 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	mm	L mm	Working range mm	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 establishing the nature of an obstruction
- For piercing or drilling through obstructions caused by textiles, paper, cellulose materials, kitchen refuse etc.
- For removing samples to determine a suitable clearing tool



Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	16	110	40 - 75	60	72161
22 / 7/8"	22	210	75 - 100	170	72221
32 / 1.1/4"	32	220	100 - 250	350	72321

Funnel auger

- For removing or opening up obstructions caused by textiles or paper
- Large grasping ability can also be used to retrieve spirals from drains



Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	32	110	50 - 100	80	72165
22 / 7/8"	55	185	110 - 150	280	72222
32 / 1.1/4"	60	195	100 - 250	500	72322

Bulb Auger, short

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions



Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	28	115	40 - 75	70	72163
22 / 7/8"	40	180	75 - 100	220	72263
32 / 1.1/4"	50	220	75 - 250	490	72363

Retrieving auger

- Special tool designed with a claw for retrieving textiles, tools, spirals etc.



Coupling mm / Inch	mm	L mm	Working range mm	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	mm	L mm	Working range mm	g	No.
16 / 5/8"	24	83	50 - 75	60	72159
22 / 7/8"	37	125	60 - 100	180	72264

Flushing & pipe cleaning

Drain cleaning tools

Hardened spring steel blades!



Four-blade cutter

- For cutting through and removing tough obstructions
- For the removal of sludge deposits
- Ideal with S-spirals

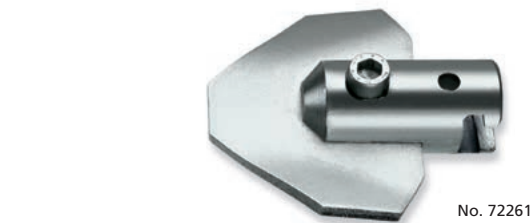
Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	40	40	50 - 75	30	72154
16 / 5/8"	30	40	50 - 75	20	72164



Grease cutter

- Standard tool for removing grease and other soft deposits, e.g. soap accumulations

Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	25	35	40 - 75	30	72169
16 / 5/8"	35	45	50 - 75	40	72170
16 / 5/8"	45	56	60 - 100	50	72171
22 / 7/8"	45	60	60 - 125	80	72234



Spade head cutter

- Curved special tool for silt and sludge deposits

Coupling mm / Inch	mm	L mm	Working range mm	g	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	mm	L mm	Working range mm	g	No.
16 / 5/8"	35	25	50 - 75	40	72166
22 / 7/8"	45	40	75 - 100	100	72229
32 / 1.1/4"	65	55	75 - 100	210	72329

- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK-spirals!

Cross-blade cutter, serrated

- Powerful combination tool for grinding up and removing solidified obstructions
- For coarse removal of incrustations
- As preparatory tool for chain spinning



Coupling mm / Inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	25	35	50 - 75	30	72175
16 / 5/8"	35	45	50 - 75	40	72176
16 / 5/8"	45	56	75 - 100	65	72177
16 / 5/8"	55	60	100 - 125	80	72178
22 / 7/8"	45	60	100 - 125	90	72275
22 / 7/8"	65	60	100 - 150	190	72276
22 / 7/8"	75	80	100 - 150	220	72277
32 / 1.1/4"	65	70	100 - 150	260	72375
32 / 1.1/4"	90	100	125 - 200	490	72376
32 / 1.1/4"	115	120	150 - 250	640	72377

Chain-spinning heads

Without ring, with smooth chain

KEY FEATURES

- For cleaning greasy and incrustated pipes
- Surface-preserving cleaning of ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends

Chain-spinning heads without ring and without spikes

Coupling mm / Inch	mm	L mm	Working range mm	g	No.
Without ring, with 2 chains					
16 / 5/8"	30	105	50 - 125	120	072185F
16 / 5/8"	30	155	100 - 125	160	72185
22 / 7/8"	50	170	100 - 150	530	72284
Without ring, with 4 chains					
16 / 5/8"	40	155	60 - 125	270	72187
22 / 7/8"	60	170	80 - 130	710	72289

Chain-spinning heads with spikes

KEY FEATURES

- Intensive cleaning action
- Ideal for concrete and cast iron pipes
- Reduces the risk of renewed obstructions
- Perfectly suitable for down pipes
- With ring:
for better centering in horizontal pipe runs
- Without ring:
Improved mobility in bends

Chain-spinning heads with ring and spikes

Coupling mm / Inch	mm	L mm	Working range mm	g	No.
22 / 7/8"	65	170	100 - 125	1,060	72285
22 / 7/8"	75	170	100 - 150	1,110	72286
32 / 1.1/4"	75	220	100 - 125	1,700	72341

Without ring, with 2 or 4 chains and spikes

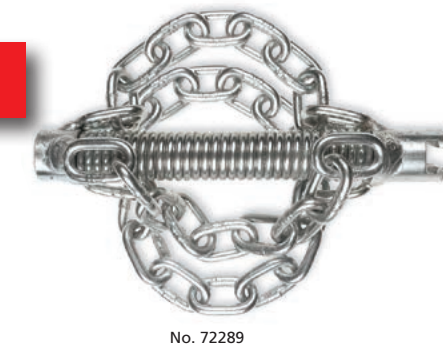
Coupling mm / Inch	mm	L mm	Working range mm	g	No.
Without ring, with 2 chains					
16 / 5/8"	30	155	50 - 125	160	72186
22 / 7/8"	50	170	100 - 150	860	72278
Without ring, with 4 chains					
16 / 5/8"	40	155	75 - 125	280	72188
22 / 7/8"	60	170	100 - 150	880	72299
32 / 1.1/4"	80	220	100 - 200	1,460	72348

Flushing & pipe cleaning

Drain cleaning tools

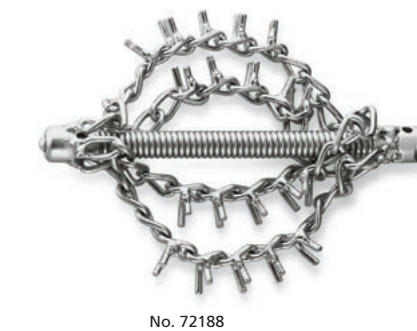


Improved mobility!



Ideal for final cleaning!

Better alignment in horizontal pipe position!



For better curve manoeuvrability!

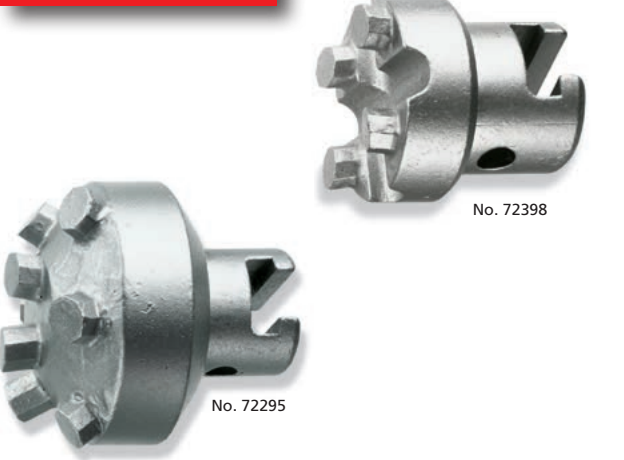
Flushing & pipe cleaning



Drain cleaning tools

Carbide-tipped cutters

- Carbide-tipped cutters for the hardest obstructions and incrustations such as cement deposits, urine and water scale and other hard deposits
- Recommended for use with S- or SMK-spirals

Carbide-tipped cutters!






Coupling mm / Inch	 mm	Form	Working range mm	 g	No.
16 / 5/8"	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	 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	 mm	 mm	Working range mm	 g	No.
22 / 7/8"	76	100	100 - 150	230	72250
22 / 7/8"	100	100	125 - 150		72251
32 / 1.1/4"	76	100	120 - 200	260	72350
32 / 1.1/4"	100	100	125 - 200		72351

Ball head cutter

- Perfectly suited for use in pipes with hard incrustations such as lime, urine scale etc.
- Suitable for downpipes, its round shape ensures excellent curve mobility even at 90°



Coupling mm / Inch	Working range mm	 mm	 g	No.
4 Blades				
16 / 5/8"	50 - 75	25	42	72168
16 / 5/8"	50 - 75	35	80	72172
22 / 7/8"	100 - 125	55	198	72223
22 / 7/8"	100 - 150	75	438	72224
22 / 7/8"	100 - 150	95	634	72226
32 / 1.1/4"	100 - 125	55	228	72324
32 / 1.1/4"	100 - 150	75	468	72326
8 Blades				
22 / 7/8"	125 - 150	90	1,025	72227
22 / 7/8"	125 - 150	115	1,225	72228
32 / 1.1/4"	125 - 200	95	1,108	72327
32 / 1.1/4"	150 - 200	115	1,256	72328



With lockring

Tool set L

Ø 16 mm, 10 pieces



Set (No. 72936) includes: ROCASE (No. 1300003334) with inlay (No. 1300003372), separating key 16 mm (No. 72100), retrieving auger 16 mm (No. 72162), bulb auger 16 mm (No. 72163), serrated forked cutter 16 mm (No. 72164), blade cutter 16/25 mm (No. 72169), cross-blade cutter 16/45 mm (No. 72177), chain-spinning head 16 mm with 2 smooth chains (No. 72185), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model	No.
16 mm tool set L (R 550, R 600, R 650)	72936

Tool set L

Ø 22 mm, 11 pieces



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)

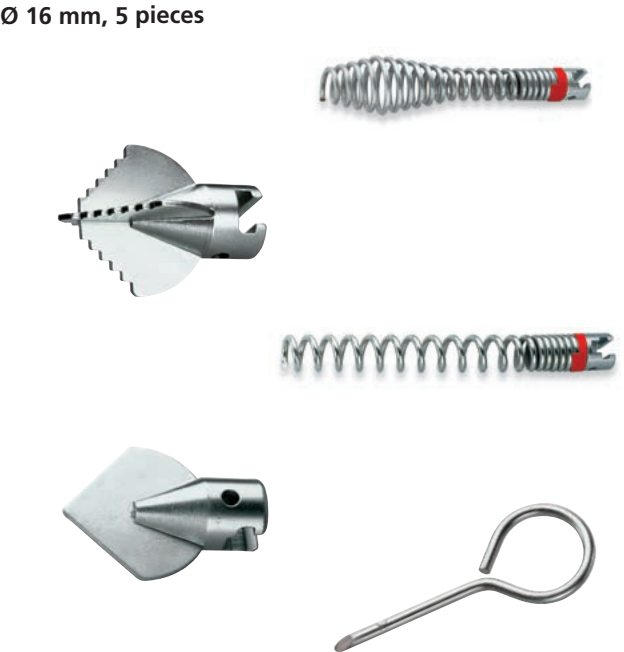
Model	No.
22 mm tool set L (R 600, R 650, R 750)	72938

Flushing & pipe cleaning

Drain cleaning tools

Tool set S

Ø 16 mm, 5 pieces

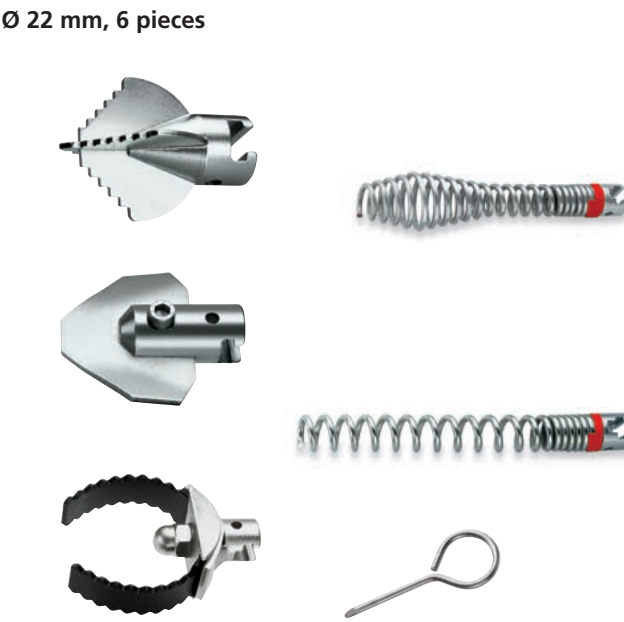


Set (No. 72937) includes: separating pin 16 mm (No. 72100), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16 mm (No. 72169), cross-blade cutter 16 mm (No. 72175)

Model	No.
16 mm tool set S (R 550, R 600, R 650)	72937

Tool set S

Ø 22 mm, 6 pieces



Set (No. 72939) includes: separating pin 22 mm (No. 72101), straight auger 22 mm (No. 72221), serrated forked cutter 22 mm (No. 72250), spade head cutter 22 mm (No. 72261), bulb auger 22 mm (No. 72263), cross-blade cutter 22 mm (No. 72276)

Model	No.
22 mm tool set S (R 600, R 650, R 750)	72939

Flushing & pipe cleaning

Drain cleaning tools

Spiral and tool sets

Standard Ø 16 mm

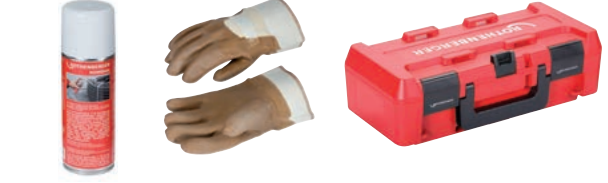


Set (No. 072945X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), RO CASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	kg	No.
Standard 16 mm	with standard spirals	12.0	072945X

Spiral and tool sets

Standard Ø 16 / 22 mm

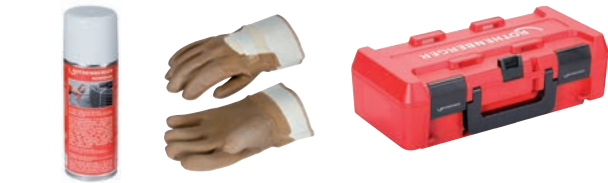


Set (No. 072956X) includes: spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), RO CASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	kg	No.
Standard 16 - 22 mm	with standard spirals	38.0	072956X
SMK 16 - 22 mm	with SMK-spirals	39.0	072967X

Spiral and tool sets

Standard Ø 22 mm

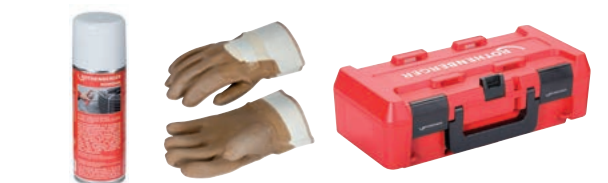


Set (No. 072955X) includes: spiral basket 22 mm (No. 72112), 5 x 22 mm standard spirals (No. 72441), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), RO CASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	kg	No.
Standard 22 mm	with standard spirals	24.0	072955X

Spiral and tool sets

Standard Ø 32 mm



Set (No. 072962X) includes: spiral basket 32 mm (No. 72111), 5 x 32 mm standard spirals (No. 72451), straight auger 32 mm (No. 72321), retrieving auger 32 mm (No. 72325), funnel auger 32 mm (No. 72322), spade head cutter 32/65 mm (No. 72360), spiral sawtooth cutter 32/65 mm (No. 72329), separating pin 22/32 mm (No. 72101), guide gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142), RO CASE (No. 1300003334) with inlay (No. 1300003372)

Model	Description	kg	No.
Standard 32 mm	with standard spirals	37.0	072962X

With Locking



Flushing & pipe cleaning

Accessories pipe cleaning spirals

Spirals 8 mm / 10 mm

For ROSPI H+E PLUS, ROSPI R 36 PLUS, ROSPIMATIC and adaptor magazine

KEY FEATURES

- Heavy duty spiral made out of special steel (DIN EN 10270-1) with integrated bulb auger (except No. 72421, 72423)
- Suitable for ROSPI H + E Plus, ROSPI 36 Plus, ROSPIMATIC as well as with adaptor R 550, R 600, R 650
- The wire diameter with an 8 mm spiral averages Ø 2 mm, and with 10 mm spirals Ø 2.5 mm
- Easy to use, even in tight bends, especially with 8 mm spirals also directly through sink strainers, crosses and drains without having to disassemble the drain or stench tap

mm	Wire Ø	m	Type	Steel core	Use for ROSPI	kg	No.
6.4	2 mm	4.5	-	-	R 6	0.8	72522
8	2 mm	7.5	C 1	-	R 8 - R 36	1.8	72412
8	2 mm	7.5	C 1 - IC	●	R 8 - R 36	2.3	72413
8	2 mm	10.0	-	-	R 8 - R 36	2.4	72414
8	2 mm	10.0	-	●	R 10 - R 36	3.0	72415
10	2.5 mm	10.0	C 5	-	R 10 - R 36	3.5	72422
10	2.5 mm	7.5	C 4	-	R 10 - R 36	2.9	72420
10	2.5 mm	7.5	C 4 - IC	●	R 10 - R 36	72424	
10	2.5 mm	7.5	-	-	R 10 - R 36	72421*	
10	2.5 mm	7.5	-	●	R 10 - R 36	2.9	72423*

*with T-groove coupling

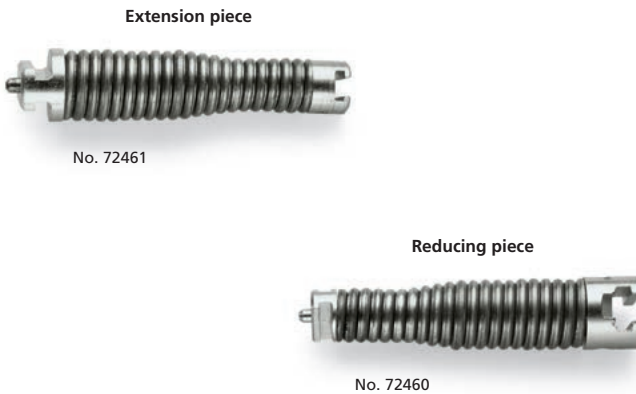


Reducing / extension pieces

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
Reducing piece	32 mm	22 mm	330	72462

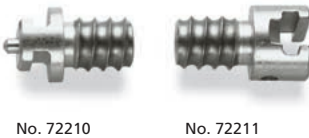


Safety T-couplings

Fixing of broken spirals!

Model	g	16 mm 5/8"	g	22 mm 7/8"
for Standard and SMK-spirals				
positive	20	72150	40	72210
negative	20	72151	40	72211

for Standard and SMK-spirals



Flushing & pipe cleaning

High-pressure drain cleaning

High-pressure drain cleaning				
	HD 11/90	HD 13/100	HD 17/190	HD 19/180B
				
Operation mode:	230 V	230 V	400 V	Fuel
Max pipe diameter:	Ø 150 mm	Ø 150 mm	Ø 200 mm	Ø 200 mm
Max. working length:	20 m	20 m	40 m	40 m
Max. pressure:	90 bar	100 bar	190 bar	180 bar
Pump delivery:	11 l/min	13 l/min	17 l/min	19 l/min
Power:	1,500 W	2,300 W	5,000 W	8,100 W

HD 11/90

Self-priming compact unit from
Ø 40 – 150 mm up to 20 m length

Ø 150 mm



KEY FEATURES	
● Compact and portable unit	
● Ideal for fast operation in small pipe dimensions	
● AC supplied, self-priming up to 2 m	
TECHNICAL DATA	
Max. operating pressure:	90 bar
Electric motor:	AC supply
Pump delivery:	11 l/min
Rating:	1.5 kW
Max. working length:	20 m
Speed:	1,400 rpm

Scope of delivery: HD 11 / 90 (No. 76008), 10 m special high-pressure hose (No. 72810), pipe cleaning nozzle (No. 76053)

Model	kg	230 V / 50 Hz
High-pressure pipe cleaning unit HD 11 / 90	29.5	76008

HD 13/100

100 bar high-pressure pipe
cleaning unit with hose reel

Ø 150 mm



KEY FEATURES	
● Air-filled transport wheels, easy to navigate stairs	
● AC supplied, self-priming up to 2 m	
TECHNICAL DATA	
Max. operating pressure:	100 bar
Electric motor:	AC supply
Pump delivery:	13 l/min
Rating:	2.3 kW
Max. working length:	20 m
Speed:	1,400 rpm

Scope of delivery: HD 13 / 100 (No. 76020), hose reel with 20 m special high-pressure hose (No. 72812) with couplings and pipe cleaning nozzle (No. 76089)

Model	kg	230 V / 50 Hz
High-pressure pipe cleaning unit HD 13 / 100	45.0	76020

Flushing & pipe cleaning

High-pressure drain cleaning

HD 17/190

190 bar high-pressure cleaner
with three-phase motor

Ø 200 mm



KEY FEATURES	
● Three-phase motor, self-priming up to 2 m	
● Air-filled transport wheels, easy to navigate stairs	
TECHNICAL DATA	
Max. operating pressure:	190 bar
Pump delivery:	17 l/min
Max. working length:	40 m
Electric motor:	Three phase
Rating:	5.0 kW
Speed:	2,800 rpm

Scope of delivery: HD 17 / 190 (No. 76070), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76089)

Model	kg	400 V / 50 Hz
High-pressure pipe cleaning unit HD 17 / 190	50.0	76070

ACCESSORIES HD 11/90



Model	kg	No.
Flexible, high-pressure hose with R 1/4" coupling, DN 6		
Length 10 m	2.50	72810
Length 20 m	4.50	72812
Pipe cleaning nozzle, R1/4", stainless steel	0.04	76053
excl. forward jet spray, 4 holes, Ø 25 x 22 mm		
incl. forward jet spray, 5 hole, Ø 25 x 22 mm	0.04	76063
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77503
Cleaning lance with wide-angle nozzle	1.30	76073
for surface cleaning		
Spare wide-angle nozzle	0.01	76082
Injector suction pipe for cleaning agent, only for use with cleaning lance, length 1.2 m	0.05	76067
Water suction hose	0.20	76066
for intake from containers, length 3.0 m		

HD 19/180 B

180 bar high-pressure cleaner
with petrol engine

Ø 200 mm

With petrol
engine



KEY FEATURES	
● Works with fuel, no voltage needed, self-priming up to 2 m	
● Air-filled transport wheels, easy to navigate stairs	
TECHNICAL DATA	
Max. operating pressure:	180 bar
Pump delivery:	19 l/min
Max. working length:	40 m
Tank capacity:	6.5 l
Rating:	8.1 kW
Speed:	1,800 rpm
Petrol engine:	Honda
Consumption:	3.2 l/h

Scope of delivery: HD 19 / 180B (No. 76090), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76053)

Model	kg	No.
High-pressure pipe cleaning unit HD 19 / 180B	78.5	76090

ACCESSORIES HD 13/100 – 17/190 – 19/180



Model	kg	No.
Flexible, high-pressure hose with R 1/4" coupling		
Length 10 m, NW 6 (HD 13/100, HD 17/190)	2.50	72810
Length 20 m, NW 6 (HD 13/100, HD 17/190)	4.50	72812
Length 40 m, NW 8 (HD 17/190, HD 19/180 B)	10.70	72820
Pipe cleaning nozzles R1/4", stainless steel	0.04	76089
excl. forward jet spray, 4 hole, Ø 25 x 22 mm		
incl. forward jet spray, 5 holes, Ø 25 x 22 mm	0.04	76065
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	77506
Cleaning lance with wide-angle nozzle	1.30	76068
for surface cleaning		
Spare wide-angle nozzle	0.01	76088
Injector suction pipe for cleaning agent	0.05	76067
only for use with cleaning lance, length 1.2 m		
Water suction hose, length 3.0 m	0.20	76066
for intake from containers		



ROWELD

Plastic pipe welding

System overview	250 - 251
Cutting	
Cutting-/ chamfering tools	252 - 253
Orbital circular saw / pipe cutter	254
Socket welding	
Socket welding units / heating plates	255 - 257
Hot gas welding	
Hot gas welding units	258
Electrofusion welding	
Electrofusion welding units	259 - 261
Butt welding	
ROWELD P 110	262 - 263
ROWELD P 160 SANILINE	264 - 265
ROWELD P 250 A	266 - 267
Overview hydraulic system	268 - 269
Workshop machines	270
Manual welding extruder	271

Plastic pipe welding

System overview

Cutting				
	ROCUT 110	ROCUT160	ROCUT XL 125	ROCUT XL 225
Suited for:	PE, PP, PVC, PEX, PVDF, PB***	PE, PP, PVC, PEX, PVDF, PB***	PE	PE
Outer pipe diameter:	Ø 32 - 110 mm	Ø 110 - 160 mm	Up to Ø 125 mm	Up to Ø 225 mm
Wall thickness:	Up to max. 16 mm*	Up to max. 16 mm*	Up to max. 11,4 mm	Up to max. 18 mm
Operation mode:	Manual	Manual	Manual	Manual
Function:	Cutting, chamfering	Cutting, chamfering	Cutting	Cutting
Page	252	252	254	254

Butt welding			
	Heating element HE 120	Heating element HE 200	Heating element HE 300
Suited for:	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Up to Ø 120 mm	Up to Ø 200 mm	Up to Ø 300 mm
Wall thickness:	–	–	–
Operation mode:	–	–	–
Page	255	255	255

Electrofusion welding			
	ROFUSE Sani 160 / 315	ROFUSE 400 TURBO	ROFUSE 1200 TURBO
Suited for:	PE, PP	PE, PP	PE, PP
Outer pipe diameter:	Up to Ø 160 / 315 mm	Up to Ø 400 mm	Up to Ø 1,200 mm**
Fitting type:	Fittings for drainage pipe systems	Fittings for pressure pipe systems	Fittings for pressure pipe systems
Voltage:	230 V	8 - 48 V	8 - 48 V
Documentation:	–	✓	✓
Page	259	260	260

Plastic pipe welding

System overview

Cutting		Socket welding		
	<div>ROCUT XL 315</div> 	<div>ROCUT UKS 160 / 355</div> 	<div>ROWELD P63-S6</div> 	<div>ROWELD P125</div> 
Suited for:	PE	PE, PP, PVC	PE, PP	PE, PP
Outer pipe diameter:	Up to Ø 315 mm	Ø 160 - 355 mm	Ø 32 - 63 mm	Ø 16 - 125 mm
Wall thickness:	Up to max.18 mm	Up to max. 40 mm	–	–
Operation mode:	Manual	Electrical	Manual	Manual
Function:	Cutting	Cutting	Socket welding	Butt welding, socket welding
Page	254	254	256	255

Butt welding			
	ROWELD P110	ROWELD P160	ROWELD P250A
Suited for:	PE, PP, PVDF	PE, PP, PVDF	PE, PP, PVDF
Outer pipe diameter:	Ø 20 - 110 mm	Ø 40 - 160 mm	Ø 40 - 250 mm
Wall thickness:	SDR see technical data	SDR see technical data	SDR see technical data
Operation mode:	Manual	Manual	Manual
Page	262	264	266

Hot gas welding		
	ROWELD Quick S	ROWELD WG 1600 E
Suited for:	Thermoplastics, technical textiles, roofing materials sheets, pool liners, films	Thermoplastics, technical textiles, roofing materials sheets, pool liners, films
Power:	1,500 W	1,500 W
Weight:	1.4 kg	0.7 kg
Air requirement:	–	80 - 250 l/min
Page	258	258

Plastic pipe welding

Cutting

ROCUT 110 / ROCUT 160

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



Product profile

APPLICATION AREA

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

KEY FEATURES

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

KEY FEATURES

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

TECHNICAL DATA

ROCUT 110: Ø 32 - 110 mm

ROCUT 160: Ø 110 - 160 mm

No. 55035

Set (No. 55035) includes: ROCUT 110 (No. 55020), internal deburrer (No. 55018), 2 clamping set 50 and 75mm, cutter blade shaft with automatic copying and HM cutter blade inserts 7,5mm (No. 54960) in plastic carrying case (No. 55016)

No. 55063

Set (No. 55063) includes: ROCUT 160 (No. 55030), internal deburrer (No. 55018), 2 clamping sets, cutter blade shaft with automatic copying and, HM cutter blade insert 12,5mm (No. 55019), plastic carrying case (No. 55017)



Handheld operation

Clamping in a parallel vice

ROCUT 160 with cutter blade

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

Model	Working range Ø mm	kg	No.
ROCUT 110 set	50, 75, 110	3.9	55035

Model	Working range Ø mm	kg	No.
ROCUT 160 set	110, 125, 160	5.6	55063

ACCESSORIES

Model	g	No.
Cutter blade for internal deburrer	10	21652
Plastic carrying case for ROCUT 110	850	55016
Plastic carrying case for ROCUT 160	1,400	55017
Internal deburrer with blade	150	55018

You'll find clamping jaw sets on 253

Plastic pipe welding

Cutting

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)

No. 55020

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

Model	mm	g	No.
Basic unit ROCUT 110	110	2,450	55020
Clamping set*	100	110	55048
Clamping set*	90	150	55021
Clamping set*	80	170	55047
Clamping set*	75	210	55022
Clamping set*	63	220	55023
Clamping set*	56	270	55024
Clamping set*	50	290	55025
Clamping set*	40	300	55027
Clamping set*	32	330	55026
*Clamping set (1 set = 2 semi-circular segments)			

ROCUT 160

Basic unit Ø 110 - 160 mm

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

No. 55030

ROCUT 160 with cutter blade

Model	mm	g	No.
Basic unit ROCUT 160	160	3,450	55030
Clamping set*	140	180	55031
Clamping set*	125	250	55032
Clamping set*	110	310	55033
*Clamping set (1 set = 2 semi-circular segments)			

HM cutter clade inserts

ROCUT 110 and ROCUT 160

No. 54960

No. 54961

With automatic copying

No. 55029

No. 55019

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

Cutter wheels

ROCUT 110 and ROCUT 160

No. 54950

No. 055053D

No. 055054D

No. 055074D

Model	Cutting depth mm	g	No.
Cutter blade shaft with	16.0	130	54950
Cutter wheel (No. 55074)			
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

