

# ROTHENBERGER

pipetool technologies at work

## GLOBE



2013 / 2014



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## Welcome to the world of ROTHENBERGER.

The ROTHENBERGER product program stands for quality and technology from one source. With this, we offer our customers a comprehensive partnership for the future. Having manufactured and sold more than 5,000 products, ROTHENBERGER has the most extensive program for modern premium pipe tools and machines worldwide. Technologically innovative products are offered in 11 application groups for installation, service & repair, refrigeration & air-conditioning technology and general-purpose tools.

- Cutting
- RODIA® Diamond Core Drilling & Cutting
- Bending
- Bonding
- Testing & Leak Detection
- Freezing
- Inspection & Locating
- Flushing & Pipe Cleaning
- ROWELD® Plastic Pipe Welding
- Refrigeration & Air-Conditioning Technology
- General-Purpose Tools



# ROTHENBERGER: Your One-Stop-Shop.

The whole pipetool-  
competence in one hand.  
Quality in red – Always convincing.



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# Cutting

## Cutting Metal Manual

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### TUBE CUTTER 35 / 42 Pro

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

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



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

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 DURAMAG® Display	6 - 35	1/4" - 1.3/8"	1700	1	6	070027DB
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	1	4	070027C
TUBE CUTTER 35 DURAMAG® MSR	6 - 35	1/4" - 1.3/8"	470	1	4	70108
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	540	1	4	70029
TUBE CUTTER 42 PRO MSR	6 - 42	1/4" - 1.5/8"	540	1	4	70109
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	540	1	4	70072



Fig. ROTRAC 28

Casing made in one cast  
Stable and long-lasting



Fig. ROTRAC 28 PLUS  
Limited Edition

### ROTRAC 28 / 42 / ROTRAC 28 Plus

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

- 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 28 PLUS	3 - 28	1/8" - 1.1/8"	220	1000000046
ROTRAC 42	6 - 42	1/4" - 1.5/8"	255	70011
Spare axle			5	70080
Spare cutter wheel (contains 5 pcs.) Cu, Al, brass			20	070007D

### MINICUT I PRO / II PRO

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

- Handy design with small working radius (38 mm and/or 1.1/2" I PRO/42 mm and/or 1.5/8" II PRO) allows for use in hard-to-reach places



Ideal for maintenance and repair work!



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

### MINICUT 2000

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

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

- Handy design with small working radius (45 mm and/or 1.3/4") allows for use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design



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



### MINI MAX

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

- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with very small working radius (58 mm and / or 21/4") allows for use in hard-to-reach places



Model	mm	inch	g		No.
MINI MAX	3 - 28	1/8 - 1.1/8"	270	1 4	<b>70015</b>
Spare cutter wheel (contains 5 pcs.)			20	1 (5)	<b>070017D</b>

### TUBE CUTTER 30 PRO / 50

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

- 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 - 1.1/8"	305	1 4	<b>71019</b>
TUBE CUTTER 50	12 - 50	1/2 - 2"	520	1 4	<b>70065</b>
Spare cutter wheel (contains 5 pc.)			20	1	<b>070017D</b>

### Automatic Ratchet Telescopic Pipe Cutter

#### Telescopic pipe cutter Ø 6 - 127 mm (1/4 - 5")

- For copper, brass, aluminium, thin-walled steel pipes, as well as plastic coated pipes
- Retractable internal deburrer and spare cutter wheel in handle



Model	mm	inch	g	No.
Size 1	6 - 67	1/4 - 25/8"	755	<b>70030</b>
Size 2	50 - 127	2 - 5"	1850	<b>70142</b>
Size 1 Spare cutter wheel (5 pcs.)			20	<b>070017D</b>
Size 2 Spare cutter wheel (2 pcs.)			20	<b>070057D</b>

### Chain Pipe Cutter

#### For pipes Ø 20 - 100 mm (1 - 4")

- 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



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

### SUPER 1.1/4" and 2"

#### Steel pipe cutter Ø 10 - 60 mm (1/4 - 2")

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



Model	mm	inch	g	No.
SUPER 1.1/4"	10 - 42	1/4 - 1.1/4"	1040	<b>70040</b>
SUPER 2"	10 - 60	1/8 - 2"	2155	<b>70045</b>
1.1/4" Spare cutter wheel (contains 3 pcs.)			20	<b>070046D</b>
2" Spare cutter wheel (contains 3 pcs.)			20	<b>070051D</b>

### ENORM 4"

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

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



Model	mm	inch	g	No.
ENORM 4"	60 - 115	2 - 4"	7105	<b>70060</b>
Spare axle			5	<b>70064</b>
Spare cutter wheel (contains 2 pcs.)			20	<b>070061D</b>

# Cutting

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## Cutting Metal Manual

### INOX TUBE CUTTER 30 PRO

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

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

**INOX!**



Internal deburrer

Retractable

Precise cutting of stainless steel pipes



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

### INOX TUBE CUTTER

**Ratchet telescopic pipe cutter Ø 10 - 54 mm (1/4 - 2.1/8") for the precise cutting of stainless steel pipes**

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

12 x ball bearings

Extremely stable, fast and direct guidance of the pipe

**INOX!**



Metal casing made out of Aluminium

Robust and extremely stable

Wide rollers for reliable guidance



**12 x ball bearings!**

Model	mm	inch	g	No.
INOX TUBE CUTTER	10 - 54	1/4 - 2.1/8"	305	4 <b>70340</b>
Spare cutter wheel	20			1(2) <b>70341</b>

### INOX TUBE CUTTER 35 / 42 PRO

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

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

**INOX!**



Model	mm	inch	g	No.
INOX TC 35	6 - 35	1/4 - 1.3/8"	440	<b>70055</b>
INOX TC 42 PRO	6 - 42	1/4 - 1.5/8"	510	<b>70070</b>
Spare cutter wheel (contains 5 pcs.)			20	<b>070056D</b>

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

**Stainless steel pipe cutter Ø 10 - 60 mm (1/4 - 2")**

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



**INOX!**



Model	mm	inch	g	No.
INOX SUPER 1.1/4"	10 - 42	1/4 - 1.1/4"	1040	<b>70086</b>
INOX SUPER 2"	10 - 60	1/8 - 2"	2155	<b>70087</b>
1.1/4" Spare cutter wheel (contains 2 pcs.)			20	<b>070088D</b>
2" Spare cutter wheel (contains 2 pcs.)			20	<b>070089D</b>



### ROSLICE®

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

- 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



Model	mm/inch		g	No.
ROSLICE®	12 mm	1	240	<b>88812</b>
ROSLICE®	15 mm	1	230	<b>88815</b>
ROSLICE®	18 mm	1	260	<b>88818</b>
ROSLICE®	22 mm	1	250	<b>88822</b>
Spare cutter wheel	1.1/8", 12 mm	5	36.3	<b>088840D</b>
Spare cutter wheel	5/8"-7/8", 15-22 mm	5	34.6	<b>088841D</b>
Spare cutter wheel	1/2"-3/4", 18 mm	5	374	<b>088842D</b>

### Jacket Pipe Cutter

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

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



Model	mm	No.
Jacket pipe cutter	0-32 mm	<b>21500</b>
Spare blade ROCUT PPD		<b>21505</b>

### PLASTICUT + / PLASTICUT PEX / PLASTICUT PVC

#### For quick, clean and right angled cuts on MLCP, PEX and PVC pipes

- Fast Cut: Quick cutting with just a few turns
- Flexible casing, allows cutting on smaller diameters
- Less space required, ideal for hard-to-reach places
- No deformation of the pipe: self-clamping and self-alignment
- Readjustment not necessary

Best contact with the pipe

Straight cut



Fig. PLASTICUT + (MSR)



Fig. PLASTICUT PEX

Indicates rotating direction

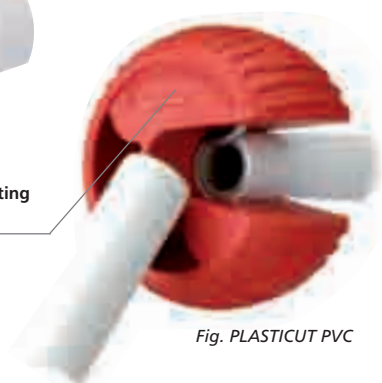


Fig. PLASTICUT PVC

#### Instructions:

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

Model	mm	No.
PLASTICUT + (MSR)	16 mm	<b>88716</b>
PLASTICUT + (MSR)	20 mm	<b>88720</b>
PLASTICUT + (MSR)	25/26 mm	<b>88726</b>
PLASTICUT + (MSR)	32 mm	<b>88732</b>
PLASTICUT + (MSR, 3 piece set)	16, 20, 25/26 mm	<b>88700</b>
PLASTICUT PEX	10 mm	<b>59010</b>
PLASTICUT PEX	15 mm	<b>59015</b>
PLASTICUT PEX	20 mm	<b>59020</b>
PLASTICUT PEX	22 mm	<b>59022</b>

Model	mm	No.
PLASTICUT PEX	25 mm	<b>59025</b>
PLASTICUT PEX	28 mm	<b>59028</b>
PLASTICUT PVC	32 mm	<b>59035</b>
PLASTICUT PVC	40 mm	<b>59042</b>
PLASTICUT PVC	50 mm	<b>59050</b>
Spare blade PLASTICUT + (MSR)		<b>88777</b>
Spare blade plastic type A (3 pcs.) 10 mm, 15 mm, 20 mm, 22 mm, 32 mm 40 mm, 50 mm		<b>59000</b>
Spare blade plastic type B (3 pcs.) 25 mm, 28 mm,		<b>59001</b>

# Cutting

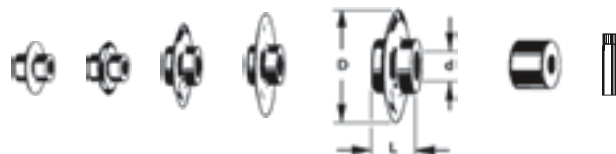
## Accessories Cutting Metal Manual

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### 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 / 595 / 185	3.0	70041	4.7 / 14 / M3	70023	-	Copper pipe (Cu),
MINICUT II PRO	6 - 22 mm	70402	070017D	4.8 / 595 / 185	3.0	70041	4.7 / 14 / M3	70023	-	Brass pipe (Ms),
MINICUT 2000	3 - 22 mm	70105	070017D	4.8 / 59 / 185	3.0	70041	4.7 / 14 / M3	-	-	Aluminium pipe (Al),
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 59 / 185	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 / 59 / 185	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu),
TUBE CUTTER 35 + 35 C	6 - 35 mm	070027(C)	070017D	4.8 / 595 / 185	3.0	70041	4.7 / 14 / M3	70067	21652	Brass pipe (Ms),
TUBE CUTTER 42 PRO	6 - 42 mm	70029	070017D	4.8 / 595 / 185	3.0	70041	4.7 / 14 / M3	70067	21652	Aluminium pipe (Al),
										thin-walled Steel pipe (Fe),
TUBE CUTTER 35 MSR	6 - 35 mm	70108	070188D	4.8 / 59 / 193	3.0	70041	4.7 / 14 / M3	70067	21652	PVC hard plastic pipe
TUBE CUTTER 42 PRO MSR	6 - 42 mm	70109	070188D	4.8 / 59 / 193	3.0	70041	4.7 / 14 / M3	70067	21652	Plastic coated pipe
TUBE CUTTER 50	12 - 50 mm	70065	070017D	4.8 / 59 / 185	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe
		70030	070017D	4.8 / 59 / 185	3.0	70041	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled.
AUTOMATIK Pipe Cutter	Size 1 6 - 67 mm	70031	070028D	4.8 / 11 / 290	70	70041	4.7 / 16 / M4	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
		70142	070057D	8 / 11 / 290	70	70149	79 / 23.5 / 1/4"	-	21652	thin-walled: Cu, Ms, Al, Fe
	Size 2 50 - 127 mm	70032	055054D	8 / 11 / 40.0	13.0	70149	79 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			055053D	8 / 11 / 30.5	86	70149	79 / 23.5 / 1/4"	-	21652	thin-walled: PP pipes
	Size 3 100 - 168 mm	70033	055074D	8 / 11 / 450	16.0	70149	79 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			055053D	8 / 11 / 30.5	86	70149	79 / 23.5 / 1/4"	-	21652	thin-walled: PP pipes
TUBE CUTTER 28	3 - 28,0 mm	70010	070007D	4.8 / 3 / 16	25	70080 + 70081	4.7 / 9 / SR	80679	-	Cu, Ms, Al, Fe thin-walled.
TUBE CUTTER 42	3 - 42 mm	70011	070007D	4.8 / 3 / 16	25	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 / 6 / 23.6	70	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	75 / 13.5 / 26 90 / 19 / 31.5	55 70	70048 70053	74 / 30 / - 89 / 35 / -	70047 70052	-	Steel pipe
Steel Pipe Cutter ENORM	2" - 4"	70060	070061D	97 / 27 / 41.5	70	70064	94 / 52 / -	70063	-	Steel pipe
INOX TUBE CUTTER 30 PRO	3 - 30 mm	71085	070056D	4.8 / 59 / 185	4.0	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe
INOX TUBE CUTTER 35	6 - 35 mm	70055	070056D	4.8 / 59 / 185	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX TUBE CUTTER 42 PRO	6 - 42 mm	70070	070056D	4.8 / 59 / 185	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe
INOX SUPER	1/8" - 1.1/4" 1/8" - 2"	70086 70087	070088D 070089D	75 / 13.5 / 26 90 / 19 / 31.5	55 70	70048 70053	74 / 30 / - 89 / 35 / -	70047 70052	-	Stainless steel pipe
Chain Pipe Cutter	100 mm	70285	-	4.0 / 3.8 / 178	3.0	-	-	-	-	Cu, Ms, Al, Fe thin-walled.



### ROCUT® TC 50 / TC 75 Professional

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



No. 52010



No. 52015

### ROCUT® TC 63 Professional

Plastic pipe shears up to Ø 63 mm (2 1/2")

(TC 63 Professional for PVC pipes)



No. 52030

### 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)







No. 52005



No. 52040





No. 55005 / No. 55015

Model	 mm	 inch	 g		No.
ROCUT® TC 26 Professional	0 - 26	0 - 1.1/4"	370	1 4	<b>52005</b>
ROCUT® TC 32 Professional	0 - 32	0 - 1.3/8"	220	1 4	<b>52040</b>
ROCUT® PS 35	6 - 35	1/4 - 1.3/8"	740	1 20	<b>55005</b>
ROCUT® PS 26 / 42 S adjustable	6 - 42	1/4 - 1.5/8"	950		<b>55015</b>
ROCUT® TC 42 Professional	0 - 42	0 - 1.5/8"	447	1 4	<b>52000</b>
ROCUT® TC 50 Professional	0 - 50	0 - 2"	600	1 4	<b>52010</b>
ROCUT® TC 63 Professional	0 - 63	0 - 2 1/2"	700	1	<b>52030</b>
ROCUT® TC 75 Professional	0 - 75	0 - 3"	1,600	1	<b>52015</b>

### ROCUT®

#### Plastic pipe shears

Plastic pipe shears for easy, effortless one-handed cutting of PE, PP, VPE, PB and PVDF piping. For use in plumbing and heating installations.

Description	 mm	 g	No.
ROCUT® 32	0 - 32	320	<b>55090E</b>
Spare blade incl. gear rack		70	<b>55032</b>
ROCUT® 42	0 - 42	420	<b>55091E</b>
Spare blade		80	<b>55042</b>
ROCUT® 63	0 - 63	1260	<b>55095E</b>
Spare blade		120	<b>55063</b>



# Cutting

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## Cutting Plastic / MSR Manual

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

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

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

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

<b>TC 67 PL:</b>	6 - 67 mm	1/4 - 25/8"
<b>TC 125 PL:</b>	50 - 125 mm	2 - 5"
<b>TC 168 PL:</b>	110 - 168 mm	4 - 6.5/8"



No. 70033



No. 070031D

Removable internal  
pipe deburrer



Model	mm	inch	Cutting depth	kg		No.
TC 67 PL	6 - 67	1/4 - 25/8"	7.0	0.7	1	<b>70031</b>
TC 125 PL	50 - 125	2 - 5"	13.0	1.6	1	<b>70032</b>
TC 168 PL	110 - 168	4 - 6.5/8"	16.0	1.7	1	<b>70033</b>
Counter display TC 67 PL					1 (4)	<b>070031D</b>
Spare cutter wheels for TC 67 PL			7.0	0.1	3	<b>070028D</b>
Spare cutter wheels for TC 125 PL			13.0	0.2	3	<b>055054D</b>
Special size TC 125 PL			8.6	0.1	2	<b>055053D</b>
Spare cutter wheels for TC 168 PL			16.0	0.2	2	<b>055074D</b>
Special size TC 168 PL			8.6	0.1	2	<b>055053D</b>






### ROBO Super

#### Safety saw frame

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




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

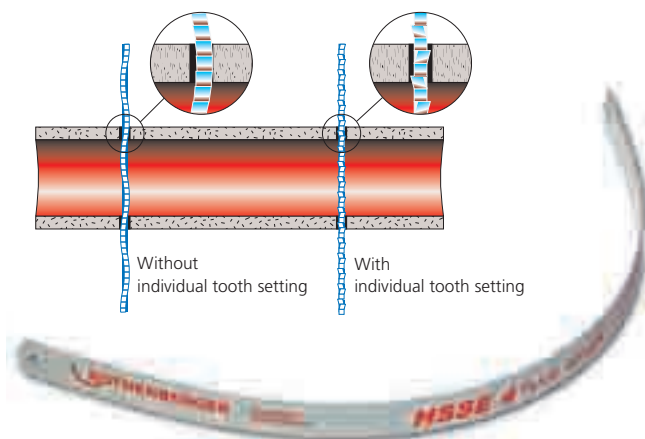
### Metal Saw Frame

- Solid design, massive, stable 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	<b>300013</b>



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


### 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	<b>71222</b>

### 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	<b>842100</b>
PUK adjustable, with UNIVERSAL saw blade (w. App.)	150	140	<b>71215</b>
UNIVERSAL saw blade for metal	150 (32 ZpZ)	20	<b>71217</b>
Saw blade for wood	150 (14 ZpZ)	20	<b>71216</b>



### HSSE 4 Plus

#### Bimetal hand handsaw 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	<b>71213</b>

# Cutting

## Sawing Electric / Saw Blades

1



### ROTIGER VARIO Electronic

#### Pipe saw

Powerful and quick cutting universal saw for the profession use during installation, demolition and repair work.