Plastic pipe welding

Cutting

ROCUT UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm

Product profile

APPLICATION AREA

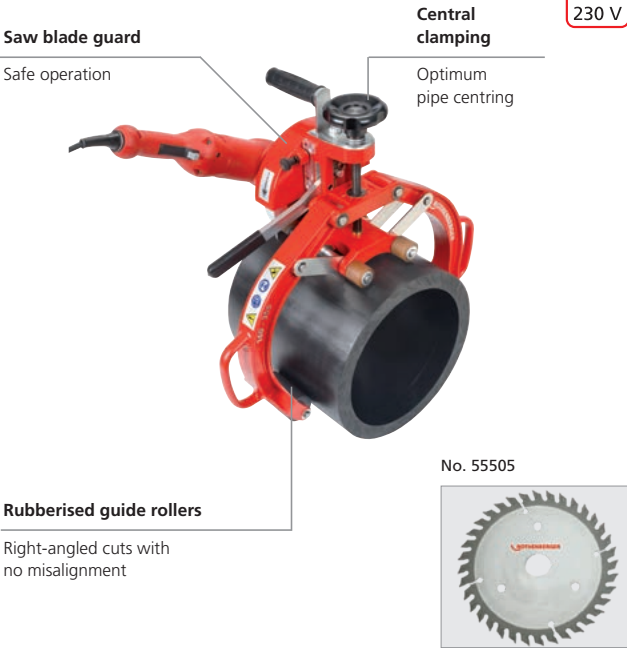
For cutting of plastic pipes made of PE, PP and PVC.
For use on the building site or in the workshop

KEY FEATURES

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

TECHNICAL DATA

Voltage: 230 V 50/60 Hz
Power: 1,750 W
Outer pipe diameters: 160 - 355 mm
Wall thickness pipe: 8 - 40 mm



ROCUT XL

Pipe cutter for pipes Ø 125 - 315 mm

Product profile

APPLICATION AREA

For cutting-off pipes in trenches, for making repairs or extensions



Model	mm	inch	Wall thickness	No.
ROCUT XL 125 up to 125 mm / 4"			max. 11.4 mm	1500000789
ROCUT XL 225 up to 225 mm / 8"			max. 18 mm	1500000790
ROCUT XL 315 up to 315 mm / 12"			max. 18 mm	1500000792

KEY FEATURES

- Can be easily adjusted anywhere at the pipe
- Robust blade made of stainless steel



Replacement blade

Scope of delivery: 1 replacement blade + fastening screws

Model	kg	No.
For ROCUT XL 125	0.3	1500000793
For ROCUT XL 225	0.7	1500000794
For ROCUT XL 315	2.1	1500000795

ROWELD P 125

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

Product profile

APPLICATION AREA

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp

KEY FEATURES

- Process reliability with the temperature control according to DVS, CEN and ISO standards
- With high-quality non-stick Teflon coating, long service life and manufactured according to DVS regulations
- Electronic temperature control and monitoring, as well as prevention against unintentional temperature adjustment
- Saves time and money with quick-exchange system for heating plates
- Optimum temperature distribution over the entire working area
- 4 holes for mounting of heating spigots and heating sockets

Set (No. 55546) includes: basic unit, table mounting clamp, heating spigots / heating sockets 63, 75, 90, 100 and 125 mm, steel case

Model	Power watts	mm	Control Model	kg	230 V 50/60 Hz
P 125	1,300	16 - 125	electronically	3.10	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

ACCESSORIES					
Model	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

Plastic pipe welding

Socket welding



Heating spigots / Heating sockets (Form A)

Model	kg	No.	Model	kg	No.
16	0.06	55585	40	0.26	55592
17	0.06	55586	50	0.37	55593
18	0.08	55587	63	0.60	55594
19	0.08	55588	75	0.89	55595
20	0.08	55589	90	1.33	55596
25	0.10	55590	110	2.07	55597
32	0.17	55591	125	2.33	55598



Power watts	Heating element Ø mm	Control Model	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
500	120/45°	electronically	1.80	55518	55517
800	200	electronically	3.25	55316	55851
1,500	300	electronically	5.35	55317	55854
Table mounting clamp			0.45	55524	55524

Plastic pipe welding

Socket welding

ROWELD P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm



Product profile

APPLICATION AREA

Socket welding unit for use with heating spigots and heating sockets Ø 20 - 63 mm with three simultaneously usable combinations for welding sockets, pipes and fittings up to Ø 63 mm

KEY FEATURES

- Increased flexibility and combination options for every day use
- Long service life and according to DVS regulations
- All important information at a glance
- Safe operation with the temperature control as per DVS regulations

KEY FEATURES

- Light and handy for fatigue-free use
- Simple to use even in confined spaces
- Floor stand is available at all times

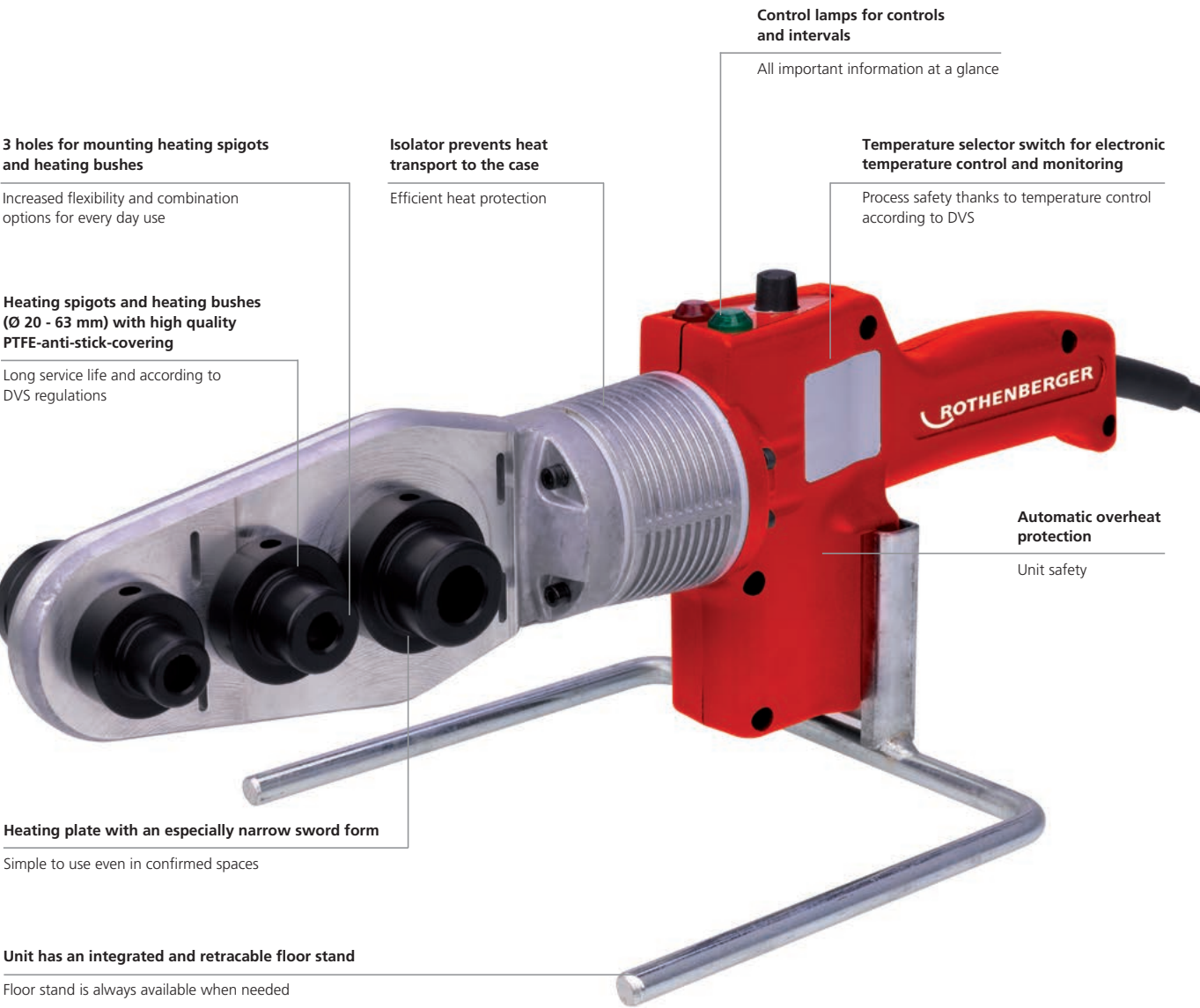
TECHNICAL DATA

Power: 800 W

Model: Thermostatic or electronically controlled

Pipe diameter: For sockets, pipes and fittings from Ø 20 - 63 mm

Voltage: 230 V, 50 / 60 Hz
110 / 115 V, 50 / 60 Hz



Plastic pipe welding

Socket welding

ROWELD P 63 S-6 Sword sets

P-63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws, table mounting clamp, loor stand, plastic carrying case



Fig. P 63 S-6, thermostatically controlled

Electronically controlled for a constant temperature!



Fig. P 63 S-6, electronically controlled

Model	Working range Ø mm	Power watts	Description	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	1000001270
P 63 S-6 single unit		800	electronically	1.78	053896X	

P 63 S-6 set thermostatically controlled



Secure workbench operation, integrated holder for the table mounting clamp



Heating spigots & sockets (Form A) for P 63 S-6

With high-quality non-stick Teflon coating with a long service life and manufactured according to DVS regulations

Working range Ø mm	g	No.
20	80	53511
25	100	53512
32	170	53513

Working range Ø mm	g	No.
40	260	53514
50	370	53515
63	600	53516

Plastic pipe welding
Hot gas welding

ROWELD Quick S / WG 1600 E

Product profile
APPLICATION AREA
Processing of roofing materials. Welding of sheets, films, tents, in boat building, refuse dump construction. Shrinking of fittings and sleeves in the electrical industry. Repair and processing of plastic parts in automobile repair shops. Hot air welding, shaping and shrinking of thermoplastics in the workshop or on building sites
KEY FEATURES
Suitable for continuous operation
Light, handy and robust
Welding temperature up to 700° C, continuously adjustable
Clip-on speed nozzles, no screws
Easy fitting of the nozzles in all working applications

Model
ROWELD Quick S complete with 5 mm tubular nozzle (No. 55769)
1.4 kg
230 V 50 / 60 Hz
55760

KEY FEATURES
Service-friendly: Heater assembly easily replaceable
Ideal for stationary use in the workshop, powerful, light (700 g) and handy hot gas welding unit (WG 1600 E)
Active device protection for a long service life. In case of an air supply failure, a safety circuit reduces the heating power and switches it off completely after 30 seconds (WG 1600 E)
TECHNICAL DATA
Air requirement: 80 - 250 l / min
We recommend the air compressor V 26, (No. 53378) for the WG 1600 E
Heating element: 1,500 W heating element with electronic temperature control

Model
ROWELD WG 1600 E complete with 5 mm tubular nozzle (No. 55769)
0.7 kg
230 V 50 / 60 Hz
55780

Nozzles and accessories for Quick S and WG 1600E



Model
Universal tubular nozzle
Wide slot nozzle, angled
Wide slot nozzle
Speed nozzle for round welding rod
Speed nozzle for round welding rod
Speed nozzle for round welding rod
Triangular speed nozzle for profiled welding rod
Triangular speed nozzle for profiled welding rod
Tacking nozzle

Model
Shrinkage reflector
Pressure roller, 45 mm for overlap welding of sheets
Phillips screwdriver for nozzle mounting
Heating plate 1,500 W
Spare carbon (1set = 2 pcs.) for Quick S
Reinforced plastic pipe 3 m (f. WG 1600 E)
Steel case for ROWELD HG 1600 E

Plastic pipe welding
Electrofusion welding

ROWELD ROFUSE Sani 160/315

Universal electro-fusion welding unit for drainage pipe with welding sockets up to Ø 315 mm

Product profile
APPLICATION AREA
Universal electrofusion welding unit for PE and PP 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 intuitive 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

Available from April 2019



90° angled plugs
Robust packaging in ROCASE
Welding process diagram showing connection to machine, welding, and finished joint.
Model
ROWELD ROFUSE Sani 160 in ROCASE
ROWELD ROFUSE Sani 315 in ROCASE

Plastic pipe welding

Electrofusion welding

ROFUSE 400 / 1200 TURBO

Universal electrofusion welding units for PE- and PP-pressure 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 Hz / 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)	

A language neutral instruction manual

Easy to operate

A practical pocket

for the welder's name and scan site-code

Height-adjustable cover

Can be used as a sun shield

A robust housing

The cable can be stowed away securely

USB

Simple data transmission

A clear display

Allows intuitive operation. The program sequence can be adapted individually

Wireless scanner

Simple and unlimited handling

Model	kg	No.
ROFUSE 400 TURBO	21.5	1000000999

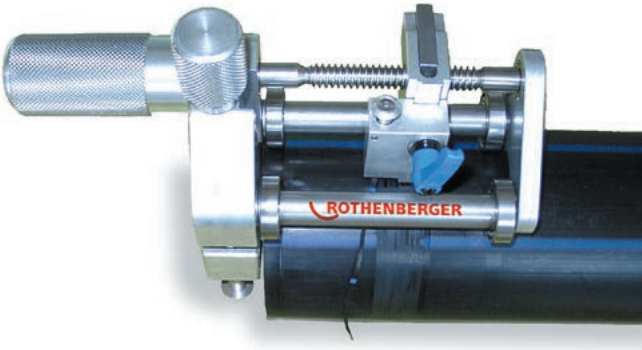
Model	kg	No.
ROFUSE 1200 TURBO	21.5	1000001000

Plastic pipe welding

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	32 - 63 mm	53200
Squeezing device hydraulic	75 - 180 mm	53210
Squeezing device hydraulic	160 - 225 mm	53220

Clamping device for electric socket welding

For alignment and fixation of the pipe before and during the welding cycle.



Double clamp short

For alignment and fixation of the pipe before and during the welding cycle.



Quad clamps

For manufacturing standard connections with rod shaped material Ø 63 - 225 mm.



Rounding clamps

For fixation of the welding depth and for rounding PE pipes after squeezing.



Model	Ø	No.
Double clamp adjustable	32 mm	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	75 mm	53272
Quad clamp	90 mm	53273
Quad clamp	110 mm	53274
Quad clamp	125 mm	53275
Quad clamp	140 mm	53276
Quad clamp	160 mm	53277
Quad clamp	180 mm	53278
Quad clamp	200 mm	53279
Quad clamp	225 mm	53280
Rounded clamp	25 mm	53281
Rounded clamp	32 mm	53282
Rounded clamp	40 mm	53283
Rounded clamp	50 mm	53284
Rounded clamp	63 mm	53285

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

Plasticpipe welding

Butt welding

ROWELD P 110

Plastic pipe welding machine Ø 20 - 110 mm

Product profile

APPLICATION AREA

For butt welding of pipes and fittings made of PE, PP, PB and PVDF. Particularly suited for installation work and for work in confined spaces - also in pipe networks

KEY FEATURES

- Production of segmented bends possible
- Precise pressure adjustment
- Single and double-sided trimming possible



KEY FEATURES

- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

TECHNICAL DATA

Pipe diameter: Ø 20 - 90 mm (SDR 41 - SDR 7.25)
Ø 20 - 110 mm (SDR 41 - SDR 11)

Weight: 8.5 kg

Size: 450 mm total length

Narrow basic clamping elements can be used

Segmented bends can be produced

Wide aluminium reducer clamp inserts (Ø 20 - 90 mm) for pipes and pipe joints

Secure hold and simple axial pipe alignment

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Angles of the wide basic clamping elements adjustable on both sides (15° each)

Segmented bends can be produced

Hardened, chrome-plated guide shafts

Absolutely warp-resistant

Direct force transmission and clear force scale

Precise pressure adjustment

Rectangular heating element

Joints between fittings and pipes with narrow and wide clamping elements

By adjusting the basic clamping element angles on both sides (15° each side) segmented bends can be produced

Set (No. 55844) includes: Basic machine (No. 55787) with table mounting brackets, manual trimmer unit (No. 55826), electronically controlled heating plates, basic clamping set R/R (No. 55807) (Ø 110 mm) and basic clamping set R/F, left (No. 55808) (Ø 110 mm), reducer clamping inserts R/R and R/F for Ø 40 - 90 mm, assembly tools, table mounting clamp (No. 55524), transport box (No. 55832)

Model	Working range Ø mm	Temperature control	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD P 110 complete	40, 50, 56, 63, 75, 90, 110	electronically	43	55844	55924

Plastic pipe welding

Butt welding

ROWELD P 110 basic machine

Model	kg	No.
ROWELD P 110 basic machine with table mounting bracket	6.8	55787

Basic clamping set 110 mm

Model	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

mm	kg	No.	mm	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
50	1.7	55123			



Reduction inserts narrow P 110

Each set includes 4 metal half-shells

mm	kg	No.	mm	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
50	0.5	55131			



Manual trimmer unit

Model	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

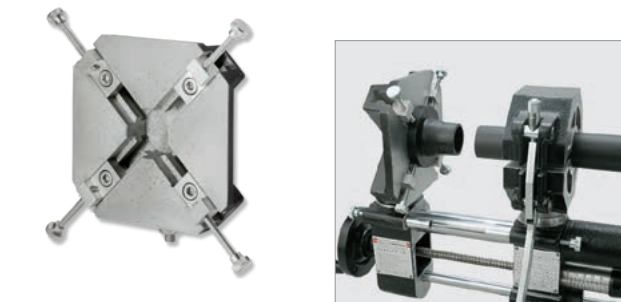
Model	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled	2.6	55324	55918
Table clamp	0.7	55524	55524



Flange adaptor clamping unit

For centred welding of flanges

Model	kg	No.
Flange adaptor clamping unit	1.50	55199
Steel carrying case (540 x 345 x 355 mm)	14.20	55832
Allen key SW 6	0.03	321216
Allen key SW 8	0.05	321218



Plastic pipe welding
Butt welding

ROWELD P 160 SANILINE
Plastic sanitary pipe welding machine from Ø 40 - 160 mm

Product profile
APPLICATION AREA
KEY FEATURES

KEY FEATURES
TECHNICAL DATA
Pipe diameter:
Weight:
Heating plate:
Trimmer unit:

Multi-faceted options for clamping

All commonly used moulded bodies installed in a sanitary installation can be clamped

Anti-slip Ø 40 - 140 mm reduction clamping inserts with clamping force regulation

Secure mounting of pipes, moulded bodies, tight 45° forks and 90° bends



P 160 SANILINE complete (No. 54000/54001)

The pressure applied can be adjusted separately on both sides

One-sided and two-sided milling is possible

Direct force transmission and a clearly arranged force scale
Precise force adjustment



Saniline special edition with Folding trolley (No. 54404)

Trimmer attachment (No. 54040) (special accessories)



Basic clamping set (No. 54082) (special accessories)



Set (No. 54000/54001) includes: Basic unit with electric trimmer, electrically adjustable heating element, removable. Basic clamping set right and left Ø 160 mm (No. 54082), pipe support Ø 160 mm, reducer clamp and support set for Ø 40, 50, 63, 75, 90, 110 and 125 mm in case (No. 54020), installation tools, mobile work and transport frame (No. 54015)

Table with 6 columns: Model, Working range Ø mm, Temperature control, Weight (kg), 230 V 50 Hz, 110/115 V 50 Hz. Rows include ROWELD P 160 SANILINE complete and special edition.

Plastic pipe welding
Butt welding

ROWELD P 160 SANILINE
basic machine

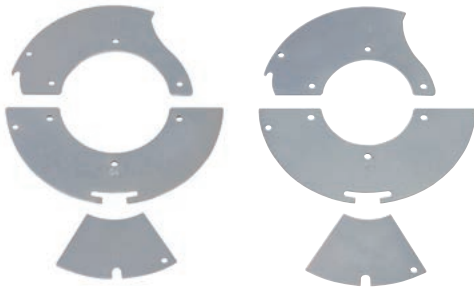
Basic machine includes: Trimmer unit (1,050 W), heating plate (800 W), basic clamp set Ø 40 - 160 mm

Table with 4 columns: Model, Weight (kg), 230 V 50 Hz, 110/115 V 50 Hz. Row for ROWELD P 160 SANILINE Basic machine.

Reduction inserts P 160 SANILINE

Set includes: Reducer inserts (4 half-shells), pipe supports

Table with 6 columns: Nominal size, Weight (kg), No., Nominal size, Weight (kg), No. Rows for various nominal sizes from 40 to 140 mm.



Trimmer adaptor P 160 SANILINE

(special accessories)
Ø 40 - 75 mm for trimming 45° branches, replaceable blades

Table with 3 columns: Model, Weight (kg), No. Row for Trimmer attachment for Ø 40 - 75 mm.



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

Table with 3 columns: Model, Weight (kg), No. Row for Basic clamping set Ø 160 mm.



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

Table with 4 columns: Model, Working range Ø mm, Weight (kg), No. Rows include Conversion Kit, Trolley and transport sub-frame, Folding trolley, Plastic case for reducer inserts, Open-ended spanner, Trimmer unit blades, Blades for trimmer adaptor, Heating plate, and Trimmer blade.



No. 54080



No. 54015



Plastic pipe welding

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

KEY FEATURES

- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

TECHNICAL DATA

Pipe diameter:

Ø 40 - 110 mm (SDR 41 - SDR 7.25)

Ø 40 - 125 mm (SDR 41 - SDR 11)

Ø 40 - 200 mm (SDR 41 - SDR 17.6)

Ø 40 - 225 mm (SDR 41 - SDR 26)

Ø 40 - 250 mm (SDR 41 - SDR 33)

Weight:

36.4 kg

Trimmer unit:

450 W

Heating plate:

1,200 W

Electric, high-torque safety trimmer unit (450 W) locks into place in the working position

Protects against unintentional starting and derailing of the trimmer unit

Removable heating plate

Versatile for difficult situations

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Rugged basic clamping set Ø 250 mm with reducer inserts for Ø 180 - 225 mm plus pipe supports and Ø 160 mm set with reducer inserts for Ø 40 - 140 mm plus pipe supports

Reliable, warp-resistant transfer of the welding pressure

Mounted machine carriage is smooth running, hardened, chrome-plated ball lining driven in guide shaft

Warp-resistant, for minimum drag force and low loss of pressure transfer

Model	Working range Ø mm	Temperature control		230 V 50 Hz	110/115 V 50 Hz
ROWELD P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250	electronically	131.0	55795	55796
ROWELD P 250 A basic machine			36.1	55768	55738

Plastic pipe welding

Butt welding

ROWELD P 250 A set

Basic machine with trimmer unit



Set (No. 55795) includes: holder for heating plate, electronically adjustable heating plate, basic clamping set 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

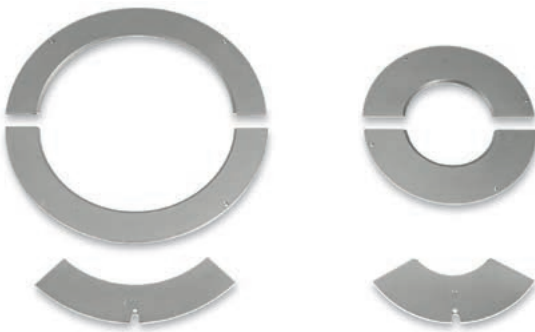


		No.			No.
160	7.25	55742	250	10.10	55717

Reduction inserts P 250 A

Each set consists of: Pipe clamping inserts (4 metal half-shells) and support fork inserts (2 metal half-shells) for basic clamping set (No. 55742)

		No.			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






No. 55317 / No. 55854

Model		230 V 50 / 60 Hz	110 V / 115 V 50 / 60 Hz
Electronically controlled	5.35	55317	55854
Spare knife (1 set = 2 pcs.)	0.10		55163
Allen key size 8	0.20	321218	321218
Transport box, protective cover red	25.00	55759	55759
Steel carrying case	2.82	54020	54020

The new generation of ROWELD hydraulic controls for butt welding

The ROWELD hydraulic unit is available in a professional and premium version.
The premium hydraulic unit is divided into Premium and Premium CNC capacities.

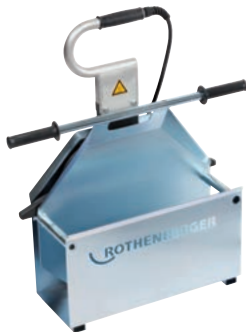
Everything at a glance...			
	Type Professional	Type Premium	Type Premium CNC
Temperature control	•	•	•
Pressure reading analogue	•	—	—
Pressure reading digital	—	•	•
Pressure hold function	•	•	•
Logging system	—	•	•
Position sensor	—	—	•
Automatic parameter calculation	—	—	•
CNC-control	—	—	•
Touch screen	—	•	•
Colour display 3.5"	—	•	•
Menu language	—	•	•
Multi-lingual	—	•	•
USB port	—	•	•

ROWELD type Professional

Hydraulic butt welding machine Ø 40 - 1,200 mm
Selection of components with a long service life ensures a low maintenance, robust and reliable operating mode.

Product profile
APPLICATION AREA
For heating element butt welding of PE, PP and PVDF pipes and moulded bodies. For use on the building site, in pipe trenches, on pipe bridges and in workshops. The ROWELD Hydraulic type Professional with infinite pressure adjustment, an easily legible manometer and pressure reservoir for welding according to DVS and other internationally valid guidelines and standards.

WORKING RANGE		
Model	Ø mm	Ø Inch
P 160 B / P 5 B	40 - 160 mm	1.1/4" - 5"
P 200 B	63 - 200 mm	
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	710 - 1,200 mm	28 - 48"



Set P 355 B
No. 1000000383

ROWELD type Premium

Hydraulic butt welding machine Ø 90 - 630 mm
The Premium hydraulic system guides the user step-by-step through the welding process. All parameters are documented automatically.

Product profile

APPLICATION AREA

The ROWELD Hydraulic Premium with an integrated logging module for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

WORKING RANGE

Model	Ø mm	Ø Inch
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	700 - 1,200 mm	28 - 48"



Set P 355 B
No. 1000000562

ROWELD type Premium CNC

Hydraulic butt-welding machine Ø 90 - 630 mm
The Premium CNC System enables a nearly fully automated operation. All parameters are documented automatically.

Product profile

APPLICATION AREA

The ROWELD Hydraulic Premium CNC with integrated CNC control and touch screen panel for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface.

WORKING RANGE

Model	Ø mm	Ø Inch
P 250 B SA / P 8 B SA	90 - 250 mm	5 - 8"
P 250 B VA / P 8 B VA	90 - 250 mm	5 - 8"
P 355 B SA / P 12 B SA	90 - 355 mm	5 - 12"
P 500 B SA / P 18 B SA	200 - 500 mm	8 - 18"
P 630 B SA / P 24 B SA	315 - 630 mm	12 - 24"
P1200 B SA / P 48 B SA	710 - 1,200 mm	22 - 48"

SA = semi-automatic, VA = fully automatic



Set P 355 B
No. 1000000563

TECHNICAL DATA	
Automatic logging:	10,000 logs
Data output:	USB interface
Languages:	DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, further 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



TECHNICAL DATA	
Automatic logging:	10,000 logs
Data output:	USB interface
Languages:	DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, futher languages available upon request
Welding monitoring:	Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions
Logging:	in accordance to DVS
Welding standards:	DVS, further standards available upon request, manual entry of welding parameters is possible
With CNC function:	During the welding process, all movements are performed by the machine, including dragging resistance and bead development measurement. Automatic extending heading element enables a fully-automatic welding process (optional, not available for all machines)

Plastic pipe welding
Butt welding

ROWELD P 315 W / P 315 W CNC
Heating plate butt welding machine Ø 90 - 315 mm

Product profile	
APPLICATION AREA	
<ul style="list-style-type: none">● High-performance butt welding machine for single and serial production in the workshop● For butt welding of PE, PP and PVDF pipes and fittings from● Universal machine for pipe/pipe, pipe/fitting, pre-sealing strip welding● Perfect for the prefabrication of pipe elbow segments and T-pieces	
TECHNICAL DATA	
Electrical hydraulic unit:	400 W 230 V / 400 V, 50/60 Hz
Electrical trimmer unit:	700 W
Heating plate:	3,000 W, 400 V, 50/60 Hz
Weight:	P 315 W complete: 523 kg P 315 W Basic: 385 kg P 315 W CNC complete: 523 kg P 315 W CNC Basic: 385 kg



Fig. ROWELD P 315 W CNC



ROWELD P 630 W
Plastic pipe welding machine Ø 315 - 630 mm

Product profile	
APPLICATION AREA	
For plastic pipe welding of PE and PP pipes.	
KEY FEATURES	
<ul style="list-style-type: none">● Reliable, warp-resistant transfer of the welding force and exact control of the welding pressure● Long-lasting heating plate according to DVS, CEN and ISO guidelines● Workshop welding machine, et.al with rotatable tools for the manufacture of pipe elbows on each side up to 22.5°, as well as the possibility of series production of segments	

TECHNICAL DATA	
Electric-hydraulic unit:	2,250 W 400 V, 50/60 Hz
Electric trimmer unit:	3 kW 400 V, 50/60 Hz
Heating plate:	14 kW 400 V, 50/60 Hz



Long-lasting heating plate in accordance with DVS, CEN and ISO guidelines

Electronically controlled heating plate with high-quality, non-stick coating, can be positioned hydraulically



Exact control of the welding force

Hydraulic unit for continuous use with higher pressure consistency, no pressure loss during welding

Plastic pipe welding
Manual welding extruder

ROWELD manual welding extruder with integrated air supply

For welding containers, installations and pipeline construction in workshop and building site operation

Product profile		
WORKING RANGE		
Model	Ø Welding wire	Range of use
ROWELD D2/20	3 mm	2 - 10 mm
ROWELD D4/15 Aero Basic	3 mm, 4 mm	4 - 15 mm
ROWELD D4/15 Aero	3 mm, 4 mm	4 - 15 mm
ROWELD D8/30 Aero	3 mm, 4 mm	8 - 30 mm
TECHNICAL DATA		
Model	Welding material	Welding consumption
ROWELD D2/10	PE, PP, PVDF, PVC, PVC-C	Ø 3 mm
ROWELD D4/15 Aero Basic	PE, PP, PVDF	Ø 3 mm
	PE, PP, PVDF	Ø 4 mm
ROWELD D4/15 Aero	PE, PP, PVDF	Ø 3 mm
	PE, PP, PVDF	Ø 4 mm
ROWELD D8/30 Aero	PE, PP, PVDF	Ø 3 mm
	PE, PP, PVDF	Ø 4 mm

Flexible
Extremely light and handy



ROWELD D4/15 Aero
No. 55503

Sturdy drive
long-lasting

ROWELD manual welding extruder

Scope of delivery: 1 welding shoe, 1 set air jets, 1 unit stand, tool set

Model	kg	Voltage	Frequency	No.
ROWELD D 2 / 10	3.4	230 V	50 / 60 Hz	55504
ROWELD D 4 / 15 Aero Basic	4.8	230 V	50 / 60 Hz	55502
ROWELD D 4 / 15 Aero	5.5	230 V	50 / 60 Hz	55503
ROWELD D 8 / 30 Aero	7.8	230 V	50 / 60 Hz	55506




Refrigeration & air-conditioning technology


System overview	274 - 275
Complete solutions	
Comissioning & maintenance	276 - 277
Evacuation & charging	278
Refrigeration circuit control	
Digital manifold	279
Analogue manifold	280
Pressure hose	281
Tool set	281
Leak testing & locating	
Nitrogen set	282
Leak detection devices	283
Evacuation	
Vacuum pumps	284 - 285
Recovery & filling	
Refrigerant recovery device	286 - 287
Refrigerant	288
Refrigerant scale	289
Accessories	
Cleaning, tools, adaptors	290 - 291
Instructions for the use of refrigerants	292
Conversion tables pressure, temperature	293

Complete solutions


ROKLIMA MULTI 4F



ROCADDY 120 R32 Analogue




ROCADDY 120 R32 Digital




Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	–	✓	✓
CO ₂ subcritical (R744):	–	–	✓
System size:	< 24 kW	< 24 kW	< 24 kW
Page	276, 277	278	278

Refrigeration circuit control


ROCOOL 600



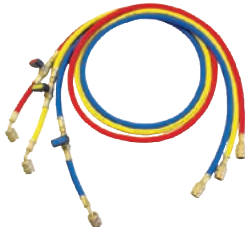
2- and 4-ways manifold connection 5/16"



2- and 4-ways manifold connection 1/4"



Pressure hoses




Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	✓	–	✓
CO ₂ subcritical (R744):	✓	–	–	✓
System size:	all	all	all	all
Page	279	280	280	281

Evacuation

ROAIRVAC R32 1.5




ROAIRVAC 3.0



ROAIRVAC 6.0



ROAIRVAC R32 6.0



ROAIRVAC 9.0



Refrigerants class A1: (R134a, R410A etc.)	✓	✓	✓	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	✓	–	–	✓	–
CO ₂ subcritical (R744):	✓	✓	✓	✓	✓
System size:	< 24 kW	< 74 kW	< 123 kW	< 123 kW	> 124 kW
Page	284, 285	284, 285	284, 285	284, 285	284, 285

Recovery

ROREC



ROREC PRO Digital



Refrigerants class A1: (R134a, R410A etc.)	✓	✓
Refrigerants class A2: (R32, R1234yf etc.)	–	✓
CO ₂ subcritical (R744):	–	–
System size:	< 24 kW	all
Page	286	287

Refrigeration & air-conditioning technology

Complete solutions

ROKLIMA MULTI 4F

Fully automatic commissioning and maintenance of air-conditioning units and heat pumps

The innovative unit enables safe and comfortable operation on refrigeration systems. With simple menu navigation, 4 functions (4F) are automatically controlled.

Product profile

KEY FEATURES

- Pressure resistance up to 80 bar guarantees full use with heat pumps
- Everything you need within reach
- Simple menu guidance guarantees appropriate use
- Fully-automatic gives time for parallel work
- Safe transport

10 g

max. 100 kg

class 1.6

80 mm

2,5 m

DIN -Norm

230 V

RO SERVICE+

2,5 m

DIN -Norm

230 V

R410A

R22

R134a

R407C

R404A

TECHNICAL DATA

Weight:

Final vacuum:

Scale range:

Resolution:

Pressure hose length:

Pump rating:

17 kg

1 x 10⁻² mbar

up to 100 kg

10 g

2,500 mm

42 l / min

4F

- Evacuation
- Charging
- Leakage test
- Control of the recovery process

Sturdy, compact metal casing

Protects all components such as vacuum pump and scale

Integrated high vacuum pump with 42 l/min suction power

For evacuation of the system in accordance with DIN 8975

Pull-out precision digital scale up to 100 kg

Secure stand for large and small containers

Interactive 16-digit display with 4 function buttons

All required parameters can be easily entered

3 different pressure gauges "Pulse-free", class 1.6, 80 mm

Universal use on air-conditioning units with all common refrigerants and operation in the high pressure range with R410A

2 pressure hoses (2,500 mm) from the series "Plus" with ball valve

Safe and comfortable operation with refrigerants without the risk of refrigerant loss

Plastic capillary hose

Safe, leak-free filling due to shut-off valve

Shock-resistant low pressure and high pressure gauges for various refrigerants

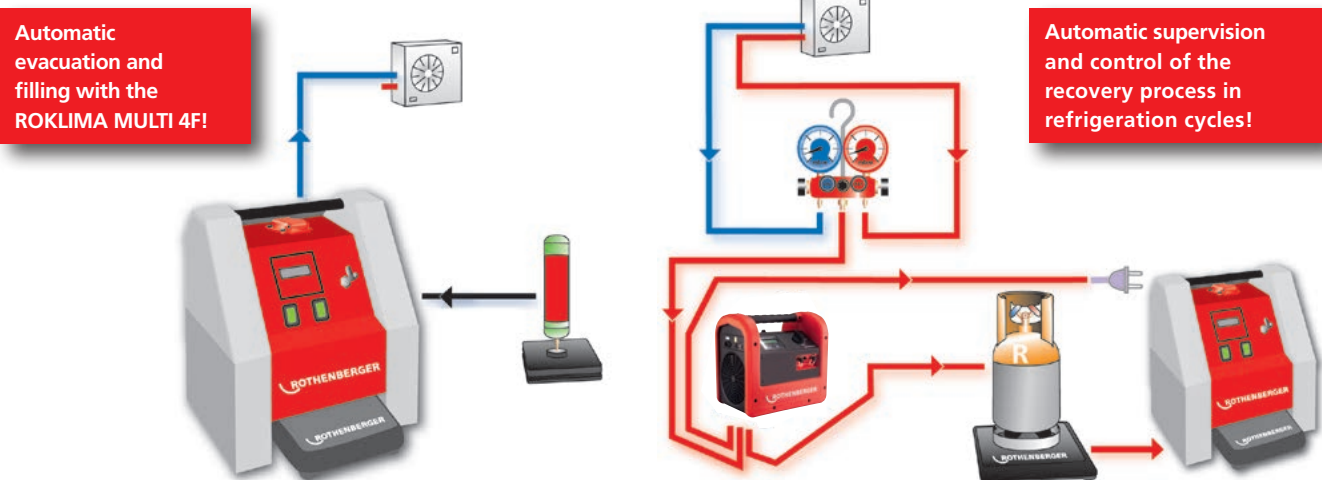
Secure storage of all accessories

Pressure hoses: 2.5 m long with shut-off valve

Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces

Refrigeration & air-conditioning technology

Complete solutions



ROKLIMA MULTI 4F in use (evacuation and charging)



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	1	1000000138
Reducer pieces 1/4" SAE F - 5/16" SAE M	0.1	1	170016

Secure storage of accessories: pressure hoses bottle adaptor, plastic capillary hose

Precision scale up to 100 kg
Resolution: 10 g
Accuracy: ± 1%

Ergonomic, compact

Light

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

Refrigeration & air-conditioning technology

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

2-stage high vacuum pump

For evacuation and removal of all moisture residue in refrigeration systems during installation per DIN 8975

Electronic digital scale up to 120 kg with high measurement precision

Precise weighing of refrigerants

Bottle adaptor for 1 kg and 2 kg refrigerant bottles for connection to the scale

Secure mounting of the bottle during charging

2 x analogue manifolds (with ROCADDY 120 R32 Analogue)


ROCOOL 600

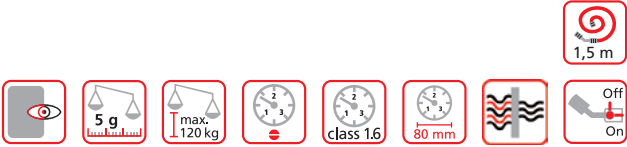
Automatic calculation of superheat and subcool. Optionally upgradable through attachment of a vacuum probe and a reading out function (with ROCADDY 120 R32 Digital)

Mini tube cutter and pipe cutter

For cutting Ø 6- 35 mm pipes to length

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 1,500mm with ball valve for R410A (No. 1500000030), pressure hose set 1/4" SAE each 1,500mm with ball valve for R22, R32, R134a, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x adaptor 3/8" SAE F-1/4" SAE M (No. 089401), 2x adaptor [5/16" SAE F-1/4" SAE M with valve trigger (No. 01700RD), adaptor 5/16" SAE M-1/4" SAE F (No. 170016)], bottle connection 1/4" (No. 173205), bottle connection 5/16" (No. 173204), mineral oil (0.4 l), TUBE CUTTER 35 (No. 70027), MINICUT II Pro (No. 70402), transport case (No. 169051)


Model	Performance					No.
R410A	R22	R134a	R407C	R404A	R32	
ROCADDY 120		42 l / min	20	1000002560		
R32 Analogue						



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

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 1,500mm 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	Performance						No.
R410A	R22	R134a	R407C	R404A	R507	R32	
ROCADDY 120		42 l / min		19	1000002561		
R32 Digital							

Refrigeration & air-conditioning technology

Refrigeration circuit control

ROCOOL 600

For commissioning, maintenance work and documentation of refrigeration systems of all kinds

Product profile

KEY FEATURES

- Modular system: The basic device can be fitted with the optional Red Box incl. the Data Viewer software for reading out or recording data on a PC. Additionally there is an optional external Pirani vacuum probe for precise vacuum readings
- More than 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

Large screen

All important data at a single glance. Strong backlight for dark environment

Connection for the temperature sensor T1

For automatic measurement of superheat data

Connection for the external vacuum probe

For very precise measurement of the vacuum level directly at the refrigeration system

Pressure sensors "Made in Germany"

Precise measurement from -1 to 60 bar

T-connection with Schrader valve 1/4" SAE

3-way function: Evacuation and filling without changing a hose

Y-connections 1/4" SAE

A connection and sealing plug in one. Simple transport of hoses when not in operation

Set (No. 1000000569) includes: ROCOOL 600, 1 temperature sensor
Set (No. 1000000570) includes: ROCOOL 600, 2 temperature sensors, carry case
Set (No. 1000000572) includes: ROCOOL 600, 2 temperature sensors, red box and data viewer software, carry case

Model	No.
Set with 1 temperature sensor (in the blister)	1000000569
Set with 2 temperature sensors (in the case)	1000000570
Set with 2 temperature sensors, red box, data viewer software (in the case)	1000000572

TECHNICAL DATA

Pressure display: bar, psi, Kpa, MPa
Temperature display: °C, °F
Vacuum display: Micron, mbar, mmHg, Pa, mTorr
Power source: 9 V battery, 550 mAh
Screen size: 4.1/3" / 11 cm
Pressure measurement range: -1 up to 60 bar
Precision (at 22 °C): ± 0.5% fs
Temperature measurement range: -50 °C to +200 °C
Working temperature: -10 °C to +50 °C
Connections: 4x 1/4" SAE
Max. recording time: 12h (device), 96h (red box)

An absolute all-rounder due to the unique modular system!

Connection for the temperature sensor T2

For automatic measurement of subcool data

Green and red LEDs

An optical signal is displayed once an adequate vacuum level is reached or leakage in the system and also a warning of overpressure

Connection of the Red Box

To record data for up to 96 hours and independent read out of data at a PC

Temperature sensor for a pipe diameter of up to Ø 32 mm

External vacuum probe for very precise measurement of the vacuum

Solid and non-tacky rubber coating

Prevents shock damages and allows a safe handling

Set (No. 1000000539) includes: Red box, data viewer software, connection cable, external power supply

Model	No.
Red box, software, connection cable, external power supply	1000000539
Temperature sensor	1000000540
Vac probe	1000000541

Analogue manifolds

2- and 4-way manifolds

Pressure gauge Ø 80 mm, with pulse-dampening class 1.6

Easy-to-read, high precision display

Large hand valve with colour coding

Light, secure and precise opening and closing of the diaphragm valve, maintenance free

Valve sets



Model	ND*/bar	HD*/bar			No.
-------	---------	---------	--	--	-----

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

2-way, 1/4" SAE	-1 up to 17	0 - 34	0.7	1	170501
4-way, 1/4" SAE	-1 up to 17	0 - 34	0.9	1	170502

R410A	R32				
--------------	------------	--	--	--	--

2-way, 5/16" SAE	-1 up to 30	0 - 60	0.7	1	1000001426
4-way, 5/16" SAE	-1 up to 30	0 - 60	0.9	1	1000001427

*LP = Low pressure manifold, *HP = High pressure manifold



Pressure gauge with shock-proof rubber protector

Protects against damage

Valve body made of aluminium with gauge glass

Sturdy despite low weight

2-way manifold



Model	No.
-------	-----

Blue rubber protector for manifold	170545
------------------------------------	---------------

Red rubber protector for manifold	170546
-----------------------------------	---------------

Valve sets for manifold	170547
-------------------------	---------------

Manifold sets

Manifold sets and pressure hoses

2-way manifold (for 170600 and 170607)

4-way manifold (for 170601, 170606, 170602 and 170608)

Durable and highly precise tool



No. 170602

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant



Sets include: manifold, pressure gauge with Ø 80 mm, "Pulse-free", class 1.6, 3 x 1,500 mm pressure hoses, plastic carrying case

Model		No.
-------	--	-----

2-way „Standard“

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

Manifold set 2-way „Standard“	2.7	170600
-------------------------------	-----	---------------

R410A	R32				
--------------	------------	--	--	--	--

Manifold set 2-way „Standard“	2.7	170607
-------------------------------	-----	---------------

4-way „Standard“

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

Manifold set 4-way I „Standard“	2.8	170601
---------------------------------	-----	---------------

R410A	R32				
--------------	------------	--	--	--	--

Manifold set 4-way I „Standard“	2.8	170606
---------------------------------	-----	---------------

4-way „Plus“

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

Manifold set 4-way II „Plus“	2.8	170602
------------------------------	-----	---------------

R410A	R32				
--------------	------------	--	--	--	--

Manifold set 4-way II „Plus“	2.8	170608
------------------------------	-----	---------------

Plastic carry case	1.4	171505
--------------------	-----	---------------

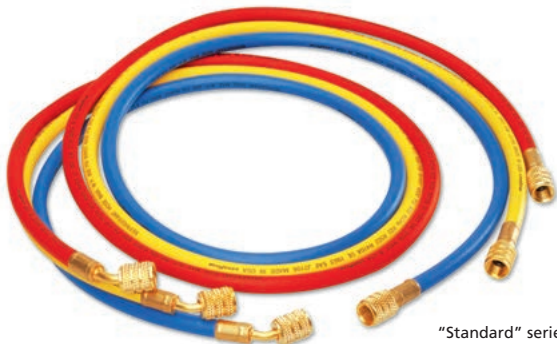
3-piece pressure hose sets

Available in "Standard" and "Plus"

Product profile

KEY FEATURES

- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10x longer service life compared to neoprene seal
- Working pressure 60 bar / burst pressure 300 bar. This is an 8% better pressure resistance as previously



"Standard" series

Pressure hose from the series "Standard"

Model	Connection	L mm		No.
-------	------------	------	--	-----

Vacuum hose	3/8" SAE	1,500	1	1500000032
-------------	----------	-------	---	-------------------

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

Set of 3 pressure hoses	1/4" SAE	1,500	1	1500000024
-------------------------	----------	-------	---	-------------------

Pressure hose yellow	1/4" SAE	1,500	1	1500000025
----------------------	----------	-------	---	-------------------

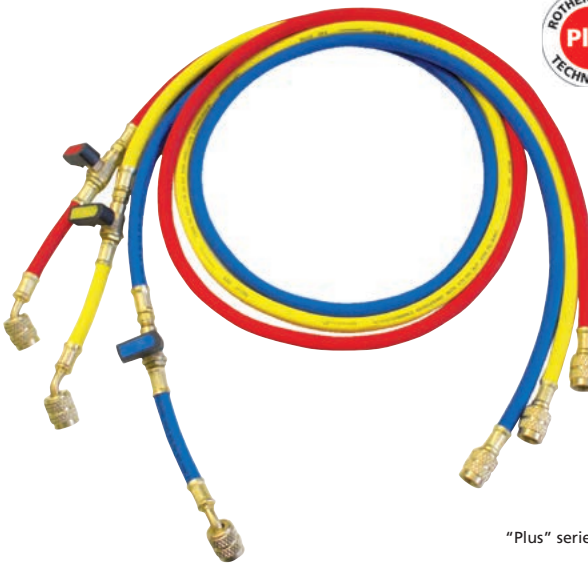
R410A	R32				
--------------	------------	--	--	--	--

Set of 3 pressure hoses	5/16" SAE	1,500	1	1500000026
-------------------------	-----------	-------	---	-------------------

Pressure hose yellow	5/16" SAE	1,500	1	1500000027
----------------------	-----------	-------	---	-------------------



R32	R410A	R22	R134a	R407C	R404A
------------	--------------	------------	--------------	--------------	--------------



"Plus" series

Pressure hose from the series "Plus" with ball valve

Model	Connection	L mm		No.
-------	------------	------	--	-----

R22	R134a	R407C	R404A		
------------	--------------	--------------	--------------	--	--

Set of 3 pressure hoses	1/4" SAE	1,500	1	1500000028
-------------------------	----------	-------	---	-------------------

Pressure hose yellow	1/4" SAE	1,500	1	1500000029
----------------------	----------	-------	---	-------------------

R410A	R32				
--------------	------------	--	--	--	--

Set of 3 pressure hoses	5/16" SAE	1,500	1	1500000030
-------------------------	-----------	-------	---	-------------------

Pressure hose yellow	5/16" SAE	1,500	1	1500000031
----------------------	-----------	-------	---	-------------------

Tool set Climate I + II

Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

Product profile

APPLICATION AREA

- Monitor temperature and pressure
- Quality hoses with high bursting pressure
- Pipe cutter for all pipe cross-sections from 3 - 35 mm (1/8" - 1.1/8")
- Measurement of ambient and ventilator air temperature
- Clean, kink-free bending of all common pipe cross-sections
- Optimum flaring connections for all types of air-conditioners

Set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses standard 1/4" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", universal flaring tool (No. 222601), plastic case

Set Climate II (No. 170605) includes: 2-way manifold (No. 1000001426), set of pressure hoses standard 5/16" SAE, TUBE CUTTER 35 C (No. 070027C), MINICUT pipe cutter (No. 070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", reeling flaring tool (No. 222402), plastic case

Model			No.
-------	--	--	-----

Tool set Climate I	2.3	1	170604
--------------------	-----	---	---------------

Tool set Climate II	2.4	1	170605
---------------------	-----	---	---------------

R32	R22	R134a	R407C	R404A	
------------	------------	--------------	--------------	--------------	--

The ideal introduction into a whole new area of business!



No. 170604

Refrigeration & air-conditioning technology

Leak testing & locating

Nitrogen set

Multiple uses for refrigeration systems



Product profile
APPLICATION AREA
<ul style="list-style-type: none">● Pressure and leak test with nitrogen● Flushing of the installation● Nitrogen admission during soldering to prevent scale formation

Ideal for split air-conditioning units and heat pumps!



5/16" SAE adaptor for connecting to R410 units



Bottle adaptor for connecting 950 cm³ bottles



Set (No. 259060) includes: pressure reducing valve, connection hose, bottle adaptor, pressure gauge, nitrogen bottle and plastic case

Model	No.
Nitrogen set with bottle (950 cm³)	259060
Nitrogen bottle, each 950 cm³	259008
Filling hose with pressure gauge	259010
Connection 5/16" SAE internal, 1/4" SAE external	01700RD

Refrigeration & air-conditioning technology

Leak testing & locating

ROLEAK

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)



Product profile
KEY FEATURES
<ul style="list-style-type: none">● Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds● Simple determination of the refrigerant concentration● Adjustment of the sensor tips zero measurement point for simple detection of the leak● Exact and quick locating of the leak● Easy accessibility of even hard to reach leaks

Heated pentode

Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds

Audio signal

Comfortable use

7 LEDs

Simple determination of the refrigerant concentrate with the coloured shading

7 different sensitivity levels

Exact and fast location of the leak

Suitable for all common CFC, HFC and HCFC!

ROLEAK Pro

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)

Product profile
KEY FEATURES
<ul style="list-style-type: none">● 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)

Model	No.
ROLEAK Pro in plastic case	1500002241

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

R410A R22 R134a R407C R404A R507A

TECHNICAL DATA

Leak status:	LED display
Sensor length:	30 cm
Leak detection rate:	3 g/a within 3 seconds
Weight:	280 g
Working temperature:	-10 up to + 49 °C
Voltage:	2.4 V

30 cm long, flexible sensor

Easy access in hard-to-reach places

RESET-button

Adjusts to the sensor tip zero point setting for simple leak location

Set (No. R08730516) includes: leak detection unit ROLEAK, spare sensor, battery charger, battery

Model	No.
ROLEAK set with spare sensor and battery charger in plastic case	R08730516
Spare sensor	87309

R410A R22 R134a R407C R404A R507A R32

Audio signal

Comfortable use

7 LEDs

Simple determination of the refrigerant concentrate with the coloured shading

3 different sensitivity levels

Exact and fast location of the leak

RESET - button

Adjusts to the sensor tip zero point setting for simple leak location

40 cm long, flexible sensor

Easy access in hard-to-reach places



ROAIRVAC

Two-stage vacuum pump

For evacuation in accordance with DIN 8975 with vacuum gauge and solenoid valve



Product profile

KEY FEATURES

- Solenoid check valve to protect the refrigeration system from oil contamination during power outage
- Vacuum gauge with integrated drag indicator enables simple and quick control of the evacuation process
- Protects the integrated components with the light and high quality casing
- Gas ballast valve for reduction of water vapour in the oil container
- Special filter reduces oil mist on exhaust vent

KEY FEATURES

- Gauge-glass enables easy oil-stand monitoring
- Fast filling of oil without spilling, no special funnel is necessary
- Easy access to the oil drain plug makes emptying quick
- Thermal switch protects the unit from the motor overheating
- Standard 1/4" SAE connection as well as 5/16" SAE and 3/8" SAE adaptor included in delivery
- Removable cable prevents cable damage



Gas ballast valve

Reduction of water vapour in the oil container, guarantees higher evacuation Power and service life

Special filter

Reduces oil mist on exhaust vent



Ergonomic handle

Light, compact and easy to transport

Removable cable

Prevents cable damage

Integrated vacuum gauge

Simple and fast control of the evacuation process

Integrated solenoid valve

Prevents backwash of oil into the refrigeration system

Four-pole motor*

Increased torque and long service life
* (nur bei ROAIRVAC 1.5 R32, 3.0 und ROAIRVAC R32 6.0)

Light and high-quality casing

Protects the integrated components

1/4" SAE standard connection with adaptors for 5/16" SAE and 3/8" SAE



Optimal positioned viewing glass and oil drains for simple draining of the oil



Practical: operating instructions always within view



ROAIRVAC series

Two-stage rotary vane pump for evacuation in accordance with DIN 8975

Typ	ROAIRVAC R32 1.5	ROAIRVAC 3.0	ROAIRVAC 6.0	ROAIRVAC R32 6.0	ROAIRVAC 9.0
No.	1000002399	170062	170063	1000001231	170064
Pumprating	1.5 CFM / 42 l/min / 2.5 m³/h	3.0 CFM / 85 l/min / 5.1 m³/h	6.0 CFM / 170 l/min / 10.2 m³/h	6.0 CFM / 170 l/min / 10.2 m³/h	9.0 CFM / 255 l/min / 15.3 m³/h
Vacuum stages	2	2	2	2	2
Final vacuum	15 micron / 0.02 mbar	15 micron / 0.02 mbar	15 micron / 0.02 mbar	15 micron / 0.02 mbar	25 micron / 0.034 mbar
Motor rating	190 W / 1720 r/m	250 W / 1720 r/m	375 W / 3440 r/m	550 W / 1720 r/m	750 W / 3440 r/m
Voltage	230 V	230 V	230 V	230 V	230 V
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Connection	1/4"	1/4"	1/4"	1/4"	1/4"
with adaptor	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M	5/16" SAE M/3/8" SAE M
Oil capacity	250 ml	330 ml	330 ml	580 ml	590 ml
Weight	10.1 kg	10.7 kg	11.5 kg	17.3 kg	17.0 kg
Manifold Ø	45 mm	50 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 3.0 (85 l/min)



ROAIRVAC 6.0 (170 l/min)

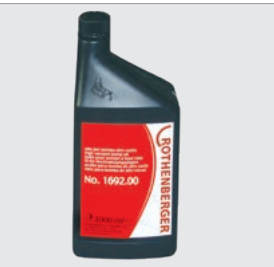


ROAIRVAC R32 6.0 (170 l/min)



Future-proof product for the increased use of R32 refrigerants

Mineral oil is included in all pump deliveries



ROAIRVAC 9.0 (255 l/min)



Scope of delivery ROAIRVAC: vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	kg	No.
ROAIRVAC R32 1.5	42 l/min	10.1	1000002399
ROAIRVAC 3.0	85 l/min	10.7	170062
ROAIRVAC 6.0	170 l/min	11.5	170063
ROAIRVAC R32 6.0	170 l/min	17.3	1000001231
ROAIRVAC 9.0	255 l/min	17.0	170064
Mineral oil 1 litre			169200

ROAIRVAC R32 1,5 - vacuum pump in use with the digital manifold ROCOOL 600



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

Refrigeration & air-conditioning technology

Recovery & filling

ROREC

Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants of all kinds



Product profile
KEY FEATURES
<ul style="list-style-type: none">4-pole motor guarantees the durability of the machineLow noise and vibration emission thanks to the compact designIntuitive handling makes it simple and safe to useMaintenance-free operation through the oil-free compressorEmptying of the device in order to work with different refrigerants with the PURGE functionSimple transport and use with the light and compact plastic casing

TECHNICAL DATA
Suitable for: all refrigerants of the type CFC-HCFC-HFC
Capacity: gaseous: 0.26 kg / min fluid: 1.85 kg / min push/pull: 6.22 kg / min
Electrical data: 230 V / 50 - 60Hz
Power: 370 W
High pressure switch: 38.5 bar
Dimensions: 490 x 244 x 353 mm
Weight: 17 kg

Ideal for mono & multi-split air-conditioning units and heat pumps!

Integrated high pressure switch

Protects the integrated components

PURGE function

Emptying of refrigerant residue in the unit (self-cleaning mode)

Simple use

Controlled dosage of the refrigerant supply

RESET Button

Reset of the pressure shut-off

Removable cable

Prevents cable damage

Oil-free compressor

Maintenance-free operation

Thermal switch

Protects the unit from overheating

Light and compact plastic casing

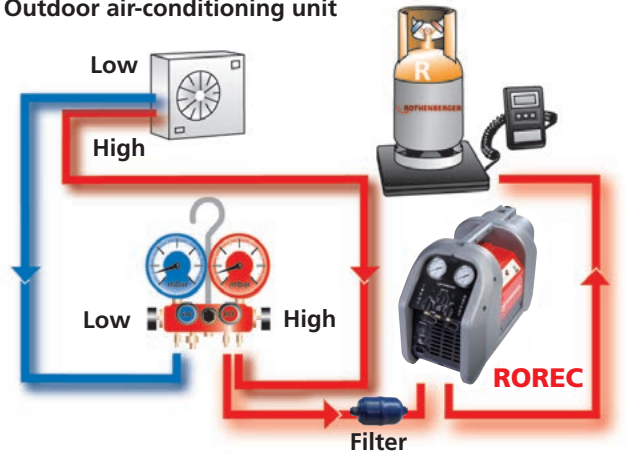
Simple transport and use

4-pole motor

Increased torque and service life

Recovery of refrigerant

Exemplary:
Outdoor air-conditioning unit



Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories on the back



Model	Connected Load	kg	No.	No.
ROREC	370 W	17.0	1	168605
Filter		0.12	1	168713

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

Refrigeration & air-conditioning technology

Recovery & 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
<ul style="list-style-type: none">Suitable for refrigerants of the classes A1, A2L and A2 (incl. R32)Compact design with a weight of less than 12 kgDigital display and one-knob controlMaintenance free operation with the oil-free 2-piston compressor4-pole motor guarantees the durability of the machineAutomatic shut-off and automatic restart once the pressure increases againEmptying of refrigerant residues with the PURGE function

TECHNICAL DATA
Recovery rate: gaseous: 0.5 kg / min; 30 kg / h fluid: 3.5 kg / min; 210 kg / h push/pull: 9.5 kg / min; 570 kg / h
Power supply: 230 V / 50 - 60 Hz
Power: 730 W
High pressure switch: 38.5 bar
Product dimensions: 380 x 250 x 350 mm
Weight: 12 kg

Digital display

Clearly structured display of the measured pressure values

Low pressure switch

Automatic shut-off and automatic restart once the pressure increases again

Oil-free 2-piston compressor

Very high recovery rate with maintenance free operation



Practical storage compartment
Storage of accessories in the back

Shoulder strap for transport over longer distances



Clearly structured digital display



Model	kg	No.	No.
ROREC PRO Digital	12.0	1	1500002637
Filter	0.12	1	168713

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

Refrigeration & air-conditioning technology

Recovery & filling

Refrigerant for air-conditioning units

Non-chlorinated refrigerant of the HFC group in practical 40 bar steel bottles (bursting pressure: 165 bar) TÜV seal No. 0036-043/03D and TPED accepted as per 99/36/CE



Product profile

KEY FEATURES

- Light and practical for use on building-sites
- 1 and 2 litre steel bottles, rent-free and easy disposal
- Flat base for increased standing stability
- Ease of clean up after removing of the valve



Refillable bottles
Full flexibility for the user

Standardised SAE thread
on all bottle valves
Universal application

Model			No.
R407C	Refrigerant R407C in cardboard packaging		
	1 l steel bottle 1/4" SAE, 850 g	1	12 170913
	2 l steel bottle 1/4" SAE, 1,700 g	1	6 170931
R410A	Refrigerant R410A in cardboard packaging		
	1 l steel bottle 5/16" SAE, 800 g	1	12 170912
	2 l steel bottle 5/16" SAE, 1,600 g	1	6 170932

Refrigeration & air-conditioning technology

Recovery & filling

ROSCALE 120

Electronic refrigerant scale
Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg



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 l and 2 l 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
Connection: 1/4" SAE for 1 - 2 lit. bottles
Battery: 9 V
Platform size: 230 x 230 x 53 mm
Weight: 3.28 kg



Set (No. R17300416) includes: ROSCALE 120, 9 V battery, carrying case

Model	kg	No.
ROSCALE 120	3.28	R17300416

ROSCALE 120 in carrying case

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

Refrigeration & air-conditioning technology

Accessories

SANIFRESH

Deodorising cleaning spray



Product profile				
KEY FEATURES				
<ul style="list-style-type: none">Removes the threat of disease and allergies – practical and ecologically friendly solution for removing mites, dust, bacteria and sporesSpray is applied directly to affected surfaceEconomical spray can with spray nozzle and spray tubeRemoves unpleasant odours. Pleasant mint smell				
Model			Volume	No.
Sanifresh (contains 12 bottles)	1	1(12)	400 ml	85800

Bottle connection and adaptors

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



Model	No.
Adaptor, 1/4" connection	173205
Adaptor, 5/16" connection	173204
Adaptor, W21.8 x 1/4" SAE M connection with seal for 2 l sized bottles	170950
Adaptor, 1/4" SAE M - 3/8" SAE F connection	89501
Adaptor, 3/8" SAE M - 1/4" SAE F connection	89503
Adaptor, 1/4" SAE F - 5/16" SAE M connection	170016
Adaptor, 1/4" SAE M - 5/16" SAE F connection with valve trigger	01700RD

Torque wrench set

For proper tightening of flange connections

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



Fix with torque urgently necessary!