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



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

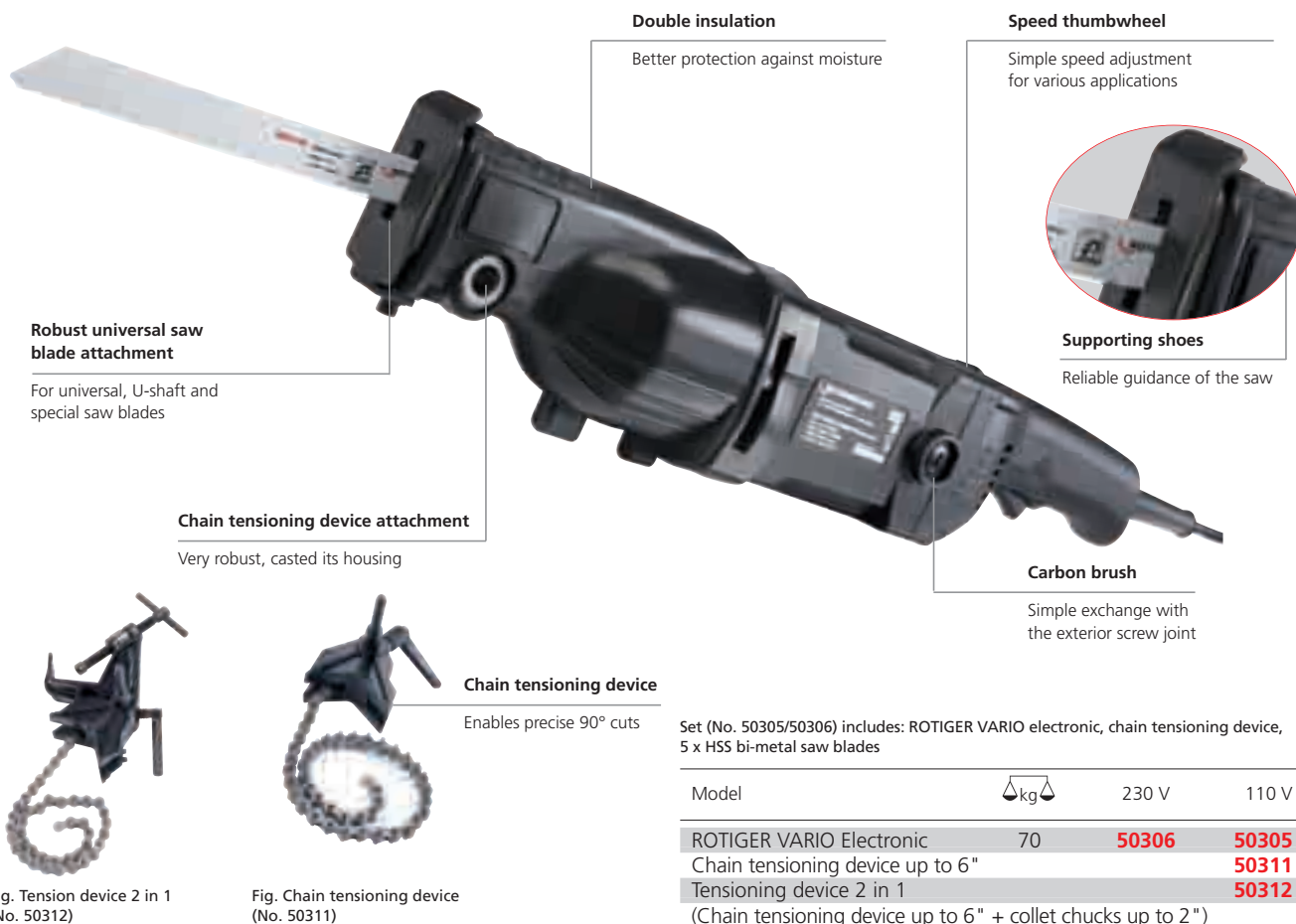


Fig. Tension device 2 in 1 (No. 50312)

Fig. Chain tensioning device (No. 50311)

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

Model	kg	230 V	110 V
ROTIGER VARIO Electronic	70	<b>50306</b>	<b>50305</b>
Chain tensioning device up to 6"			<b>50311</b>
Tensioning device 2 in 1			<b>50312</b>
(Chain tensioning device up to 6" + collet chucks up to 2")			

### Special Pipe Saw Blades

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

Cuttable materials	L x B x thickness material	mm	TPI			*	No.
	HSS	140 x 25 x 1.6	8	L	1 (5)	<b>50260</b>	
	HSS	200 x 25 x 1.6	8	L	1 (5)	<b>50261</b>	
	HSS	290 x 25 x 1.6	6 - 8	L	1 (5)	<b>50263</b>	
	HSS-E	140 x 25 x 1.6	14	L	1 (5)	<b>50264</b>	
	HSS-E	200 x 25 x 1.6	8	L	1 (5)	<b>50265</b>	
	HSS	200 x 25 x 1.6	6 - 8	L	1 (5)	<b>50266</b>	

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

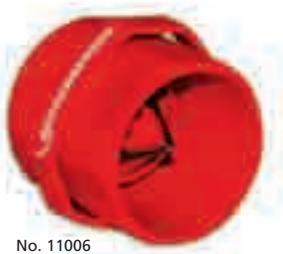




## Universal Internal & External Deburrer

### 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



No. 11006



No. 1500000237



No. 1500000236

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

## GRATFIX HSS/UNIGRAT

### Deburrer

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



No. 11045

Drive shaft

For the deburring with portable screwdriver or drill



No. 11044

Model	g	No.
Deburrer adaptor I for No. 1500000237	160	<b>11044</b>
Deburrer adaptor II for No. 1500000236	280	<b>11045</b>

## GRATFIX HSS/UNIGRAT

### Deburrer

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



UNIGRAT (No. 21660)



GRATFIX HSS (No. 21655)

Model	g	No.
UNIGRAT with HSS deburring blade	30	<b>21660</b>
GRATFIX with deburring blade No. 1	50	<b>21655</b>
GRATFIX with deburring blade No. 1 - 2 - 3	80	<b>21651</b>
HSS deburring blade No. 1 Universal	10	<b>21652</b>
HSS deburring blade No. 2 for brass and cast	10	<b>21653</b>
HSS deburring blade No. 3 for straight edges	10	<b>21654</b>

## Ratchet Pipe Deburrer 1/4 - 2"

### Rapid and clean deburring

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



Spare deburrer (No. 70296)

Model	inch	mm	g	No.
Internal deburrer with ratchet	1/4 - 2"	13 - 60	2680	<b>70289</b>
Spare deburrer			200	<b>70296</b>







# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated Drilling




2



### ROTHENBERGER Diamond Core Drilling

	<b>RODIADRILL Ceramic / Ceramic ECO</b>	<b>RODIADRILL 1800 DRY</b>	<b>RODIACUT® 130 PRO</b>	<b>RODIACUT® 170 PRO</b>	<b>RODIACUT® 270 PRO</b>	<b>RODIACUT® 400 PRO</b>
						
<b>Drilling range in concrete</b>	6 - 35 mm	-	10 - 162 mm	10 - 172 mm	32 - 272 mm	32 - 400 mm w/ distance plate 500mm
<b>Drilling range in masonry</b>	6 - 67 mm	32 - 202 mm	32 - 202 mm	32 - 202 mm	32 - 272 mm	32 - 400 mm w/ distance plate 500mm
<b>Distance to wall</b>	30 mm	40 mm	40 mm	40 mm	50 mm	50 mm
<b>Stationary</b>	- / 67 mm	32 - 172 mm	10 - 162 mm	10 - 172 mm	32 - 272 mm	32 - 402 (500) mm
<b>Watt output</b>	800 W	1,800 W	1,800 W	1,800 W	2,400 W	3,000 W
<b>Weight</b>	3.4 / 3.2 kg	5.8 kg	14.2 kg	25.0 kg	30.5 kg	40.5 kg
<b>Special features</b>	Wide area of use, extremely light machine, especially for hard natural stone / tiles	Soft PULSE can be turned on / off. Integrated extraction rotor	4 functions with just one device	4 functions with just one device. Fully equipped drill stand	Motor quick release system. Fully equipped drill stand	Innovative motor electronics, fully equipped drill stand, extremely high torque

### ROTHENBERGER Diamond Drilling Technology

	<b>High Speed Plus Natural Stone</b>	<b>DX-High Speed Plus Universal Drill Bits</b>	<b>SPEED STAR DX</b>
			
<b>Application Area</b>	Wet drill bit	Wet and dry drill bit	Wet and dry drill bit
<b>Socket threads</b>	R1/2"	R1/2" + 1.1/4" UNC	R1/2" + 1.1/4" UNC
<b>Effective length</b>	50 / 120 / 300	300 / 430	400 / 500
<b>Segment mount</b>	Soldered	Space welding	Space welding
<b>Segment form</b>	Flat segment	Flat segment	PRISMACUT
<b>Material</b>	Reinforced concrete, marble granite, hollow brickwork, masonry, clinker	Reinforced concrete, concrete, marble, lime sand brick, hollow brickwork, masonry	Reinforced concrete, concrete asphalt*, pavement* <small>*custom made on request</small>

Reinforced  
concrete

Marble

Granite

Lime sand brick

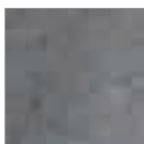
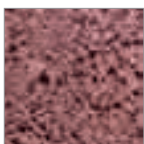
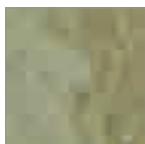
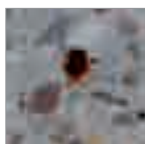
Hollow  
brickwork

Masonry

Aerated  
concrete

Asphalt

Pavement



# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated Drilling

### RODIADRILL 1800 DRY

Hand-operated dry drilling, drill Ø 32 - 202 mm

Hand-operated dry drilling, optimal for drilling in lime sand brick, masonry, brickwork, pumice, aerated concrete. Ideal for use in the HVAC & R, plumbing and electrical industries, in enclosed rooms or in inhabited buildings where jolt and dust free operation is required

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

#### Electronic soft start with overload indicator

Safety for man and machine

#### Electronic friction clutch with 20 Nm torque

Safe operation thanks to automatic shut-off



**Lightweight: 5.8 kg!**

230 V



Ø 202

#### Small compact design

Better operating position, directly against the wall

Threaded socket R 1/2" + 1, 1/4"

#### Small integrated dust extraction

Optimum drilling results for larger diameters

**POWER PULSE-Technology** mode with 23.000 soft beats per minute

Dust free use

Efficient drilling in hard materials

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

Model	kg	No.
RODIADRILL 1800 DRY set	5.80	<b>FF40185</b>
Transport case RODIADRILL 1800 DRY	4.40	<b>FF60185</b>



### RODIADRILL Ceramic ECO

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

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



Fig. RODIADRILL Ceramic

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

Set (No. FF40150) includes: Drill motor RODIADRILL Ceramic (No. FF40150P), 1 high speed plus drill bit each Ø 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), spanners sizes 24 and 27 (No. FF70024, FF70027), transport case (No. FF60150)

Model	kg	No.
RODIADRILL Ceramic ECO set	3.2	<b>FF40140</b>
Quick change adaptor R 1/2"	0.2	<b>FF35751</b>
RODIADRILL Ceramic	3.4	<b>FF40150</b>

#### Quick Change System drill bit adaptor

Tool-less quick change for drill bits R 1/2"

230 V



Ø 67

Fig. RODIADRILL Ceramic ECO



#### Ø 56 mm clamping adaptor

For stationary drilling

Integrated water flow socket with Aqua-stop and adjustable water tap

Ideal solution for serial drillings

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

Stationary drilling





# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated Drilling



2



### Feed unit and 4x guide rollers

Universal use with RODIACUT® 170, 270 and 400 PRO

### Stainless-steel handle

Quick, tool-less exchange of the operational side, sturdy design

*Dowel plate: Extremely small dimensions, for very tight spaces*



## RODIACUT® 130 PRO

### Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 202 mm

Ideal for use in HVAC&R, plumbing and electrical industries, as well as the entire building industry where jolt and dust-free operation is required. The light weight and tool-less operation allows an easy one-man operation and makes this unit a "must" on every construction site.

Stationary wet drilling in (reinforced) concrete	Ø 10 - 162 mm
Stationary dry drilling in masonry	Ø 32 - 162 mm
Hand-operated wet drilling in (reinforced) concrete	Ø 10 - 82 mm
Hand-operated dry drilling in masonry	Ø 32 - 202 mm

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

Scope of Delivery 1000000089: Drill stand RODIACUT® 130 PRO, drill motor RODIADRILL 1800 DWS, reduction rings 56 mm (No. F85152), spanner size 19/24/36/41, water supply hose (No. FF35302), complete concrete set (No. FF35120), copper ring 1.1/4" (No. FF35190), instruction manual RODIADRILL 1800 DWS (No. 90704), instruction manual RODIACUT® 130 PRO (No. 1300000155), tool bag (No. FF70001)

Model	kg	No.
RODIACUT® 130 PRO set	14.2	1000000089
with RODIADRILL drill motor 1800 DWS		
RODIACUT® 130 PRO set	14.1	1000000092
with RODIADRILL drill motor 1400 DWS		
Drill stand RODIACUT® 130 PRO	7.2	1000000088



### Rubber transport wheels

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

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

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

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

High-quality drill base



## RODIACUT® 170 PRO C / 170 PRO D

### Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 202 mm

#### 4 Applications with just one unit:

Stationary wet drilling in (reinforced) concrete	Ø 10 - 172 mm
Stationary dry drilling in masonry	Ø 32 - 172 mm
Hand-operated wet drilling in (reinforced) concrete	Ø 10 - 82 mm
Hand-operated dry drilling in masonry	Ø 32 - 202 mm

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

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

**Drill motor adaptor:** Ø 60 mm

Scope of delivery (No. FF34171 / FF34170): Drill stand RODIACUT® 170 PRO C or 170 PRO D, drill motor RODIADRILL 1800 DWS, reducing ring 56 mm (No. F85152), spanner sizes 19/24/36/41, Allen key 6 mm, water supply hose (No. FF35302), concrete set, complete (No. FF35120), copper ring 1.1/4" (No. FF35190), instruction manuals: RODIADRILL 1800 DWS (No. 90704), RODIACUT® 170 - 400 (No. 90726), tool bag (No. FF70001)

Model	kg	No.
RODIACUT® 170 PRO C complete	13.1	FF34171
RODIACUT® 170 PRO D complete	12.8	FF34170
RODIADRILL 1800 DWS	7.0	FF40180

# RODIA® Diamond Core Drilling & Cutting

## Hand-Operated and Stationary Wet Drilling

### RODIACUT® 270 PRO C / 270 PRO D

Drill stand with dowel- or vacuum combination plate  
drill Ø 32 - 272 mm

#### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 272 mm  
Stationary dry drilling in masonry Ø 32 - 272 mm

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

**Drilling range:** w/o water collection ring: max. Ø 272 mm  
with water collection ring max. Ø 220 mm

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

Model	kg	No.
RODIACUT® 270 PRO C complete	30.8	FF34271
RODIACUT® 270 PRO D complete	30.5	FF34270
RODIADRILL 2400 PD-E	10.1	FF40210



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

Tool-less quick mounting/demounting of drill  
motor on drill stand

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

High-quality drill base

Rubber transport  
wheels

Quick and easy transport  
on the building site



### RODIACUT® 400 PRO D

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

#### 2 applications in one unit:

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

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

**Drilling range:** w/o water collection ring:  
max. Ø 500 mm optional with distance plate



Distance plates (No. FF35138)

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

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

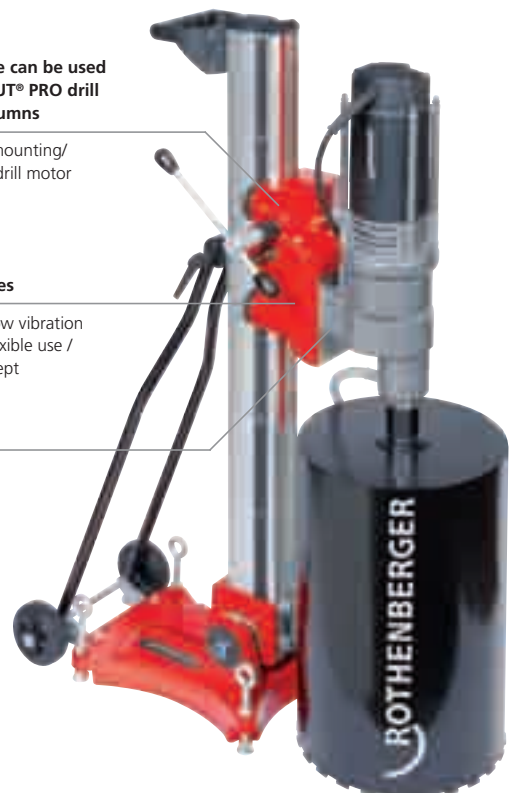
Tool-less quick mounting/  
demounting of drill motor  
on drill stand

4 x roll guides

Precise and low vibration  
operation, flexible use /  
module concept

Scope of delivery (No. FF34300): Drill stand RODIACUT® 400 PRO D, drill motor RODIADRILL 3000 PD, spanner size 24 - size 36 - size 41, water supply hose (No. FF35302), hexagonal pin key (No. 321300), concrete set, complete (No. FF35120), Copper ring 1.1/4" (No. FF35190), Instruction manual RODIADRILL 3000 PD (No. 90725), tool bag (No. FF70001).

Model	kg	No.
RODIACUT® 400 PRO D	40.5	FF34300
Drill stand RODIACUT® 400 PRO D	28.4	FF30030
RODIADRILL 3000 PD	12.1	FF40300



# RODIA® Diamond Core Drilling & Cutting

## RODIA® Diamond Drill Bits

### Space Welding

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

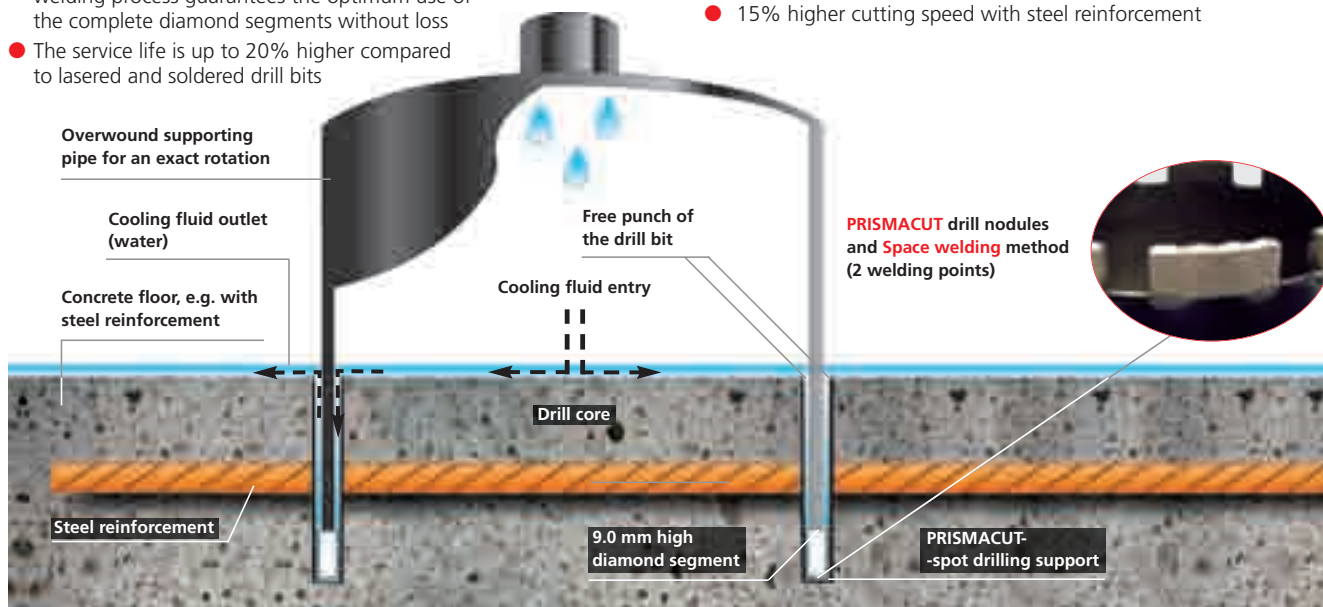
Wet and dry drilling with new technology:

- 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.

- 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  
Ø 10 - 300 mm

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

Typical areas of application are HVAC&R and electronic installations, old building renovations, building industry, air-conditioning technology, garden and landscaping

- 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

Special segment mix

Quicker drilling progress and extremely long service life



Space welding

Allows wet and dry use

Overwound drill bits

Balanced rotation reduces wear



Highest service life and universal application!