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

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

Model		kg	No.
Torque wrench set, 7 pcs.		1.7	175001



Refrigeration & air-conditioning technology

Accessories

Adjustable wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

Product profile				
KEY FEATURES				
<ul style="list-style-type: none">Precise operation: smooth-running and robust roller with minimum play in the sliding guides				
Size inch	L mm	Clamping width up to mm	g	No.
6"	160	20	100	70441
8"	210	25	220	70442
10"	250	29	390	70443
12"	300	34	660	70444
15"	380	44	1,170	70445



Schrader valve tool

Product profile	
KEY FEATURES	
<ul style="list-style-type: none">For exchanging the Schrader valve on air-conditioners under pressure, without having to recover the unitFor safe and easy change of spring insert of the Schrader valve toolWith safety thread for risk-free use with R410A	
Model	No.
Schrader valve tool in plastic carrying case	87800



Plate fin comb

Product profile		
KEY FEATURES		
<ul style="list-style-type: none">For straightening the plate fins of heat-exchangers6 different sizes in one tool		
Model	Product dimensions	No.
Plate fin comb	8 - 9 - 10 - 12 - 14 - 15 fins per inch	224500



Refrigeration & air-conditioning technology

General instructions for the use of refrigerants

Refrigerant data from CFC-alternative refrigerants

Refrigerant	Composition	ODP	GWP	Temperature glide
R22 (HFKW refrigerant)	CHCLF2	0.05	1,700	–
R134a (HFKW-chlorine-free refrigerant)	CF3CH2F	0	1,300	–
R32 (HFKW-chlorine-free refrigerant)	CH2F2	0	675	–
R404A (HFKW-chlorine-free blends)	52% R143a, 44% R125, 4% R134a	0	3,750	–
R507 (HFKW-chlorine-free blends)	50% R143a, 50% R125	0	3,800	–
R407C (HFKW-chlorine-free blends)	23% R32, 25% R125, 52% R134a	0	1,610	7.5K
R410A (HFKW-chlorine-free blends)	50% R32, 50% R125	0	1,890	0.2K

ODP = Ozone Depletion Potential (degree in which the ozone layer is destroyed)
GWP = Global Warming Potential (degree in which it contributes to the greenhouse effect)

Instructions for safe and proper use of the refrigerants:

Refrigerant:

- Wear protective gloves and safety goggles
 - Do not let refrigerant come in contact with skin
 - Do not inhale high concentrations of vapours
(Lack of oxygen causes a narcotic effect and is a danger to life)
- Do not smoke around refrigerant
 - Working place / room must be thoroughly aired,
if necessary extracted

Refrigerant bottles:

- Secure against accidents, do not throw
 - Do not expose to direct sunlight and do not place near radiators
or other heat sources
 - Do not use open flame
- Do not disassemble or remove valves
 - Damaged bottles need to be properly returned
 - Close empty containers

Air-conditioners:

- Air-conditioner leaks need to be repaired immediately
 - Do not allow refrigerant to leak while filling or doing
maintenance work
- In high concentrations (for example pipe burst), leave the room
and do not enter again until it has been properly ventilated
 - Only do brazing work together with protective nitrogen gas
and only in well ventilated areas

Flare connections

Normal flare size in accordance with JIS B8607:2008
Flare outer diameter in relationship to the pipe diameter

Pipe outer diameter mm / inch	Metric	Wall thickness mm / inch	Flare outer diameter with R22-, R134a-, R404-, R407C air-conditioners	Flare outer diameter with R410A air-conditioners
6 mm	–	1 mm	8.5 mm	9.1 mm
8 mm	–	1 mm	11.1 mm	11.1 mm
10 mm	–	1 mm	13.6 mm	13.2 mm
12 mm	–	1 mm	15.3 mm	16.5 mm
16 mm	–	1 mm	19.5 mm	19.2 mm
18 mm	–	1 mm	22.0 mm	22.7 mm
1/4"	6.35 mm	0.35"	9.0 mm	9.1 mm
5/16"	7.94 mm	0.35"	11.0 mm	11.1 mm
3/8"	9.52 mm	0.35"	13.0 mm	13.2 mm
1/2"	12.70 mm	0.35"	16.2 mm	16.6 mm
5/8"	15.88 mm	0.35"	19.4 mm	19.7 mm
3/4"	19.05 mm	0.35"	23.3 mm	24.0 mm

Refrigeration & 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












*Detailed guarantee terms can be found at rothenberger.com/de-de/5-jahres-umtauschgarantie






General purpose tools






System overview	296 - 299
Pliers	
Water pump pliers	300 - 303
Plier sets	304
Corner pipe wrenches	305
One-handed pipe wrenches, chain pipe wrenches	306 - 307
Grip pliers, strap & fittings wrenches	308 - 309
Installation wrenches	
UNI stepped key set, express spanner	310
Bolt drivers, sanitary four way	311
Installation tools, valve key	312
Open-ended, hinged ratchet wrenches	313 - 315
Screwdrivers	316 - 317
Installation aids	
Spirit levels, cartridge extractor sets	318
Tap reseating tool	319
Spirit levels, measuring tape	320
Basin nut wrench, bolt cutter	320 - 321
Metal crimping plier, tower pincer, grip wrench, combination plier, long nose plier	321 - 322
Screw extraction	325
Cordless drill driver	323
Drill bits	324
Drill bits & chisels	326 - 327, 332
Cordless impact wrench	328
Cordless angle grinder	329
Cutting & grinding discs	330
Cordless rotary hammer	331
Cordless LED lamp	333
Hammers, chisels, punches	334
Vices	335
Workbenches	336
General aids & tool bags	337 - 338
Case system	339 - 342




ROGRIP pliers					
	ROGRIP M 7"	ROGRIP M 10"	ROGRIP F 7"	ROGRIP F 10"	ROGRIP S 7"
					
Working range:	Ø 43 mm (1.1/4")	Ø 60 mm (2")	Ø 43 mm (1.1/4")	Ø 60 mm (2")	Ø 43 mm (1.1/4")
Length:	185 mm (7")	254 mm (10")	191 mm (7")	254 mm (10")	185 mm (7")
Weight:	210 g	420 g	215 g	405 g	201 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	300	300	300	300	301

ROGRIP pliers		Water pump pliers			
	ROGRIP S 10"	ROGRIP XL	Wapu type SP 7"	Wapu type SP 10"	Wapu type SP 12"
					
Working range:	Ø 60 mm (2")	Ø 102 mm (3.1/2")	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")
Length:	254 mm (10")	440 mm (16")	175 mm (7")	250 mm (10")	300 mm (12")
Weight:	410 g	1.4 kg	150 g	290 g	460 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	301	301	302	302	302

Water pump pliers			Corner pipe wrenches 45°		
	<div>Wapu type SPK 7"</div> 	<div>Wapu type SPK 10"</div> 	<div>Wapu type SPK 12"</div> 	<div>Corner pipe wrench 45 ° Super S, 10"</div> 	<div>Corner pipe wrench 45 ° Super S, 12"</div> 
Working range:	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")	Ø 22 mm (1/2")	Ø 34 mm (1")
Length:	175 mm (7")	250 mm (10")	300 mm (12")	250 mm (10")	300 mm (12")
Weight:	165 g	315 g	475 g	400 g	810 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	303	303	303	305	305






Corner 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"
					
Working range:	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 89 mm (3")	Ø 22 mm (1/2")	Ø 34 mm (1")
Length:	420 mm (16")	540 mm (20")	640 mm (24")	250 mm (10")	300 mm (12")
Weight:	1.44 kg	2.44 kg	3.4 kg	370 g	740 g
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	305	305	305	305	305

Corner pipe wrenches 45°		Pipe wrenches 90°			
	<div>Corner pipe wrench 45 °, 16"</div> 	<div>Corner pipe wrench 45 °, 20"</div> 	<div>Pipe wrench 90° 12"</div> 	<div>Pipe wrench 90° 16"</div> 	<div>Pipe wrench 90° 20"</div> 
Working range:	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 34 mm (1")	Ø 48 mm (1.1/2")	Ø 60 mm (2")
Length:	420 mm (16")	540 mm (20")	300 mm (12")	420 mm (16")	540 mm (20")
Weight:	1.34 kg	2.4 kg	740 g	1.34 kg	2.4 kg
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	305	305	305	305	305

Pipe wrenches 90°		One-handed pipe wrenches HEAVY DUTY			
	<div><div>Pipe wrench 90° 24"</div></div>	<div><div>Pipe wrench 90° 36"</div></div>	<div><div>HEAVY DUTY 6"</div></div>	<div><div>HEAVY DUTY 8"</div></div>	<div><div>HEAVY DUTY 10"</div></div>
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	305	305	306	306	306

General purpose tools

System overview

One-handed pipe wrench HEAVY DUTY					
	HEAVY DUTY 12"	HEAVY DUTY 14"	HEAVY DUTY 18"	HEAVY DUTY 24"	HEAVY DUTY 36"
					
Working range:	Ø 60 mm (2")	Ø 60 mm (2")	Ø 73 mm (2.1/2")	Ø 89 mm (3")	Ø 141 mm (5")
Length:	300 mm (12")	350 mm (14")	450 mm (18")	600 mm (24")	900 mm (36")
Weight:	1.25 kg	1.68 kg	2.67 kg	4.32 kg	7.5 kg
Material:	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel	Chrome vanadium steel
Page	306	306	306	306	306



One-handed pipe wrench HEAVY DUTY		One-handed pipe wrench ALUDUR			
	<div>HEAVY DUTY 48"</div> <div></div>	<div>HEAVY DUTY 60"</div> <div></div>	<div>ALUDUR 10"</div> <div></div>	<div>ALUDUR 14"</div> <div></div>	<div>ALUDUR 18"</div> <div></div>
Working range:	Ø 168 mm (6")	Ø 203 mm (8")	Ø 48 mm (1.1/2")	Ø 60 mm (2")	Ø 73 mm (2.1/2")
Length:	1,200 mm (48")	1,300 mm (60")	250 mm (10")	350 mm (14")	450 mm (18")
Weight:	15.8 kg	24 kg	480 g	990 g	1.63 kg
Material:	Chrome vanadium steel	Chrome vanadium steel	Aluminium	Aluminium	Aluminium
Page	306	306	306	306	306



One-handed pipe wrench ALUDUR				
	<div>ALUDUR 24"</div> 	<div>ALUDUR 36"</div> 	<div>ALUDUR 48"</div> 	<div>ALUDUR 60"</div> 
Working range:	Ø 89 mm (3")	Ø 141 mm (5")	Ø 168 mm (6")	Ø 200 mm (8")
Length:	600 mm (24")	900 mm (36")	1,200 mm (48")	1,300 mm (60")
Weight:	2.51 kg	5 kg	8.42 kg	14.6 kg
Material:	Aluminium	Aluminium	Aluminium	Aluminium
Page	306	306	306	306

General purpose tools

System overview

One-handed pipe wrench STILLSON					
	STILLSON 8"	STILLSON 10"	STILLSON 12"	STILLSON 14"	STILLSON 18"
					
Working range:	Ø 27 mm (3/4")	Ø 34 mm (1")	Ø 43 mm (1.1/4")	Ø 48 mm (1.1/2")	Ø 60 mm (2")
Length:	200 mm (8")	250 mm (10")	300 mm (12")	350 mm (14")	450 mm (18")
Weight:	280 g	590 g	715 g	1.04 kg	1.74 kg
Material:	Steel, drop forged	Steel, drop forged	Steel, drop forged	Steel, drop forged	Steel, drop forged
Page	306	306	306	306	306

One-handed pipe wrench STILLSON		ROCASE case system	
	<div>STILLSON 24"</div> 	<div>STILLSON 36"</div> 	
Working range:	Ø 73 mm (2.1/2")	Ø 102 mm (3.1/2")	
Length:	600 mm (24")	900 mm (36")	
Weight:	3.08 kg	5.69 kg	
Material:	Steel, drop forged	Steel, drop forged	
Page	306	306	

	<div>ROCASE</div> 	<div>ROBOX</div> 
Sizes:	4	2
Volume:	5.7 until 48.2 l	0.65 until 1.37 l
Weight:	0.63 until 2.64 kg	0.09 until 0.17 kg
Material:	ABS plastic	ABS plastic
	339	340

Power tools					
RO DD60	RO ID400	RO AG8000	RO RH4000	RO FL180	
					
Voltage: 18 V	Voltage: 18 V	Voltage: 18 V	Voltage: 18 V	Max. lumin. flux: 410 lm	
Max. torque soft: 34 Nm	Max. torque: 400 Nm	Grinding wheel Ø: 125 mm	Max. single blow energy (EPTA): 2.2 J	Max. operation time per battery load:	
Max. torque hard: 60 Nm	Max. impact rate: 4,250 /min.	Idle frequency: 8,000 /min.	Max. impact rate: 4,000 /min.	18 V/2.0 Ah: 4.5 Std.	
Drill-Ø steel: 13 mm	Bit retainer: Male square1/2" (12.7 mm)		Drill-Ø concret: 24 mm	18 V/4.0 Ah: 9.1 Std.	
Drill-Ø soft wood: 38 mm	Speed/torque levels: 12		Bit retainer: SDS-plus	Weight: 0.46 kg	
No-load speed: 0 - 450 / 0 - 1,600 /min					
323	328	329	331	333	

General purpose tools

Pliers

ROGRIP M

Quickly adjustable water pump plier

- KEY FEATURES
- 30% more gripping capacity*: 10" pliers up to 2" pipe diameters
 - 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
 - Wide handles for more comfort and better power transmission
 - 10 point size adjustments

- TECHNICAL DATA
- **Chrome vanadium steel** tempered, drop forged with heavy-duty box joint
 - **Polished head and joint**
 - **Double hardened jaws**, extremely durable

ROTHENBERGER
Curve-Shape-Design

Especially ergonomic for larger pipe diameters. Reduces the danger of fingers getting clamped

Double hardened jaws
extremely durable

Good grip on every surface even at highest demands

Large gripping width

Reliable grip and hold up to 2" pipe diameter

Integrated sizing scale

Comfortable and quick adjustment of the pipe diameter

Wide handles

More comfort and better power transmission

Slip-resistant plastic handles

High grip reliability

Model	No.
ROGRIP M 7", Ø 1.1/4" / 43 mm	1000000215
ROGRIP M 10", Ø 2" / 60 mm	1000000216

ROTHENBERGER Curve-Shape-Design – especially ergonomic!

Quickly adjustable automatic water pump plier

- KEY FEATURES
- 30% more gripping capacity*: 10" pliers up to 2" pipe diameter
 - 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
 - ROTHENBERGER Curve-Shape-Design: especially ergonomic for large pipe diameters. Reduces the danger of fingers getting clamped
 - Wide handle for more comfort and better transmission of power
 - Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment
 - 18 point size adjustments

18 adjustable positions

Variable uses, lateral stability and high strength

Safety lock system

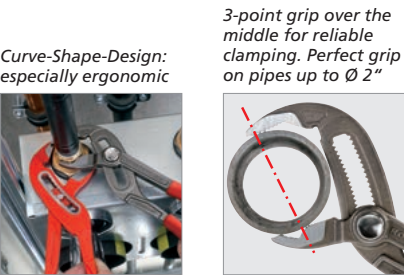
Prevents unintentional opening and enables a 50% quicker adjustment

Wide handles

More comfort and better power transmission

Slip-resistant plastic handles

High grip reliability



L	L	max.	max.	g			No.
inch	mm	inch	mm				
7"	191	1.1/4"	43	215	1	6	1000000213
10"	254	2"	60	405	1	6	1000000214

30% more gripping capacity!*

* than previous model

General purpose tools

Pliers

ROGRIP S

Quickly adjustable water pump plier

- Characteristics like ROGRIP M

Curve-Shape-Design: especially ergonomic with large pipe Ø

Double hardened jaws
extremely durable

Good grip on every surface even for hardest demands

Integrated sizing scale

Comfortable and quick adjustment of the pipe diameter

Wide handles

More comfort and better power transmission

L	L	max.	max.	g			No.
inch	mm	inch	mm				
7"	185	1.1/4"	43	201	1	8	1000000217
10"	254	2"	60	410	1	6	1000000218

ROGRIP XL

Quickly adjustable water pump plier

- KEY FEATURES
- 16" pliers up to 3.1/2" pipe diameters
 - 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
 - ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
 - Wide handle for more comfort and better transmission of power
 - 14 point size adjustment

- TECHNICAL DATA
- **Chrome vanadium steel** tempered, drop forged with heavy-duty box joint
 - **Polished head and joint**
 - **Double hardened jaws**, extremely durable

Enourmos gripping width of 3.1/2" – reliable grip during application

14 adjustable positions

Variable uses, lateral stability and high strength

Double hardened jaws
extremely durable

Good grip on every surface even for hardest demands

Large gripping width

Reliable grip and hold up to 3.1/2" pipe diameter

ROTHENBERGER Curve-Shape-Design

Especially ergonomic with larger pipe diameters. Reduces the danger of fingers getting clamped

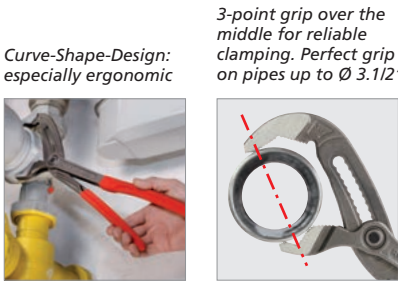
Wide handles

More comfort and better power transmission

Slip-resistant plastic handles

High grip reliability

L	L	max.	max.	g			No.
inch	mm	inch	mm				
16"	440	3.1/2"	102	1,400	1	1	1000000328



General purpose tools

Pliers

Water pump pliers SP

Complies with DIN 5231 D, with heavy-duty box joint, chrome vanadium steel, drop forged, tempered, polished head and joint



Product profile

KEY FEATURES

- Ideal for hard-to-reach places with the longer, thinner pliers head with measurements favourable for corners
- Optimum grip for reliable hold of pipes, flat objects, squared and hexagonal screws
- Long service life through induction hardened teeth
- Variable use: 7 size settings
- Non-slip even on smooth surfaces
- Safe use with the crush and pinch protection

TECHNICAL DATA

- Complies with DIN 5231 D
- Heavy-duty box-joint
- Abrasion-resistant surface protection with the epoxy-powder coating
- Chrome vanadium steel
- Drop forged, tempered
- Polished head and joint

Asymmetrical gripping surface

Optimum grip with the rhombus-shaped gripping surface

Measurements favourable for corners

Ideal for hard-to-reach places

Self-clamping jaws

Non-slip even on smooth pipes

Induction hardened teeth

Long service life and high wear resistance

Ergonomically shaped anti-slip legs

Reliable hold

7 size settings (10" and 12"), solid and durable

Variable use

Crush and clamp guard

Safe use

Optimum grip

Rothenberger

No. 070528D

	L	L	max. inch	max. mm	g			No.
	inch	mm						
7"	175	1"	34	150	1	6		70527
10"	250	1.1/4"	43	290	1	6		70528
12"	300	1.1/2"	48	460	1	6		70529
10"	Counter display				1(12)			070528D

No. 70527

No. 70528

No. 70529

No. 70529

General purpose tools

Pliers

Water pump pliers type SPK



KEY FEATURES

- Features similar to type SP, additionally with plastic covered handles

Increased safety:
Plastic covered handles!

	L	L	max. inch	max. mm	g			No.
	inch	mm						
7"	175	1"	34	165	1	6		70521
10"	250	1.1/4"	43	315	1	6		70522
12"	300	1.1/2"	48	475	1	6		70523
10"	Counter display				1 (12)			070522D

Grooved water pump pliers CL

Chrome vanadium steel, chrome-plated, drop forged, tempered, polished head and sliding joint, even jaws, in compliance with DIN 5231 E

KEY FEATURES

- No slipping of the joint possible
- Absolutely firm fit in every open position
- Easy, smooth adjustment
- Induction hardened teeth for a long service life
- Crush and clamp guard prevent injuries
- Plastic covered handles

	L	L	max. inch	max. mm	g		No.
	inch	mm					
9.1/2"	245	1.1/2"	48	330	6		70591
12"	300	2"	60	560	6		70592
16"	420	4"	114	1,150	6		70593

General purpose tools

Pliers sets

ROBOX plier sets

3-part plier sets for holding and turning of diverse types of pipes

3-part set (No. 1000002188) includes: corner pipe wrench 45°, SUPER S, 1" (No. 070122X), ROGRIP M 10" (No. 1000000216), ROGRIP M 7" (No. 1000000215), ROBOX B2650 (No. 1000002763)

3-part set (No. 1000002189) includes: one-handed pipe wrench ALUDUR, 14" (No. 70160), ROGRIP M 10" (No. 1000000216), ROGRIP M 7" (No. 1000000215), ROBOX B2650 (No. 1000002763)

For the individual pliers see 300 - 306

Model		kg	No.
Plier set w/ corner pipe wrench, ROBOX (3 pcs.)	1	1.6	1000002188*
Plier set w/ ALUDUR, ROBOX (3 pcs.)	1	1.7	1000002189*
* ROBOX system p. 340			



Professional sets

Practice-oriented set of pipe wrenches and pipe cutter

3-part set (No. 070130X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), pipe wrench 2" (No. 070124X)

4-part set (No. 070135X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528), TUBE CUTTER 35 (No. 70027)

3-part set (No. 070140X) includes: pipe wrench 1" (No. 070122X), pipe wrench 1.1/2" (No. 070123X), wapu SP 10" (No. 70528)

Model	kg		No.
Set 1 - 1.1/2" - 2"	5.0	1	070130X
Set 2 - 1.1/2" + wapu SP 10" + TC35	3.1	1	070135X
Set 3 - 1.1/2" + wapu SP 10"	2.7	1	070140X



No. 070130X



No. 070135X



No. 070140X

ROGRIP plier sets

The quickly adjustable water pump plier generation ROGRIP is available as practice-oriented sets in three different sizes.

2-part set (No. 1000000626) includes: ROGRIP S 7" (No. 1000000217), ROGRIP S 10" (No.1000000218)

2-part set (No. 1000001039) includes: ROGRIP M 7" (No. 1000000215), ROGRIP M 10" (No. 1000000216)

3-part set (No. 1000001068) includes: ROGRIP M 7" (No. 1000000215), ROGRIP M 10" (No. 1000000216), ROGRIP XL 16" (No. 1000000328)

Model		No.
ROGRIP set S 7" + S 10"	1	1000000626
ROGRIP set M 7" + M 10"	1	1000001039
ROGRIP set M 7" + M 10" + ROGRIP XL	1	1000001068



No.1000000626



No.1000001039



No.1000001068

General purpose tools

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



	Inch	mm	Inch	mm	g			No.
1/2"	22	10"	250	400	1	18	070121X	
1"	34	12"	300	810	1	18	070122X	
1.1/2"	48	16"	420	1,440	1	16	070123X	

	Inch	mm	Inch	mm	g			No.
2"	60	20"	540	2,440	1	10	070124X	
3"	89	24"	640	3,400	1	6	70125	

Corner pipe wrench 45°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 45° angled



	Inch	mm	Inch	mm	g			No.
1/2"	22	10"	250	370	1	6	070131X	
1"	34	12"	300	740	1	6	070132X	

	Inch	mm	Inch	mm	g			No.
1.1/2"	48	16"	420	1,340	1	070133X		
2"	60	20"	540	2,400	1	070134X		

Pipe wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



	Inch	mm	Inch	mm	g			No.
1"	34	12"	300	740	1	8	070110X	
1.1/2"	48	16"	420	1,340	1	6	070111X	
2"	60	20"	540	2,400	1	6	070112X	

	Inch	mm	Inch	mm	g			No.
3"	89	24"	640	3,400	1	70113		
4"	114	36"	750	5,600	1	70114		

General purpose tools

Pliers

One-handed pipe wrench
HEAVY DUTY

- KEY FEATURES
- One-handed ratchet-like use, self-clamping, spring-supported hook
 - Quick preset of pipe-Ø using scale on hook
 - Wearing parts replaceable: hook and heel jaw can be purchased separately
 - Monoblock cast body with high strength, double T profile, forged jaw and hook, fine polished, teeth set against turning direction, induction hardened, tempered and non-slip adjustment screw



2-part set (No. 1000002194) includes: one-handed pipe wrench HEAVY DUTY 6" (No. 70148), ROBOX B2350 (No. 1500002641)

Model	kg	No.
One-handed pipe wrench HEAVY DUTY 6", ROBOX 5	0.33	1000002194*

* ROBOX system p. 340



US-norm GGG-W-651
type II class A

	L	L					No.	No.	No.
	Inch	mm	Inch	mm	kg		pliers	hook	jaws
6"	160	3/4"	26	0.25	4		70148	70199	70189
8"	200	1"	32	0.40	4		70150	70200	70190
10"	250	1.1/2"	48	0.78	4		70151	70201	70191
12"	300	2"	60	1.25	4		70152	70202	70192
14"	350	2"	60	1.68	4		70153	70203	70193
18"	450	2.1/2"	73	2.67	2		70154	70204	70194
24"	600	3"	89	4.32	1		70155	70205	70195
36"	900	5"	141	7.5	1		70156	70206	70196
48"	1,200	6"	168	15.80	1		70157	70207	70197
60"	1,300	8"	203	24.00	1		70158	70208	70198

One-handed pipe wrench ALUDUR

- KEY FEATURES
- Features similar to HEAVY DUTY
 - Weight savings of approx. 40%: extremely light, high strength aluminium alloy
 - Wearing parts replaceable: hook and heel jaw can be purchased separately



US-norm GGG-W-651
type I class B

	L	L					No.	No.	No.
	Inch	mm	Inch	mm	kg		pliers	hook	jaws
10"	250	1.1/2"	48	0.48	4		70159	70201	70191
14"	350	2"	60	0.99	4		70160	70203	70192
18"	450	2.1/2"	73	1.63	2		70161	70204	70194
24"	600	3"	89	2.51	1		70162	70205	70195
36"	900	5"	141	5.00	1		70163	70206	70196
48"	1,200	6"	168	8.42	1		70168	70207	70197
60"	1,300	8"	203	14.60	1		70169	70208	70198

One-handed pipe wrench STILLSON

- KEY FEATURES
- Features similar to HEAVY DUTY
 - Hardened adjustment nut presses onto the handle during use and prevents undesired readjustment
 - Optimised double-spring construction guarantees quick and firm self-clamping, ensuring secure hold even on smooth pipes



US-norm GGG-W-651
type I class B

	L	L					No.	No.
	Inch	mm	Inch	mm	kg		pliers	hook
8"	200	3/4"	27	0.28	1	4	70350	70374
10"	250	1"	34	0.59	1	4	70351	70375
12"	300	1.1/4"	43	0.72	1	4	70352	70376
14"	350	1.1/2"	48	1.04	1	4	70353	70377
18"	450	2"	60	1.74	1	2	70354	70378
24"	600	2.1/2"	73	3.08	1	1	70355	70379
36"	900	3.1/2"	102	5.69	1	1	70356	70380

General purpose tools

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

	L	L					No.	No.	No.
	Inch	mm	Inch	mm	kg		pliers	hook	jaws
10"	250	1.1/2"	48	750	4		70166	70201	70191
14"	350	2"	60	1,460	4		70167	70203	70192



One-handed corner pipe wrench 90°

- KEY FEATURES
- Features similar to HEAVY DUTY
 - Weight savings of approx. 40%: extremely light, high strength aluminium alloy

	L	L					No.	No.	No.
	Inch	mm	Inch	mm	kg		pliers	hook	jaws
14"	350	2"	60	890	1		70115	70203	70192
18"	450	2.1/2"	73	1,490	1		70116	70204	70194



Chain pipe wrench 4" R/L

- KEY FEATURES
- Profile handle made of drop forged chrome vanadium steel, polished head with hardened special tooth system, powerful chain made of tempered special steel
 - Double-sided teeth surface set against the turning direction for use in both directions without re-inserting

							No.
	max. Inch	max. mm	L	L	g		
4"	115	12"	300	780	1	4	70235



Chain pipe wrench HEAVY DUTY

Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable

- KEY FEATURES
- Strong chain made of tempered special steel – fits every cross-section
 - Double-sided tooth system for ratchet-like use, for right and left-handed operation

						No.	No.
	max. Inch	max. mm	jaws width mm	L	kg	pliers	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

General purpose tools

Pliers

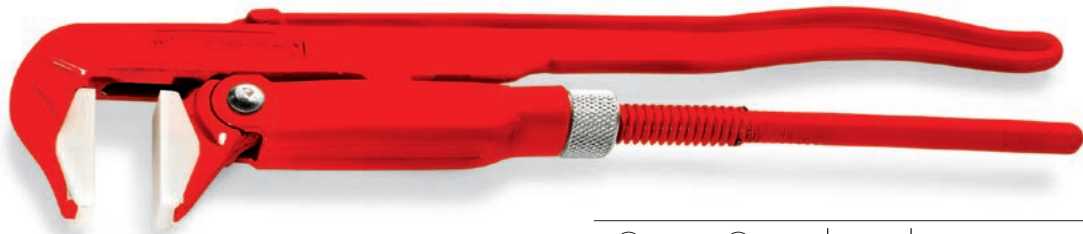
Fittings wrench 90°

Special chrome vanadium steel, steel forged

- KEY FEATURES
- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
 - High-quality DURAMANT surface coating



Plastic jaws, gentle grip!



							No.
	1"	35	14"	356	740	1 6	70545
Plastic jaws					10		70548

Fitting key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces



No. 350850



No. 350900

Model		Clamping width and depth				No.
	mm	mm	mm	mm		
Grid adjustment	260	75	45		690	350850
Roll adjustment	275	65	45		780	350900

SANIGRIP/SANIGRIP PL

Valve plier PL

Special chrome vanadium steel, drop forged, chrome-plated, 4 adjustable sizes at joint, with toothed grip jaws. SANIGRIP PL designed with plastic jaws to protect fittings



KEY FEATURES

- Secure and gentle grip on valuable fittings without damaging polished surfaces
- Optimum grip is ideal for plastic screw joints up to Ø 62 mm (siphon)



Model						No.
SANIGRIP	10"	250	80	14	270	70415
SANIGRIP PL	10"	250	62	14	280	70416
Plastic jaws (pair) for SANIGRIP PL				10		70417

General purpose tools

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



		Jaw width		No.
Inch	mm	mm		
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



		Jaw width		No.
Inch	mm	mm		
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

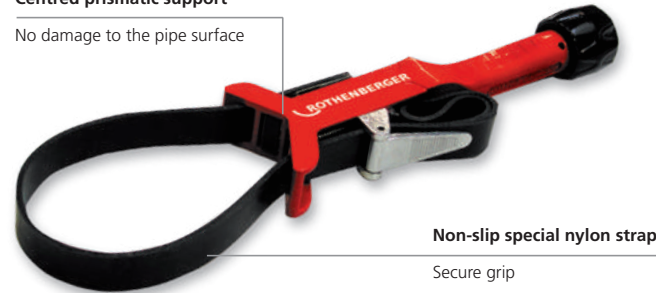
KEY FEATURES

- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap

Centred prismatic support
No damage to the pipe surface



Model				No.
	mm	Inch		
EASYGRIP	20 - 160	6"	1.0	55075
Spare strap EASYGRIP			0.1	55076



Non-slip special nylon strap
Secure grip

Strap and fittings wrench

Made of aluminium special alloy, with replaceable nylon strap

KEY FEATURES

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)



					No.
Inch	mm	Inch	mm		
3"	89	12"	300	280	70240
Spare strap 3"				20	70268
8"	220	12"	300	290	70241
Spare strap 8"				30	70269



General purpose tools

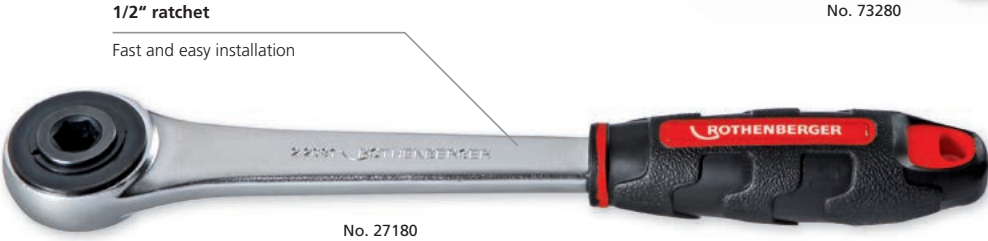
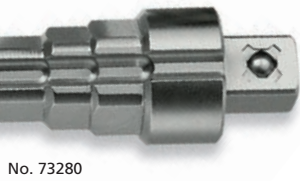
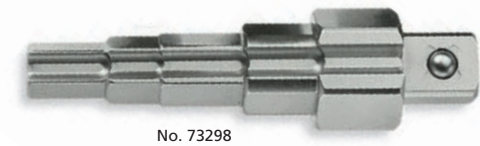
Installation wrenches

UNI stepped key set

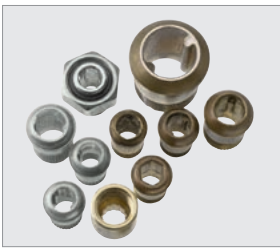
Radiator valve stepped key and ratchet set for installation and removal of heating valve nipples, tank connectors and short tap extensions. Chrome vanadium steel, hardened, nickelplated, square drive 1/2"

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				No.
Set: UNI stepped key and ratchet	670	1	10	73297
UNI stepped key	120	1		73298
Gas stepped key	80	1		73280
1/2" ratchet	440	1		27180



Express spanner

Chrome vanadium steel, drop forged, chrome-plated



KEY FEATURES

- Express spanner
- Ideal for hard-to-reach screws
 - Quick installation of sink fittings and corner valves
 - Hanger bolt M10, middle piece with internal screw thread
 - Easy loosening of the hanger bolt with integrated ball seat
 - When the internal hexagonal screw is loosened, the hanger bolt can be moved on the spanner axle (longer lever)

- Ring ratchet express spanner
- With the smallest of ratchet angles, fine-toothed, R/L switchable, 12-edged, flat offset



Spanner width	for hanger bolts size			No.
Wrench size 10 x muzzle size 13	M8	220	250	73290
Wrench size 17 x muzzle size 19	M10	220	250	73299
Wrench size 17 x muzzle size 19	M12	220	250	73291
Wrench size 19 x ring size 17	M10	260	390	73293

Ring ratchet express spanner



General purpose tools

Installation wrenches

Bolt driver

Bolt driver M6, M8, M10, M12 with 1/2" ratchet connector

- KEY FEATURES
- Without damage to the screw thread, for express and hanger bolts
 - Easy loosening of the screw with the integrated ball seat



4-part set (No. 26164) includes: bolt driver M6 (No. 26160), M8 (No. 26161), M10 (No. 26162), M12 (No. 26163), steel carrying case

Model			No.
Set M6 - M8 - M10 - M12		650	26164
Bolt driver M6	35	70	26160
Bolt driver M8	40	90	26161
Bolt driver M10	45	100	26162
Bolt driver M12	50	120	26163



Sanitary four way key

Chrome vanadium special steel

- KEY FEATURES
- Four external hexagonal 3/8", 1/2", 3/4", 1" up to 100 mm and installation / removal of heating valves and tank connectors
 - Three inner threads M8, M10 and M12 for hanger bolts



Model	Dimensions mm		No.
Sanitary four way key multifunctional	220 x 220	610	351043

Sanitary four way key

Chrome vanadium special steel

- KEY FEATURES
- Multi-functional combined key:
- Four external hexagonal 3/8", 1/2", 3/4", 1" for short tap, extensions, installation and removal of heating valves and tank connectors
 - Three inner threads M8, M10 and M12 for hanger bolts (wash basin fittings)



Model	Dimensions mm		No.
Sanitary four way key multifunctional	220 x 220	590	351044

General purpose tools
Installation wrenches

ROFIX SANISET Profi
Installation tool



No. 73201



No. 73200



No. 73202

1 tool for 5 uses!

User-friendly combination set for installation of basins, toilets and drains

KEY FEATURES

- Bolt driver tool for M8 and M10 enables easy use in all positions
- Seat for the 9 mm and 13 mm extensions, as well as the RO-QUICK 2 adaptor with the bolt driver tool
- Ease of use with the RO-QUICK 2 adaptor for the most common drains in bathtubs and basins



Set (No. 73200) includes: bolt driver tool (No. 73201), RO-QUICK 2 adaptor (No. 73206), extension 9 mm (No. 73210), 13 mm (No. 73213), steel carrying case (No. 26410)

Set (No. 73202) like set (No.73200), in addition extensions size 10, size 11, size 12 and size 14

Model	with extension mm	g	No.
ROFIX SANISET	9-13	900	73200
Bolt driver tool			
M8 / M10	215	120	73201
ROFIX SANISET Profi	9-10-11-12-13-14	1,500	73202
RO-QUICK 2-adaptor	90	40	73206
Special extension size SW 11	185	50	73208
Special extension size SW 10	185	50	73209
Special extension size SW 9	185	50	73210
Special extension size SW 12	185	50	73212
Special extension size SW 13	185	50	73213
Special extension size SW 14	185	50	73214

RO-QUICK

Valve key
Release valve holder and key for eccentric and standard valves



No. 70413

No. 70414



KEY FEATURES

- Quick and problem-free use by the installation of bathtubs, basins and sinks
- Can be used from the bottom up
- With 2 facing, spring mounted locking cams, as well as holder with T-handle
- Adaptor with star handle for showers, bathtubs (optional accessory)
- Torque-proof immediately on insertion

No damage to
chrome-plated parts!

Model	L mm	g	No.
RO-QUICK set			70439
RO-QUICK valve key	120	300	70414
Adaptor	75	70	70413

General purpose tools
Installation wrenches

ROCLICK

Combined open-ended / hinged ratchet wrench
Chrome vanadium steel, polished and high shine chrome-plated

KEY FEATURES

- Moveable ring ratchet allows for use even in tight spaces
- Precise work with the fine-running ratchet (72 teeth)



Fig. ROCLICK wrench set

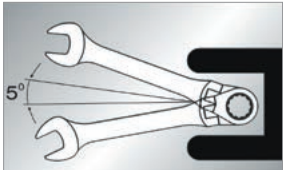


Small operating
radius of only 5°!

7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	g	kg	No.
ROCLICK spanner set, 7 pcs.	1,150	1 12	70490

Small 5° operating radius



Adjustable inclination angle



Torque wrench set

For proper tightening of flange connections

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

DIN
-Norm



Fix with
torque
urgently
necessary!

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

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

ROTURN

Combined ring / open-ended spanner

Chrome vanadium steel, polished and high shine chrome-plated

KEY FEATURES

- Loosening of up to 70% of damaged hexagonal screws with hexagonal open end and ridged profile
- Ergonomically optimised: Pressure on the flat side of spanner makes work easier



Protects the hand



8-part set (No. 70475) includes: ROTURN 10 - 11 - 13 - 14 - 16 - 17 - 19 - 22 mm, in plastic case

Model	kg	No.
ROTURN spanner set, 8 pcs.	1.7	1 12 70475


General purpose tools

Installation wrenches

Ratchet spanner ROCLICK

Chrome vanadium, head black atramentized




Model	Key width mm	L mm	 g	No.
Ratchet spanner ROCLICK	10	134	80	70420
Ratchet spanner ROCLICK	11	137	80	70419
Ratchet spanner ROCLICK	12	137	80	70421
Ratchet spanner ROCLICK	13	137	90	70422
Ratchet spanner ROCLICK	14	140	90	70423

KEY FEATURES

- With the spring mechanism – the harder the pressure, the more firmer the grip
- Self-ratcheting effect when turning back
- Fast extraction and loosening of screws
- Suitable especially for screws on pipes, cables and rods



Model	Key width mm	L mm	 g	No.
Ratchet spanner ROCLICK	16	184	130	70424
Ratchet spanner ROCLICK	17	184	140	70425
Ratchet spanner ROCLICK	19	188	188	70426
Ratchet spanner ROCLICK	21	230	230	70427
Ratchet spanner ROCLICK	24	240	240	70418




Ring ratchet spanner

Chrome vanadium steel, drop forged, chrome-plated



KEY FEATURES

- Ideal for hard-to-reach screws with the finely toothed R/L switchable ratchet
- 12-edged, flat offset, robust and indestructible

Model	L mm	 g			No.
12 x 14 mm	230	200	1	36	70271
13 x 17 mm	250	280	1	36	70272
19 x 22 mm	310	440	1	36	70274
24 x 27 mm	360	700	1	36	70276
30 x 32 mm	410	990	1	36	70277


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	L up to	Clamping width	 g	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


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	L 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

General purpose tools

Installation wrenches

Enormous leverage!




One-handed type R

The ideal multi-function spanner with ratchet function – for almost all bolt and nut applications up to a size of 42 mm (1.1/4")


KEY FEATURES

- Self-clamping even on smooth pipes, bolts, shafts and broken off head of hexagonal screws



L	L	Clamping width	Clamping width	 g	No.
160 mm	6"	SW 9 - 17	1/8 - 3/8"	80	70220
200 mm	8"	SW 14 - 28	1/4 - 3/4"	200	70221



L	L	Clamping width	Clamping width	 g	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

Double-ended ring wrench set

Chrome vanadium steel, chrome-plated DIN 838

10-part

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32 mm

12-part

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



Combination wrench set

Chrome vanadium steel, chrome-plated DIN 3113

8-part

8x8, 9x9, 10x10, 11x11, 13x13, 14x14, 17x17, 19x19 mm



Model	No.
Double-ended ring wrench set, 6-32 mm, 10 pcs.	849064
Double-ended ring wrench set, 6-32 mm, 12 pcs.	849065

Model	No.
Combination wrench set, 8-19 mm, 8 pcs.	849554

Double open-ended wrench set

Chrome vanadium steel, chrome-plated DIN 3110

10-part

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32

12-part

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



Model	No.
Double open-ended wrench set, 6-32 mm, 10 pcs.	849334
Double open-ended wrench set, 6-32 mm, 12 pcs.	849335
Double open-ended wrench set, 10 x 11 mm	849293
Double open-ended wrench set, 12 x 13 mm	849299

Model	No.
Double open-ended wrench set, 16 x 17 mm	849306
Double open-ended wrench set, 18 x 19 mm	849308

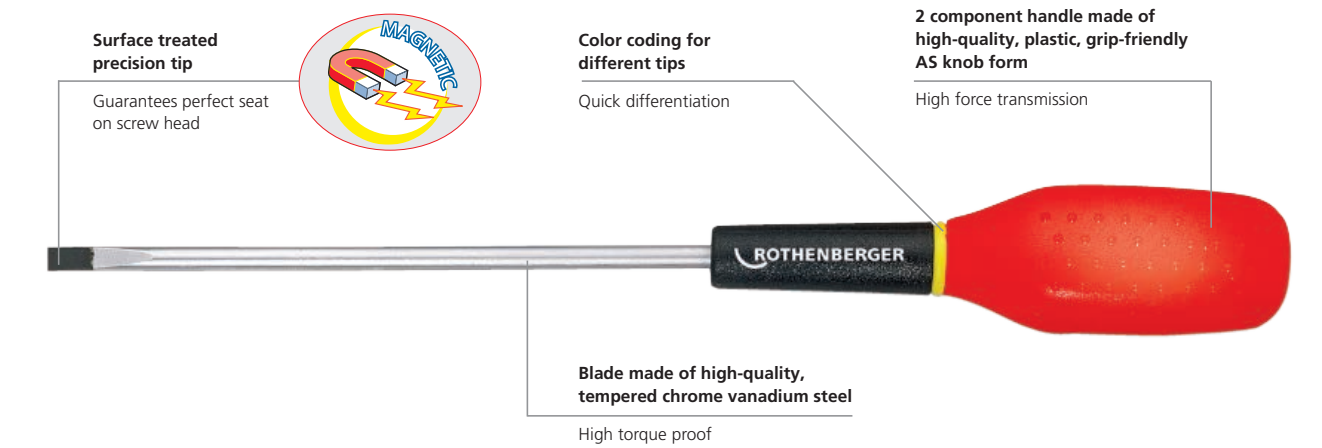
General purpose tools

Screwdrivers

EUROLINE

Screwdrivers

Product profile	
KEY FEATURES	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● Blade made of chrome vanadium steel with high torque and hardness, matt chrome-plated● Hardened, burnished tip with high durability for reliable force transmission even for tightly secured screws● Guaranteed perfect seat on screw head, long service life even with long term use● Handle made of high-quality plastic, grip-friendly AS knob form



Screwdrivers sets

Model	g	No.
Screwdriver set Pozidriv	0.70	73571
Screwdriver set Phillips	0.70	73570

Sets include:	Pozidriv No. 73571	Phillips No. 73570
	3.5 x 75 mm	3.5 x 75 mm
	4 x 100 mm	4 x 100 mm
	5.5 x 125 mm	5.5 x 125 mm
	6.5 x 150 mm	4 x 100 mm
	PZ 1 x 100 mm	
	PZ 2 x 125 mm	
		PH 1 x 100 mm
		PH 2 x 125 mm

Phillips screwdriver



Tip design	Model	g	No.
Width x Length mm			
PH 1 x 100	Phillips	80	73152
PH 2 x 125	Phillips	98	73153

Pozidriv screwdriver



Tip design	Model	g	No.
Width x Length mm			
PZ 1 x 100	Pozidriv	80	73161
PZ 2 x 125	Pozidriv	98	73162

General purpose tools

Screwdrivers

Chisel screwdriver set

EUROLINE IMPAKT

Screwdriver with continuous, strengthened blade

Product profile
KEY FEATURES
<ul style="list-style-type: none">● One-piece, strengthened blade with metal cap allows directed hammer blows, for example loosening stuck screws

Set (No. 73575) includes:

	5.5 x 100 mm
	6.5 x 125 mm
	8 x 150 mm
	PH 1 x 80 mm
	PH 2 x 100 mm



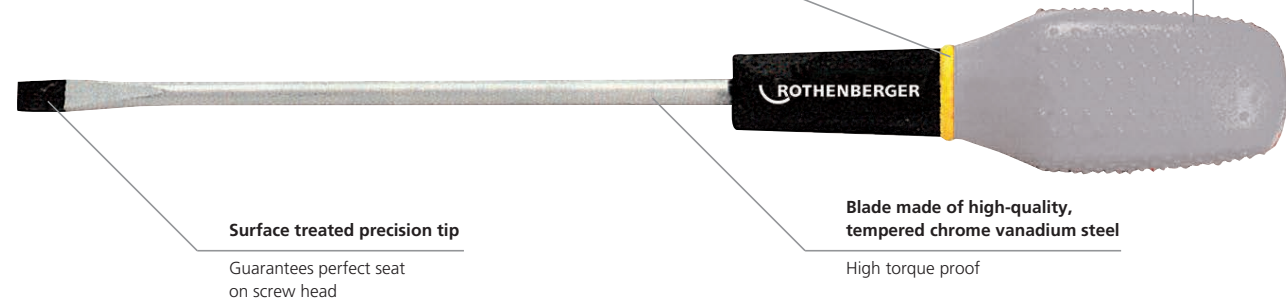
2 tools in 1!

Color coding for different tips

Quick differentiation

Handle made of high-quality plastic, grip-friendly AS knob form

High force transmission



Constant strenghtened blade with metal cap



5-part set (No. 73575) includes: slot screwdriver 55 x 100 (No. 73565), 6.5 x 125 (No. 73566), 8 x 150 (No. 73567), Phillips PH 1 x 80 mm 1 (No. 73536), PH 2 x 100 mm (No. 73537)

Model	g	No.
Chisel screwdriver set EUROLINE IMPAKT, 5 pcs.	950	73575

VDE screwdriver set

Blades made of chrome vanadium molybdenum steel, thoroughly hardened, extrusion-coated blade insulation tightly joined with handle, 1,000 Volt



Model	g	No.
VDE screwdriver set, includes:	680	323126
Slot 2,5 x 75; 4,0 x 100; 5,5 x 125; 6,5 x 150		
Phillips PH 1 x 80; PH 2 x 100 and live-wire-tester		



General purpose tools
Installation aids

ROCHECK

Spirit level for angled valves
For exact vertical and horizontal alignment of fittings

KEY FEATURES

- With horizontal and head levels
- One side with 1/2" external screw thread

Precise Installation!



ROCHECK

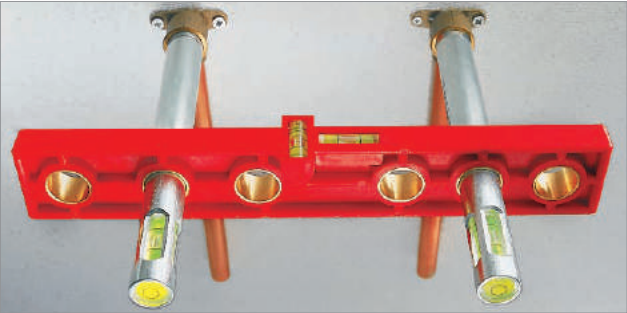
Spirit level for standard distances
Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

KEY FEATURES

- For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm

Exact Adjustment!

Exact installation by assembling jig for braces



4-part set (No. 70667) includes: spirit level for angled valves 200 mm (No. 70661), spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

Table with 4 columns: Model, weight (g), and No. for ROCHECK set and spirit levels.

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

Table with 4 columns: Model, weight (g), and No. for the 9-part set.

General purpose tools
Installation aids

RODOKIT set

Tap reseating tool
For accurate reshaping of worn tap seats from leaky spigots

KEY FEATURES

- Smooth, precise and centred chip removal with the special cutter with three milling cams
- Cone adaptor with multi-trapezoidal thread for various valve threads

Set (No. 70980) includes: basic tool, thread adaptor size 1, 2, 3, 4, cone adaptor, cutter Ø 12-15-16-18 mm

Table with 4 columns: Model, weight (g), and No. for RODOKIT set and components.

Table with 4 columns: Dimensions, weight (g), and No. for various RODOKIT cutters and thread adaptors.

Tap reseating tool

For exact re-cutting of worn tap seats from leaky spigots

Product profile

KEY FEATURES

- Fast and simple use with exact re-cutting of worn tap seats
- Cylindrical stepped threaded adaptor that is suitable for all conventional fittings
- Adjustable cutting pressure using spring and regulating screw enable precise work
- Exchangeable cutter is always ready for use

Table with 4 columns: Model, size (Inch), weight (g), and No. for Basic Tool with and without cutter, and various spare cutters.



With rust-free steel cutter for high-quality armature!



General purpose tools

Installation aids

Standard spirit level

Six-ring spirit level for applying 1% and 2% gradients!

10 year warranty!

A long, thin, silver-colored spirit level with a black handle and a green bubble level in the center. It has a scale on the side.

KEY FEATURES				
<ul style="list-style-type: none">● Deformation-free aluminium rectangular profile, anodised● Imprinted, centred centimetre scale● Shock and weather proof● Horizontal and vertical levels, non-breakable, permanently aligned in carrier● Measuring accuracy in normal position 0.029° = 0.5 mm / m				
Model	L mm	g	No.	
Standard spirit level	430	260	1500001583	
Standard spirit level	600	340	1500001547	
Standard spirit level	1,000	640	1500001548	

ROMATIC and ruler

Measuring tape

A red and black measuring tape with a yellow blade. The brand name 'ROTHENBERGER' and 'ROMATIC' are visible on the tape.

KEY FEATURES				
<ul style="list-style-type: none">● Easy handling● Automatic tape rewind● With set/stop button that can be used as marker for repeated measurements				
Model	Measuring length m	Tape width mm	g	No.
Tape measure ROMATIC	5	19	230	77397
Folding ruler, wooden	2		100	252100

Basin nut wrench

Special chrome vanadium steel, drop forged, very tough

KEY FEATURES

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation

A red basin nut wrench with a black T-handle and a rotatable claw.

KEY FEATURES							
Clamping range mm	Clamping range Inch	L mm	g				No.
19 - 32	3/4" - 1.1/4"	235	475	1	40		70228

Telescopic basin nut wrench

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation

Telescopic attachment, 4x adjustable in length!

A chrome-plated telescopic basin nut wrench with a pivoted reversible jaw.

Clamping range mm	Clamping range Inch	L mm	g	No.
10 - 32	3/8 - 1.1/4"	275 - 455	710	70225
20 - 48	3/4 - 1.7/8"	290 - 470	740	70226
32 - 63	1.1/4 - 2.1/2"	290 - 470	780	70227

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

Sheet metal crimping pliers with red handles and a silver-colored head.

L Inch	L mm	Sheet thickness mm	g	No.
10"	250	1.0	450	71095

Tower pincers / concreter's nippers

Special forged steel, slim head, polished, long plastic covered handles

Tower pincers with red handles and a silver-colored head.

L Inch	L mm	Clamping width mm	g		No.
9"	225	22	330	6	70118
10"	250	26	440	6	70119

General purpose tools

Installation aids

Basin nut pliers

Special chrome vanadium steel, drop forged, coated with adjustment screw

Basin nut pliers with red handles and a silver-colored head.

Model	L mm	g	No.
Basin nut pliers	270	580	351050

ROBOLT bolt cutter

Effortless cutting of construction steel up to 1300 N/mm² (HRC 40), gate steel, concrete steel types I, II, III, IV, pre-stressed concrete steel and steel wire

ROBOLT bolt cutter with red handles and a silver-colored head.

L mm	L Inch	Cutting performance Ø mm	kg	No. Robolt	No. head
300	12"	5 mm - 3/16"	0.75	75010	—
350	14"	7 mm - 1/4"	0.98	75011	75021
450	18"	8 mm - 5/16"	1.60	75012	75022
600	24"	10 mm - 3/8"	2.63	75013	75023
750	30"	13 mm - 1/2"	4.00	75014	75024
900	36"	16 mm - 5/8"	6.24	75015	75025
1.050	42"	19 mm - 3/4"	9.39	75016	75026

Universal grip wrench

Nickel-plated, forged chrome vanadium steel. Firm grip of profiles and flat materials. With lever gear and quick-release lever, adjustable and lockable

Universal grip wrench with a silver-colored head and red handles.

L Inch	L mm	Clamping width mm	g	No.
10"	250	32	570	70252

General purpose tools

Installation aids

Combination pliers

For hard and soft wire, special tool steel, oil hardened, special slim form, chrome-plated head, zero-play joint and heavily insulated handles

DIN -Norm

VDE approved



L mm	Model	g	No.
180	DIN 5244	250	324559

Insulation stripper

Special tool steel, oil hardened, chrome-plated, zero-play joint, heavily insulated handles, with adjustment screw and opening spring

VDE approved



L mm	max. mm	g	No.
165	5	160	324800

Long nose plier, straight

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles

DIN -Norm

VDE approved



L mm	Model	g	No.
200	DIN 5236A	200	324737

Edge cutter

For hard and soft wire, special tool steel, oil hardened, Swedish style, chrome-plated head, zero-play joint with heavily insulated handles

DIN -Norm

VDE approved



L mm	Model	g	No.
160	DIN 5238B	210	324577

Power edge cutter

For piano wire, hard and soft wire, powerful, special tool steel, oil hardened, chrome-plated head, zero-play joint, with heavily insulated handles

DIN -Norm

VDE approved



L mm	Model	g	No.
180	DIN 5238A	250	324588

Long nose plier, angled

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles

DIN -Norm

VDE approved



L mm	Model	g	No.
200	DIN 5236D	200	324739

General purpose tools

Cordless drill driver

Allen key with cross handle

Blade made of chrome vanadium special steel, shiny nickel-plated, shock-resistant handle

Key width SW mm	Blade length mm	g	No.
3	200	30	321523
4	200	40	321524
5	200	80	321525
6	200	100	321526
8	200	130	321528
10	200	220	321529
12	200	290	321530

Allen key set

CV steel 50Cr-V4, achromatised, hardness and torque in compliance with DIN 911

Model	Size mm / Inch	g	No.
Clip holder	2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	340	70301
Clip holder	3/32 - 1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8"	340	70302
Ring	2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250	321300

RO DD60 cordless drill driver

The RO DD60 can be used as drill and screwdriver



KEY FEATURES

- Quick change of bit retainer and bits, for flexible working
- Spindle with hexagonal recess for screwdriver bits for working without chuck
- Precise working conditions thanks to integrated working light for illuminating the contact area
- Handy belt hook and bit holder can be fixed either on the right or left side

TECHNICAL DATA

Batteryvoltage:	18 V
Max. torque:	34 Nm / 60 Nm
Weight with battery pack:	1.9 kg
Drill-Ø steel:	13 mm
Drill-Ø soft wood:	38 mm

Spindle with hexagonal recess

For screwdriver bits for working without chuck

Extremely powerful

4-pole motor for fast drilling and screwdriving

Quick change chuck

Quick change chuck for flexible work

Belt hook

Can be fixed either on the right or left side

LED-Light

Integrated working light to illuminate the contact area

Maximum power

Intelligent battery management with charge indicator to control the status of charge

Bit holder

Can be fixed either on the right or left side

No. 1000001949

Set (No.1000001647) includes: RO DD60 drill driver, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), quick change chuck, quick change bit holder, belt hook and bit case, ROCASE 4414 anthracite (No. 1000001949)

Model		No.
RO DD60 drill driver w/o battery and charger	1	1000002035
RO DD60 drill driver set EU	1	1000001647

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

General purpose tools

Drill bits

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


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



Model	Drill range mm	Drill quantity	 g	No.
In STEELBOX	1.0 - 13.0	25 pcs.	1,400	817003
In ROUND BOX	1.0 - 10.0	19 pcs.	465	816990

ROBIT PRO torsion

15 pieces




Set (No. 1500002454) includes: 14-bit: 1/4" x 25 mm, PH: 1, 2 mm, PZ: 1, 2 mm, FD: 4, 6 mm, HEX: 3, 4, 5 mm, TX: 10, 15, 20, 25, 30 mm, quick release magnetic bit holder

- KEY FEATURES
- For extrem usage
 - Suitable for an impact wrench
 - Special alloy for maximum life time

Model	No.
ROBIT PRO torsion bit set 15 pcs.	1500002454



 mm	No.
5.5	817057
7.0	817072
12.0	817110

General purpose tools

Installation aids

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

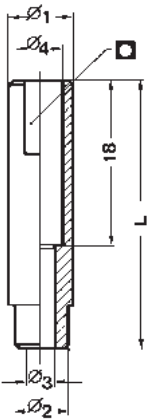
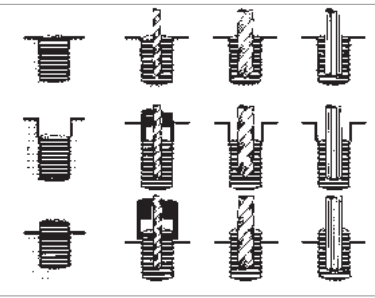





Fig. Screw extraction set, 25 pieces



For thread	Guide bush size	Guide bush No.	 mm	Pre-boring- No.	 mm	Boring No.	Boring stud Gr.	 mm	Boring stud No.	Boring nut hex for size	Boring nut No.
M 5	Size 1	71291			3.2	71301	Size 1	3.2	R7128100	Size 1 / SW 10	71286
M 6	Size 2	71292			3.2	71301	Size 2	4.8	R7128200	Size 1 / SW 10	71286
M 7	Size 3	71293	3.2	71301	4.8	71302	Size 3	6.4	R7128300	Size 2 / SW 11	71287
M 8	Size 4	71294	3.2	71301	4.8	71302	Size 4	8.0	R7128400	Size 2 / SW 11	71287
M 9	Size 5	71295	4.8	71302	6.4	71303	Size 5	8.7	R7128500	Size 3 / SW 13	71288
M 10	Size 6	71296	4.8	71302	6.4	71303				Size 3 / SW 13	71288
M 12	Size 7	71297	4.8	71302	8.0	71304				Size 4 / SW 14	71289
M 14	Size 8	71298	6.4	71303	8.7	71305				Size 5 / SW 17	71290
M 15	Size 9	71299	6.4	71303	8.7	71305				Size 5 / SW 17	71290
M 16	Size 10	71300	6.4	71303	8.7	71305				Size 5 / SW 17	71290

Toolkit sets

For versatile applications in installation and maintenance

Set (No. 1000002180) includes: 1x thin type lever ratchet handle with 72-teeth gear, 2x extension bars 50mm & 100mm, 1x universal joint, 1x sliding T-head 3/8" x 1/4", 12x sockets: 4-5-5,5-6-7-8-9-10-11-12-13-14mm, in soft foam and ROBOX B2350 (No. 1500002641)