Drill Bit length 300 mm Adaptor			
Ø mm	kg	R 1/2" No.	
20	0,5	FF44620	
30	0,6	FF44630	
40	0,7	FF44640	
52	0,9	FF44650	
62	1,2	FF44660	
72	1,4	FF44670	

Drill Bit length 300 mm Adaptor			
Ø mm	kg	R 1/2" No.	
82	1,6	FF44680	
92	1,9	FF44690	
102	2,1	FF44700	
112	2,4	FF44710	
122	2,6	FF44720	
132	2,9	FF44730	

Drill Bit length 430 mm Adaptor			
Ø mm	kg	1.1/4" No.	
30	0,7	FF44030	
40	1,2	FF44040	
52	1,6	FF44050	
62	1,9	FF44060	
72	2,3	FF44070	
82	2,6	FF44080	
92	3,0	FF44090	
102	3,4	FF44100	
112	3,8	FF44110	
122	4,2	FF44120	

Drill Bit length 430 mm Adaptor			
Ø mm	kg	1.1/4" No.	
132	4,6	FF44130	
142	5,0	FF44140	
152	6,4	FF44150	
162	7,0	FF44160	
172	7,5	FF44170	
182	8,0	FF44180	
200	9,0	FF44200	
220	11,4	FF44220	
250	13,6	FF44250	
300	19,3	FF44300	



### SPEED STAR DX

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

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

- 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 R 1/2" and 1.1/4" UNC threaded adaptors

Durable (DURAMANT) PRISMACUT

Extremely easy cutting,  
safe cut in hand-operated use



2



Drill Bit length 400 mm Adaptor			Drill Bit length 400 mm Adaptor		
Ø mm	kg	R 1/2" No.	Ø mm	kg	R 1/2" No.
10	0.3	FF00610	52	0.9	FF00650
12	0.4	FF00612	56	1.2	FF00655
14	0.4	FF00614	62	1.2	FF00660
15	0.4	FF00615	66	1.3	FF00665
16	0.4	FF00616	72	1.4	FF00670
18	0.4	FF00618	76	1.5	FF00675
20	0.5	FF00620	82	1.6	FF00680
24	0.5	FF00624	87	1.7	FF00685
25	0.5	FF00625	92	1.9	FF00690
26	0.5	FF00626	95	2.0	FF00695
28	0.6	FF00628	102	2.1	FF00700
30	0.6	FF00630	108	2.3	FF00705
32	0.6	FF00632	112	2.4	FF00710
35	0.7	FF00635	117	2.5	FF00715
38	0.7	FF00638	122	2.6	FF00720
40	0.7	FF00640	127	2.8	FF00725
46	0.7	FF00645	132	2.9	FF00730

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

### High Speed Plus Natural Stone

Soldered diamond core wet cutting drill bit Ø 6 - 68 mm for extremely hard materials

**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

- 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

Overwound drill bits

Balanced rotation reduces wear

Threaded adaptor R 1/2"

Suitable for all other ROTHENBERGER drilling machines



Adaptor R 1/2" No.			Adaptor R 1/2" No.		
Ø mm	kg		Ø mm	kg	
6.3	0.17	FF44806	18	0.21	FF44818
8.3	0.17	FF44808	20	0.22	FF44820
10	0.17	FF44810	22	0.22	FF44822
12	0.19	FF44812	24	0.22	FF44824
14	0.20	FF44814	25	0.23	FF44825
15	0.20	FF44815	26	0.23	FF44826
16	0.20	FF44816	28	0.25	FF44828

Adaptor R 1/2" No.			Adaptor R 1/2" No.		
Ø mm	kg		Ø mm	kg	
30	0.25	FF44830	45*	0.42	FF44845
32	0.25	FF44832	50*	0.60	FF44850
35	0.30	FF44835	55*	0.65	FF44855
36	0.32	FF44836	60*	0.72	FF44860
38	0.34	FF44838	65*	0.76	FF44865
40	0.34	FF44840	67*	0.79	FF44867
42	0.35	FF44842			

\* with single segment mounting

# RODIA® Diamond Core Drilling & Cutting

## 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

Description	kg	No.
Quick Clamping Column	9.0	<b>FF35015</b>
Vacuum pump RODIA-VAC 230 V	20.0	<b>FF35200</b>
Vacuum set, RODIACUT® 130, 131 DWS, 170-C	1.1	<b>FF35710</b>

### Quick Clamping Column

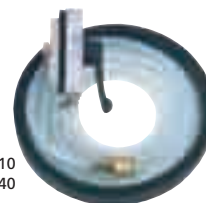
Tool-less and reliable bracing between floor and wall or wall and wall. Maximum operation range from 1.7 m up to 3.0 m with a load capacity up to 500 kg with sideways guidance.

No. FF35015



No. FF35135

### Vacuum Sets



No. FF35710  
No. FF35740

Description	kg	No.
Spare foamed rubber for drill base	0.1	<b>FF50007</b>
Vacuum set RODIACUT® 202 DWS, 270-C	1.1	<b>FF35740</b>
Spare foamed rubber for drill base	0.1	<b>FF50008</b>
Sharpening stick (286 x 152 x 40 mm)	1.8	<b>FF35135</b>

### Concrete Fixing Set

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

### Masonry Fixing Set

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

### Special Diamond Drills for Tiles and Natural Stone

For use when hammer drills can't 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

Description	kg	No.
SDS-plus hammer drill Ø 15 - 160 mm	0.16	<b>111429</b>
Masonry fixing set	1.10	<b>FF35121</b>
Thread rod, U washer, nut	0.70	<b>FF35124</b>
Rawl anchor M 12	0.08	<b>FF35126</b>
Wet drill bit Ø 20 mm	0.22	<b>FF44820</b>
SDS-plus hammer drill Ø 20 - 300 mm	0.22	<b>111449</b>

Description	kg	No.
Concrete fixing set	1.90	<b>FF35120</b>
Thread rod, U washer, nut	0.60	<b>FF35123</b>
Drive-in anchor M12	0.04	<b>FF35122</b>
Threaded rod, B15 concrete set	0.20	<b>FF35129</b>
Threaded rod, B15 masonry	0.30	<b>FF35130</b>
Wet drill bit Ø 15 mm	0.20	<b>FF44815</b>

### Extensions

#### R 1/2" and 1.1/4" UNC

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



Extension rods R 1/2"



Extension rods  
1.1/4" UNC

Nominal length mm	kg	R1/2" No.	kg	1.1/4" UNC No.
100	0.40	<b>FF35040</b>	1.00	<b>FF35060</b>
200	0.90	<b>FF35045</b>	2.00	<b>FF35065</b>
300	1.40	<b>FF35050</b>	3.00	<b>FF35070</b>
500	2.40	<b>FF35055</b>	5.10	<b>FF35075</b>

### 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



Description	g	No.
Copper Ring 1.1/4"	5	<b>FF35190</b>

### Thread Interfaces

Between motor connection and drill bit



No. FF35095



No. FF35080



No. FF35091

Description	g	No.
R 1/2" ext. thread to 1.1/4" UNC ext. thread	500	<b>FF35080</b>
1.1/4" UNC int. thread to R 1/2" int. thread	700	<b>FF35095</b>
Drill bit adaptor DD-BI of 1.1/4" and R1/2"	510	<b>FF35091</b>
Drill bit adaptor DD-BU of 1.1/4" and R1/2"	800	<b>FF35092</b>
Drill bit adaptor WÜRTH onto 1.1/4"	600	<b>FF35101</b>

### Water Supply

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

Description	kg	No.
Pressurized water container	5.50	<b>FF35026</b>
Submersible water pump RODIAPUMP	4.40	<b>FF35029</b>
Special water supply hose	0.20	<b>FF35301</b>
Water supply hose with "Aqua-stop"	0.20	<b>FF35302</b>



No. FF35026

#### 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

### Water Extraction Systems

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



No. FF35700



No. FF35701

Only for the RODIACUT® 130, 131 DWS and 170 PRO C



No. FF35730

Only for RODIACUT® 202 and 270 PRO C



No. FF40056

Description	kg	No.
Water collection ring, stationary (up to Ø 130 mm)	1.2	<b>FF35700</b>
Spare rubber membrane (for FF35700)	0.3	<b>FF55131</b>
Water collect. ring, hand-opd. (up to Ø 130 mm)	0.8	<b>FF35701</b>
Spare water collection ring discs (for FF35701)	0.2	<b>FF35702</b>
Adaptor for vacuum (FF35700)	0.1	<b>FF35703</b>
Water collection ring, stationary (up to Ø 200 mm)	2.5	<b>FF35730</b>
Spare rubber membrane (for FF35730)	0.6	<b>FF55201</b>

### Centering Pin

From 90 up to 400 mm

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

### Extraction Rotor "RODIADUST"

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

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



No. FF03301



No. FF35097

No. FF35096

Description	g	No.
Extraction Rotor 1.1/4" UNC	1,000	<b>FF40056</b>
Extraction Rotor M 30 x 2	1,000	<b>FF40057</b>
Centering Pin for extraction rotor 300 mm	330	<b>FF03300</b>
Centering Pin for extraction rotor 400 mm	330	<b>FF03301</b>
Adaptor for RODIADRILL 1800 DWS/DRY	100	<b>FF35097</b>
Centering tip "Quick-Out" ICW. FF35097	100	<b>FF35096</b>



# RODIA® Diamond Core Drilling & Cutting

## Accessories Hand-Operated & Stationary Drilling

### RODIA DRY CLEANER 1200

#### Wet and dry extraction unit

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

**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



Fig. Folded filter  
No. FF55374



#### Separate automatic outlet

Adaptor for further electric tools

#### User comfort with a wide operating range

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

Model	kg	No.
RODIA DRY CLEANER 1200	10.8	FF35148
Folded filter (2 piece) for wet suction	1.0	FF55374
Paper filter (5 piece) for dry suction	0.3	FF55388

### RODIA CLEANER 1400

#### Water suction unit

- Easy-to-handle and powerful 1400 watt water extraction unit
- 35 litre container made of zinc-plated steel plate with acrylate coating: Rust-free
- Separate automatic outlet connection for an additional electrical tools



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



#### Separate automatic outlet

Connection for additional electrical tools

#### Light and easy to handle

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

Model	kg	No.
RODIA CLEANER 1400	9.0	FF35210
Cartridge filter	1.0	FF55447
Paper filter (5 piece)	1.0	FF55448

### Wall Chaser WALL CUT 6540

Wall chaser for precise slots for the laying of pipes, cable ducts and electronic lines slot width:

5 - 40 mm, cutting depth: 20 - 65 mm

For use in the HVAC&R, plumbing and electrical industries, in enclosed rooms or in inhabited buildings where jolt and dust-free operation is required. Especially suitable for concrete, masonry, lime sand bring and brickwork

- Effort-saving operation with the downward pulling cut
- Precise guidance and easy feed movements with out much effort
- Faster cut-off wheel change with locking spindle
- Holding and transport handle can be adjusted to various positions
- Dust extraction guarantees visibility for direct, accurate cutting and safe operation
- Optimum adjustment for all working positions
- Latch prevents unintentional start

Scope of delivery (No. FF40040): Wall slot cutter WALL CUT 6540 with 2 saw blades Ø 230 mm (No. FF11230), chisel (No. 77151), pin type face wrench (No. FF70088), transport case (No. FF60101)



Effort-saving operation with the downward pulling cut



Description	kg	No.
WALL CUT 6540 - Set	9.0	FF40040

### Diamond Cut-Off Discs

Professional cut-off discs series - Ø 115 - 350 mm

A perfect choice for all areas of application, such as gardening and landscaping, roofing, electronics, etc. Ideally graded based on the

price/performance ratio. Through innovative technology in the area of segments, the dry/wet operating method has been brilliantly designed.

#### RED Professional

for concrete, reinforced concrete, brickwork, exposed aggregate concrete, roofing tile, granite, artificial stone, semi-hard clinker, ceramic, SML pipes, common construction site material

#### BLACK Professional

for concrete, reinforced concrete, brickwork, exposed aggregate concrete, roofing tile, semi-hard clinker, common construction site material

#### BLUE Professional

for concrete, reinforced concrete, brickwork, exposed aggregate concrete, soft + semi-hard clinker, common construction site material

#### GREEN Professional

for concrete, brickwork, ceramic, natural and artificial stone



Special 10 mm Sinter segments



10 mm Laser segments



7 mm Laser segments



7 mm Sinter segments

Ø mm	No.
115	FF11115
125	FF11125
150	FF11150
180	FF11180
230	FF11230
300	FF11300
350	FF11350

Ø mm	No.
115	FF12115
125	FF12125
150	FF12150
180	FF12180
230	FF12230
300	FF12300
350	FF12350

Ø mm	No.
115	FF13115
125	FF13125
150	FF13150
180	FF13180
230	FF13230
300	FF13300
350	FF13350

Ø mm	No.
115	FF16115
125	FF16125
150	FF16150
180	FF16180
230	FF16230

Reinforced concrete

Marble

Granite

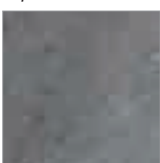
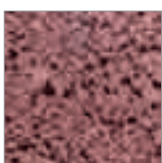
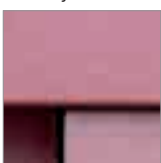
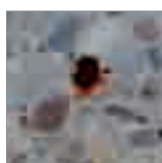
Green granite

Hollow brick

Masonry

Aerated concrete

Asphalt



# Bending

## Manual

### TUBE BENDER

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

- 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 includes: basic tool complete with bending segments, back plates, in plastic carrying case (No. 24025)

Model	kg		No.
TB Set 5 - 6 - 8 - 10 mm	2.84	1	<b>24131</b>
TB Set 6 - 8 - 10 - 12 mm	3.03	1	<b>24132</b>
TB Set 8 - 10 - 12 mm	2.82	1	<b>24133</b>
TB Set 1/4 - 5/16 - 3/8 - 1/2"	2.92	1	<b>24134</b>

### TUBE BENDER MAXI

For accurate one handed bending up to 90°, Ø 12 - 26 mm (3/8 - 1.1/4")

For the bending of pipes made of soft copper and aluminium, coated copper and precision steel pipes, as well as multi-layered composite pipes (only in MLP-Sets) and stainless steel (soft)

- 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. 023000X), back plate support with segments (Cu Set No. 23001) (MSR Set No. 23080), (MSR-Set No. 24022), plastic carrying case (No. 23097)

Model	kg		No.
TB MAXI set 12 - 15 - 18 - 22 mm	3.5	1	<b>023020X</b>
TB MAXI set 12 - 14 - 16 - 18 - 22 mm	3.5	1	<b>023021X</b>
TB MAXI set 3/8 - 1/2 - 5/8 - 3/4 - 7/8"	3.3	1	<b>023022X</b>
TB MAXI set MSR 14 - 16 - 18 - 20 - 25 mm	3.3	1	<b>023090X</b>
TB MAXI set MSR 14 - 16 - 18 - 20 - 26 mm	3.3	1	<b>023091X</b>

### 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")

- 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 (Mass X)

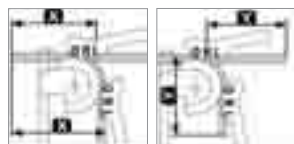
**Method R: Determination of the length of R - Right:**

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 (Mass Y)

Method L

Method R

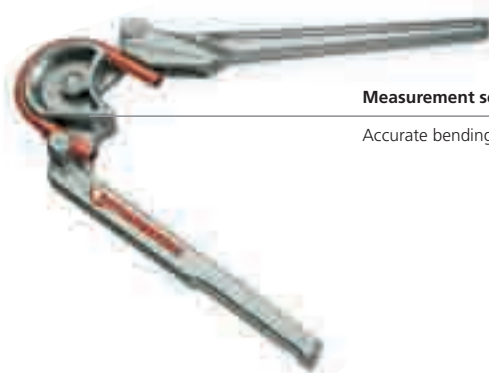


Model	Size	g	No.
MINIBEND	6 - 8 - 10 mm	420	<b>25150</b>
MINIBEND	1/4 - 5/16 - 3/8"	420	<b>25151</b>

### MULTIBEND Standard Bender 180°

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

- 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



Measurement scale

Accurate bending possible

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



## ROBEND® H+W PLUS

For accurate cold bending up to 180°,  
Ø 10 - 22 mm (3/8 - 7/8")

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



Model	Description	mm	kg	No.
ROBEND® H+W PLUS	12 - 15 - 18 - 22 mm	1.0	16.5	<b>24500</b>
ROBEND® H+W PLUS	10 - 12 - 14 - 16 mm	1.0	16.3	<b>24501</b>
ROBEND® H+W PLUS	12 - 14 - 16 - 18 mm	1.0	13.6	<b>24502</b>
ROBEND® H+W PLUS	15 - 18 - 22 mm	1.0	14.9	<b>24505</b>
ROBEND® H+W PLUS	1/2 - 5/8 - 3/4"	1.0	13.6	<b>24503</b>
ROBEND® H+W PLUS	1/2 - 5/8 - 7/8"	1.0	13.7	<b>24504</b>
Bending spray, 150 ml				<b>25120</b>

Single bending segments for other dimensions also available

## Copper Tube Bending Springs

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

- 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 / 5/16"	70	<b>25181</b>
10 mm	80	<b>25182</b>
12 mm	160	<b>25183</b>
15 mm	220	<b>25185</b>
16 mm / 5/8"	220	<b>25186</b>
1/2"	170	<b>25190</b>

## 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")

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



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

# Bending

## Electric

### ROBEND® 3000

**Portable, sturdy power bender for cold bending up to 180°, Ø 12 - 28 mm (1/2 - 7/8")**

Universal application in sanitary and heating installations, in pipe-line 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

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

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

Fast and precise bending

**Suitable for pipes made of:**  
**Copper (hard, semi-hard and soft DIN EN 1057):**

Ø 12 - 28 mm

**Copper and precision steel (coated):**

Ø 12 - 28 mm

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

Ø 12 - 28 mm

**Threaded steel (DIN EN10255 / 2440 / 2441):**

Ø 3/8 - 3/4"

**Seamless stainless steel (GW 541):**

Ø 12 - 28 mm

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



**Forged aluminium former with bending radius scale**

Easy to use

**Special ROLUB Guide Shoe**

Bending without deformation or ripples due to less friction



**High-performance 1010 W motor**

Ideal for continuous operation

**Bending technology**

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

**Automatic switch-off when preset bending angle is obtained**

Fast batch production possible

**Comfortable carry handle**



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



Fig. ROBEND® 3000 Set (not including tripod)

Model	Description	Pipe type	kg	No.
ROBEND® 3000 Set	15 - 18 - 22 - 28 mm	Cu, Fe, et al.	24,12	<b>025705X</b>
ROBEND® 3000 Set EU Plug (110 V)	15 - 22 - 28 mm	Cu, Fe, et al.	24,12	<b>025706X</b>
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 mm	Cu, Fe, et al.	21,90	<b>025709X</b>
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 - 28 mm	Cu, Fe, et al.	24,10	<b>025710X</b>
ROBEND® 3000 Set	12 - 15 - 18 - 22 mm	Cu, Fe, et al.	20,60	<b>025700X</b>
ROBEND® 3000 Set	12 - 15 - 18 - 22 - 28 mm	Cu, Fe, et al.	23,50	<b>025703X</b>
ROBEND® 3000 Set	1/2 - 5/8 - 3/4" - 7/8"	Cu, Fe, et al.	19,60	<b>025711X</b>
ROBEND® 3000 Set US Plug (110 V)	1/2 - 5/8 - 3/4" - 7/8"	Cu, Fe, et al.	19,60	<b>764705316</b>



### ROBULL ECO

#### Hydraulic bending machine

Capable of bending angles from 0° to 90° on tubes made from non-heated black iron and galvanized pipes. Maximum ram power 200 kN. It is provided with a safety valve to prevent any damage in case of overload.

- **Simple and easy to reach valve system**  
Manually operated monoblock unit with automatic return
- **Avoid any leakage**  
Specially designed with high efficiency seals
- **Prevent wear of vital parts**  
Hard chromed coatings
- **Everything at hand, maximum protection**  
Supplied in solid reusable wooden case

Description	kg	No.
ROBULL ECO 2", short radius, single bending frame with accessory	67,0	<b>57351</b>
ROBULL ECO 2", short radius, double bending frame with accessory	66,0	<b>57251</b>
ROBULL ECO 3", long radius, double bending frame with accessory	120,0	<b>7743520</b>
Tripod stand	3,1	<b>58182</b>

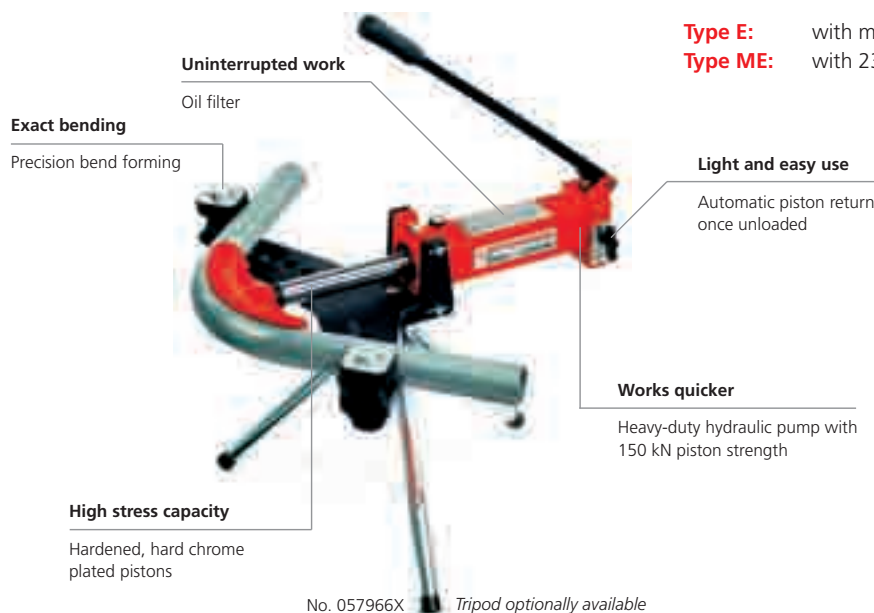
### ROBULL Type E and ME

#### Hydraulic bending machines

For precise manual hydraulic cold bending up to 90° of gas, water, and steam pipes Ø 3/8 - 2" following DIN EN 10255. Broadly applicable, portable hydraulic bending system for plumbing and heating tasks on construction sites, for apparatus and boiler construction, and for industrial use. Also appropriate for tube truing. Type ME also ideal for serial processing.

- Exact bending with the precision forms
- Works quicker with the 150 kN piston strength
- Maintenance-free hydraulic system
- Easy and simple operation
- Comfortable working position with the tripod stand (opt.)
- Deliverable with foldable and adjustable bending frame
- Closed, low-maintenance hydraulic system in monoblock design with quick and automatic piston return

**Type E:** with manual hydraulic pump  
**Type ME:** with 230 V electro-hydraulic pump



Type E with adjustable bending frame



Type E with folding bending frame



Type ME with adjustable bending frame



Type ME with folding bending frame



**Folding bending frame set consists of:** ROBULL, 2 pins for frame (No. 5.7979), 2 side forms (No. 5.8004), bending form standard 90° in 3/8" (No. 5.7985), 1/2" (No. 5.7986), 3/4" (No. 5.7987), 1" (No. 5.7988), 1.1/4" (No. 5.7989), 1.1/2" (No. 5.7990), 2" (No. 5.7991), hydraulic oil 1l (No. 5.8185), steel carrying case (No. 5.8206)  
**Adjustable bending frame set consists of:** ROBULL, 2 pins for frame (No. 5.7979), side forms (No. 5.7983), side form with degree gradation (No. 5.7982), bending forms standard 90° in 3/8" (No. 5.7985), 1/2" (No. 5.7986), 3/4" (No. 5.7987), 1" (No. 5.7988), 1.1/4" (No. 5.7989), 1.1/2" (No. 5.7990), 2" (No. 5.7991), hydraulic oil 1l (No. 5.8185), steel carrying case (No. 5.8206)

Description	kg	No.
ROBULL Type E with adjustable bending frame and accessories (see above)	59,8	<b>057966X</b>
ROBULL Type E with folding bending frame and accessories (see above)	72,6	<b>057961X</b>
ROBULL Type ME 230 V with adjustable bending frame and accessories (see above)	60,8	<b>057973X</b>
ROBULL Type ME 230 V with folding bending frame and accessories (see above)	73,7	<b>057972X</b>
Tripod stand		<b>58182</b>



### 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

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

**Suitable for pipes made of:**

**Copper (soft and semi-hard)** Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm

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

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

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



- 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

4



Expanding dimension and adjustment of capillary gap with the KSO fine adjustment screw



Long lever arms

Reduces effort required

Steel receptacle

Tough and wear-resistant

Extra long segments

Reliable pipe connection according to DVGW standards

Expanding

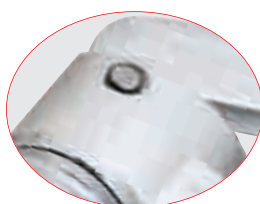
Up to 50% reduction in labour, soldering materials, joints and energy

High-performance, forged aluminium body

Light weight, optimal handling

Ergonomic handles

No slipping, no clamping



EPT®-Technology – concealed bent lever



Quality protection against wear with the **TiN sealed** pin drive Lifelong expanding precision

EPT®-Technology – Concealed knee lever



ROCAM® EXPANDER Power Torque sets include: ROCAM® EXPANDER Power Torque (No. 1.2000), with expander heads, internal and external deburrer (No. 1.1006), in a steel carrying case (No. 2.4022)



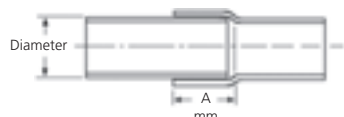
Description	g	g	g	No.
12 - 15 - 18 - 22 mm	2790	1	5	<b>12300</b>
12 - 15 - 18 - 22 - 28 mm	3180	1	5	<b>12303</b>
15 - 22 - 28 mm	2680	1	5	<b>12327</b>
12 - 14 - 16 - 18 - 22 mm	2910	1	5	<b>12309</b>
3/8 - 1/2 - 5/8 - 3/4"	3175	1	5	<b>12316</b>
1/2 - 5/8 - 7/8 - 1.1/8"	3050	1	5	<b>12324</b>
Special composition on request				

### Standard Expander Head

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

- 50% reduction in labour, soldering materials and soldered joints
- Uniform capillary gap by adjusting the KSO screw on the ROCAM® EXPANDER
- Tough and long lasting with the hardened segments

Fitting of tube ends



Also suitable for unequal tubes



Reduction also possible on continuous pipe

mm	Wall thickness max. inch				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

The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years

Enables re-calibration of irregular pipes and fittings

Step at the end of the segments

Guide guarantees a perfect centred position and uniform capillary gap

6 Rivets and guide channels



inch	Wall thickness max. inch				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

Special models for other tube diameters and related feasibility and availability on request

### 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

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

Suitable for pipes made of:

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

- 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

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

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

6 sizes on one tool

Expanding without changing tools



Fig. similar Special ratchet (No. 27181)

Scope of delivery: STEP Expander with handle, without special ratchet

### Tee-Extractor

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

- Uniform and proper material extraction without scratches or burrs

- Optimum force transmission with special trapezoidal screw thread
- 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



### Tee-Extractor Set\*\*

Set consists of: Tee-Extractor, special ratchet (No. 2.2081), cam pincer\* (No. 2.2080) and special drill UNIDRILL Automatic 42 (No. 2.1575), steel carrying case (No. 2.2121)

\* For tube Ø 12 mm and above

Model Ø	g	mm	inch	No.
10 - 12 - 14 - 16 - 18 - 22 mm	3780	1	5	<b>22111</b>
12 - 14 - 16 - 18 - 22 mm	3650	1	5	<b>22109</b>
12 - 15 - 18 - 22 mm	3430	1	5	<b>22100</b>
12 - 15 - 18 - 22 - 28 mm	3900	1	5	<b>22103</b>
12 - 15 - 22 - 28 mm	3680	1	5	<b>22101</b>
1/2 - 5/8 - 3/4 - 7/8"	3480	1	5	<b>22121</b>
1/2 - 5/8 - 7/8 - 1.1/8"	3740	1	5	<b>22124</b>
1/2 - 3/4 - 1"	3340	1	5	<b>22135</b>

### Tee-Extractor Ratchet

Chrome vanadium steel, fine toothed and right/left reversible

For tee sizes	Ratchet size	g	No.
10 - 42 mm, 3/8 - 1.3/4"	11 mm	435	<b>22081</b>
54 - 108 mm, 2 - 2.1/8"	3/4"	1140	<b>27181</b>
Unidrill Automatic 28	11 mm	110	<b>21583</b>
Unidrill Automatic 42	11 mm	430	<b>21575</b>
Extractor cam Pincer		170	<b>22080</b>

### Tee-Extractor; without ratchet\*\*

mm	mm	Drill Ø mm	Ratchet size mm/inch	g	No.
10	1,0	6	11	130	<b>22010</b>
12	1,0	7	11	150	<b>22012</b>
14	1,0	8	11	160	<b>22014</b>
15	1,0	8	11	160	<b>22015</b>
16	1,0	8	11	220	<b>22016</b>
18	2,0	10	11	220	<b>22018</b>
22	2,0	12	11	350	<b>22022</b>
28	2,5	15	11	470	<b>22028</b>
32	2,5	19	11	700	<b>22032</b>
35	2,5	22	11	700	<b>22035</b>
38	2,5	22	11	700	<b>22038</b>
40	2,5	24	11	890	<b>22040</b>
42	2,5	26	11	890	<b>22042</b>
54	2,5	30	3/4"	1380	<b>22054</b>

inch	mm	Drill Ø mm	Ratchet size mm/inch	g	No.
3/8"	1,0	6	11	110	<b>22060</b>
1/2"	1,0	7	11	140	<b>22061</b>
5/8"	1,0	8	11	220	<b>22016</b>
3/4"	2,0	10	11	220	<b>22062</b>
7/8"	2,0	12	11	350	<b>22063</b>
1"	2,5	14	11	470	<b>22064</b>
1.1/8"	2,5	15	11	480	<b>22065</b>
1.1/4"	2,5	19	11	700	<b>22066</b>
1.3/8"	2,5	22	11	700	<b>22035</b>
1.1/2"	2,5	22	11	700	<b>22038</b>
1.5/8"	2,5	26	11	900	<b>22068</b>
1.3/4"	2,5	26	11	900	<b>22069</b>
2"	2,5	30	3/4"	1380	<b>22050</b>
2.1/8"	2,5	30	3/4"	1380	<b>22054</b>

### Spare Extractor Hooks\*\*

mm	g	No.	mm/inch	g	No.
10	60	<b>22210</b>	35	290	<b>22235</b>
12	70	<b>22212</b>	38	290	<b>22268</b>
14	90	<b>22214</b>	42	320	<b>22242</b>
15	90	<b>22215</b>	54	560	<b>22254</b>
16	140	<b>22216</b>	3/8"	60	<b>22260</b>
18	140	<b>22218</b>	1/2"	70	<b>22261</b>
20	200	<b>22220</b>	5/8"	140	<b>22216</b>
22	210	<b>22222</b>	3/4"	140	<b>22263</b>
28	220	<b>22228</b>	7/8"	200	<b>22264</b>
			1"	210	<b>22265</b>



inch	g	No.	inch	g	No.
1.1/8"	220	<b>22266</b>	1.5/8"	320	<b>22270</b>
1.1/4"	270	<b>22267</b>	1.3/4"	360	<b>22244</b>
1.3/8"	290	<b>22235</b>	2"	520	<b>22246</b>
1.1/2"	290	<b>22268</b>	2.1/8"	560	<b>22254</b>

\*\* Remark: For the usage at copper pipes we recommend an extractor support



### 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 pipes Ø 6 - 18 mm and 1/4 - 3/4"

- Guaranteed norm flares\*
- Produces leak free joints
- One-handed quick clamping system
- **Automatic depth stop:** perfect positioning of the pipe to the flaring cone

\* Requirement for norm flare: Preparation of the pipe according to DIN EN 12735; patent pending

#### Adaptor attachment

For ratchet & electric drive

#### Spring-loaded spring clutch

Defined end of work prevents reduction of wall thickness and enables electric drive

#### Compact design

Enables use in confined spaces

#### Concentric flaring cone in needle bearings

Material-friendly forming of the pipe with minimum effort and highest flare quality

#### High-quality precision cast revolver die

Highest fitting accuracy with long service life

#### Self-centring with lock ring retainer

Quick and reliable adjustment

#### Innovative grip-design

Prevents pipe from slipping through

#### Excentric lever mechanism

Optimal power transmission

#### Clear identification

Simple and quick adjustment of the size

#### Box nuts

Simple retraction of the feed unit

Fig. High-quality precision cast revolver die



4



Set (1000000230) includes: ROFLARE REVOLVER metric, dies Ø 6, 8, 10, 12, 16 and 18 mm, pipe cutter ROTRAC 28 PLUS CHROM Limited Edition (1000000046), in blister pack

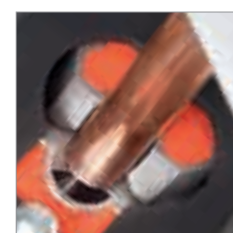
Set (1000000231) includes: ROFLARE REVOLVER imperial, dies Ø 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4", pipe cutter ROTRAC 28 PLUS CHROM Limited Edition (1000000046), in blister pack

Model	kg	No.
Metric, ø 6, 8, 10, 12, 16, 18 mm	1,5	1000000222
Imperial ø 1/4, 5/16, 3/8, 1/2, 5/8, 3/4"	1,5	1000000223
Set, metric with ROTRAC 28 PLUS	1,7	1000000230
Set, imperial with ROTRAC 28 PLUS	1,7	1000000231

Compact design enables use in confined spaces



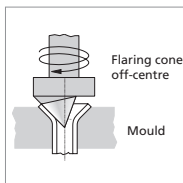
Automatic depth stop: Perfect positioning of the pipe to the flare cone





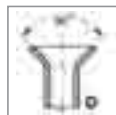
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No. 2224.03

High quality flares



### Reeling Flaring Tool

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



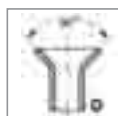
Reeling Flaring Tool set includes: Reeling Flaring Tool in plastic case with Mould in metric and/or imperial format

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"	<b>222401</b>
Set EB	1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"	<b>222402</b>
Set EB	6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm	<b>222403</b>

### Standard Flaring Tool

For producing 45° single flares for copper, KUNIFER, brass, aluminium and precision steel tubes up to 1 mm in wall thickness

- Ideal for mobile use for pipes in refrigeration, air conditioning and automobile (brakes) industries



### Flaring and Swaging Set

For producing flares from 1/8" to 3/4"

Expander heads from 3/16" to 3/4". Square ratchet wrench from 1/4" to 5/16". Essential for installation and maintenance work.



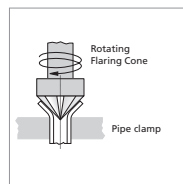
Description	No.
Flaring and Swaging Set	<b>223500</b>

### 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

Best flaring results



Universal Flaring Tool set (No. 2226.01) includes:  
Universal Flaring Tool for pipe diameters 4 - 16 mm, 3/16 - 5/8", in plastic case

Type	mm / inch	g	No.
SF*	4 - 4.75 - 6 - 8 - 10 - 12 - 14 mm	980	<b>26050</b>
SF*	3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8"	980	<b>26051</b>

Model	mm	Inch	g	No.
Set EB	4 - 16 mm	3/16 - 5/8"	900	<b>222601</b>

### ROMAX® Compact

Electro-hydraulic press machine, for battery and mains operation for the pressing of fittings up to Ø 40 mm (plastic/multi-layer) and/or up to Ø 28 mm (metal) with 19 kN with press rings up to Ø 35 mm

The ROMAX® Compact is extremely light, easy to hold and with it's compact design it is perfect for field use, especially in confined spaces

- Extremely light: only 2.6 kg
- Ergonomic thanks to the rubberised handle and balanced weight distribution
- For battery and mains operation
- Work-bench function
- Controlled press cycle
- Electric control with service counter and battery status indicator
- CFT®-Technology
- Safety lock
- Emergency stop switch



**Made in Germany**

<b>Dimension:</b>	400 x 70 x 90 mm
<b>Weight:</b>	ca. 2.6 kg (without press jaw)
<b>Piston force /-stroke:</b>	19 kN / 30 mm
<b>Nominal size:</b>	Ø 12 - 28 mm (metal) Ø 12 - 40 mm (plastic/multilayer)
<b>Press jaw fixture:</b>	270° rotation
<b>Power supply:</b>	Li-ion battery 14.4 V / 2.6 Ah Main adaptor 230V / 50 - 60 Hz Main adaptor 110 V on request
<b>Operating temperature:</b>	0° C up to +40° C
<b>Pressings:</b>	up to 140 with 28 mm stainless steel

#### Light weight and balanced weight distribution

Fatigue-free and ergonomic use even over long periods of time

#### LED display

Electronic battery charge indicator, electronic counting of the press cycles (display when service interval has been reached, further pressings are possible)

#### Powerful motor

Fast pressings in approx. 6 seconds

#### Bar form

Design enables use in installation shafts and by front-wall constructions

#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Rubberised handle

Secure hold even in wet conditions

#### Safety lock

No unintentional opening because a 180° rotation is necessary

#### CFT®- Technology (Constant Force-Technology) for a constant axial force of 19 kN

Constant pressing force for over 10,000 press cycles

#### Li-ion battery technology

Up to 100% more pressings\*

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston

\* compared to ROTHENBERGER NiMH batteries



Fig. ROMAX® Compact set SV

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



# Bonding

## Press Jaws / Interchangeable Press Jaws Compact

### Press Jaws Compact

#### For ROMAX® Compact

ROTHENBERGER Press Jaws with proven material and manufacturing quality for system dependant pressing of fittings up to Ø 40 mm (plastic / multi-layer) and / or up to 28 mm (metal)

#### Special hardening process

High degree of elastic force and expansion capability

#### 3-bolt synchronised mechanism

- Highest precision by 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



### Made in Germany

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

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

#### 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

Type	No.	Type	No.	Type	No.	Type	No.	Type	No.
M 15	015152X	TH 26	015391X	U 18	015353X	R 26	015376X	VP 16	015531X
M 18	015153X	TH 32	015393X	U 20	015154X	R 32	015377X	VP 20	015532X
M 22	015154X	TH 40	015401X	U 25	015355X	G 16	015362X	VP 25	015533X
M 28	015155X	SV 12	015261X	U 32	015357X	G 20	015364X	VP 32	015534X
TH 14	015395X	SV 15	015262X	U 40	015358X	G 26	015366X	RFz 16	015180X
TH 16	015385X	SV 18	015263X	R(H) 14	015370X	G 32	015367X	RFz 20	015181X
TH 18	015398X	SV 22	015264X	R(H) 16	015371X	G 40	015368X	RFz 25	015182X
TH 20	015389X	SV 28	015265X	R(H) 18	015379X	VP 14	015530X	RFz 32	015183X
TH 25	015399X	U 16	015352X	R(H) 20	015374X	VP 16	015531X		

More dimensions and contours on request

### Interchangeable Press Jaws Compact

#### For ROMAX® Compact

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for the attachment from interchangeable press jaws for system dependant pressing of plastic fittings Ø 16 - 32 mm

**Combine various interchangeable inserts with only one press jaw!**



Set Interchangeable inserts

#### 3-bolt synchronised mechanism

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

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour



### Made in Germany

#### Guiding ridge

Safe admittance from inter-changeable press jaws

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

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

#### Special hardening process

High degree of elastic force and expansion capability

#### Long-term Corrosion protection

Optimum for heavy-duty field operation

Model	Description	No.	Model	Description	No.
Interchangeable inserts set RFz*	16 - 20 - 25 - 32 mm	14849	Interchangeable press jaws + set CO	12 - 16 - 20 mm	15093
Interchangeable inserts set U*	16 - 20 - 25 - 32 mm	14869	Interchangeable press jaws + set RFz	12 - 16 - 20 mm	15094
Interchangeable inserts set VP*	16 - 20 - 25 - 32 mm	14879	Interchangeable inserts set TH*	16 - 20 - 26 - 32 mm	14895

\*Can only be used with interchangeable pressing jaw No. 014800X!