Set (No. 1000002183) includes: 1x thin type lever ratchet handle with 72-teeth gear, 19x sockets: 8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24-27-30-32 mm, 5x deep sockets: 10-12-13-17-19mm, 1x universal joint, 2x extension bars: 125-250mm, 1x sliding T-head 1/2" - 3/8", 9x L-type hex key wrenches: 1,5-2-2,5-3-4-5-6-8-10 mm in soft foam and tray





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 Poz: 1-2 mm, 6x torx: 10-15-20-25-30-40 mm with color ring in soft foam and ROBOX B2350 (No. 1500002641)



No. 1000002183

No. 1000002181

Model	No.
17 pcs. socket set 1/4", ROBOX 	1000002180*
38 pcs. socket and hexagonal key set 1/2", tray 	1000002183*
53 pcs. special application bit set 1/4", ROBOX 	1000002181*
10 pcs. color ring bit set 1/4", ROBOX 	1000002182*

* ROBOX system p. 340

General purpose tools



Drill bits

UNIDRILL

HSS sheet metal cone bit

Step-less and burr-free drilling of holes without deformation, suitable for even the thinnest of sheets, no pre-drilling, can be re-polished, with spot drilling tip for size 3 and above

3-part set (No. 21545) includes: sheet metal cone bit size 1 (No. 21541), size 2 (No. 21542) and size 3 (No. 21543), in plastic cartridge


Size			No.
UNIDRILL set with drill paste	3.0 - 30.5	380	21545
EVERCOOL drill paste, 50 g		80	21549



HSS bimetal hole saws


Suitable for carbon steel (up to 700 N/mm² strength), non-ferrous and light metals, plastics, plaster, light construction, fibre, plywood and wood processing

Sets include: hole saw set in plastic case, adaptor holder A1 (No. 114161) and A2 (No. 114162) with center drill, plastic case

Hole saw sets		No.
19 - 22 - 29 - 38 - 44 - 57 mm	1.27	114201
19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm	1.70	114202


Adaptor holder


For HSS bimetal hole saws with center drill

Type	for Hole saw	Adaptor		No.
A2	32 up to 152 mm	12 mm - 6-hex	230	114162
Spare center drill, HSS		6.35 mm	20	114171



HSS bimetal hole saws

	for use with holder	No.
14	A1	114014
16	A1	114016
17	A1	114017
19	A1	114019
30	A1	114030
33	A2	114033
35	A2	114035
36	A2	114036
37	A2	114037
38	A2	114038
40	A2	114040

	for use with holder	No.
41	A2	114041
43	A2	114043
46	A2	114046
52	A2	114052
54	A2	114054
57	A2	114057
79	A2	114079
83	A2	114083
105	A2	114105
111	A2	114111
127	A2	114127

General purpose tools

Drill bits

UNICUT HM




Carbide-tipped hole saws for cutting circular holes Ø 16 - 140 mm (5/8 - 5.1/2") without impact

Product profile
APPLICATION AREA
For stationary and free-hand cutting of circular holes. For iron, steel, V2A - V4A, cast, copper, bronze, aluminium, zinc, plastic, fibre-glass, chipboard and wood, light construction plaster boards without impact
KEY FEATURES
For use even in high-speed hand drills and stand-mounted drilling machines due to anti-slip shaft
Positive cutting angle for good chip removal
Includes adaptor holder and replaceable HSS-Co5 centring drill up to 4 mm sheet thickness, cutting depth 10 mm

UNICUT HM


Hole saw set






			No.
16	5/8"	100	21316
26		130	21326
29		140	21329
31		180	21331
32	1.1/4"	180	21332
34		180	21334
35	1.3/8"	190	21335
37		190	21337



Set (No. 21300) includes: hard metal hole saws, drill- and extraction paste (No. 21549) and spare centering pin Ø 6 mm (No. 21394), in plastic case

Model		No.
UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm	950	21300
Spare centering pin HSS 8 mm		21395

			No.
47		210	21347
65	2.5/8"	390	21365
85	~3.3/8"	450	21385
90	~3.9/16"	550	21386
95	3.3/4"	580	21387
100	4"	590	21388
110	4.3/8"	700	21389
130	5.1/8"	880	21391

General purpose tools

Cordless impact wrench

HM-stone drill

High-performance drill made with carbide







	
	No.
9	112049
13	112053
14	112054

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

	
No. 21313	
Model	 mm  g No.
UNIDRILL stepped drill bit set, 3 pcs.	4 - 30 660 21313
Size	 mm  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/torque levels for a wide range of applications
- Handy belt hook, can be fixed either on the right or left side

TECHNICAL DATA

Battery voltage: 18 V
Weight with battery: 1.9 kg
Max. torque: 400 Nm
Max. no-load speed: 0 - 2,150 rpm
Maximum impact rate: 4,250 rpm

High torque

Accompanied by an exceptionally compact design

Unique brushless motor

For quick work progress and highest efficiency for any application

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

Bit holder

Can be fixed either on the right or left side

Bit holder

No. 1000001949

Set (No. 1000001648) includes: RO ID400 impact wrench, RO BP18/2 2.0 Ah battery (No. 1000001652), RO BC14/36 charger EU (No. 1000001654), bit holder, belt hook, ROCASE 4414 anthracite (No. 1000001949)

Model		No.
RO ID400 impact wrench w/o battery and charger	1	1000002036
RO ID400 impact wrench set EU	1	1000001648

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: 18 V
Weight without battery: 1.7 kg
Idle frequency: 8,000 / min⁻¹
Grinding wheel Ø: 125 mm
Spindle thread: M14

Electronic soft start

For smooth start-up

Quick system

For tool-free disc change by means of a quick-locking nut

Battery can be swiveled

For better working in confined places

Maximum power

Intelligent battery management with charge indicator to control the status of charge

Detachable dust filter

Protects motor from coarse particles

Slim design

For prolonged comfort when working overhead or in areas with limited space

Tool-free adjustable guard

Twist-proof

Side handle

Can be fixed either on the right or left side

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	1	1000002037
RO AG8000 angle grinder set EU	1	1000001649

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

General purpose tools

Cutting & grinding



No. 1300003338

General purpose tools

Cutting discs

Cutting disc assortment

For burr-free and quick cutting of stainless steel, steel, cast iron and stone

Description	No.	Alloyed and unalloyed steel	High strength steel	Tool steel	Rust- and acid-resistant steel	Edged steel profiles	Steel panel	Welded joints	Edged stainless steel profiles	Cast	Aluminiumalloying	Copper	Brass / bronze
Cutting disc INOX PROFI PLUS (115 x 1 x 22)	071533D	●	●	●	●●	●●	●●	●●	●●	○	●●	●●	●●
Cutting disc INOX PROFI PLUS (125 x 1 x 22)	071534D	●	●	●	●●	●●	●●	●●	●●	○	●●	●●	●●
Cutting disc INOX SAFE CUT (115 x 2 / 1 x 22)	071551D	●	●	●	●●	●●	●●	●●	●●	●	●	●	●
Cutting disc INOX SAFE CUT (125 x 2 / 1 x 22)	071552D	●	●	●	●●	●●	●●	●●	●●	●	●	●	●
Cutting disc INOX 2 in 1 (115 x 2.5 x 22)	071553D	●	●	●	●●	●	●●	●●	●●	●●	○	○	○
Cutting disc INOX 2 in 1 (125 x 2.5 x 22)	071554D	●	●	●	●●	●	●●	●●	●●	●●	○	○	○

●● = very well suited ● = well suited ○ = partially suited

INOX PROFI PLUS

Grinding / cutting discs for stainless steel (1 mm)

For thin sheet metal (e.g. in body work, tank equipment and container construction), steel cable, thin-walled profiles and pipes made of stainless steel and NE metals, composite materials (GFK), high-temperature materials

- This very thin wheel enables a one-of-a-kind clean cut with a minimum of effort in a short amount of time
- Millimetre accurate use, vibration-free operation without thermal blue discolouration or burr formation (burr-free)



Model	Dimensions mm	g	g	g	No.
PROFI PLUS box 115	115 x 1 x 22	350	1(10)	25	071533D
PROFI PLUS box 125	125 x 1 x 22	450	1(10)	25	071534D



SAFE CUT

Cut-off disc for steel and stainless steel

- One-of-a-kind conical form that prevents the cut-off wheel from getting jammed in the workpiece and avoids the dangerous “kick-back”-effect
- The profiles tapers from a 2 mm outside thickness to 1 mm on the inside, thus the cutting behaviour is optimised
- Comfortable, simple cutting with absolute peace-of-mind



Model	Dimensions mm	 g		No.
INOX SAFE CUT box 115	115 x 2/1 x 22	350	1(10)	071551D
INOX SAFE CUT box 125	125 x 2/1 x 22	450	1(10)	071552D



2 in 1

Cut-off and grinding disc for steel and stainless steel

- Fast cutting and side grinding in one step
- For cutting at a comfortable speed
- Instant (without changing wheel) deburring, chamfering and grinding
- The lateral load is certified (CN 12413)

Model	Dimensions mm	 g		No.
2 in 1-pack 115	115 x 2.5 x 22	550	1(10)	071553D
2 in 1-pack 125	125 x 2.5 x 22	650	1(10)	071554D



2 in 1!



Follow all manufacturers instructions



Don't rough down



Follow work safety measures



Do not use defective grinding/ cutting discs

General purpose tools

Rotary hammer

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

TECHNICAL DATA

Battery voltage:	18 V
Weight with batterypack:	2.9 kg
Max. single blow energy (EPTA):	2.2 J
Maximum impact rate:	4,000 /min.
Drill-Ø concrete with hammer drills:	24 mm
Drill-Ø masonry with core bits:	68 mm
Drill-Ø steel:	13 mm
Drill-Ø soft wood:	25 mm
No-load speed:	0 - 1,100 /min.
Bit retainer:	SDS-plus



Set (No.1000001649) includes: RO RH4000 rotary hammer (No. 1000002038), RO BP18/4 4.0 Ah battery (No. 1000001653), RO BC14/36 charger EU (No. 1000001654), hammer chuck for tools with SDS-plus shank end, rubber-coated side handle drilling depth guide, ROCASE 4414 anthracite (No. 1000001948)

Model	No.
RO RH4000 rotary hammer w/o battery + charger	1 1000002038
RO RH4000 rotary hammer set EU	1 1000001650

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



General purpose tools

Hammers, chisels, pin punches

Fitter's hammer

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft



Head weight 	Total weight 	No.
300	470	322823
400	590	322824
500	670	322825

Lump hammer

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft





Head weight 	Total weight 	No.
1,250	1,380	322922

Chisel

Safety tempered impact head prevents splintering off the chisel head

- Silver lacquered tip
- Chrome-manganese-silicon-steel



Model	Length mm	Shaft mm	Cutting width mm	without hand protection 	with hand protection 	No.
Mason chisel, flat	300	16	22	470	560	77050
Mason chisel, pointed	300	16	—	455	545	77090
Slotting chisel	235	26 x 7	26	245		25811

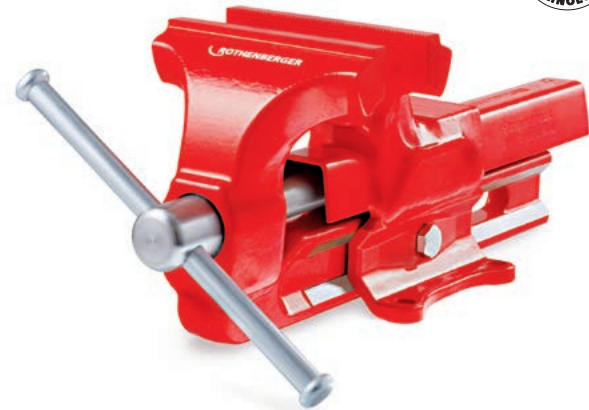
General purpose tools




Vices

Parallel vice

With forged and hardened pipe jaws, steel forged underneath the parallel vice jaws

- Non-breakable
- Protected, powerful spindle with trapezoidal thread
- Re-adjustable double-sided guide
- Anvil base for levelling and compressing work






Jaw width mm	Clamping width mm	depth mm	 for pipes Inch	 for pipes mm	 kg	No.
120	125	65	3/8 - 1.1/2"	16 - 55	8.7	070705X
140	150	80	3/4 - 2"	27 - 70	15.6	070735X

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	 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 / mm 	No.
ROBOY	650 x 400 14.9	70700

General purpose tools

Workbenches

Tripod uni workbench

With / without integrated chain vice

- Collapsible, extremely stable frame
- Attachment of various tools is possible
- Screw fixture for 1" pipe to enable overhead support of the unit
- **with integrated chain vice**
- Bending of pipes Ø 3/8" - 1/2" - 7/8"
- **without integrated chain vice**
- Bending of pipes Ø 3/8" - 1/2" - 3/4"
- Universal vice attachments applicable for pipe vice (No. 70710) and chain pipe vices (No. 70713, 70714, 70715)



Working unit

With pipe vice 1/8" - 2"

- Collapsible, stable, non-slip frame
- with folding pipe vice, bending holes and large tool tray

Model	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



Model	Size mm	kg	No.
Telescopic workbench	700 x 450 x 30	17.4	070699X

Universal workbench

- Stable and tough, easy to transport: collapsible tubular frame
- Optimum work surface: work plate made of processed beech wood
- Model "Pipe-fitter" steel edges all around: ideal for vice machining



Model	Size mm	kg	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

General purpose tools

General aids & tool bags

Hemp dispenser with roll



Model		No.
Roll 40 g / 40 m	1	70623

Cutter knife



All-purpose marker

Writes on tile and glass



Carpenter pencil



Model		No.
All-purpose marker	1	856911
Carpenter pencil	1	856907

Trendy tool bag

- Lots of storage room for all your tools



Model		No.
Trendy tool bag (380 x 300 x 370 mm)	1	402311
Tool bag (450 x 285 x 335 mm)	1	1500001320

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.
Tool bag, small (280 x 360 x 230 mm)	1	1500002182
Heavy duty tool bag (620 x 250 x 350 mm)	1	402317

Tool bag, HEAVY DUTY

- Especially stable with the stable plastic bottom



Toolbox apprentice

- Lots of storage room for all your tools



Model		No.
Toolbox apprentice	1	402312
Belt bag (250 x 120 x 310 mm)	1	1500001460
Belt for belt bag	1	1500001461

Belt bag

- Very light, handy bag for the most important tools
- Keeps the tools organized and easy to grab when needed



Trendy shoulder toolbox

- Very light, handy bag for the most important tools



Model		No.
Trendy shoulder toolbox (250 x 220 x 140 mm)	1	402308
Tool roll cover (730 x 300 mm)	1	1500001468

Tool roll cover

- Ideal for hand tools with straps and flaps inside the roll cover



General purpose tools

Tool bags

Apprentice set, 50 pcs.

Tough installation toolbox completely equipped with all the tools the craftsman needs

- Extensive and practical tool assortment
- Case made of galvanized steel
- Dimension: 530 x 200 x 200 mm



Set (No. 19166) includes: water pump wrench type SP 10", corner pipe wrench Super S (1"), ALU-spirit level, anodized (500 mm), hacksaw frame (300 mm), 10x HSSE 4 PLUS saw blades, fitter's hammer (300 g), lump hammer (1,250 g), PUK-hacksaw (290 mm) + 12x saw blades, basin nut wrench, stone chisel flat (300 x 16 mm), express spanner, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), allen key set, 7-parts, wooden ruler (2 m), carpenter pencil, TUBE CUTTER 35 (6-35 mm), MINICUT I PRO (3-16 mm), extension key, corner pipe wrench Super S (1.1/2"), cutter knife, ROGRIP F (10"), installer toolbox, dimensions: 530 x 200 x 200 mm

Model		No.
Apprentice set, 50 pcs.	1	19166

General purpose tool set, 57 pcs.

Tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



Set (No. 1000001425) includes: TUBE CUTTER 35 DURAMAG (6 - 35 mm), UNI-stepped key + ratchet, Uni-small saw PUK, 10x saw blade for PUK-saw metal, saw bow ROBO Super, 10x saw blades BI-METALL HSSE 4 Plus, express spanner (M10, SW 17 x 19), EUROLINE screwdriver set (2x PH, 4x Sclot), spirit level, carpenters pencil, flexible ruler, MINICUT I Pro (3-16 mm), profi universal knife, hammer with hickory wooden handle, electrician chisel, flat, sanitary four way key, ROGRIP M XL (3.1/2"), ROGRIP M 10", ROGRIP M 7", ROCUT TC 42 (0-42mm), double-end box wrench set (10 pcs., 6-32 mm), tool bag (450 x 285 x 335 mm)

Model		No.
General purpose tools set, 57 pcs.	1	1000001425

General purpose tool set, 13 pcs.

Compact tool bag with a lot of pockets and tool holders with a waterproof plastic bottom. The set offers a good selection of high quality tools for every craftsman.



Set (No. 1000001745) includes: EUROLINE screwdriver set, water pump plier SP 10", water pump plier SP 7", professional cutter knife, MINI MAX Tube Cutter, 3-28 mm, GRATFIX H55 with spare blade, ring ratchet express spanner, M10, 17x19, sanitary four way key multifunctional 3/8-1", flexible ruler, wooden, 2 m, aluminum spirit level, carpenter pencil, safety glasses UVEX, tool bag (280 x 360 x 230 mm)

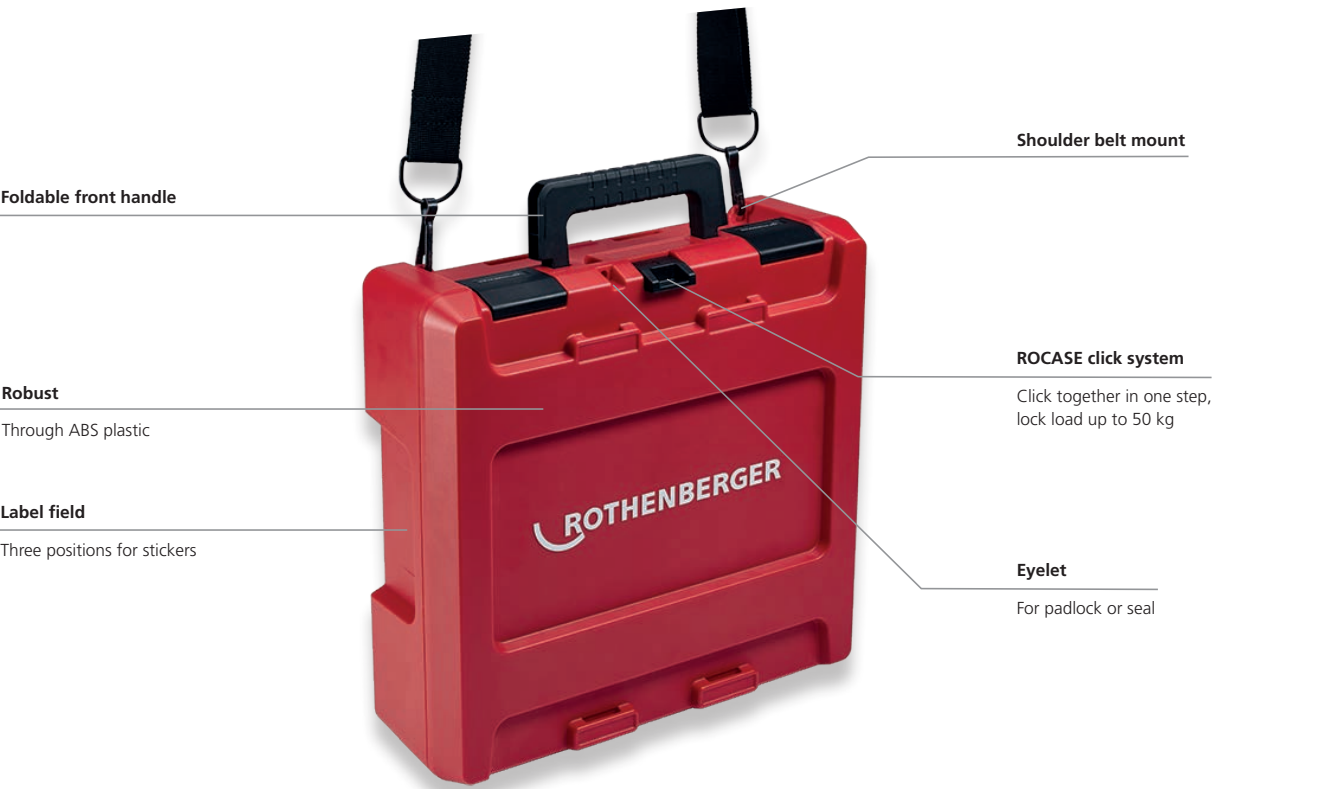
Model		No.
General purpose tools set, 13 pcs.	1	1000001745

General purpose tools

Case system

ROCASE case system

	ROCASE 4212	ROCASE 4407	ROCASE 4414	ROCASE 6414	ROCASE 6427
					
	No. 1300003334	No. 1300005506	No. 1300003541	No. 1300003336	No. 1300003337
Outer dimension:	390 x 190 x 120 mm	390 x 390 x 70 mm	390 x 390 x 140 mm	590 x 390 x 140 mm	590 x 390 x 270 mm
Inner dimension:	377 x 150 x 100 mm	349 x 356 x 51 mm	348 x 352 x 122 mm	548 x 352 x 122 mm	548 x 352 x 250 mm
Volume in l:	5.7 l	6.3 l	14.9 l	23.5 l	48.2 l
Weight:	0.63 kg	1.2 kg	1.30 kg	1.89 kg	2.64 kg
Color:	red, anthracite	red	red, anthracite	red	red
Quantity of inlays (currently changed):	7		16	6	1



Model		No.
ROCASE 4212 red, without inlay 39 x 19 x 12 cm	1	1300003334
ROCASE 4212 anthracite, without inlay, 39 x 19 x 12 cm	1	1300003649
ROCASE 4407 red, without inlay 39 x 39 x 7 cm	1	1300005506
ROCASE 4414 red, without inlay 39 x 39 x 12 cm	1	1300003541
ROCASE 4414 anthracite, without inlay, 39 x 39 x 14 cm	1	1300003338
ROCASE 6414 red, without inlay, 59 x 39 x 14 cm	1	1300003336
ROCASE 6427 red, without inlay, 59 x 39 x 27 cm	1	1300003337

General purpose tools

Case system

ROCASE shoulder belt

Model		No.
ROCASE shoulder belt with logo	1	1500002239

ROCASE 4212/4414 pluck foam inlay

Model		No.
ROCASE 4212 pluck foam inlay	1	1500002449
ROCASE 4414 pluck foam inlay	1	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	1	1000002108

ROBOX set for ROCASE 4414

Set includes: 1x ROBOX tray, 6x ROBOX B2350 (No. 1500002641)

Model		No.
ROBOX set for ROCASE 4414	1	1000002109

ROBOX

Model		No.
ROBOX B2350, 192 x 114 x 50 mm	1	1500002641
ROBOX B2650, 364 x 114 x 50 mm	1	1500002763



ROCASE 4407 with ROBOX

The ROCASE with a transparent lid is compatible with the other cases. In the inside of the case there is a structure to fix the ROBOXes.

KEY FEATURES:

- Optimisation of the daily work because items are perfectly organised into the case

Set includes: ROCASE 4407, 6x ROBOX B2350 (No. 1500002641)

Model		No.
ROCASE 4407 with ROBOX, 390 x 390 x 70 mm	1	1000002625



General purpose tools

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	1	7.0	1000002628



Cases not included

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		kg	No.
ROBUCKET with 1x ROBOX B2650, 39.5 x 31.2 x 32.1 cm	1	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", ROGRIP M 10", 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		No.
Hand tool kit 4414, 18 pcs.	1	1000001955



General purpose tools

Case system

ROCASE sets with ROBOX 5

The ROCASE sets contain seperate handtool and trimming sets for pipe working

KEY FEATURES

- Handy and reusable individual packaging of the tool sets
- Case with click-system for easy transport



Set (No. 1000002195) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (No. 1000002181), 10 pcs. color ring bit set 1/4" (No. 1000002182), ROBOX B2350 (No. 1500002641)

Set (No. 1000002196) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), 38 pcs. socket and hexagonal key set 1/2", tray (No. 1000002183)

Set (No. 1000002197) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. with ALUDUR, ROBOX (No. 1000002189), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (No. 1000002181), 10 pcs. color ring bit set 1/4" (No. 1000002182), ROBOX B2350 (No. 1500002641)

Set (No. 1000002198) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plier set 3 pcs. with ALUDUR, ROBOX (No. 1000002189), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191), TUBE CUTTER INOX + cutter wheels, ROBOX (No. 1000002192), 38 pcs. socket and hexagonal key set 1/2", tray (1000002183)

Set (No. 1000002199) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (1000002181), ROBOX B2350 (1500002641), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), MINICUT I PRO + MINI MAX, ROBOX (No. 1000002191)

Set (No. 1000002223) includes: ROCASE 4414 red without inlay and holder (No. 1300003541), plastic tube shear ROCUT TC 42, ROBOX (No. 1000002193), 17 pcs. socket set 1/4" (No. 1000002180), 53 pcs. special application bit set 1/4" (No. 1000002181), ROBOX B2350 (No. 1500002641), plier set 3 pcs. (Super S 1"), ROBOX (No. 1000002188), TUBE CUTTER TC35 + cutting wheels, ROBOX (No. 1000002190), TUBE CUTTER INOX TC35 + cutting wheels, ROBOX (No. 1000002222)

Model	kg	No.
103 pcs. handtool set with corner pipe wrench, ROCASE	7.07	1000002195
57 pcs. handtool set with corner pipe wrench, ROCASE	9.14	1000002196
103 pcs. handtool set with one-handed pipe wrench ALUDUR, ROCASE	7.17	1000002197
57 pcs. handtool set with one-handed pipe wrench ALUDUR, ROCASE	9.14	1000002198
94 pcs. handtool set with MINICUT and MINI MAX, ROCASE	5.59	1000002199
98 pcs. handtool set with INOX TUBE CUTTER TC35, ROCASE	5.61	1000002223

Cordless Alliance System:

One battery, many solutions.



ROTHENBERGER is part of this innovative system.

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**.

Item	Page	Item	Page	Item	Page	
#		Chain pipe cutter	17	Expander head standard	82	
		Chain pipe vice	335	Expander head type S	85	
	2 in 1, Cut-off and grinding discs	330	Chain pipe wrench 4" R/L	307	Express spanner	310
	3-elemental standard press jaw	113	Chain pipe wrench HEAVY DUTY	307	Extensions for drill bits	50
3-piece pressure hose sets	281	Chain-spinning heads	241	Extraction rotor "RODIADUST"	50	
A		Chain-spinning heads with spikes	241	Extractor cam pincer	93	
		Chisel	332, 334	Extractor support	93	
	Adaptor holder	326	Chisel screwdriver set	317	F	
	Adaptor magazines	234	Clamping device for electric	261		
Adjustable wrench	291, 314	socket welding		Fitter's hammer		334
AIRPROP	156	Clutch jaw for R 750	234	Fitting key		308
Allen key set	323	Clutch jaws	234	Fittings soft solder flux	175	
Allen key with cross handle	323	COMBI KIT expander /	90	Fittings solders	175	
ALLGAS 2000 PS 0.5 / 2 Basic	167	tee-extractor		Fittings wrench 90°	308	
ALLGAS 2000 PS 0.5 / 2 Compact	165	Combination pliers	322	Flame reflectors	173	
ALLGAS 2000 set	164	Combination wrench set	315	Flange adaptor clamping unit	263	
ALLGAS 2000 welding tips	165	Concrete / masonry fixing set	49	Flanged riveted expander heads	85	
ALLGAS Mobile Pro	166	Copper tube bending springs	61	Flaring and bending set	96	
All-purpose marker	337	Corner pipe wrench 45°	305	Flexible pipe welding attachments	165	
Ammonia stone	172	Corner pipe wrench 45°, SUPER S	305	Flux brush	176	
Analogue manifolds	280	Cross-blade cutter, serrated	240	Four-blade cutter	240	
Apprentice set, 50 pcs.	338	Cutter knife	337	Funnel auger	239	
Pipe cutter	17	Cutter wheels	253	G		
B		Cutting disc assortment	330			
		Cylinder pressure reducer	171		Gas test plug / adaptor	189
	Ball head cutter	242	Cylinder transport trolley		170	General purpose tool set, 13 pcs.
	Band saw blades for PORTACUT	27	D		General purpose tool set, 57 pcs.	338
Basic clamping set P 110	263			GRATFIX HSS / UNIGRAT	32	
Basic clamping set P 160	265	Deburrer adaptor I / II		31	Grease cutter	240
Basic clamping set P 250 A	267	Double clamp short		261	Grooved water pump pliers CL	303
Basin nut pliers	321	Double-ended ring wrench set	315	H		
Basin nut wrench	320	Double open-ended wrench set	315			
Battery pack system CAS	211, 333	Drop-head auger	239		Hand-held welding mirror	172
Belt bag	337	Dual hoses A/O	170		Hand roll groover 1 - 12"	142
Blowback prevention	171	DX-HIGH SPEED PLUS	47	Hand tool kit 4414, 18 pcs.	341	
»B« MaxiPro	104	universal drill bits		Hand wire brushes	173	
Bolt driver	311	E		Hard solder paste LP 5	176	
Bottle connection and adaptors	290		EASYGRIP	309	Hard solder powder HKM	176
Brush attachments	211		Edge cutter	322	Hard solder rings S 2	176
Bulb auger, long	239		Electro-hydraulic	88	HD 11/90	246
Bulb auger, short	239	expander pistol H1		HD 13/100	246	
Burners cleaner	172	ENORM 4"	20	HD 17/190	247	
C		EUROLINE	316	HD 19/180 B	247	
	Carbide-tipped cutters	242	EVERCOOL	93	Heating plate	263, 267
	Carpenter pencil	337	Expander A0	84	Hemp dispenser with roll	337
	Cartridge extractor set	318	Expander adaptor type S	85, 88	High Speed Plus natural stone	46
Ceramic protection hose	234	Expander head ROLOCK	83	HM cutter clade inserts	253	
				HM-stone drill	328	

Item	Page	Item	Page	Item	Page
		O		R	
House connection test set	190	One-handed corner pipe wrench 90°	307	R 80	232
HSS bimetal	30	One-handed pipe wrenches	306	R 100 SP	232
HSS bimetal hole saws	326	One-handed pipe wrench OFFSET	307	R 140 B	233
HSSE 4 Plus	26	One-handed type R	315	R 550	226
Hydraulic expander system H 600	87	Oxy-acetylene hoses	170	R 600	226
I		Oxygen hoses	170	R 650	227
		Oxygen refilling bend	171	R 750	227
		P		Ratchet pipe deburrer 1/4 – 2"	32
				Ratchet spanner ROCLICK	314
INOX Profi Plus	330			RE 17 cutting tips and	169
Insulation stripper	322			heating burners	
Interchangeable press jaws	112	Parallel vice	335	RE 17 Three-gas systems	168
compact		Peeling device for	261	RE 17 UNIVERSAL pipe welding set	169
Internal brushes for copper pipe	173	electric socket welding		RE 17 welding attachments	169
J		Phillips screwdriver	316	RE 17 welding attachments,	169
		Pipe cutters and spare parts	21	bendable	
		Pipe roughing wrench 3/8 - 2"	141	RE 17 wing-lever cutting att.	169
		Pipe supporting column	141	Reducing / extension pieces	245
Lightweight steel cylinders, filled	170	Pipe vice	335	Reduction inserts narrow P 110	263
Long nose pliers, angled	322	Pipe welding grip pliers	309	Reduction inserts P 160 SANILINE	265
Long nose pliers, straight	322	Pipe wrench 90°	305	Reduction inserts P 250 A	267
Lump hammer	334	Plastic pipe chamfering unit	32	Reduction inserts wide P 110	263
M		PLASTICUT PVC	25	Reeling flaring tool	96
		Plate fin comb	291	Refilling adaptor	161
		PORTACUT 185 BSR / BSP	27	Refrigerant for air-conditioning	288
		Power edge cutter	322	Replacement safety foot switch	141
Magnet welding mirror	172	Pozidriv screwdriver	316	Retrieving auger	239
Manifold sets	280	Precision die heads	134, 140	Ring ratchet express spanner	310
Manual drain cleaner type 3 S	224	Precision double flaring press	94	Ring ratchet spanner	314
Manual trimmer unit	263	Precision threading dies	140	Riveted expander heads H2	88
MAPP gas	154	Press chains standard	114	ROAIRVAC	284
Maxigas 400	155	Press jaws compact	111	RO AG8000 cordless angle	329
Metal saw frame	26	Press jaws standard	112	grinder	
MINIBEND	60	Press jaws standard sets	113	ROBEND 3000/4000	70
MINICUT 2000	16	Pro bender	59	bending formers	
MINICUT I PRO / II PRO	16	Professionssional sets	304	ROBEND 4000	68
MINI MAX	16	PROFI PLUS	324	ROBEND 4000 sets	69
Mini-Modul ROCAM Plus 4	209	Propane hose cut-off valve	161	ROBEND H+W PLUS	62
MSR internal bending springs	61	Propane hoses	161	ROBEND H+W PLUS bender	63
MULTI 300 propane kit	159	Propane regulators	161	ROBIT PRO	324
MULTIBEND standard bender 180°	59	Propane steel cylinder	161	ROBIT PRO torsion	324
Multigas 110	155	Protective guard for	171	ROBOLT bolt cutter	321
Multigas 300	155	pressure reducer		ROBO Mini	26
MULTI MOBILE set	158	Protective rubber cap	171	ROBO Super	26
N		Quad clamps	261	ROBOX	340
		Quick clamping column	49	ROBOX plier sets	304
		Q			
Neutralizer powder	220				
NIPPEL MAX	141				
Nitrogen set	282				
Nozzles and accessories for	258				
Quick S and WG 1600E					

Item	Page	Item	Page	Item	Page
ROBOX set for Rocase 4414	340	RODIADRILL 500	43, 45	RONOL SYN	135
ROBOY clamping workbench	335	RODIADRILL Ceramic	39	ROOFING set	160
ROBUCKET	341	RODIA DRY CLEANER 1600	51	ROPOWER 50 R	136
ROBULL MSR type E	65	RODOKIT set	319	ROPOWER HANDY	224
ROBULL MSR type E bending segments	65	RODRUM M&L	230	ROPOWER profile cable	237
		RODRUM M & L drums	231	ROPULS eDM flushing compressor	216
ROBULL MSR type ME	67	RODRUM S	228	ROPULS flushing compressor	217
ROBULL MSR type ME bending segments	67	ROFIRE 4	153	ROPUMP SUPER PLUS	222
		ROFIRE 4 PIEZO	153	RO-QUICK	312
ROBULL type E	65	ROFIRE GLOBAL	152	ROREC	286
ROBULL type E bending segments	65	ROFIRE Swivel PRO cyclone piezo	152	ROREC PRO Digital	287
ROBULL type E / ROBULL MSR type E	64	ROFIRE Swivel PRO twin	152	ROREC PRO Digital	287
		ROFIX adaptor	134		
ROBULL type ME	67	ROFIX SANISET Profi	312	ROSCALE 120	289
ROBULL type ME / ROBULL MSR type ME	66	RO FL180 cordless LED lamp	333	ROSCOPE i2000	203
		ROFLAME 4 PIEZO	152	ROSCOPE i2000 module 25/16	205
ROCADDY 120 R32	278	ROFLARE REVOLVER	95	ROSCOPE i2000 module 25/22	204
ROCAL 20 / ROMATIC 20	219	ROFROST Dry Ice set	197	ROSCOPE i2000 module	206
ROCAL Acid Multi / Plus	220	ROFROST Handy	197	ROLOC PLUS	
ROCAM 4 Plus	208	ROFROST heat conductive paste	196	ROSCOPE i2000 module TEC	204
ROCAM camera heads	210	ROFROST Turbo R290 1.1/4"	195	ROSCOPE mini	202
ROCAM expander power torque	78	ROFROST Turbo R290 2"	195	ROSLICE	18
ROCASE	339	ROFROST Turbo reduction inserts	196	ROSOLAR PUMP	221
ROCASE sets with ROBOX	342	ROFUSE 400 / 1200 TURBO	260	ROSOL soldering paste	175
ROCASE shoulder belt	340	ROGRAT MSR deburrer	33	ROSPI H+E PLUS	223
ROCASE Trolley	341	ROGRIP F	300	ROSPIMATIC CL	225
ROCHECK	318	ROGRIP M	300	ROTEST	191
ROCLEAN function	218	ROGRIP plier sets	304	ROTEST Electronic 3	191
ROCLICK	313	ROGRIP S	301	ROTEST GW 150/4	188
ROCOOL 600	279	ROGRIP XL	301	ROTEST GW Digital V3	186
ROCUT	22	ROGROOVER 1 - 6"	142	ROTHERM 2000	162
ROCUT 110 / ROCUT 160	252, 253	ROGROOVER 1 - 12"	143	ROTIGER VARIO Electronic	28
ROCUT TC 26 / TC 32	23	RO ID400 cordless impact wrench	328	ROTORQUE AIRCON /	97
PS 26 / PS 42 S / PS 35 S	23	ROKLIMA MULTI 4F	276	REFRIGERATION	
ROCUT TC 50 / TC 75 Professional	23	ROLEAK	283	ROTRAC 28 / 42	16
ROCUT TC 63 Professional	23	ROLEAK Pro	283	ROTURN	313
ROCUT UKS 160 / 355	254	ROLeak Aqua Plus	190	Rounding clamps	261
ROCUT XL	254	Rolling skids	211	ROVLIES cleaning pads	173
RO DD60 cordless drill driver	323	Rolling skids ROCAM 4 Plus	211	ROWELD HE heating plates	255
RODIA CLEANER 1400	51	ROLOCK expander power torque	80	ROWELD manual welding extru-	271
RODIACUT 150 / RODIADRILL 160	40	ROLOT	177 - 178	der with integrated air supply	
RODIACUT 150 / RODIADRILL 200	40	ROLUB Anti-Block special guide shoe	63	ROWELD P 63 S-6 Sword	256
RODIACUT 250 / RODIADRILL 200	42	ROMAX 3000 AC	108	ROWELD P 110	262
RODIACUT 250 / RODIADRILL 500	42	ROMAX 4000	106	ROWELD P 125	255
RODIACUT 400 PRO / RODIAD-	44	ROMAX AC ECO	109	ROWELD P 160 SANILINE	264
RILL 500		ROMAX Compact TT	102	ROWELD P 250 A	266
RODIADRILL 160	41	ROMAX expander AC ECO MAXI	86	ROWELD P 315 W / P 315 W CNC	270
RODIADRILL 200	41, 43	RONOL	135	ROWELD P 630 W	270

Item	Page	Item	Page	Item	Page
ROWELD Quick S / WG 1600 E	258	Standard two handed bender 90°	59	TUBE CUTTER 30 PRO INOX	18
ROWELD ROFUSE Sani 160/315	259	Step expander A1	86	TUBE CUTTER 35 / 42 Pro	14
ROWELD type Premium	269	Straight auger	239	TUBE CUTTER 35 / 42 PRO INOX	19
ROWELD type Premium CNC	269	Strap and fittings wrench	309	TUBE CUTTER 35 DURAMAG	15
ROWELD type Professional	268	SUPER 1.1/4" and 2"	20	TUBE CUTTER 35 MSR / 42 PRO	25
ROWONAL care and rust remover	235	SUPER 1.1/4" and 2" INOX	20	MSR / 42 PRO PVC	
ROXY 400 L	167	SUPER CUT	126	TUBE CUTTER 42 XL	15
RP 30	185	SUPER CUT ratchet arm	129	TUBE CUTTER 67 / 125 / 168 PL	24
RP 50-S / RP 50-S INOX	183	SUPER FIRE 3	148, 149	TUBE CUTTER CSST	19
RP PRO III	184	SUPER FIRE 4	150, 151	TUBE CUTTER INOX	19
		Supergas C 200 TSS	155	TURBOPROP	157
		SUPERTRONIC 2 SE, 3 SE, 4 SE	139	Two-way root cutter	242
		SUPERTRONIC 1250	130		
SAFE CUT	330	SUPERTRONIC 2000	132		
Safety igniters	171	SWO adjustable wrench	314	UNICUT HM	327
Safety propane handles	161			UNIDRILL	326, 328
Safety T-couplings	245			UNIDRILL Automatic 28 / 42	93
SANIFRESH	290			UNI small saw PUK	26
SANIGRIP/SANIGRIP PL	308	Tap reseating tool	319	UNI stepped key set	310
SANI KIT	128	Tee-extractor	92	Universal flaring tool	96
Sanitary four way key	311	Tee-extractor ratchet	93	Universal grip wrench	321
Schrader valve tool	291	Tee-extractor sets	91	UNIVERSAL HSS bimetal / TCT	30
Screw extraction sets	325	Telescopic basin nut wrench	321	TIGER SAW BLADES	
SDS-plus hammer drill	49, 332	Telescopic workbench	336	Universal internal & external	31
Sealing grip pliers	309	Telescoping guide tubes	235	deburrer	
Separating pin	235	Threading dies	134	Universal ROTIGER VARIO	29
Serrated forked cutter	242	Thread interfaces	49	Universal workbench	336
Sheet metal crimping pliers	321	Tool bags	337		
Silver hard solders	179	Toolbox apprentice	337		
SMK-spirals	237	Toolkit sets	325		
Soldering flux and container	172	Tool roll cover	337	Vacuum pump RODIA-VAC	49
Spade head cutter	240	Tool set Climate I + II	281	Vacuum-sets	49
Spare extractor hooks	92	Tool set S + L	243	VDE screwdriver set	317
Special diamond drills	49	Torch spanner	172		
Special pipe saw blades	30	Torque wrench set	97, 313		
SPEED STAR DX	48	Tower pincers / concreter's	321	Water extraction systems	50
Spiral and tool sets	244	nippers		Water pump pliers SP	302
Spiral baskets	235	TP 25	185	Water pump pliers type SPK	303
Spiral guide gloves	235	Trendy shoulder toolbox	337	Water supply	50
Spiral guide hoses	234	Trendy tool bag	337	WC-BLITZ RO-3 toilet auger	224
Spiral retrieving device	235	TRENNBOY 300	27	Welding blanket	173
Spirals 8 mm / 10 mm	245	Trimmer adaptor P 160 SANILINE	265	Welding goggles EN 166	172
Spiral sawtooth cutter	240	Tripod stand	234	Working unit	336
Squeezing device	261	Tripod uni workbench	336		
S-SMK-spirals	237	TUBE BENDER	56		
S-spirals	237	TUBE BENDER bending segments	56		
Standard bender 180°	60	TUBE BENDER MAXI	57		
Standard spirals	237	TUBE BENDER MAXI MSR	58		
Standard spirit level	320	TUBE CUTTER 30 PRO / 50	17		

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
0		015293X	116	015533X	115 - 121	070135X	304	11010	82	
		015294X	116	015534X	115 - 121	070140X	304	11012	82	
	01700RD	282, 290	015302X	116 - 121	015580X	115 - 121	070188D	21, 25	11014	82
	011180X	90	015304X	116 - 121	015581X	115 - 121	070522D	303	11015	82
	011186X	90	015306X	116 - 121	015582X	115 - 121	070528D	302	11016	82
	011194X	90	015307X	116 - 121	015583X	115 - 121	070690X	336	11018	82
	015060X	113	015308X	116 - 121	023020X	57	070699X	336	11020	82
	015062X	113	015311X	116 - 121	023021X	57	070705X	335	11022	82
	015063X	113	015312X	116 - 121	023022X	57	070735X	335	11028	82
	015068X	113	015313X	116 - 121	023090X	57	070780X	127	11032	82
015072X	113	015314X	116 - 121	023091X	57	070781X	127	11035	82	
015080X	113	015315X	116 - 121	030955X	160	070790X	127	11038	82	
015101X	115 - 121	015317X	116 - 121	035510-A/B	155	070821X	134	11040	82	
015102X	115 - 121	015318X	116 - 121	035551-A	154, 166	070822X	134	11042	82	
015103X	115 - 121	015321X	115 - 121	035551-B	154	070823X	134	11044	31	
015104X	115 - 121	015322X	115 - 121	035551-C	154	070824X	134	11045	31	
015105X	115 - 121	015323X	115 - 121	035570-A/B	155	070825X	134	11052	82	
015106X	115 - 121	015324X	115 - 121	035648X	149, 151	070826X	134	11053	82	
015151X	115 - 121	015325X	115 - 121	035780X	167	070831X	134	11054	82	
015152X	115 - 121	015326X	115 - 121	035901-A/B	155	070832X	134	11055	82	
015153X	115 - 121	015327X	115 - 121	045268D	105, 173	070833X	134	11056	82	
015154X	115 - 121	015328X	115 - 121	052005D	23	070834X	134	11057	82	
015155X	115 - 121	015329X	115 - 121	053890X	257	070835X	134	11058	82	
015161X	115 - 121	015330X	115 - 121	053891X	257	070836X	134	11059	82	
015162X	115 - 121	015331X	115 - 121	053892X	257	070840X	129	11062	82	
015163X	115 - 121	015333X	115 - 121	053893X	257	070842X	134	11063	82	
015164X	115 - 121	015334X	115 - 121	053894X	257	070843X	134	11078	86	
015180X	115 - 121	015335X	115 - 121	053896X	257	070849X	134	11086	86	
015181X	115 - 121	015336X	115 - 121	053897X	257	070850X	134	11087	86	
015182X	115 - 121	015337X	115 - 121	055053D	21, 253	070869X	134	11089	86	
015183X	115 - 121	015338X	115 - 121	055054D	21, 253	070870X	134	11093	86	
015211X	115 - 121	015339X	115 - 121	055074D	21, 253	070891X	127	11323	85	
015212X	115 - 121	015351X	116 - 121	056370X	140	070892X	127	11325	85	
015213X	115 - 121	015352X	116 - 121	056371X	140	070907X	134	11328	85	
015214X	115 - 121	015353X	116 - 121	057950X	64	070908X	134	11332	85	
015215X	115 - 121	015354X	116 - 121	057961X	64	070912X	134	11335	85	
015216X	115 - 121	015355X	116 - 121	057966X	64	070913X	134	11336	85	
015217X	115 - 121	015357X	116 - 121	057969X	66	070914X	134	11342	85	
015218X	115 - 121	015358X	116 - 121	057972X	66	070915X	134	11346	85	
015219X	115 - 121	015362X	116 - 121	057973X	66	070916X	134	11348	85	
015220X	115 - 121	015364X	116 - 121	070007D	16, 21	070917X	134	11358	85	
015222X	115	015366X	116 - 121	070017D	16, 17, 21	070918X	134	11362	85	
015223X	115	015367X	116 - 121	070027(C)	21	070919X	134	11364	85	
015224X	115	015368X	116 - 121	070027C	15	070920X	134	11376	85	
015225X	115	015370X	115 - 121	070027DB	15	070921X	134	11380	85	
015226X	115	015371X	115 - 121	070028D	21, 25	070945X	134	11400	84	
015227X	115	015374X	115 - 121	070031D	24	070946X	134	11955	85	
015230X	116 - 121	015376X	115 - 121	070046D	20, 21	071533D	330	11958	85	
015231X	116 - 121	015377X	115 - 121	070051D	20, 21	071534D	330	11962	85	
015232X	116 - 121	015378X	115 - 121	070056D	15, 18, 19, 21	071551D	330	11968	85	
015233X	116 - 121	015379X	115 - 121			071552D	330	11975	85	
015234X	116 - 121	015380X	115 - 121			071553D	330	11978	85	
015260X	116 - 121	015385X	115 - 121	070057D	17, 21	071554D	330	12000	78	
015261X	116 - 121	015389X	115 - 121	070061D	20, 21	072070X	222	12001	88	
015262X	116 - 121	015391X	115 - 121	070088D	20, 21	072185F	241	12005	79	
015263X	116 - 121	015392X	116	070089D	20, 21	072945X	244	12013	87	
015264X	116 - 121	015393H	115 - 121	070110X	305	072955X	244	12017	88	
015265X	116 - 121	015393X	115 - 121	070111X	305	072956X	244	12018	88	
015269X	116 - 121	015394X	116	070112X	305	072967X	244	12078	88	
015271X	116 - 121	015395X	115 - 121	070121X	305	088840D	18	12080	88	
015277X	116 - 121	015396X	116	070122X	305	088841D	18	12097	88	
015280X	116 - 121	015397X	116	070123X	305	088842D	18	12300	79	
015281X	116 - 121	015398X	115 - 121	070124X	305	1	12302	79		
015282X	116 - 121	015399X	115 - 121	070130X	304		12303	79		
015283X	116 - 121	015401X	115 - 121	070131X	305		12304	79		
015284X	116 - 121	015530X	115 - 121	070132X	305		12305	79		
015291X	116	015531X	115 - 121	070133X	305		12309	79		
015292X	116	015532X	115 - 121	070134X	305		12310	79		

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
12311	79	14104	33	15760	109	22121	91	24504	63	
12317	79	14106	33	19166	338	22124	91	24505	63	
12318	79	14107	33	2		22126	91	24508	63	
12320	79	14111	33			22127	91	24510	63	
12321	79	14112	33			22135	91	24512	63	
12322	79	14113	33			22157	93	24514	63	
12323	79	14115	33			22159	93	24515	63	
12324	79	14117	33			22172	93	24516	63	
12326	79	14121	33			22210	92	24518	63	
12327	79	14122	33			22212	92	24519	63	
12328	79	14123	33			22214	92	24522	63	
12335	79	14124	33			22215	92	24552	63	
12336	79	14126	33		22216	92	25075	63		
12337	79	14132	33		22218	92	25076	63		
12338	79	14133	33		22222	92	25078	63		
12339	79	14134	33		22228	92	25120	60, 61, 63, 69		
12341	79	14136	33		22235	92				
12400	80	14137	33		22242	92				
12408	83	14230	33		22246	92				
12410	83	14250	33		22254	92	25130	60		
12412	83	14260	33		22260	92	25131	60		
12414	83	14270	33		22261	92	25132	60		
12415	83	14707	115 - 121		22263	92	25133	60		
12416	83	14708	115 - 121		22264	92	25134	60		
12418	83	14709	115 - 121		22265	92	25135	60		
12420	83	14822	115 - 121		22266	92	25136	60		
12422	83	14823	115 - 121		22267	92	25137	60		
12428	83	14824	115 - 121		22268	92	25140	60		
12432	83	14825	115 - 121		22270	92	25142	60		
12435	83	14826	115 - 121		23001	57	25150	60		
12438	83	14832	116 - 121		23002	57	25151	60		
12440	83	14833	116 - 121		23003	57, 58	25181	61		
12442	83	14834	116 - 121	21652	17, 19, 21, 32, 252	23004	57	25182	61	
12452	83	14835	116 - 121			23005	57, 58	25183	61	
12453	83	14836	116 - 121		21653	32	25185	61		
12454	83	14837	116 - 121		21654	32	25186	61		
12455	83	14838	116 - 121		21655	17, 20, 32	25190	61		
12456	83	14842	115 - 121		21660	17, 20, 32, 105	23006	57	25308	63
12457	83	14843	115 - 121				23007	57	25310	63
12458	83	14844	115 - 121				23008	57	25312	63
12459	83	14845	115 - 121		22010	92	23009	58	25313	63
12462	83	14846	115 - 121		23012	57	23010	57	25314	63
12463	83	14847	115 - 121		23013	57	23011	57	25315	63
12500	81	14848	115 - 121		23014	57	23012	57	25316	63
12503	81	14849	112		23047	57	23013	57	25318	63
12505	81	14852	116		23050	58	23047	57	25319	63
12509	81	14853	116		23051	58	23050	58	25322	63
12511	81	14854	116		23052	58	23051	58	25401	59
12517	81	14855	116		23053	58	23052	58	25402	59
12518	81	14863	115 - 121		23065	58	23053	58	25403	59
12521	81	14864	115 - 121		23076	58	23065	58	25404	59
12522	81	14865	115 - 121		23080	58	23076	58	25405	59
12524	81	14866	115 - 121		23083	58	23080	58	25406	59
12526	81	14867	115 - 121		23095	58	23083	58	25441	61
12535	81	14868	115 - 121		24001	56	23095	58	25442	61
12536	81	14869	112		24006	56	24001	56	25443	61
12537	81	14882	116 - 121		24007	56	24006	56	25444	61
12538	81	14883	116 - 121		24008	56	24007	56	25445	61
12541	81	14884	116 - 121		24010	56	24008	56	25446	61
12601	90	14885	116 - 121		24048	56	24010	56	25612	70
12602	90	14886	116 - 121		24049	56	24048	56	25614	70
12604	90	14895	112		24131	56	24049	56	25615	70
12605	90	15093	112		24132	56	24131	56	25616	70
13002	87	15094	112		24133	56	24132	56	25618	70
13100	87	15705	109		24134	56	24133	56	25619	70
14000	33	15730	109		24500	63	24134	56	25620	70
14005	33	15740	109		24501	63	24500	63	25622	70
14102	33	15750	109		24502	63	24501	63	25625	70
					24503	63	24502	63	25626	70

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
25628	70	35189	170	35750	166	52042	23	55020	253	
25652	70	35199	171	35782	167	53200	261	55021	253	
25684	70	35210	170	35785	167	53210	261	55022	253	
25685	70	35221	170	35794	171	53220	261	55023	253	
25743	69	35222	170	35798	168	53240	261	55024	253	
25748	69	35223	170	35800	169	53250	261	55025	253	
25811	334	35300	164	35925	161	53251	261	55026	253	
26001	94	35303	164	36700	163	53252	261	55027	253	
26002	94	35304	164	36702	163	53253	261	55029	253	
26003	94	35305	164, 165	36710	163	53254	261	55030	253	
26004	94	35306	164, 165	36711	163	53255	261	55031	253	
26005	94	35307	164, 165	36715	163	53256	261	55032	253	
26010	94	35308	164, 165	36720	163	53258	261	55033	253	
26011	94	35309	164, 165	36721	163	53259	261	55035	252	
26013	94	35311	164, 165	4		53260	261	55047	253	
26015	94	35312	164, 165			53261	261	55048	253	
26016	94	35313	164, 165		40005	178	53262	261	55050	32
26017	94	35314	164, 165		40015	178	53263	261	55051	32
26020	96	35315	164, 165	40094	177	53272	261	55058	32	
26160	311	35324	169	40202	177	53273	261	55063	252	
26161	311	35325	169	40212	177	53274	261	55075	309	
26162	311	35326	169	40213	177	53275	261	55076	309	
26163	311	35327	169	40500	176	53276	261	55119	263	
26164	311	35328	169	40502	178	53277	261	55120	263	
27180	310	35329	169	40512	176	53278	261	55121	263	
27181	93	35334	169	40514	176	53279	261	55122	263	
3		35338	169	40515	176	53280	261	55123	263	
		35339	169	40518	176	53281	261	55124	263	
		35341	169	40522	176	53282	261	55125	263	
		35344	169	40528	176	53283	261	55126	263	
30101	161	35345	169	44915	179	53284	261	55127	263	
30102	161	35347	169	44916	179	53285	261	55128	263	
30913	156	35348	169	44917	179	53511	257	55129	263	
30914	156	35354	170	45055	179	53512	257	55130	263	
30915	156	35400	168	45056	179	53513	257	55131	263	
30916	156	35401	168	45057	179	53514	257	55132	263	
30922	156	35403	168	45220	175	53515	257	55133	263	
30925	161	35419	152	45225	175	53516	257	55134	263	
30927	161	35428	153	45250	175	54000	264	55152	263	
30954	160	35429	153	45252	175	54001	264	55163	267	
30957	160	35436	149	45255	175	54004	264	55199	263	
31031	157	35475	169	45257	175	54005	265	55316	255, 265	
31032	157	35476	169	45266	175	54006	265	55317	255, 267	
31037	157	35477	169	45268	105, 173	54015	265	55318	263	
31042	173	35479	169	5		54020	265, 267	55319	263	
31043	173	35480	169			54040	265	55321	255, 259	
31050	173	35486	159			54080	265	55324	263	
31090	157	35487	159			54082	265	55502	271	
31091	156	35488	159	50260	30	54083	265	55503	271	
31092	156	35489	159	50261	30	54084	265	55504	271	
31094	157	35490	149	50263	30	54085	265	55505	254	
32075	159	35506	153	50264	30	54086	265	55506	271	
32077	159, 171	35556	153	50301	29	54087	265	55517	255	
32081	161	35580	167	50302	29	54088	265	55518	255	
32088	159, 171	35585	167	50305	28	54089	265	55524	255, 263	
32098	159	35611	176	50306	28	54090	265	55536	255	
32099	159	35629	165	50311	28	54091	265	55539	255	
32201	161	35634	171	50312	28	54950	253	55546	255	
32207	161	35635	170	52000	23	54960	253	55585	255	
32223	161	35636	161	52005	23	54961	253	55586	255	
33079	161	35651	167	52010	23	55005	23	55587	255	
33310	161	35655	165	52011	23	55006	23	55588	255	
33311	170	35695	167	52015	23	55007	23	55589	255	
35012	152	35696	167	52016	23	55015	23	55590	255	
35016	152	35697	167	52030	23	55016	252	55591	255	
35140	171	35698	166	52031	23	55017	252	55592	255	
35146	171	35712	167	52040	23	55018	252	55593	255	
35178	170	35713	167	52041	23	55019	253	55594	255	
35179	170									
35188	170									

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
55595	255	56045	137	56351	140	58182	65, 67, 234	65000	191	
55596	255	56047	141	56352	140		65008	135		
55597	255	56049	137	56353	140		65010	135		
55598	255	56050	137	56355	140		65013	135		
55684	265	56051	137, 265	56358	140	58520	27	65015	135	
55685	265	56056	141	56369	140	58527	27	65030	197	
55686	265	56057	137	56372	140	58528	27	65035	197	
55717	267	56058	140	56373	140	58529	27	65036	197	
55718	267	56059	140	56374	140	59000	25	65037	197	
55719	267	56060	141	56379	140	59035	25	65038	197	
55721	267	56061	141	56380	140	59042	25	65039	197	
55738	266	56062	141	56465	139	59050	25	65040	197	
55742	267	56063	141	56466	139	6		65041	197	
55743	267	56064	141	56475	139			65042	197	
55744	267	56065	141	56488	137, 139		60200	183	65043	197
55745	267	56081	140	56500	137, 141		60201	183	65044	197
55746	267	56082	140	56501	141	60203	183	66080	191	
55747	267	56083	140	56504	142	60250	185	69111	211	
55748	267	56085	140	56505	137, 142	60251	185	69112	211	
55749	267	56088	140	56506	142	60999	183	69113	211	
55750	267	56095	140	56507	142	61001	184	69117	211	
55751	267	56096	140	56508	142	61011	189	69118	211	
55752	267	56097	140	56509	142	61014	189	69119	211	
55753	267	56098	140	56510	142	61017	189	69601	204	
55759	267	56110	140	56511	142	61018	189	69603	204	
55760	258	56111	140	56512	142	61030	189	69615	204	
55768	266	56112	140	56514	142	61041	189	7		
55769	258	56114	140	56521	142	61100	219			
55772	258	56120	139	56522	142	61105	220		70006	21
55773	258	56121	140	56523	142	61106	220		70010	16, 21
55774	258	56122	140	56602	27	61115	220	70011	16, 21	
55775	258	56125	139	56603	27	61120	220	70015	16, 21	
55776	258	56135	140	56604	27	61130	185	70023	21	
55777	258	56150	139	56605	27	61185	184	70027	15, 105	
55778	258	56161	140	56607	27	61190	219	70029	15, 21	
55779	258	56162	140	56608	27	61315	183	70030	17, 21	
55780	258	56163	140	56710	27	61340	190	70031	21, 24	
55782	258	56164	140	56711	27	61352	190	70032	21, 24	
55783	258	56165	140	56717	27	61353	190	70033	21, 24	
55787	263	56166	140	56718	27	61358	190	70040	20, 21	
55793	258	56175	139	57050	139, 143	61700	188	70041	16, 17, 18, 21	
55795	266	56180	140	57900	64	61701	188			
55796	266	56181	140	57915	66	61702	189			
55799	258	56183	140	57921	65, 67	62200	195		70042	17, 21
55800	258	56184	140	57922	65, 67	62203	195	70045	20, 21	
55807	263	56185	140	57923	65, 67	62211	196	70047	21	
55808	263	56186	140	57979	65	62212	196	70048	21	
55809	263	56187	140	57981	65, 67	62213	196	70052	21	
55816	258	56188	140	57983	65, 67	62214	196	70053	20, 21	
55826	263	56189	140	57985	65, 67	62215	196	70055	15, 19, 21	
55832	263	56190	140	57986	65, 67	62216	196	70060	20, 21	
55844	262	56191	140	57987	65, 67	62217	196	70063	21	
55851	255, 265	56198	139	57988	65, 67	62219	196	70064	20, 21	
55854	255, 267	56199	139	57989	65, 67	62221	196	70065	17, 21	
55918	263	56200	139	57990	65, 67	62224	196	70067	21	
55924	262	56235	140	57991	65, 67	62226	196	70068	21	
56001	140	56236	140	58010	65, 67	62227	196	70070	15, 19, 21	
56003	140	56237	140	58011	65, 67	62230	195	70072	15, 21, 25	
56006	140	56238	140	58012	65, 67	62231	196	70074	137	
56007	140	56250	139	58013	65, 67	62232	196	70080	16, 21	
56008	140	56253	139	58014	65, 67	62233	196	70081	21	
56009	140	56254	139	58015	65, 67	62234	196	70086	20, 21	
56010	140	56255	139	58016	65, 67	62235	196	70087	20, 21	
56011	140	56291	140	58020	65, 67	62236	196	70105	16, 21	
56012	140	56294	140	58021	65, 67	62237	196	70108	15, 21, 25	
56013	140	56295	140	58022	65, 67	62291	196	70109	15, 21, 25	
56014	140	56296	140	58023	65, 67	64001	197	70113	305	
56015	137	56335	141			64020	197	70114	305	