### ROMAX® 3000

**Electro-hydraulic press machine for battery and mains operation for the system dependant pressing of fittings up to Ø110 mm\* with 32 - 34 kN**

The ROMAX® 3000 is fast, light, handy and safe. It is ideally suited for use at the building site

- **Fast**  
A pressing cycle only last approx. 5 seconds. The piston retracts automatically after every finished pressing
- **Safe**  
CFT® guarantees the necessary pressing force. The automatic controlled press cycles ensures that the piston retracts to the starting position after the necessary pressing force has been reached
- **Light**  
The extremely low weight, as well as the balanced weight distribution, ensure fatigue-free use even in continuous use

\*system dependant



**Made in Germany**

**Dimensions:** 445 x 125 x 75 mm  
**Weight:** approx. 3.6 kg (without press jaws)  
**Piston force/stroke:** 32 kN / 40 mm  
**Nominal size:** Ø 12 - 110 mm (system dependant)  
**Press jaw fixture:** 270° rotation  
**Power supply:** Li-ion battery 18 V / 3 Ah  
 Main adaptor 230 V, 50 - 60 Hz,  
 Main adaptor 110 V on request  
**Operating temperature:** -10° C up to +60° C  
**Pressings:** Up to 160 with 28 mm stainless steel  
 Up to 90 with 54 mm stainless steel

4



#### Rubberised handle

Secure hold even in wet conditions

#### Bar form

Design allows use in installation shafts and by front-wall constructions

#### LED display

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



#### 2-step switch

Light pressure activates the LED, when pressed through the pressing cycle begins

#### Safety lock

No unintentional opening because a 180° rotation is required

#### Light weight and balanced weight distribution

Fatigue-free and ergonomic use even over long periods of time

#### Press jaw fixture can be rotated 270°

For easy operation even in confined spaces

#### Powerful motor

Fast pressings in approx. 5 seconds

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston



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

Constant pressing force over 20,000 press cycles



Fig. ROMAX® 3000 set with press jaws

Model	Description	Press jaws mm		kg	No.
ROMAX® 3000 Set Basic I	in plastic carrying case with Li-ion battery and charger	(without press jaws)	1	9.8	<b>15800</b>
ROMAX® 3000 Set Basic II	in plastic carrying case with power supply 230 V	(without press jaws)	1	9.7	<b>15801</b>
ROMAX® 3000 Set SV	with press jaws type SV (Viega, et al.), with Li-ion battery	15 - 22 - 28	1	14.5	<b>15840</b>
ROMAX® 3000 Set TH	with press jaws type TH (Henco, et al.), with Li-ion battery	16 - 20 - 26	1	14.5	<b>15845</b>
ROMAX® 3000 Set U	with press jaws type U (UNICOR, et al.), with Li-ion battery	16 - 20 - 25	1	14.5	<b>15850</b>
ROMAX® 3000 Set M	with press jaws type M (Mapress, et al.), with Li-ion battery	15 - 22 - 28	1	14.5	<b>15855</b>

# Bonding

## Press Machines Standard / Press Jaws Standard

### ROMAX® AC ECO

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

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

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

\*system dependant



Made in Germany

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

#### 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

#### Two-switches within easy reach

Various holding positions possible. The controlled press cycle begins after pushing the hold-to-run control

#### Balanced weight distribution

Ergonomic use

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

Constant axial pressing force over 10,000 press cycles



Fig. ROMAX® AC ECO set with press jaws

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



## Pressing Collars Standard

### Press Jaws Standard

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

ROTHENBERGER Press Jaws with proven material and manufacturing quality, for system conforming pressing of fittings up to Ø 40 mm (plastic) and/or up to Ø 54 mm (metal)

#### 3-bolt synchronised mechanism

- Highest precision by 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



### Made in Germany

Made of forged, highly resilient special steel

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

#### Permanent bolt

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

#### Long-term Corrosion protection

Optimum for heavy-duty field operation

Type	No.	Type	No.	Type	No.	Type	No.	Type	No.
M 15	015102X	TH 20	015324X	SV 35	015216X	U 50	015319X	G 32	015307X
M 18	015103X	TH 25	015325X	SV 42	015217X	R(H) 14	015330X	G 40	015308X
M 22	015104X	TH 26	015326X	SV 54	015218X	R(H) 16	015331X	VP 14	015230X
M 28	015105X	TH 32	015327X	U 16	015312X	R(H) 18	015334X	VP 16	015231X
M 35	015106X	TH 40	015328X	U 18	015313X	R(H) 20	015335X	VP 20	015232X
M 42 (4G*)	015107X	SV 12	015211X	U 20	015314X	R(H) 26	015336X	VP 25	015233X
M 54 (4G*)	015108X	SV 15	015212X	U 25	015315X	R(H) 32	015337X	VP 32	015234X
TH 14	015321X	SV 18	015213X	U 26 (RC 26)	015271X	G 16	015302X	RFz 16	015161X
TH 16	015322X	SV 22	015214X	U 32	015317X	G 20	015304X	RFz 20	015162X
TH 18	015323X	SV 28	015215X	U 40	015318X	G 26	015306X	RFz 25	015163X
								RFz 32	015164X

(\* four segments)

More dimensions and contours on request

### Pressing Collars Standard

For ROMAX® 3000, ROMAX® PRESSLINER ECO, ROMAX® AC ECO

Still suitable for press machines with a constant, axial pressing force of 32 - 34 kN and the appropriate compatible press jaw fixture. For the system conforming pressing of fittings from 42 mm up to 54 mm (metal) and/or from 40 mm up to 110 mm (multi-layer)

Using the pressing collar



Gripping the pressing collar with intermediate jaws



#### Limited weight

Power-saving work for any length of time

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

#### Long-term corrosion protection

Optimum for heavy-duty field operation

#### Special hardening process

High degree of elastic force and expansion capability



Fig. Pressing collar M54



Fig. Intermediate jaw ZBS1

### Made in Germany

#### 2-joint technology

Simplifies use even in tight or over-head situations

#### Precision-manufactured contours

For optimum and reliable pressings

#### Special hardening process

High degree of elastic force and expansion capability

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

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

#### 3-bolt synchronised mechanism

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

Pressing collar sets include: Pressing collars according to the table, intermediate jaws ZBS1 (No. 1000000104), plastic carrying case (No. 1500000211)

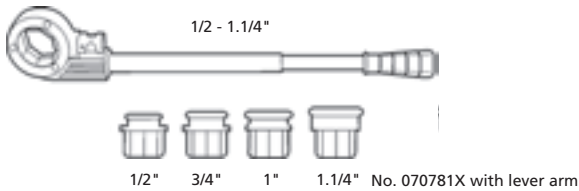
Model	Description	No.
Pressing collar set SV in plastic carrying case	press jaw ZBS1 / SV42 - 54	1000000107
Pressing collar set M in plastic carrying case	press jaw ZBS1 / M42 - 54	1000000110
Pressing collar set TH in plastic carrying case	press jaw ZBS1 / TH40 - 50	1000000116

# Bonding

## Threading Manual

### SUPER CUT – Sets Ø 3/8 - 1.1/4"

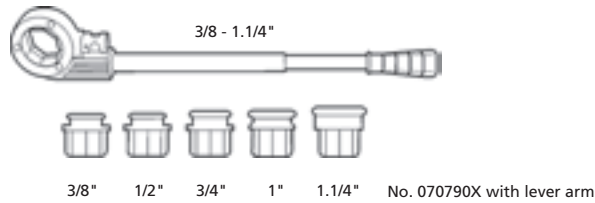
With ratchet handle (small, octagonal drive No. 070840X), die heads in plastic carrying case



Size	kg	No. BSPT R	No. NPT
1/2" - 3/4" - 1" - 1.1/4"	5.1	070781X	070901X
3/8" - 1/2" - 3/4" - 1"	4.0	070782X	

### SUPER CUT – Sets Ø 3/8 - 1.1/4"

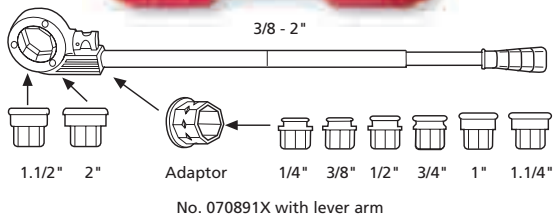
With ratchet handle (small octagonal drive, No. 070840X), and die heads in plastic carrying case



Size	kg	No. BSPT R	No. NPT
3/8" - 1/2" - 3/4" - 1"	5.4	070793X	
3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	070790X	
1/2" - 3/4" - 1"	4.2	070780X	070903X

### 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



Size	kg	No. BSPT R	No. NPT
3/8" - 1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	11.4	070891X	070904X
1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	10.8	070892X	070905X
1" - 1.1/4" - 1.1/2" - 2"	9.6	070894X	

### SANI KIT

Tool set in sturdy plastic carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing



- Light and easy to use, always within reach
- Secure guiding of the cutter wheel on the pipe

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

Description	kg	No.
SANI KIT Tool set	8.2	70600

### 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



Size	No. BSPT R	No. NPT
1/4 "	<b>070821X</b>	<b>070907X</b>
3/8 "	<b>070822X</b>	<b>070908X</b>
1/2 "	<b>070823X</b>	<b>070912X</b>
3/4 "	<b>070824X</b>	<b>070913X</b>

Size	No. BSPT R	No. NPT
1 "	<b>070825X</b>	<b>070914X</b>
1.1/4 "	<b>070826X</b>	<b>070915X</b>
1.1/2 "	<b>070842X</b>	<b>070849X</b>
2 "	<b>070843X</b>	<b>070850X</b>

### Precision Threading Dies

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



Size	No. BSPT R	No. NPT
1/4 "	<b>070831X</b>	<b>070916X</b>
3/8 "	<b>070832X</b>	<b>070917X</b>
1/2 "	<b>070833X</b>	<b>070918X</b>
3/4 "	<b>070834X</b>	<b>070919X</b>

Size	No. BSPT R	No. NPT
1 "	<b>070835X</b>	<b>070920X</b>
1.1/4 "	<b>070836X</b>	<b>070921X</b>
1.1/2 "	<b>070869X</b>	<b>070945X</b>
2 "	<b>070870X</b>	<b>070946X</b>

### 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-piece	1.7	<b>070840X</b>
1.1/2 " - 2" (no fig.)	1/4 " - 1.1/4 "	3-piece	2.5	<b>71272</b>



### Monoblock Adaptor

For SUPER CUT ratchet handle (No. 71272) to fit die heads 1/4 - 1.1/4 "

Direct seating for die heads	kg	No.
1/4 " - 3/8 " - 1/2 " - 3/4 " - 1 " - 1.1/4 "	0.3	<b>71273</b>



### ROFIX Adaptor

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

- Easy insertion of the die head with tension ring locking

Description	kg	No.
ROFIX Adaptor with locking ring	0.83	<b>71271</b>





# Bonding

## Threading Electric

### SUPERTRONIC® 1250

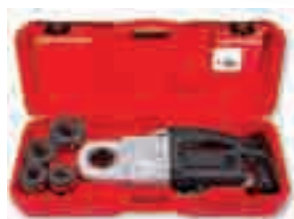
Power threader Ø 1/4 - 1.1/4"

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



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

<b>BSPT right:</b>	Ø 1/2 - 1.1/4"
<b>Optional:</b> (not included in set)	Ø 1/4", 3/8"
<b>NPT:</b>	Ø 1/4 - 1.1/4"
<b>Threading speed:</b>	15 - 20 min <sup>-1</sup>
<b>Rapid reverse speed:</b>	27 min <sup>-1</sup>
<b>Performance:</b>	800 Watt
<b>Current:</b>	230 V/110 V
<b>Threading speed:</b>	34 min <sup>-1</sup>
<b>Weight:</b>	4.9 kg
<b>Dimensions:</b>	456 x 168 x 76 mm



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	1/2 - 1.1/4" NPT	13.0	1	71454	71455
SUPERTRONIC® 1250	without die heads	3.9	1	71470	
Pipe clamp for SUPERTRONIC® 1250	up to max. 1.1/4"	1.6	1	71279	71279

### SUPERTRONIC® 2000

Power threader Ø 1/4 - 2"

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



- 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

<b>BSPT right, BSPT left:</b>	Ø 1/4 - 2"
<b>NPT:</b>	Ø 1/4 - 2"

**High reduction gears with spur wheel teeth**, induction tempered, 7 parallel gear shafts, each ball bearing mounted

**High, consistent power transmission** when fully loaded

#### Performance:

Strong 1010 W motor, double insulated with VDE and CEE, interference free for reliable long-term use

#### Threading speed:

15 - 25 min<sup>-1</sup>, rapid reverse 60 min<sup>-1</sup>  
(4 x faster reverse with reverse drive)

**Maintenance friendly** with continuous lubrication



Description	Model	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	without die heads	6.8	1	71250	
SUPERTRONIC® 2000 Set, NPT	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2" US-plug	14.5	1		864273216

### 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. Use on building sites, for repairs and service, industrial use and for installation work

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



<b>BSPT right:</b>	Ø 1/4 - 2"
<b>NPT:</b>	Ø 1/4 - 2"
<b>BSPP:</b>	Ø 1/2 - 2"
<b>BSW:</b>	Ø 3/8 - 2"
<b>Metric:</b>	Ø 10 - 24 mm
<b>Performance:</b>	1,150 Watt
<b>Speed:</b>	40 m <sup>-1</sup>
<b>Weight:</b>	68 kg
<b>Dimensions (L x W x H):</b>	535 x 430 x 340 mm

4



#### Pre- and post-processing of pipe

##### Self-centering pipe cutter

Precise cuts

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

Burr-free work

##### Impact hammer chuck with maximal clamping-force

No pipe slippage

##### Self-centering rear chuck

Quick and precise alignment of the pipe

#### Easy to maintain machine design

##### Motor double insulated in accordance with VDE and CE

Safe operation

##### Stable high torque motor

Constant power transferral

##### Off-set spindle lubrication

Easy maintenance

Original RIDGID<sup>1)</sup> threading dies can optionally be used!



Automatic die head with integrated oil supply



High mobility



Thread roughing



Cost-effective production of grooves



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

Model	Volt		kg	No.
ROPOWER® 50 R with automatic die head and collapsible stand:				
BSPT R 1/2 - 3/4", 1-2"	230 V	1	88.5	<b>56050</b>
BSPT R 1/2 - 3/4", 1-2"	110 V	1	68.5	<b>56045</b>
BSPP R 1/2 - 3/4", 1-2"	230 V	1	88.5	<b>56057</b>
NPT 1/2 - 3/4", 1 - 2", US-plug	110 V	1	88.5	<b>63005</b>
Collapsible stand ROPOWER® 50 R		1	19.2	<b>56051</b>

# Bonding

## 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)



**Motor strength:** 1,150 Watt  
**Speed:** 40 m<sup>-1</sup>  
**Weight, with die heads:** 68 kg  
**Dimensions (L x W x H):** 535 x 430 x 340 mm

Scope of delivery: SUPERTRONIC 2 SE, automatic die head 1/2 - 2" (No. 56165) or automatic die head (No. 56266), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), safety foot switch (No. 56335), supporting legs (No. 56490), tool

SUPERTRONIC® 2 SE	kg	230 V	110 V
with Standard Die Head	68	<b>56150</b>	<b>56120</b>
BSPT R 1/2 - 3/4", 1 - 2"			
with Automatic Die Head	68	<b>56175</b>	<b>56125</b>
BSPT R 1/2 - 3/4", 1 - 2"			
Deburrer without holder 2 SE		<b>56198</b>	<b>56198</b>
Supporting legs (contains 4 pieces)		<b>56490</b>	<b>56490</b>

### 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)



**Motor strength:** 1,700 Watt  
**Speed:** 33 m<sup>-1</sup>  
**Weight, with die heads:** 100 kg  
**Dimensions (L x W x H):** 650 x 480 x 420 mm

Scope of delivery: SUPERTRONIC 3 SE, standard die heads 1/2 - 2" (No. 56156) or automatic die heads (56266), standard die head 2 - 3" (No. 56104) or automatic die head 2 1/2 - 3" (56288), SS threading dies 1/2 - 3/4" (No. 56003), 1 - 2" (No. 56007), SS threading dies 2 - 3" (No. 56006), SS threading dies 2 1/2 - 3" (No. 56291), safety foot switch (No. 56335), supporting legs (No. 56491), tool

SUPERTRONIC® 3 SE	kg	230 V	110 V
with Standard Die Head	100	<b>56250</b>	<b>56253</b>
BSPT R 1/2 - 3/4", 1 - 2", 2 - 3"			
with Automatic Die Head	100	<b>56255</b>	<b>56254</b>
BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 3"			
Deburrer without holder 3 SE		<b>56199</b>	<b>56199</b>
Transportwagon	25	<b>57050</b>	

### SUPERTRONIC® 4 SE

#### Compact threader Ø 1/2 - 4"

SUPERTRONIC® 4 SE with Automatic Die Head



Lever  
Various adjustable speeds



**Motor strength:** 1,750 Watt  
**Speed:** 22 / 50 m<sup>-1</sup>  
**Weight, with die heads:** 120 kg  
**Dimensions (L x W x H):** 750 x 540 x 480 mm

Scope of delivery: SUPERTRONIC 4 SE, BSPT automatic die head 1/2 - 2" (No. 56266), BSPT automatic die head 2 1/2 - 4" (No. 56289), SS threading dies 1/2 - 3/4" (No. 56003), SS threading dies 1 - 2" (No. 56007), SS threading dies 2 1/2 - 4" (No. 56294), safety foot switch (No. 56335), supporting legs (No. 56491), tool,

SUPERTRONIC® 4 SE	kg	230 V	110 V
with Automatic Die Head	120	<b>56465</b>	<b>56475</b>
BSPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4"			
with NPT Die Head US-plug	120		<b>63006</b>
NPT R 1/2 - 3/4", 1 - 2", 2.1/2 - 4"			
Deburrer Blade 4 SE		<b>56200</b>	<b>56200</b>
Transportwagon	25	<b>57050</b>	



### Transport Trolley

For compact threading machines  
**SUPERTRONIC® 3 SE and 4 SE**

- Both compact threading machines 3 SE and 4 SE fit on the new transport trolley
- Simple alignment of the machines with the adjustable pins
- The bended frame ensures better stability than a welded frame
- Robust paint-finish



Model	No.
Transport trolley for SUPERTRONIC® 3 SE, 4 SE	<b>57050</b>

### NIPPLE MAX

**NIPPLE MAX Ø 1/2 - 2"**

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

- Recycling pipe scraps saves money, material and time
- Automatic quick grip of the pipe piece without the need for additional tools



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

Model	kg	No.
<b>NIPPLE MAX Set</b>		
1/2 - 3/4 - 1 - 1 1/4 - 1 1/2"	4.4	<b>56056</b>
Nipple chuck 1/2"	0.4	<b>56060</b>
Nipple chuck 3/4"	0.5	<b>56061</b>
Nipple chuck 1"	0.7	<b>56062</b>
Nipple chuck 1 1/4"	0.8	<b>56063</b>
Nipple chuck 1 1/2"	0.9	<b>56064</b>
Nipple chuck 2"	1.2	<b>56065</b>

### RONOL®

**High-performance cutting oil**

- Excellent cooling and lubricating properties
- For perfect, clean threads

*Screw-cutting oils on a mineral oil base are not authorised for drinking water installations.  
Please observe existing national regulations in this respect!*



Model	Contents	kg		No.
RONOL® Spray can	600 ml	0.75	12	<b>65008</b>
RONOL® Canister	5 l	5.20	4	<b>65010</b>

### RONOL® SYN

**High-performance cutting fluid**

- Excellent cooling and lubricating properties
- No mineral oils, purely synthetic: Developed and approved for drinking water and plumbing installations. DVGW tested (Reg. No. S 021)
- 100% water soluble, physiologically neutral, silicone-free: easily washable



Description	kg		No.
RONOL® SYN, 600 ml-spray can	0,75	12	<b>65013</b>
RONOL® SYN, 5 l-canister	5,20	4	<b>65015</b>

### Pipe Supporting Column

Adjustable height, from 780 up to 1,200 mm with ball track



Model	Height / mm	kg	No.
For pipes up to 6"	780 - 1,200	2.5	<b>56047</b>

### Pipe Roughing Wrench 3/8 - 2"

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



Model	L mm	kg	No.
Pipe Roughing Wrench	335	1.15	<b>56500</b>
Replacement roughing rolls (3 pc.)		0.30	<b>56501</b>

### Overview Die Heads / Threading Dies

Die heads			Threading dies			ROPOWER® 50 R	SUPERTRIONIC® 2 SE	SUPERTRIONIC® 3 SE	SUPERTRIONIC® 4 SE
Thread type	Size	No.	Size	No. SS-Steel	No. HSS-Steel stainl. steel/ Inox pipe				

#### Automatic die heads suitable for RIDGID<sup>1)</sup> threading dies

BSPT R	1/4 - 2"	56052	1/4-3/8"	56369	56379	●			
			1/2-3/4"	056370X	56380	●			
			1-2"	056371X	56381	●			

NPT	1/4 - 2"	56053	1/4-3/8"	56372	N/A	●			
			1/2-3/4"	56373	N/A	●			
			1-2"	56374	N/A	●			

#### Automatic die heads suitable for ROTHENBERGER threading dies

BSPT R	1/2-2"	56266	1/2-3/4"	56003	56235		●	●	●
			1-2"	56007	56236		●	●	●
	2.1/2-3"	56288	2.1/2 - 3"	56291	56237			●	●
	2.1/2-4"	56289	2.1/2 - 4"	56294	56238				●

NPT	1/2-2"	56271	1/2-3/4"	56111	56180		●	●	●
			1-2"	56112	56181		●	●	●
	2.1/2-3"	56268	2.1/2-3"	56295	56183			●	●
	2.1/2-4"	56269	2.1/2-4"	56296	56184				●

#### ROTHENBERGER standard / manual die heads

BSPT R	1/4-3/8"	56153	1/4-3/8"	56001	56135	●	●	●	●
	1/2-2"	56156	1/2-3/4"	56003	56235	●	●	●	●
			1-2"	56007	56236	●	●	●	●
	2-3"	56104	2-3"	56006	56121			●	●
	3.1/2-4"	56032	3.1/2-4"	56008	56122				●

NPT	1/4-3/8"	56118	1/4-3/8"	56110	N/A	●	●	●	●
	1/2-2"	56156	1/2-3/4"	56111	56180	●	●	●	●
			1-2"	56112	56181	●	●	●	●
	2.1/2-3"	56104	2.1/2-3"	56114	N/A			●	●

BSPP	1/2-1.1/4"	56076	1/2-3/4"	56095	N/A	●	●	●	●
			1-1.1/4"	56096	N/A	●	●	●	●
	1.1/2-3"	56077	1.1/2-2"	56097	N/A			●	●
			2.1/2-3"	56098	N/A			●	●

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

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

#### ROTHENBERGER die heads and threading dies for plastic coated pipes

BSPT R	1/2-2"	56266	1/2-3/4"	56002	N/A		●	●	●
			1-2"	56005	N/A		●	●	●
	1/2-2"	56156	1/2-3/4"	56002	N/A	●	●	●	●
			1-2"	56005	N/A	●	●	●	●

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

N/A: not available

### ROGROOVER 6"

**Portable rolling groover for steel pipes up to Ø 6" (150 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. **Standard and thin-walled steel pipes up to 6" (150 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

**Extremely light: 12 kg!**

- 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

**Allen key mount**  
Always within reach

**Spacer for standard groove depths**  
Adjustable and finely-controlled arrester for consistent groove depth

**Aluminium casing**  
Easy to transport with the light weight



**Ratchet drive R/L for precise adjustment of the groove according to approved standards**

Convenient, easy and time-saving operation

**Easy assembly/dismantling of the case hardened and knurled pressure and drive rollers**

Long life and little wear, as well as rapid change-over for different machines

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

### ROGROOVER 2 - 12"

**Electro-hydraulic rolling groover for steel pipes Ø 2-12" (60-325 mm) for rolling of grooves on thin-walled and standard steel pipes**

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

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

**Working range:** 2 - 12" (60 - 325 mm)  
**Pipe wall-thickness:** 3 - 10 mm  
**Weight:** 129 kg  
**Dimensions:** 920 x 460 x 960 mm  
**Current:** 230 / 240 V, 50 / 60 Hz  
**Power:** 1,100 W  
**Speed:** 23 U/min.  
**Max. working pressure:** 8,000 kg

**Fine adjustment of the groove depth and regulation**

For optimum results

**Pressure valve**

Quick application modifications

**Stabilizer for large pipes**

No slipping of the pipe



**Compact and very stable machine design**

Safe operation

Model	kg		No.
ROGROOVER 2 - 12"	129.0	1	<b>100000087</b>
Roll Groove set 2 - 6"	1.5	1	<b>1500000130</b>
Roll Groove set 3 - 6"	2.2	1	<b>1500000131</b>
Roll Groove set 8 - 12"	2.4	1	<b>1500000132</b>
Pipe support stand	29.0	1	<b>1500000133</b>
Diameter measuring tape	0.05	1	<b>1500000134</b>








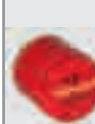




















# Bonding

## Application Overview Soldering & Welding

### Application Table

Product listing according to application areas

CARTRIDGE SOLDERING UNITS						
	<b>SUPER FIRE 3</b>					
		 	 			
		Ø 35 Ø 28	Ø 35 Ø 28			
	<b>POWER FIRE COMPACT</b>	 				
		Ø 28 Ø 22				
	<b>ROFIRE Swivel Pro</b>	 	 			
		Ø 42 Ø 18 Ø 64 Ø 28	Ø 42 Ø 18 Ø 64 Ø 28			
	<b>ROFLAME / ROFLAME PIEZO</b>					
						Ø 22
	<b>ROFIRE® PIEZO / ROFIRE® / EASYFIRE</b>			 	 	
				Ø 22 Ø 15	Ø 22 Ø 15	

Soft soldering  
up to 450°C













Brazing, etc.  
450°C - 1100°C



Gas  
Welding  
> 1100°C



### ACETYLENE AND PROPANE TORCHES

	<b>AIRAC®</b>		
		 	
		Ø 54 Ø 35	
	<b>AIRPROP® / TURBOPROP</b>		 
			Ø 54 Ø 28 TURBOPROP Ø 54 Ø 22 AIRPROP®
	<b>ROOFING-Set</b>		

Soft soldering  
up to 450°C





Brazing, etc.  
450°C - 1100°C



Gas  
Welding  
> 1100°C



### GAS-WELDING EQUIPMENT

	<b>ROXY 400 L / ALLGAS Mobile Pro</b>	
		  
		Cutting 0,5-2 mm

### ELECTRIC SOFT SOLDERING UNIT

	<b>ROTHERM 2000</b>	230 V 50/60 Hz
		
		Ø 54

The bottle colours shown are without obligation!

## Cartridge Hard Soldering

### SUPER FIRE 3

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

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

**Brazing:** up to Ø 28 mm (with flame reflector in a wind protected environment)

- Versatile - for use in all positions (360°)
- Rapid heat-up, less consumption!
- Long service life
- "Twist 'N' Load" system (5 different nozzles available)
- Precise flame adjustment
- Up to 2.5 hours of brazing with one cartridge



**Coupling:** 7/16" EU  
**Handle:** Aluminium, bolted  
**Burner:** Brass / stainless steel  
**"Twist 'N' Load":** 5 different nozzles for different applications

#### "Twist 'N' Load"!

##### Fast "Twist 'N' Load" system

Exchange of the nozzle with one movement (5 different nozzles available)

##### Fine regulating valve

Precise flame adjustment

##### Ergonomically designed handle made of high-quality aluminium

Robust and optimum handling

##### Nozzle with swirl flame

Rapid heat-up, less consumption!

##### Elaborately manufactured brass / stainless steel design

Long service life

##### Only ignites if torch has been securely locked

Dual safety

##### High Performance Piezo

Reliable (up to 30,000 ignitions)

##### Locking button

Continual use

Can be used in any position (360°)!

### SUPER FIRE 3 Nozzles

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

##### Pin-point Nozzle (460 °C):

For fine soldering; precise and stable flame

(No. 35455)

##### Standard Nozzle (700 °C):

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

(No. 35456)

##### Cyclone Nozzle (950 °C):

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

(No. 35457)

##### Hot air Nozzle (400 °C):

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

(No. 35458)

##### Shrinking Nozzle (720 °C):

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

(No. 35459)

### SUPER FIRE 3 HOT BOX

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



5 part set (No. 035490U) includes: handle (No. 35445), cyclone nozzle (No. 35457), pin-point nozzle (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), carrying case

Model			No.
SUPER FIRE 3 HOT BOX EU	1	4	35490
SUPER FIRE 3 HOT BOX US (without MAPP <sup>®</sup> gas)	1	4	035490U

# Bonding

## Cartridge Hard Soldering

### SUPER FIRE 3 Basic Set

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



No. 035648X

### SUPER FIRE 3 MAPP®<sup>1)</sup> Set

Set (No. 35432) includes:  
handle (No. 35445), cyclone nozzle (No. 35457),  
MAPP®<sup>1)</sup> gas cartridge (No. 035551-A)

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



No. 35436



No. 35432

Model			No.
SUPER FIRE 3 Basic Set EU	1	4	<b>35436</b>
SUPER FIRE 3 MAPP® <sup>1)</sup> Set EU	1	10	<b>35432</b>
SUPER FIRE 3 MAPP® <sup>1)</sup> Set US	1	10	<b>35431</b>
SUPER FIRE safety adaptor 7/16" to 1"	1	1	<b>035648X</b>

### POWER FIRE Compact

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

- With Piezo ignition button
- For use in all positions (MAPP®<sup>1)</sup> Gas)
- Compact and 45% lighter (compared to POWER FIRE)

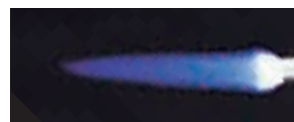
No. 35436



**Coupling:** 1" US  
7/16" EU

**Brazing:** up to Ø 22 mm

**Soft soldering:** up to Ø 28 mm



No. 35424

Model	No.
POWER FIRE Compact set (torch, MAPP® <sup>1)</sup> Gas) EU	<b>30813</b>
POWER FIRE Compact set (without MAPP® <sup>1)</sup> Gas) EU	<b>35424</b>
POWER FIRE Compact set (torch, MAPP® <sup>1)</sup> Gas) US	<b>254800016</b>

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



## Cartridge Hard / Soft Soldering

### ROFIRE Swivel PRO Piezo Cyclone

Cyclone burner with Piezo ignition

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



Model	No.
ROFIRE SWIVEL PRO Cyclone Piezo EU	35015
ROFIRE SWIVEL PRO Cyclone Piezo US	35016

### ROFIRE Swivel PRO Cyclone

Cyclone burner

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



Model	No.
ROFIRE SWIVEL PRO Cyclone EU	35013
ROFIRE SWIVEL PRO Cyclone US	35014

### ROFIRE Swivel PRO Twin

Twin cyclone burner

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



Model	No.
ROFIRE SWIVEL PRO Twin EU	35011
ROFIRE SWIVEL PRO Twin US	35012

### MULTI MOBILE Set

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

- 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!**

**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

#### Replaceable copper pieces

2 screw-on copper pieces for many applications



**Fine regulator valve with shut-off function**

Precise adjustment of the protected flame

**Integrated support rack**

Safe placement of the soldering device



Fig. MULTI MOBILE Set

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

# Bonding

## Cartridge Soft Soldering

### ROFLAME / ROFLAME PIEZO

CLASSIC soft soldering unit Ø 22 mm



**Coupling:** pierceable  
**Soft soldering:** up to Ø 22 mm



#### ROFLAME / ROFLAME PIEZO

- High-performance torch with stable, ergonomic handle, and fine flame adjustment
- Comfortable one-handed use and secure storage surface
- Precise adjustment of the flame
- Exchangeable torch nozzles in case of repair is needed

#### ROFLAME PIEZO

- Piezo Ignition

Model	g	No.
ROFLAME	760	35930
ROFLAME PIEZO	870	35419

4



No.35930



No.35419

### ROFIRE® / ROFIRE® PIEZO

CLASSIC soft soldering unit Ø 22 mm

Powerful soldering unit for CU-brazing joints up to Ø 15 mm and soft soldering up to Ø 22 mm



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



#### ROFIRE® / ROFIRE® PIEZO

- Precise adjustment of the flame
- Torch head with integrated support bracket
- Exchangeable torch nozzles in case of repair is needed

#### ROFIRE® PIEZO

- Piezo Ignition

Model	g	No.
ROFIRE® set (torch, Multigas 300)	760	35428
ROFIRE® PIEZO set (torch, Multigas 300)	760	35429



### EASY FIRE

ECONOMY soft soldering up to Ø 22 mm

High performance torch with Piezo ignition



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



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

Model	g	No.
EASY FIRE set (torch, Multigas 300)	730	35553
EASY FIRE torch without gas	260	35552



## Cartridge Hard / Soft Soldering

### Maxigas 400

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



### Multigas 300

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



Model	Maxigas 400
No.	035570-A/-B
EAN Code	4004625355701
Product size (mm) (W x H)	65 x 260
Contents (ml)	600
Weight (g)	352
Unit per PU	24
PU per layer / palette	9
Layer per palette	3
Units per palette	648
Number of palettes per truckload	60
Units per truckload	38.880
Palette weight (kg)	195
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	405 x 272 x 264

Model	Multigas 300
No.	035510-A/-B
EAN Code	4004625355107
Product size (mm) (W x H)	65 x 260
Contents (ml)	600
Weight (g)	338
Unit per PU	24
PU per layer / palette	9
Layer per palette	3
Units per palette	648
Number of palettes per truckload	60
Units per truckload	38.880
Palette weight (kg)	191
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	405 x 272 x 264

### MAPP®<sup>1)</sup> Gas

Special gas mix for high-performance soldering work

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

- Extremely high flame temperature, utmost burning performance and guaranteed short working times
- Guaranteed constant top torch performance
- Easy to use
- Increased user safety through the sandwich valves and aluminium mono-block cylinder
- Longer periods of use



#### MAPP®<sup>1)</sup> Gas

Special gas mixture researched by ROTHENBERGER

Model	Contents		No.
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360	035551-A
Languages: D, GB, F, E, I, P			
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360	035551-B
Languages: DK, NL, SE, FI, FR, RU			
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360	035551-C
Languages: CZ, PL, HU, BG, TR, GR			

### MAP//Pro

Brazing and soldering gas

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

- Extremely high flame temperature, utmost burning performance and guaranteed short working times
- Guaranteed constant top torch performance
- Easy to use
- Increased user safety through the sandwich valves and aluminium mono-block cylinder
- Longer periods of use



Model	Contents		No.
MAP//PRO	750 ml	12 / 360	35557

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



# 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

- 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



**Self-induced air:**

**Torch:**

**Hose coupling:**

Turbine and combustion chamber

Surface treated,  
chromed brass

G 3/8" L

#### Built-in gas turbine in brazing torch

Bundled, concentrated and hot flame

#### Fine regulating valve

Precise flame adjustment

#### Optimised valve technology

Absolutely gas tight

#### Shut-off valve

Prevents uncontrolled  
gas consumption

#### Smooth-turning economy valve

Gas-saving operation

**Absolutely gas-tight connection  
thanks to dual O-ring technology**

Fast burner exchange without tools

Sets include: Safety handle with push-in coupling (No. 31009), brazing torch with push-in nipple Ø 14 mm (No. 31013) / Ø 16 mm (No. 31014) / Ø 19 mm (No. 31015), 2.5 m propane hose with 3/8" L coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

Model	kg	No.
AIRPROP® Brazing set without propane regulator	2.8	<b>31092</b>
AIRPROP® Brazing set with propane regulator (as in set (No. 31092) but with regulator (No. 32081) (W 21.8 L – R3/8 L))	3.1	<b>31091</b>
Flame cleaning torch 20/ 50 mm	0.2	<b>30922</b>

### AIRPROP® brazing burner with threaded coupling



Fig. AIRPROP® torch with threaded coupling

Ø	L mm	g/h 2 bar	g	No.
14 mm	140	125	95	<b>30913</b>
16 mm	145	180	100	<b>30914</b>
19 mm	170	300	130	<b>30915</b>
22 mm	171	400	145	<b>30916</b>

### AIRPROP® brazing burner with push-in nipple coupling



Fig. AIRPROP® torch with push-in nipple

Ø mm	L mm	g/h 2 bar	g	No.
14 mm	140	125	95	<b>221131416</b>
16 mm	145	180	100	<b>221131616</b>
19 mm	170	300	130	<b>221131916</b>
22 mm	171	400	145	<b>221132216</b>

# 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

- 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



**Self-induced air:**

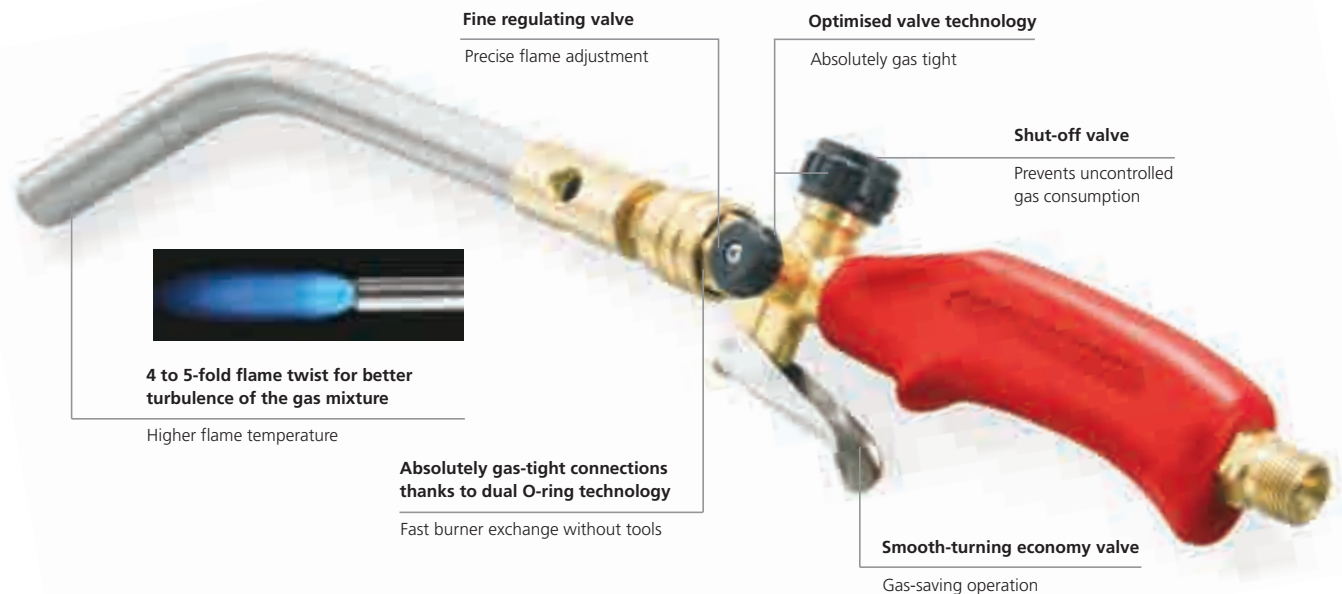
**Torch:**

**Hose coupling:**

Turbine and combustion chamber

Surface treated, chromed brass

G 3/8" L



TURBOPROP Brazing set (31090) include: (No. 31009), brazing torch with push-in nipple Ø 12 mm (No. 31032) / Ø 15 mm (No. 31033) / Ø 19 mm (No. 31034), 2.5 m propane hose with 3/8" L coupling (No. 32201), safety igniter (No. 32077), replacement flints (No. 32088), open-ended spanner (No. 32073), steel case (No. 31005)

TURBOPROP Brazing set (P00109216) include: Handle with regulator, economy valve, Stainless steel TURBOPROP burner 18 mm, 2 m high-pressure hose W21,8L – 3/8"L, Set delivered in blister packaging

Model	kg	No.
TURBOPROP Brazing set	2.8	<b>31090</b>

Model	kg	No.
TURBOPROP Brazing set	2.8	<b>P00109216</b>

### TURBOPROP brazing torch with threaded coupling





Fig. TURBOPROP torch with threaded coupling

Ø	L	g/h 2 bar	kWh – kcal – BTU	g	No.
10 mm	165	70	0.89 – 770 – 3,055	90	<b>221090116</b>
12 mm	175	110	1.41 – 1,210 – 4,815	90	<b>221090216</b>
15 mm	195	180	2.30 – 1,980 – 7,855	110	<b>221090316</b>
18 mm	230	240	3.07 – 2,640 – 10,485	160	<b>221090416</b>

### TURBOPROP brazing burner with push-in nipple coupling



Fig. TURBOPROP torch with push-in nipple

Ø	 mm	g/h 2 bar	kWh – kcal – BTU	 g	No.
10 mm	165	70	1.89 – 770 – 3,050	70	<b>31031</b>
12 mm	175	110	1.41 – 1,210 – 4,815	90	<b>31032</b>
15 mm	195	180	2.30 – 1,980 – 7,855	110	<b>31033</b>
18 mm	230	240	3.07 – 2,640 – 10,485	160	<b>31034</b>
24 mm	270	450	5.75 – 4,950 – 19,640	230	<b>31035</b>

# Bonding

## Cylinder Brazing

### AIRAC® Set

#### Acetylene brazing torch up to Ø 35 mm with 2,350 °C

Ideal brazing unit - efficient, weight-saving and fast compared to gas welding units (no additional oxygen cylinders needed)

- Oxygen from the surrounding air and acetylene are fed without pressure into the burner and with the special construction of the burner produce a flame temperature of 2,350° C with a concentrated, pointed flame for precise and fast work
- Ideal for refrigeration installation



- Scale build-up on the treated surface is prevented by the nitrogen that is introduced into the air flow (shielding gas effect)
- Light weight makes transporting easy (one-cylinder system)
- Maximal performance with the turbine and combustion chamber effect
- Shut-off valve prevents uncontrolled gas leaks
- Gas-saving use with the smooth-running economy valve



**High-performance injections burner only for acetylene 2,350 °C**

Powerful operation

**Turbine and combustion chamber effect, self-induced air**

Maximum performance



**Optimised valve technology**

Absolutely gas tight

**Shut-off valve**

Prevents uncontrolled gas consumption

**Fine regulating valve**

Precise flame adjustment

**Smooth-turning economy valve**

Gas-saving operation



**10-piece set (No. 31093) includes:** Safety handle (No. 34991), brazing torch size 2 (No. 35022) / size 3 (No. 35023) / size 4 (No. 35024), 2.5 m acetylene hose (No. 35203), bend with nut 150 mm (No. 35110), torch spanner 14 x 19 mm (No. 32073), safety igniter (No. 32077), replacement flints (No. 32079), steel case (No. 35005)

Model	kg	No.
AIRAC® brazing set in steel case	2.9	<b>31093</b>

AIRAC brazing set includes: Safety handle, bent with nut 150 mm, 3 torches of 3, 5 and 7,3 mm, 2 m acetylene hose R3/8" L - R3/8"L, set delivered in blister packaging

Model	kg	No.
AIRAC® brazing set	2.9	<b>P00109300</b>



### AIRAC® Brazing Torch

Made of surface-handled brass, stable and concentrated flame

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



### ROOFING-Set

#### Propane surface-heating torch with Ø 63 mm high-performance torch nozzle

Ideal for roofing and asphalt work and for bonding of bituminous sheeting, large-scale burning of weeds, defrosting, insulation, shrinking, drying and warming up.