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
70115	307	70267	307	70576	307	71290	325	72185	241
70116	307	70268	309	70591	303	71291	325	72186	241
70118	321	70269	309	70592	303	71292	325	72187	241
70119	321	70271	314	70593	303	71293	325	72188	241
70125	305	70272	314	70600	129	71294	325	72193	242
70142	17, 21	70274	314	70623	337	71295	325	72203	239
70148	306	70276	314	70661	318	71296	325	72208	239
70150	306	70277	314	70665	318	71297	325	72210	245
70151	306	70285	17, 21	70667	318	71298	325	72211	245
70152	306	70286	17, 21	70670	335	71299	325	72221	239
70153	306	70289	32	70671	335	71300	325	72222	239
70154	306	70296	32	70672	335	71301	325	72223	242
70155	306	70301	323	70696	336	71302	325	72224	242
70156	306	70302	323	70698	336	71303	325	72226	242
70157	306	70340	19, 21	70700	335	71304	325	72227	242
70158	306	70341	19, 21	70710	335	71305	325	72228	242
70159	306	70350	306	70711	335	71310	325	72229	240
70160	306	70351	306	70712	335	71311	325	72234	240
70161	306	70352	306	70713	335	71450	131	72250	242
70162	306	70353	306	70714	335	71451	131	72251	242
70163	306	70354	306	70715	335	71453	131	72261	240
70166	307	70355	306	70721	335	71454	131	72263	239
70167	307	70356	306	70722	335	71470	131	72264	239
70168	306	70374	306	70731	335	71975	224	72265	242
70189	306	70375	306	70732	335	71976	224	72266	242
70190	306	70376	306	70733	335	71991	222	72275	240
70191	306, 307	70377	306	70734	335	72003	224	72276	240
70192	306, 307	70378	306	70740	336	72005	223	72277	240
70193	306	70379	306	70751	142, 336	72016	224, 229	72278	241
70194	306, 307	70380	306	70752	336	72071	222	72284	241
70195	306	70401	16, 21	70950	319	72072	222	72285	241
70196	306	70402	16, 21	70951	319	72073	222	72286	241
70197	306	70413	312	70954	319	72090	223	72289	241
70198	306	70414	312	70955	319	72095	223	72295	242
70199	306	70415	308	70956	319	72100	224, 235	72299	241
70200	306	70416	308	70970	319	72101	233, 235	72321	233, 239
70201	306, 307	70417	308	70972	319	72102	235	72322	233, 239
70202	306	70418	314	70974	319	72110	235	72324	242
70203	306, 307	70419	314	70976	319	72111	235	72325	233, 239
70204	306, 307	70420	314	70980	319	72112	235	72326	242
70205	306	70421	314	70981	319	72120	233, 235	72327	242
70206	306	70422	314	70982	319	72121	233, 235	72328	242
70207	306	70423	314	70983	319	72122	233	72329	233, 240
70208	306	70424	314	70984	319	72130	235	72341	241
70220	315	70425	314	70985	319	72131	235	72348	241
70221	315	70426	314	70989	319	72135	235	72350	233, 242
70222	315	70427	314	70992	319	72140	235	72351	233, 242
70223	315	70439	312	71019	17, 21	72142	235	72360	240
70225	321	70441	291, 314	71085	18, 21	72150	245	72363	239
70226	321	70442	291, 314	71095	321	72151	245	72365	242
70227	321	70443	291, 314	71206	26	72154	240	72366	242
70228	320	70444	291, 314	71213	26	72158	239	72375	240
70235	307	70445	291, 314	71215	26	72159	239	72376	240
70240	309	70475	313	71216	26	72161	239	72377	240
70241	309	70490	313	71217	26	72162	239	72398	242
70242	307	70521	303	71222	26	72163	239	72412	245
70243	307	70522	303	71250	133	72164	240	72413	225, 245
70244	307	70523	303	71251	133	72165	239	72414	245
70245	307	70527	302	71256	133	72166	240	72415	245
70246	307	70528	302	71257	133	72168	242	72420	245
70247	307	70529	302	71258	133	72169	240	72421	245
70250	309	70545	308	71259	133	72170	240	72422	245
70252	321	70548	308	71271	134	72171	240	72423	245
70257	309	70571	307	71272	129	72172	242	72424	245
70263	307	70572	307	71286	325	72175	240	72425	225
70264	307	70573	307	71287	325	72176	224, 240	72428	237
70265	307	70574	307	71288	325	72177	240	72431	237
70266	307	70575	307	71289	325	72178	240	72433	237

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page		
72435	237	73290	310	11		170912	288	351262	189		
72441	237	73291	310		170913	288	351263	189			
72442	237	73293	310		170931	288	351265	189			
72443	237	73297	310		170932	288	351271	189			
72444	237	73298	310		170950	290	351272	189			
72451	237	73299	310		171505	280	40				
72452	237	73570	316		173204	290					
72453	237	73571	316		173205	290		402308	337		
72455	237	73575	317					402311	337		
72460	245	74629	204, 205		175001	97, 290, 313		402312	337		
72461	245	75010	321			402317	337				
72462	245	75011	321	20		462212	59				
72463	245	75012	321		222401	96	462215	59			
72490	237	75013	321		222402	96	462218	59			
72494	224	75014	321		222403	96	462222	59			
72511	234	75015	321		222412	96	50				
72514	234	75016	321	222413	96	510105		172			
72515	234	75021	321	222601	96	510106		172			
72522	245	75022	321	224500	291	511427		171			
72536	234	75023	321	252100	320	511428		171			
72538	234	75024	321	259008	282	520849	159				
72540	234	75025	321	259010	282	520850	159				
72541	234	75026	321	259060	282	520856	159				
72559	232, 233, 234	76008	246	114017	326	520857	159				
		76020	246	114019	326	520865	159				
		76053	247	114030	326	520866	159				
		76063	247	114033	326	520867	159				
		76065	247	114035	326	530250	172				
72563	234	76066	247	114036	326	321216	263	530261	176		
72585	232	76067	247	114037	326	321218	263, 267	530310	172		
72610	232	76068	247	114038	326	321300	323	540360	171		
72631	226	76070	247	114040	326	321523	323	540365	171		
72632	226	76073	247	114041	326	321524	323	540620	172		
72638	234	76082	247	114043	326	321525	323	540621	172		
72666	234	76088	247	114046	326	321526	323	540622	172		
72686	226	76089	247	114052	326	321528	323	540625	172		
72687	226	76090	247	114054	326	321529	323	540626	172		
72688	227	77050	334	114057	326	321530	323	540627	172		
72689	227	77090	334	114079	326	322823	334	540640	172		
72705	234	77397	320	114083	326	322824	334	540641	172		
72810	247	77503	247	114105	326	322825	334	540675	172		
72812	247	77506	247	114111	326	322922	334	540676	172		
72820	247	78551	224	114127	326	323126	317	540850	172		
72915	234	78576	225	114162	326	324559	322	540851	172		
72918	231	78580	233	114171	326	324577	322	540855	172		
72936	243	78581	233	114201	326	324588	322	561351	173		
72937	243			114202	326	324737	322	561352	173		
72938	243	8		168605	286	324739	322	80			
72939	243		80679	21	168713	286, 287	324800		322		
72942	225		85800	290	169200	285	350850		308		
72962X	233, 244		87309	283	170016	277, 290	350900		308	816990	324
72970	233		87800	291	170061	285	351043		311	817003	324
72971	233	88700	25	170062	285	351044	311	817057	324		
73152	258, 316	88701	25	170063	285	351050	321	817072	324		
73153	316	88716	25	170064	285	351220	189	817110	324		
73161	316	88720	25	170501	280	351221	189	842100	26		
73162	316	88726	25	170502	280	351222	189	849064	315		
73200	312	88732	25	170545	280	351223	189	849065	315		
73201	312	88777	25	170546	280	351225	189	849293	315		
73202	312	88812	18	170547	280	351226	189	849299	315		
73206	312	88815	18	170600	280	351227	189	849306	315		
73208	312	88818	18	170601	280	351228	189	849308	315		
73209	312	88822	18	170602	280	351231	189	849334	315		
73210	312	88832	18	170604	281	351232	189	849335	315		
73212	312	89501	290	170605	281	351233	189	849554	315		
73213	312	89503	290	170606	280	351257	189	854181	173		
73214	312			170607	280	351260	189	854183	173		
73280	310			170608	280	351261	189	854185	173		

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
854186	173	1000000058	278	1000001231	285	1000001752	104	1000002263	143
854187	173	1000000108	115	1000001245	257	1000001753	104	1000002266	115
854390	318	1000000109	115	1000001256	229	1000001754	104	1000002267	115
856907	337	1000000110	114	1000001257	229	1000001755	104	1000002268	202
856911	337	1000000111	115	1000001264	151	1000001756	104	1000002299	225
865781	30	1000000112	115	1000001270	257	1000001762	222	1000002307	103
865782	30	1000000113	115	1000001273	113 - 121	1000001786	105	1000002400	105
865783	30	1000000116	114	1000001274	113 - 121	1000001807	113	1000002449	340
865784	30	1000000124	115	1000001275	229	1000001808	113	1000002450	340
865785	30	1000000125	115	1000001276	229	1000001810	113, 115	1000002548	103, 105, 107, 333
865786	30	1000000138	277	1000001308	229	1000001811	113, 115		
865787	30	1000000145	217	1000001393	115	1000001840	107		
865788	30	1000000173	115 - 121	1000001394	115	1000001856	107		
865789	30	1000000190	217, 218	1000001425	338	1000001877	108	1000002549	103, 105, 107
865790	30	1000000212	142	1000001426	280	1000001879	107		
865791	30	1000000213	300	1000001427	280	1000001924	107	1000002627	341
865793	30	1000000214	300	1000001431	59	1000001925	107	1000002628	341
865795	30	1000000215	300	1000001501	114	1000001926	107	1000002631	259
865796	30	1000000216	300	1000001502	113	1000001927	107	1000002641	340
865798	30	1000000217	301	1000001545	69	1000001932	107	1000002763	340
865799	30	1000000218	301	1000001548	69	1000001955	341	1000003334	339
100000174	338, 340	1000000222	95	1000001549	69	1000001959	109, 111	1000003338	339
200		1000000223	95	1000001550	69	1000001989	104	1200	254
		1000000224	97	1000001551	69	1000002002	15		
		1000000225	97	1000001552	69	1000002011	133		
		1000000230	95	1000001553	69	1000002016	133		
211111116	161	1000000231	95	1000001554	69	1000002035	323	1300	
211121116	161	1000000235	115 - 121	1000001559	69	1000002036	328		
221031500	157	1000000236	115 - 121	1000001561	70	1000002037	329		
221031800	157	1000000238	301	1000001563	70	1000002038	331		
221131416	156	1000000328	301	1000001564	69	1000002065	113	1300003336	339
221131616	156	1000000390	158	1000001565	69	1000002067	113	1300003337	339
221131916	156	1000000442	191	1000001566	69	1000002068	113	1300003541	339
221132216	156	1000000445	59	1000001567	69	1000002069	113	1300003649	339
223090616	160	1000000445	59	1000001647	323	1000002077	19	1500	
223090716	160	1000000512	158	1000001648	328	1000002085	211		
223090916	160	1000000514	158	1000001649	329	1000002108	340		
223214500	160	1000000529	166	1000001650	331	1000002109	340		
223215100	160	1000000532	254	1000001651	333	1000002111	103	1500000024	281
223215700	160	1000000539	279	1000001652	103, 105, 107, 333	1000002112	103	1500000025	281
223216300	160	1000000540	279			1000002113	103	1500000026	281
231010000	160	1000000541	279			1000002114	103	1500000027	281
232010000	160	1000000558	166			1000002115	103	1500000028	281
233510000	160	1000000569	279	1000001653	103, 105, 107, 211, 333	1000002116	103	1500000029	281
236010000	160	1000000570	279			1000002117	103	1500000030	281
242206000	161	1000000572	279			1000002118	103	1500000031	281
252010000	160	1000000620	166			1000002119	103	1500000032	281
263005400	167	1000000626	304	1000001654	103, 105, 107, 211, 333	1000002120	103	1500000052	205
263005600	167	1000000627	166			1000002121	104	1500000057	206
263005700	167	1000000629	166			1000002122	104	1500000087	337
263005800	167	1000000631	171			1000002123	103	1500000115	220
700		1000000633	171	1000001691	103, 105, 107	1000002124	104	1500000116	220
		1000000642	166			1000002125	104	1500000117	220
		1000000642	166			1000002125	104	1500000120	211
		1000000720	142			1000002125	104	1500000122	210
701011500	20	1000000721	142	1000001711	230	1000002180	325	1500000123	210
750004100	17	1000000722	142	1000001712	230	1000002181	325	1500000134	143
751004200	17, 21	1000000723	142	1000001713	230	1000002182	325	1500000135	221
762955300	70	1000000724	166	1000001714	230	1000002188	304	1500000136	221
762955700	70	1000000743	166	1000001727	231	1000002189	304	1500000157	218
766004016	56	1000000762	171	1000001728	231	1000002190	15	1500000200	218
766100016	57	1000000764	171	1000001729	231	1000002192	19	1500000201	218
767056016	59	1000000842	205	1000001730	231	1000002193	23	1500000202	218
767750016	59	1000000850	142	1000001731	231	1000002194	306	1500000203	217, 218
775004000	65, 67	1000000860	204	1000001732	231	1000002195	342	1500000236	17, 20, 31, 60, 61
775004100	65, 67	1000000861	206	1000001734	333	1000002196	342		
865008700	131	1000000999	260	1000001738	69	1000002197	342		
995830200	69	1000001000	260	1000001747	19	1000002198	342		
996277400	65	1000001001	108	1000001748	15	1000002199	342	1500000237	17, 20, 31, 105
1000		1000001039	304	1000001749	104	1000002222	15, 19		
		1000001068	304	1000001750	104	1000002223	342		
		1000001134	216	1000001751	104	1000002242	103		
								1500000255	63
								1500000439	235
								1500000459	155, 158

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
1500000696	204	1500002848	189	FF00680	48	FF44060	47	R7128200	325	
1500000789	254	1500002851	189	FF00685	48	FF44070	47	R7128300	325	
1500000790	254	1500002852	189	FF00690	48	FF44080	47	R7128400	325	
1500000792	254	1500002853	189	FF00695	48	FF44090	47	R7128500	325	
1500000793	254	1500002856	190	FF00700	48	FF44100	47	R2301500	57	
1500000794	254	1500002857	190	FF00705	48	FF44110	47	R2403200	56	
1500000795	254	1500002869	152	FF00710	48	FF44120	47	R2403300	56	
1500000817	211	1500002876	189	FF00715	48	FF44130	47	R2403400	56	
1500000914	220	F		FF00720	48	FF44140	47	R2403500	56	
1500000922	190			FF00725	48	FF44150	47	R6112500	183, 184	
1500001235	221			FF00730	48	FF44160	47	R08730516	283	
1500001236	221			FF30030	45	FF44170	47	R17300416	289	
1500001299	337							V		
1500001320	337									
1500001324	224									
1500001351	143									
1500001352	143							V12102000	184	
1500001353	143							V12110016	184	
1500001355	151									
1500001460	337									
1500001461	337									
1500001468	337									
1500001472	208, 209									
1500001509	314									
1500001510	314									
1500001547	320									
1500001548	320									
1500001583	320									
1500001990	143									
1500002182	337									
1500002196	152									
1500002239	340									
1500002241	283									
1500002253	231									
1500002254	231									
1500002255	231									
1500002256	231									
1500002257	231									
1500002258	231									
1500002259	231									
1500002260	231									
1500002261	231									
1500002262	231									
1500002263	231									
1500002264	231									
1500002265	231									
1500002266	231									
1500002267	231									
1500002268	231									
1500002271	231									
1500002453	324									
1500002454	324									
1500002613	208									
1500002614	208									
1500002615	209									
1500002616	209									
1500002637	287									
1500002676	186									
1500002677	186									
1500002824	332									
1500002825	332									
1500002826	332									
1500002827	332									
1500002828	332									
1500002829	332									
1500002845	189									
1500002846	189									
1500002847	189									

Legend

































































Abbreviations

Abbreviation	Description
A/S	Acetylene / Oxygen
ABS	Acrylonitrile-Butadiene-Styrene
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (french)
AG	Silver
AL	Aluminium
AMS	Acetylen-Maxigas-Oxygen
AS	Non-slip
B	Petrol, Gas
BGV	Trade Associations Occupational Health and Safety Regulations
BSP	British Standard Pipe, Standard Withworth Thread as per 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
HM	Carbide
HRC	Hardness Rockwell Cone
HSS	High Speed Steel
HZ	Hertz
IP	International Protection
ISO	International Organization for Standardization
Kcal	Kilocalorie
KSO	Capillary Gap Optimizer
L	Large
LCD	Liquid Crystal Display

Legend

Abbreviations

Abbreviation	Description
LED	Light Emitting Diode
MIM	Metal Injection Molding
MPa	Megapascals
MS	Brass
MSR	Multi-layered Composite Pipe
NM	Newton Metre
NPT	National Pipe Thread (Standard US - ASME B1.20.1)
PB	Polybutylene
PD	Power Driver
PD-E	Power Drive-Electronic
PE	Polyethylene
PEX	Cross-linked Polyethylene
PL	Plastic
PP	Polypropylene
PS	Professional
PSI	Pound-Force per Square Inch
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RC	RODIACUT
SAE	Society of Automotive Engineers
SD-Card	Secure Digital-memory Card
SDR	Standard Dimension Ratio
SMK	Spiral with Plastic Core
SML	Super Metal Delivery Program
SP	Standard Plier
SP	Special Performance
SPK	Standard Plastic Plier
SS	Quick Cut
SW	Spanner Size
TC	Tube Cutter
TFT	Thin-film Transistor
TiN	Titanium Nitride Coating
TPI	Bits per Inch
TRGI	Technical Guidelines for Gas Installations
TRWI	Technical Guidelines for Water Installations
TÜV	Technical Inspection Association
UKS	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

Power supply					
 AC 230 V	 AC 115 V	 AC 110 V	 Three-phase current 400 V	 Battery-powered	 Cable length 5 m
 Battery + AC operation possible	 Battery operation	 Battery charger	 Cordless Alliance System ¹⁾		
Miscellaneous					
 Can be used overhead	 Can be used in confined spaces	 Suitable for tight spaces	 Basic soft soldering up to 450 °C	 Hot brazing 450 ° - 1100 °C	 Max autogen welding 1100 °C
 Fast cut	 No deformation from use	 Dry drilling	 Wet drilling	 Up to 50% time-saving	 Portable operation
 360° rotatable	 Fine adjustment of the flame				
Product features					
 Ergonomic design	 Meets DIN standards	 VDE approved	 Propane control	 Oxygen control	 Acetylene control
 Shock absorption	 On / off switch	 LED display	 Sturdy casing	 Extension of hose possible	 Piezo ignition
 Economy valve	 Pressure hose ball valve	 Inspection window	 Pressure hose length	 Emergency stop switch	 Lock button
 Bayonet coupling	 Push lock	 Thread lock	 Pressure gauge display adjustable	 Pressure gauge class 1 - 6	 Pressure gauge size
 Filling supports	 Counter display	 Balance point in handle	 Cable length	 Measuring accuracy up to g	 Scale range max. kg
 Transport case	 Heed safety warning	 Heed industrial safety	 Touchscreen	 With USB connection	 With video function
 With photo function	 Memory card	 WiFi	 ROCASE Case system	 DURA LAZR TEC Laser hardening process	 5-Year-EXCHANGE GUARANTEE ²⁾
 eTOOL (NFC tag)	 ROBOX Sorting system	 Product apps for Android and iOS			

¹⁾ More information at cordless-alliance-system.com

²⁾ Detailed guarantee terms at rothenberger.com/de-de/5-jahres-umtauschgarantie

ROTHENBERGER Enclosed Power Transmission	
The EPT-Technology (Enclosed Power Transmission) of the expander head offers the following technical benefits:	
Concealed bent lever: Protection against dirt and external mechanical damage	
Energy efficient through optimised force transmission: Ergonomic, highly optimised force flow in relation to the hand force of the user, therefore reducing effort	
ROTHENBERGER Titannitrid coating	
The golden TiN Coating (Titannitrid-coating) of the expander head offers the following technical benefits:	
High durability 2,300 HV: Protection against abrasive wear	
Lower friction value compared to steel: Less effort	
Good chemical resistance: Good protection against corrosion	
Universal wear resistance: Long-lasting	
ROTHENBERGER Constant Force Technology	
The CFT (Constant Force Technology) guarantees a constant axial pressing force over the entire service interval. A very important requirement for the production of sealed press connections	
CFT guarantees: ROMAX Compact 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:	
<ul style="list-style-type: none">● Improved performance● Higher stability with considerably lower weight	
DURA = Durable MAG = Magnesium	

Packaging units 1 (12) = 1 Display, content 12 pieces 1/12 = packaging units 1 pieces oder 12 pieces

Handwriting practice lines on page 360. The page contains 20 sets of horizontal dashed lines for letter tracing and writing practice.

Handwriting practice lines on page 361. The page contains 20 sets of horizontal dashed lines for letter tracing and writing practice.



Imprint

This catalog is a publication of
ROTHENBERGER Werkzeuge GmbH
Industriestraße 7
D-65779 Kelkheim / Germany
Phone +49 6195 800-1
Fax +49 6195 800-8400
info@rothenberger.com
Company register and number:
Königstein / Taunus, HRB 2732

Great care was taken in compiling this catalog and reproduction of the product information. Nevertheless we cannot completely exclude the possibility of error. For this reason, ROTHENBERGER disclaims any liability for any errors which may have arisen despite careful checking of the contents.

The design, compilations, performance data, features, dimensions and weight of products can alter as a result of further technical developments and adaptation of our products to the requirements and wishes of our customers, without any duty on our part to announce this in advance.

We are not obliged to alter already delivered products to match such new developments. We also reserve the right to remove articles from our product programme.

This catalog invalidates all previous versions. Standard specifications are non-binding. The operating instructions and suggestions for use and safety are non-binding and do not in any way replace legal or other regulations, such as employer's liability insurance association regulations, in the respective countries.

No part of this catalog may be reproduced in any way whether by reprinting, photocopying, putting onto microfilm or any other process, or be converted into a machine-readable language or stored in any electronic systems and processed there without prior written permission from ROTHENBERGER Werkzeuge GmbH.

It is not permitted to make any changes and additions to the catalog. We reserve all rights for all countries.

© 2019 ROTHENBERGER Werkzeuge GmbH, Germany

ROTHENBERGER Worldwide

Australia	ROTHENBERGER Australia Pty Ltd Unit 6, 13 Hoyle Avenue Castle Hill • NSW 2154 Tel.: +61 2 98 99 75 77 rothenberger@rothenberger.com.au rothenberger.com.au	Italy	ROTHENBERGER Italiana s.r.l. Via G. Reiss Romoli 17–19 • I-20019 Settimo Milanese Tel.: +39 02 33 50 601 • Fax: +39 02 33 50 0151 info@rothenberger.it rothenberger.it
Austria	ROTHENBERGER Werkzeuge und Maschinen Handelsgesellschaft mbH Gewerbeparkstraße 9 • A-5081 Anif Tel.: +43 6246 72 0 91-250 • Fax: +43 6246 72 0 91-215 office@rothenberger.at rothenberger.at	Netherlands	ROTHENBERGER Nederland bv Postbus 45 • NL-5120 AA Rijen Tel.: +31 1 61 29 35 79 • Fax: +31 1 61 29 39 08 info@rothenberger.nl rothenberger.nl
Belgium	ROTHENBERGER Benelux bvba Antwerpsesteenweg 59 • B-2630 Aartselaar Tel.: +32 3 8 77 22 77 • Fax: +32 3 8 77 03 94 info@rothenberger.be rothenberger.be	Poland	ROTHENBERGER Polska Sp. z o.o. Ul. Annopol 4A • Budynek C • PL-03-236 Warszawa Tel.: +48 22 2 13 59 00 • Fax: +48 22 2 13 59 01 biuro@rothenberger.pl rothenberger.pl
Brazil	ROTHENBERGER do Brasil LTDA Av. Fagundes de Oliveira, 538–Galpão A4 09950-300–Diadema/SP–Brasil Tel.: +55 11 4044-4748 • Fax: +55 11 4044-5051 vendas@rothenberger.com.br rothenberger.com.br	Russia	ROTHENBERGER Russia Avtosavodskaya str. 25 115280 Moscow, Russia Tel./Fax: +7 495 792 59 44 info@rothenberger.ru rothenberger.ru
Bulgaria	ROTHENBERGER Bulgaria EOOD Boul. Sitnjakovo 79 • BG-1111 Sofia Tel.: +35 9 2 9 46 14 59 • Fax: +35 9 2 9 46 12 05 info@rothenberger.bg rothenberger.bg	Scandinavia	ROTHENBERGER Scandinavia A/S Smedevænget 8 • DK-9560 Hadsund, Denmark Tel.: +45 98 15 75 66 • Fax: +45 98 15 68 23 roscan@rothenberger.dk rothenberger.se/dk
China	ROTHENBERGER (Wuxi) Rohr Technologies Co., Ltd. Building D • No 9 Lianhe Road Hudai Industrial Park, Binghu District 214161 Wuxi, China Tel.: +886 0510-83217213 • Fax: +886 0510-83217263 office@rothenberger.cn	South Africa	ROTHENBERGER-TOOLS SA (Pty) Ltd P.O. Box 4360 • Edenvale 1610 165 Vanderbijl Street, Meadowdale Germiston Gauteng (Johannesburg), South Africa Tel.: +27 11 3 72 96 31 • Fax: +27 11 3 72 96 32 info@rothenberger.co.za rothenberger.co.za
Czech Republic	ROTHENBERGER CZ Prumyslova 1306/7, 102 00 Praha 10 Tel.: +420 271 730 183 • Fax: +420 267 310 187 prodej@rothenberger.cz rothenberger.cz	Spain	ROTHENBERGER S.A. Ctra. Durango-Elorrio, Km 2 • E-48220 Abadiano (Vizcaya) (P.O. Box) 117 • E-48200 Durango (Vizcaya) Tel.: +34 94 6 21 01 00 • Fax: +34 94 6 21 01 31 export@rothenberger.es rothenberger.es
France	ROTHENBERGER France S.A. 24, rue des Drapiers, BP 45033 • F-57071 Metz Cedex 3 Tel.: +33 3 87 74 92 92 • Fax: +33 3 87 74 94 03 info-fr@rothenberger.com rothenberger.fr	Switzerland	ROTHENBERGER (Schweiz) AG Herostr. 9 • CH-8048 Zürich Tel.: +41 44 435 30 30 • Fax: +41 44 401 06 08 info@rothenberger-werkzeuge.ch
Germany	ROTHENBERGER Deutschland GmbH Industriestraße 7 • 65779 Kelkheim/Germany Tel.: +49 6195 800 81 00 • Fax: +49 6195 800 37 39 verkauf-deutschland@rothenberger.com rothenberger.com	Turkey	ROTHENBERGER TÜRKİYE ROTHENBERGER Center, Barboros Bulvarı No:9 TR-34775 Şerifali/Ümraniye İstanbul Tel.: +90 216 449 24 85 • Fax: +90 216 449 24 87 rothenberger@rothenberger.com.tr rothenberger.com.tr
	ROTHENBERGER Werkzeuge Produktion GmbH Lilienthalstraße 71–87 • D-37235 Hessisch-Lichtenau Tel.: +49 56 02 93 94-0 • Fax: +49 56 02 93 94-36	UAE	ROTHENBERGER Middle East FZCO PO Box 261190 • Jebel Ali Free Zone Dubai, United Arab Emirates Tel.: +971 48 83 97 77 • Fax: +971 48 83 97 57 office@rothenberger.ae
Greece	ROTHENBERGER Hellas S.A. Agias Kyriakis 45 • 17564 Paleo Faliro • Greece Tel.: +30 210 94 02 049 • +30 210 94 07 302 3 Fax: +30 210 94 07 322 ro-he@otenet.gr rothenberger.com		ROTHENBERGER EQUIPMENT TRADING & SERVICES LLC PO Box 91208 • Mussafah Industrial Area Abu Dhabi, United Arab Emirates Tel.: +971 25 50 01 54 • Fax: +971 25 50 01 53 servicecenter@rothenberger.ae
Hungary	ROTHENBERGER Hungary Kft. Gubacsi út 24 • H-1097 Budapest Tel.: +36 1 3 47-50 40 • Fax: +36 1 3 47-50 59 info@rothenberger.hu rothenberger.hu	UK	ROTHENBERGER UK Ltd 2, Kingsthorpe Park, Henson Way Kettering • GB-Northants NN16 8PX Tel.: +44 15 36 31 03 00 • Fax: +44 15 36 31 06 00 info@rothenberger.co.uk
India	ROTHENBERGER India Pvt. Ltd. Plot No 17, Sector–37, Pace city-I Gurgaon, Haryana–122 001, India Tel.: +91 124-4618900 • Fax: +91 124-4019471 contactus@rothenbergerindia.com rothenberger.in	USA	ROTHENBERGER USA LLC 7130 Clinton Road • Loves Park, IL 61111, USA Tel.: +1 80 05 45 76 98 • Fax: +1 81 56 33 08 79 customerservice-us@rothenberger.com rothenberger-usa.com

rothenberger.com



**We connect people
with water and energy.
Safe. Sustainable.**



4100000262 / 03.19 / GB / MKT / KOH

Visit us:

rothenberger.com

 facebook.com/rothenberger

ROTHENBERGER Werkzeuge GmbH

Industriestraße 7
D-65779 Kelkheim / Germany

Telefon +49 6195 / 800 - 0

Telefax +49 6195 / 800 - 3500

info@rothenberger.com