- Large working range with 5 m to 10 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



**Burner support included!**

Ø 63 mm

L = 600 mm

5 m Propane hose

Large working range

ROOFING set (No. 030957E) includes: Roofing set with 63 mm open torch, 600 mm extension, 5 m propane hose R3/8" L - R3/8"L, burner support

Model	kg	No.
ROOFING-Set	1.88	<b>030954E</b>
ROOFING-Set Piezo	2.18	<b>030955E</b>
ROOFING-Set propan regulator	2.30	<b>030957E</b>

ROOFING set (No. 253001016) includes: Roofing set with 45 mm closed torch, 350 mm extension, 10 m propane hose W21,8L - 3/8"L, burner support

Model	kg	No.
ROOFING-Set	1.47	<b>253001016</b>

ROOFING set (No. 253000516) includes: Roofing set with 57 mm torch and 600 mm extension, 5 m propane hose W21,8L - 3/8"L, burner support

Model	kg	No.
ROOFING-Set	1.92	<b>253000516</b>

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	<b>32110</b>	350	190	<b>32135</b>
200	120	<b>32120</b>	600	290	<b>32160</b>



### Surface-Heating Torch Heads

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

mm	L mm	g/h 2 bar	kWh - kcal - BTU	g	No.
45	102	2500	32.00 - 27,500 - 109,280	240	<b>32045</b>
51	112	3800	48.60 - 41,800 - 165,970	270	<b>32051</b>
63	138	6700	85.70 - 73,700 - 292,670	440	<b>32063</b>
closed					
45	102	2500	32.00 - 27,500 - 109,280	240	<b>32111</b>
51	112	3800	48.60 - 41,800 - 165,970	270	<b>32112</b>
57	126	5500	70.35 - 60,500 - 240,257	350	<b>32113</b>
63	138	6700	85.70 - 73,700 - 292,670	440	<b>32114</b>



# Bonding

## Electric Soft Soldering

### ROTHERM 2000

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

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

**Soft soldering of Copper pipes up to:**

Ø 6 - 54 mm, 1/4 - 2.1/8"

- Soldering without open flame
- Large working radius, also when working under ceilings
- Comfortable transport and convenient use
- High performance, short soldering times
- Thermal overload protection turns device off automatically
- Handle shell will not overheat
- No purchasing on handling of gas cylinders necessary
- Equivalent with transport terms



- Problem-free connection on every 230 V outlet, 2 m connection cable
- Fast return on investment
- Power control lamp (red) and operating control lamp (green), equipment fuse accessible from outside

**Power:** 2000 Watt  
**Soldergun cable:** 4 m  
**Dimensions (L x W x H):** 260 x 190 x 200 mm  
**Weight:** 10,5 kg

#### Soldering without open flame!

Generously dimensioned stainless steel cooling ribs on both shanks of the tongs

No overheating of the handle shells

#### Thermal overload protection

Automatic device shut-off

#### 2000 W

High performance, short soldering times


#### Highly flexible, extra long 4 m solder gun cable

Large working radius, also when working under ceilings

#### Compact design

Comfortable transport and convenient use

Set (No. 36702 / No. 036704V) includes: ROTHERM 2000 soft soldering unit 230 V (No. 36700), Rosol 3 fittings soldering paste No. 45225, fitting solder 3 (No. 45255), ROVLIES® (No. 45268), Cu. Internal brushes 10 mm (No. 854180) / 12 mm (No. 854181) / 15 mm (No. 854183) / 18 mm (No. 854185) / 22 mm (No. 854186), steel case (No. 36715)

Model		230 V 50/60 Hz
ROTHERM 2000 Soft soldering set	17.8	<b>36702</b>
ROTHERM 2000 Soft soldering unit	13.6	<b>36700</b>
Steel case	3.5	<b>36715</b>

### 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

Accessories included in the set



Space saving storage in service vehicles!



The bottle colours shown are without obligation!

20-part set (No. 35780) includes: Handle with fine regulating valve (No. 35580), Maxigas 400 (No. 35570), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 35723), oxygen pressure reducer according to DIN 0-315 / 200 bar 0-16 / 10 bar (No. 35634), hose set (3 m without handle (No. 35785), oxygen blowback protection (No. 35678), gas blowback protection (No. 35691), mixing nozzle with union nut (No. 35587), high-performance tips 1.5 mm (No. 35422) / 2.0 mm (No. 35423), micro-tips 0.3 mm (No. 35712) / 0.5 mm (No. 35696) / 0.7 mm (No. 35713), micro-tip adaptor (No. 35585), welding goggles A5 (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738) carrying frame (No. 35727)

Model	kg	No.
ROXY 400 L Set	10.80	<b>35780</b>
ROXY welding handle Profi	0.01	<b>35580</b>
Hose Set (3 m without handle)	0.95	<b>35785</b>
ROXY micro-nozzle adaptor	0.01	<b>35585</b>
ROXY micro-nozzle for 1.0 - 1.2 sheet metal	0.04	<b>263005700</b>
ROXY micro-nozzle for 0.7 - 0.9 sheet metal	0.06	<b>263005800</b>

Model	kg	No.
ROXY micro-torch 0.4 mm	0.01	<b>35695</b>
ROXY micro-torch 0.5 mm	0.02	<b>35696</b>
ROXY micro-torch 0.6 mm	0.02	<b>35697</b>
ROXY micro-torch 0.3 mm	0.01	<b>35712</b>
ROXY micro-torch 0.7 mm	0.01	<b>35713</b>

### ALLGAS Mobile Pro

Mobile brazing equipment with safety devices

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

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

**Burning gas:** MAPP® -gas with oxygen (disposable)  
**Flame temperature:** over 3,100 °C  
**Working temperature:** 1,300 °C

Accessories included in the set



Cartridges not included in delivery of US-version!

Bezeichnung	kg	No.
ALLGAS Mobile Pro 1" US	3.86	<b>1000000529</b>
ALLGAS Mobile Pro 7/16" EU	5.95	<b>1000000558</b>
MAP//Pro 750 ml		<b>35557</b>
Oxygen, 110 L		<b>35750</b>



# Bonding

## Accessories Soldering & Welding

### ROSOL Soft Soldering Paste

Quality soft soldering paste according to **DIN EN 29453**, with flux core **DIN EN 29454-1 3.1.1.C**, with test mark **DVGW 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

Metal content: **S-Sn97Ag3**, only for use with fitting solder 1 S



#### ROSOL 3

Metal content: **S-Sn97Cu3**, only for use with fitting solder 3



Description		g	No.
ROSOL 1S S-Sn97 Ag3	250	<b>45220</b>	
ROSOL 3 S-Sn97 Cu3	250	<b>45225</b>	

### Fitting Solder 1S / Fitting Solder 3

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



Description		g	No.
Fittings Solder 1S, S-Sn97 Ag3, 3 mm	250	<b>45250</b>	
Fittings Solder 3, S-Sn97 Cu3, 3 mm	250	<b>45255</b>	

### Flame Reflectors

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



Description	Width mm	Mounting Ø mm	g	No.
65 / 15	65	8 - 15	100	<b>31042</b>
65 / 22	65	15 - 22	100	<b>31043</b>

### Hard solder Paste LP5

Flux for hand soldering at working temperatures above 600 °C, according to **DIN EN 29454**, **DVGW tested Reg. No. DV-0101-AT2245**, **Type F-SH 1**, for gas and water installations with copper pipes, recommended by DVGW in accordance with Worksheets GW 2 and GW 7, hard solders with silver content and usable with any basic materials of steel, copper and copper alloys, brass and gunmetal, working temperature range 550 °C – 800 °C, flux residues must be removed carefully



Description		g	No.
LP5	180	<b>40500</b>	

### Internal Brushes for Copper Pipe

For fast cleaning of the soldering surface, rugged plastic handle



Description		g	No.
For Ø 14 mm	90	<b>854182</b>	
For Ø 15 mm	100	<b>854183</b>	
For Ø 18 mm	120	<b>854185</b>	
For Ø 22 mm	140	<b>854186</b>	
For Ø 28 mm	160	<b>854187</b>	

### External Brushes for Copper Pipe

For fast cleaning of the soldering surface, tough housing



Description		g	No.
For Ø 12 mm	100	<b>854190</b>	
For Ø 15 mm	120	<b>854193</b>	
For Ø 18 mm	140	<b>854195</b>	
For Ø 22 mm	150	<b>854196</b>	
For Ø 28 mm	160	<b>854197</b>	

### Welding Blanket

Flame and heat resistant up to 1,000° C

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



Description		g	No.
Flame Protection Mat 330 x 500 mm	300	<b>31050</b>	

### ROVLIES® Cleaning Pads

Metal-free, for fast, score-free cleaning of copper pipe soldering surfaces

- Reduced corrosion damage
- No metal abrasion, can be used wet or dry
- Removes oxide layers, corrosion, surface dirt, oil and grease residues



Description		g	No.
ROVLIES® (content: 10 pcs.)	80	<b>45268</b>	

### 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.

- Non-foaming. Heat-resistant up to 200 °C
- No flux required with copper / copper joints
- Flux LP 5 is to be used when joining brass, gunmetal, copper, tin and copper / tin alloys
- Not to be used with materials containing sulphur, with iron / nickel alloys or with copper alloys containing nickel
- Manufactured with new, environmentally compatible technology, corrosion neutral, scale-free, improved flow properties



### ROLOT® S 94 CP 203

Quality hard solder **guaranteed according to DIN EN 1044**, due to low phosphorus content, the solder has a wide melting range, and gives soldered joints with increased strength. Standard solder for normally-stressed copper pipe installation, especially for capillary soldering with copper pipe installation without fittings

**Alloy (weight %):** P 5.9 - 6.5 Cu rest  
**Melting range:** 710 °C – 880 °C  
**Working temperature:** 730 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with LP 5

**Guaranteed according to DIN EN 1044!**



Contents	Squared section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	<b>40094</b>
1 kg carton	3 x 3	500	1,025	<b>40095</b>
5 kg plastic bag	2 x 2	500	5,025	<b>040094A</b>
400 g blister	2 x 2	500	420	<b>1000000133</b>

### ROLOT® S 94 XN CP 203

Quality brazing solder, **guaranteed according to DIN EN 1044**, due to the special manufacturing method it has excellent flow characteristics, uniform melting for perfect soldered joints, capillary and air-tight active, ideal for capillary gap soldering in sanitary, heating and gas installation

**Alloy (weight %):** P 5.9 - 6.5 Cu rest  
**Melting range:** 710 °C – 880 °C  
**Working temperature:** 730 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with LP 5

**Guaranteed according to DIN EN 1044!**



Contents	Squared section mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	<b>040097X</b>

### ROLOT® S 1 CP 203

Special quality brazing solder, not standardised, **similar to DIN EN 1044**, CP 203, for normally-stressed copper pipes systems, also for gap soldering for copper pipe installations without fittings

**Melting range:** 710 °C – 880 °C  
**Working temperature:** 730 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Brass, gunmetal, bronze LP 5




Contents	mm	Length mm	g	No.
1 kg carton	2	500	1,025	<b>40102</b>

# Bonding

## Accessories Soldering & Welding



Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40202</b>
1 kg carton	3 x 3	500	1,025	<b>40203</b>
400 g blister	2 x 2	500	420	<b>1000000135</b>

### ROLOT® S 2 CP 105

Special quality hard solder, not standardised, **similar to DIN EN 1044**, with low silver content, matched to normally-stressed copper pipe system, ideal for capillary gap soldering


**Melting range:** 710 °C – 820 °C  
**Working temperature:** 720 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with hard solder paste LP 5

4



**Guaranteed according to DIN EN 1044!**




Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40212</b>
1 kg carton	3 x 3	500	1,025	<b>40213</b>
400 g blister	2 x 2	500	420	<b>1000000134</b>

### ROLOT® S 2 CP 105

Silver / phosphorus safety hard solder, **guaranteed according to DIN EN 1044**, for higher-stressed copper pipe systems, ideal for capillary soldering in sanitary, heating and gas installations

**Alloy (weight %):** Ag 1.5 – 2.5 / P 5.9 – 6.5 / Cu rest  
**Melting range:** 650 °C – 810 °C  
**Working temperature:** 710 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with hard solder paste LP5



Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40502</b>
400 g blister	2 x 2	500	420	<b>1000000137</b>


### ROLOT® S 5 CP 104

Particularly high quality hard solder, not standardised, **similar to DIN EN 1044**, with low silver content, ideal for capillary and joint soldering in sanitary, heating and gas installations

**Melting range:** 710 °C – 820 °C  
**Working temperature:** 720 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with hard solder paste LP5

**Guaranteed according to DIN EN 1044!**



Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40005</b>
400 g blister	2 x 2	500	420	<b>1000000136</b>


### ROLOT® S 5 CP 104

High-quality silver/phosphorus safety hard solder, **guaranteed according to DIN EN 1044**, for higher-stressed copper pipe systems, ideal for capillary and joint soldering in sanitary, heating and gas installations

**Alloy (weight %):** Ag 4 – 6 / P 5.7 – 6.3 / Cu rest  
**Melting range:** 650 °C – 810 °C  
**Working temperature:** 710 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with hard solder paste LP5

**Guaranteed according to DIN EN 1044!**



Contents	Square mm	Length mm		No.
1 kg carton	2 x 2	500	1,025	<b>40015</b>

### ROLOT® S 15 CP 102

Particularly high quality silver hard solder, **guaranteed according to DIN EN 1044**, especially for capillary-gap soldering subject to high thermal and mechanical alternating loads in HVAC systems, as well as demanding sanitary and gas installations

**Alloy (weight %):** Ag 14.0 – 16.0 / P 4.7 – 5.3 / Cu rest  
**Melting range:** 650 °C – 800 °C  
**Working temperature:** 710 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Flux required with:** Gunmetal, brass, bronze with hard solder paste LP5



# Testing & Leak Detection

## Testing of Water Lines & Containers

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

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

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

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

**Adjustment of the pressure gauge to 0,1 bar is possible!**



<b>Testing and pressure range:</b>	0 - 60 bar, with 1 bar steps 0 - 860 psi, with 20 psi steps 0 - 6 MPa, with 0,1 MPa steps
<b>Hub suction capacity:</b>	approx. 45 ml / stroke
<b>Tank capacity:</b>	12 l
<b>Dimensions (L x W x H):</b>	720 x 170 x 260 mm
<b>Connection:</b>	R 1/2"
<b>Container RP 50-S:</b>	Steel, DURAMANT® coated
<b>Container RP 50-S INOX:</b>	Stainless steel

#### Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

#### Additional pressure gauge with fine scaling 0.1 bar optional

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

#### Testing hose with steel mesh

Precise measurement

#### Weather and cold-resistant container

**5 year rust-free guarantee** - DURAMANT® coated

**INOX!**



No. 60203

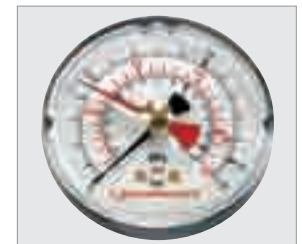


No. 60200

*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			No.
RP 50-S Testing Pump	8	1	4	<b>60200</b>
RP 50-S INOX (stainless steel) Testing Pump	8	1	4	<b>60203</b>

Model	g		No.	Model	g		No.
Maintenance package	0.1	1	<b>60201</b>	High pressure hose with 1/4" - 1/2" connection	490	1	<b>61125</b>
Double nipple 1/2" to 3/4"	0,1	1	<b>60999</b>	Extra 16 bar pressure gauge with drag indicator R1/4"	100	1	<b>61316</b>



# Testing & Leak Detection

## Testing of Water Lines & Containers

### RP PRO III

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

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



- 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 or from a pressure source. Suitable for water and glycol
- Glycerine cushioned pressure gauge absorbs pressure surges which makes pressure reading easier

<b>Testing and pressure range:</b>	0 - 40 bar, with 1 bar steps 0 - 570 psi, with 20 psi steps 0 - 0.1 MPa steps
<b>Flow Rate:</b>	6 l / min
<b>Dimensions (L x W x H):</b>	375 x 290 x 300 mm
<b>Connection:</b>	R 1/2"
<b>Mains voltage:</b>	200 - 240 V / 50 HZ and 110 V / 50 - 60 HZ
<b>Performance:</b>	1.3 kW
<b>Container:</b>	ABS-plastic

Model	kg	No.
Testing pump RP PRO III self-priming with power cable, high-pressure hose (230V) and 1/2" connection, filling hose	16.0	<b>61185</b>
Testing pump RP PRO III self-priming (110V)	16.0	<b>V12110016</b>

Model	kg	No.
Filling hose with adaptor	0.5	<b>61001</b>
Testing hose with R 1/2" connection	0.4	<b>61002</b>
Extra pressure gauge	0.8	<b>61187</b>
Maintenance package RP PRO III in scope of delivery		<b>61186</b>

### RP 30

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

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

- Testing hose with steel mesh prevents reading mistakes, that can happen when the hose expands during operation

<b>Testing and pressure range:</b>	0 - 30 bar, with 1-bar steps 0 - 440 psi, with 20 PSI steps
<b>Hub suction capacity:</b>	16 ml / stroke
<b>Dimensions (L x W x H):</b>	440 x 200 x 240 mm
<b>Connection:</b>	R 1/2"
<b>Container:</b>	ABS-plastic



Model	Pressure range	kg		No.
Testing pump RP 30 up to 30 bar	4.5	1	4	<b>61130</b>
Testing hose	0.4	1		<b>61125</b>

### TP 25

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

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

- 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

<b>Testing and pressure range:</b>	0 - 25 bar
<b>Hub suction capacity:</b>	approx. 16 ml / stroke
<b>Dimensions (L x W x H):</b>	380 x 215 x 156 mm
<b>Connection:</b>	R 1/2"
<b>Container:</b>	Steel, DURAMANT® coated (5 year guarantee)



Model	Pressure range	kg		No.
TP 25 Testing Pump	up to 25 bar	4.6	1	4
Maintenance package TP 25			1	<b>60251</b>

# Testing & Leak Detection

## Leak Detection on Gas Lines

### ROTEST®

#### Leak detection on gas lines

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

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

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



DVGW tested  
Reg.-Nr. NG-5170CL0063



Model	Contents	g		No.
ROTEST® leak detection spray	400 ml	470	12	65000

### ROTEST® Electronic 3

#### Leak detection on gas lines

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

- 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

**Detects:** Natural gas, propane, butane, methane, acetone, alcohol, ammonia, benzyl, ethylene, gasoline, hydrogen, industrial solvents, jet fuel, paint thinner, naphtha, toluene

**Sensitivity:** < 50 ppm – 1 Vol % (Methan)

**Power supply:** 1 x 9 Volt block battery, type SLM 9 V



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

Model	kg	No.
ROTEST® Electronic 3	1.5	66080



# Freezing

## Freezing Electric

### ROFROST® TURBO 1.1/4" and 2"

Pipe freezing system for copper, steel and plastic composite pipes

Maintenance, repair and expansion work in sanitary and heating installations

- Safe freezing: Thermometer on the freezer clamp indicates when the pipe is completely frozen
- Reduction inserts in various sizes for all common pipe diameters
- With the flexible hose and the simple clamping system even working overhead and in confined spaces is not a problem



Copper pipes:	Ø 10 - 42 mm	ROFROST® TURBO 1.1/4"
	Ø 10 - 54 mm	ROFROST® TURBO 2"
	Ø 3/8 - 1.3/8"	ROFROST® TURBO 1.1/4"
	Ø 3/8 - 2.1/8"	ROFROST® TURBO 2"
Steel pipes:	Ø 1/4 - 1.1/4"	ROFROST® TURBO 1.1/4"
	Ø 1/4 - 2"	ROFROST® TURBO 2"

Plastic pipes, as well as multi-layered composite pipes

Simple and flexible use in all situations!



Temperature display easy to read and rotatable

Safe, controlled freezing and monitoring

Simple clamping system

For use even in confined spaces

Compact design

Portable use, optimal for service industry

For pipes with Ø 10 mm - 54 mm

Reduction inserts in various sizes



#### Space requirements for freezing clamps

##### ROFROST® TURBO 1.1/4"

A<sub>min</sub> = 27 mm

B<sub>min</sub> = 37 mm

B<sub>min</sub> = 52 mm

A<sub>min</sub> = 13 mm

Use on vertical pipes in corners

Use on pipes wall fitting / valve

Use on vertical pipes on walls



#### Space requirements for freezing clamps

##### ROFROST® TURBO 2"

A<sub>min</sub> = 37 mm

B<sub>min</sub> = 45 mm

A<sub>min</sub> = 57 mm

A<sub>min</sub> = 17 mm

Use on vertical pipes in corners

Use on pipes wall fitting / valve

Use on vertical pipes on walls



Set (No. 62201, 62200) includes 7 reduction inserts for copper pipes 3/8", 1/2", 7/8", 1.3/8" and steel pipes 1/8", 1/4", 3/8", 1/2", 3/4", 1", Set (No. 62202) includes 7 reduction inserts for copper pipes 1/2", 5/8", 3/4", 7/8", 1", 1.1/8", 1.3/8" and steel pipes 1/2", 3/4", 1", 1.1/4", Set (No. 62203, 62204) includes 4 reduction inserts for copper pipes 2.1/8" and steel pipes 3/4", 1.1/4", 1.1/2", Set (No. 62205, 62206) includes 8 reduction inserts for copper pipes 1/2", 7/8", 1.3/8" and steel pipes 1/4", 3/8", 1/2", 3/4", 1.1/4", 1.1/2", 2.1/8"

Model	kg	110V 50/60 Hz	230V 50/60 Hz	Model	kg	110V 50/60 Hz	230V 50/60 Hz
ROFROST® TURBO 1.1/4"	24.8	62201	62200	ROFROST® TURBO 2"	25.6	62204	62203
ROFROST® TURBO 1.1/4"	24.8	62202		ROFROST® TURBO 2"	25.8	62205	62206

**ROFROST® ECO**

The compact and refrigerant-free freezing unit for copper, steel and multi-layered composite pipe



Maintenance, repair and expansion work in sanitary and heating installation

● ROFROST® ECO works without refrigerant, no more refrigerant-caused service costs





● Defrost function: Follow-up work can begin quickly

<b>Power requirement:</b>	700 W
<b>Voltage:</b>	90 - 250 V / 50 Hz
<b>Temperature range:</b>	0 - 25° C (ambient temperature)
<b>Copper pipes:</b>	Ø 8 - 22 mm
<b>Steel pipes:</b>	Ø 1/16 - 1/2"

Scope of delivery (No. 1500000089): Basic unit ROFROST® ECO, Reduction inserts size 3, size 5, size 7, Heat conductive paste (No. 62291)

Model			No.
ROFROST® ECO	11.0	1	<b>1500000089</b>
Heat Conductive Paste	0.1	1	<b>62291</b>

**ROFROST® ECO Reduction Inserts**

Reduction insert Size					No.
Size 1	8 mm	-	1/16"	70	<b>1500000100</b>
Size 2	10 mm	3/8"	1/8"	62	<b>1500000101</b>
Size 3	12 mm	1/2"	-	52	<b>1500000102</b>
Size 4	14 mm	-	-	52	<b>1500000103</b>
Size 5	15 mm	-	1/4"	48	<b>1500000104</b>
Size 6	16 mm	5/8"	-	46	<b>1500000105</b>
Size 7	18 mm	-	3/8"	42	<b>1500000106</b>
Size 8	20 mm	3/4"	-	40	<b>1500000107</b>

**ROFROST® Dry Ice Set**

Freezing unit for the freezing of pipes up to 2" without electricity

Maintenance, repair and expansion work in sanitary and heating installation. No electrical connection required!

● 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

**Copper pipes:** Ø 10 mm - 60 mm  
Ø 1/2 - 2.1/8"

**Steel pipes:** Ø 1/8 - 2"

Plastic pipes, as well as plastic composite pipes

19-part set (No. 65030) includes: 2 handles with feed valves (No. 65032), 2 high pressure hoses (No. 65033), 10 pairs of freezer heads (2 for each pipe dimension), stopper for one-sided freezing (No. 65049), wrench (No. 65045), internal hexagonal screwdriver (No. 65046), T-piece (65034), Plastic carrying case (65031)

for Copper pipes Ø mm	for Steel pipes Ø inch		No.
10 - 60	1/2 - 2.1/8"	4.9	<b>65030</b>

**Refrigerant-free!**



**Defrost function**

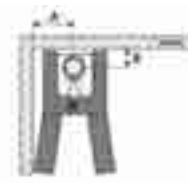
The pipe is defrosted in approx. 1 minute



**Space requirements for the ROFROST® ECO freezing clamps**



A<sub>min</sub> = 41 mm  
B<sub>min</sub> = 15 mm



A<sub>min</sub> = 36 mm  
B<sub>min</sub> = 36 mm



A<sub>min</sub> = 50 mm

**Set without carbon dioxide bottles!**



Use carbon dioxide bottles only with stand pipes



# Inspection & Locating

## System Overview Video Inspection

### ROSCOPE® 1000

#### Modular system for inspecting pipes and hollow spaces

- Photos and videos can be easily stored on the SD card
- Various modules for different pipe dimensions and cable lengths
- Camera head and base unit are waterproof in accordance with IP 68 / 65
- Module TEC 1000 and Module Pipe 25/16 have self-leveling pictures
- Module ROLOC PLUS for precise locating of the camera head
- Headset connection for adding audio commentary to the inspection



## Which ROSCOPE® system for which application area?



**1** **Module TEC 1000**  
Cable length / range: 0.9 m  
Working range: hollow spaces



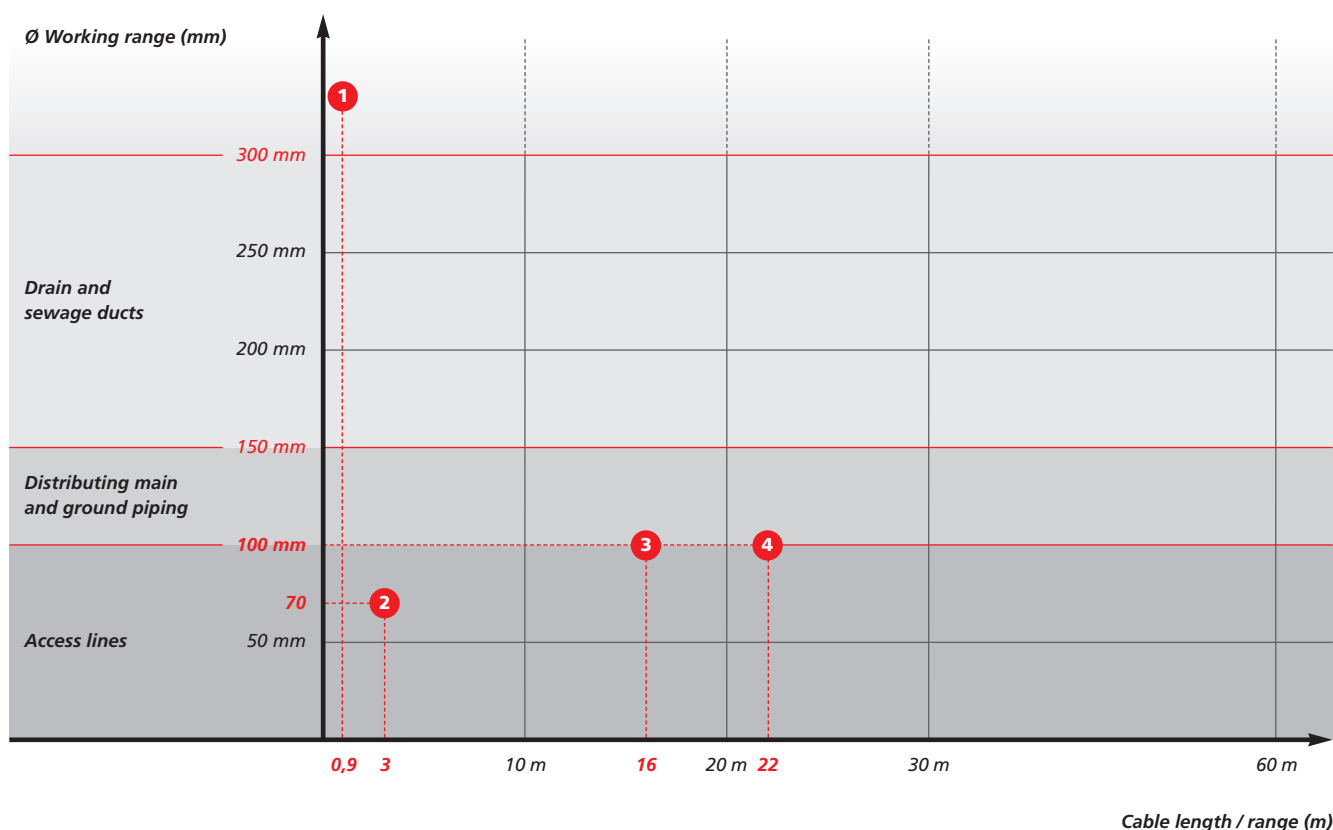
**2** **Module Pipe 20/3**  
Cable length / range: 3 m  
Working range: up to Ø 70 mm



**3** **Module Pipe 25/16**  
Cable length / range: 16 m  
Working range: up to Ø 100 mm



**4** **Module Pipe 25/22**  
Cable length / range: 22 m  
Working range: up to Ø 100 mm





### ROCAM®

#### Camera for the inspection of pipes

- Professional documentation with the logging software and data recording
- Self-leveling picture
- Recording of videos and photos
- Can be used immediately, no mounting of the reel is necessary
- Fits various pipe diameters
- ROCAM® 3 Multimedia with an integrated transmitter for the precise locating of the camera head



### Which ROCAM® for which application area?



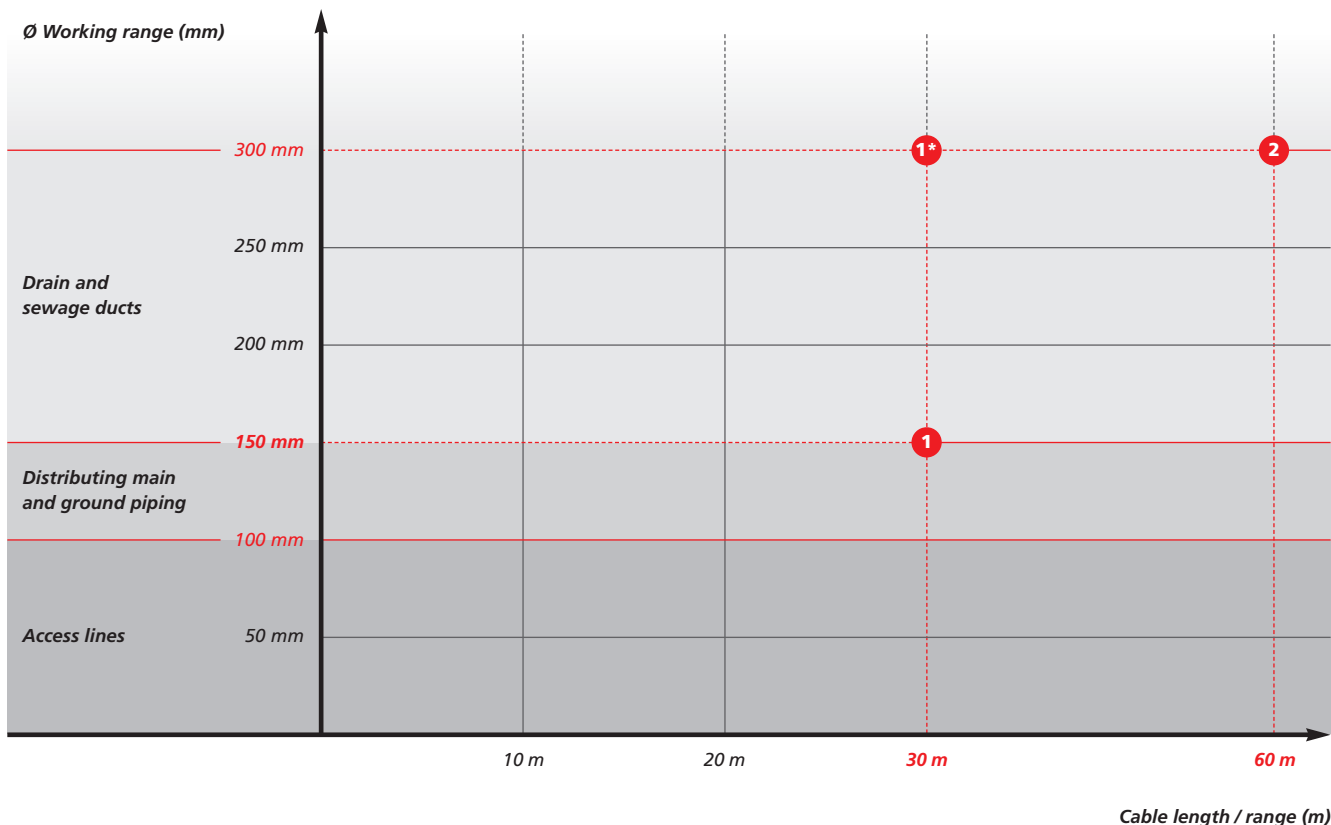
- 1** ROCAM® 3 Multimedia  
Cable length / range: 30 m  
Working range: up to Ø 150 mm  
(\*Can be optionally used with the SL-40 camera head up to Ø 300 mm)



- 2** ROCAM® Plus  
Cable length / range: 60 m  
Working range: up to Ø 300 mm



ROCAM® 3 Multimedia with removable control unit



# Inspection & Locating

## Video Inspection

### ROSCOPE® 1000

The MULTIFUNCTION technology unites inspection technology and locating technology in one unit

The ROSCOPE® 1000 System covers almost all inspection techniques within living and working spaces. The ROSCOPE® 1000 can also be used with the ROLOC PLUS module for locating piping and camera head systems

- The ROSCOPE® system is very handy and highly versatile
- Numerous inspections can be documented professionally and with multimedia



<b>Display:</b>	3.5" TFT-LCD colour display
<b>Video format:</b>	AVI
<b>Picture format:</b>	JPEG, 720 x 480 pixels
<b>Connection:</b>	Mini-USB, AV-Out, SD-card slot, headset plug
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah
<b>Voltage:</b>	110 - 250 V, 50/60 Hz

**Versatile and user-friendly!**

**3.5" TFT-LCD colour display**  
720 x 480 pixel resolution (JPEG)

**5-pin connection**  
Previous ROTHENBERGER modules can be used

**Can be switched to black and white**  
Improves contrast by difficult lighting conditions

**SD-card slot**  
Even more storage space for your recordings

**Headset connection**  
Personal, explanatory audio commentary can be added

**Ergonomically arranged function keys**  
Single handed use without problem

**Slip-free, ergonomical handle**  
For comfortable and effort saving operation - even over long periods of time

**Protection against splash water as per IP 65**  
For safe use in wet surroundings

**Powerful Li-ion battery**  
For an extra long battery life of 3-5 hours



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### ROSCOPE® 1000 Set Pipe 25/16

High-performance camera for the inspection of pipes from Ø 40 up to 100 mm. With an integrated transmitter for the precise locating of the camera head. With Module TEC 1000

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 40 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® 1000 basic unit can also be used as control unit for the ROLOC PLUS locating module



<b>Display:</b>	3.5" TFT LCD colour display (technical data about basic unit available on page 70)
<b>Camera head:</b>	Ø 25 mm, <b>self-leveling</b> and waterproof, with 4 extra bright LED lights
<b>Brightness:</b>	125 LUX (0.5 m)
<b>Cable length:</b>	16 m
<b>Cable diameter:</b>	8.5 mm
<b>Frequency:</b>	512 Hz
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah, 2 AA batteries (transmitter)
<b>Weight:</b>	3.9 kg

#### Switch to black and white

Improves the contrast by difficult lighting conditions

**Simple locating of the camera head with the integrated transmitter!**

#### 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

#### 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 Pipe 25/16 and 25/22

For centring of the camera head, better illumination of the pipe



No. 74629

Scope of delivery ROSCOPE® 1000 Set Pipe 25/16 (No. 1000000064): ROSCOPE® 1000 basic unit, Module Pipe 25/16, Module TEC 1000, battery, charger, plastic carrying case

Model		No.
ROSCOPE® 1000 Set Pipe 25/16 + Module TEC	1	1000000064
Module Pipe 25/16	1	1500000052
Guide skid for Module Pipe 25/16 and 25/22	1	74629

Inspection from floor drains



Inspection of rain drainpipes





Self-leveling camera head



No. 69615

Inspection of hollow spaces



Camera head with high-performance LEDs



### ROSCOPE® 1000 Set TEC 1000

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

- Self-leveling camera head
- Waterproof camera head as per IP 68
- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extension of the goose neck up to a maximum of 9 m

**Display:** 3.5" TFT LCD colour display (technical data about basic unit available on page 70)

**Camera head:** Ø 17 mm, **self-leveling** and waterproof, with 4 LED lights

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

**Cable length:** 0.9 m

**Power supply:** Li-ion battery 3.7 V / 4.2 Ah

**Weight:** 0.9 kg

Scope of delivery ROSCOPE® 1000 set TEC 1000 (No. 69600): ROSCOPE® 1000 basic unit, Module TEC 1000, battery, charger, plastic carrying case

Model		No.
ROSCOPE® 1000 Set TEC 1000	1	<b>69600</b>
Module TEC 1000	1	<b>69601</b>
Extension TEC 1.8 m	1	<b>1500000010</b>
Set (hook, magnet, mirror)	1	<b>69615</b>
Module Pipe 20/3	1	<b>69385</b>
Module Micro 5.5/1	1	<b>69376</b>

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**22 m long cable!**



Inspection of rain downpipes



Inspection of rain drainage pipes



### ROSCOPE® 1000 Set Pipe 25/22

**High-performance camera for the inspection of pipes from Ø 40 up to 100 mm. With the Module TEC 1000**

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

**Display:** 3.5" TFT LCD colour display (technical data about basic unit available on page 70)

**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 / 4.2 Ah

**Weight:** 3.1 kg

Scope of delivery ROSCOPE® 1000 set Pipe 25/22 (No. 1000000009): ROSCOPE® 1000 basic unit, Module Pipe 25/22, Module TEC 1000, battery, charger, plastic carrying case

Model		No.
ROSCOPE® 1000 Set Pipe 25/22 + Module TEC	1	<b>1000000009</b>
Module Pipe 25/22	1	<b>69603</b>
Guide skid for Module Pipe 25/16 and 25/22	1	<b>74629</b>

**ROSCOPE® 1000 Set ROLOC PLUS**

Easy to use pipe and sonde locating device.  
Available as a complete unit, as well as locating  
module for the ROSCOPE® 1000 base unit

- 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

**Display:** 3.5" TFT LCD colour display (technical data about basic unit available on page 70)

**Frequencies:** 512 and 650 Hz, 33 kHz active, 50/60 Hz passive

**Power supply:** Li-ion battery 3.7 V / 4.2 Ah

**Dimensions:** 95 x 32 x 30 cm (operating mode)  
67 x 32 x 9 (transportation mode)

**Weight:** 1.4 kg

**Included in set:  
Module TEC 1000**

Formable camera module for the ROSCOPE® 1000 basic unit for the inspection from hollow spaces and hard to reach areas

**Camera head:** Ø 17 mm **self-leveling** and waterproof, with 4 LED lights

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

**Cable length:** 0.9 m



**Locating module is included  
with the ROSCOPE® 1000 basic unit!**

**Simple menu guidance**

Guides step-by-step  
to targeted position



**Multi-frequencies**

Locating of the most  
common camera heads

**Telescopic function**

For easier transport  
in case

**Depth measurement**

Pin-point location of  
the transmitter position

Scope of delivery ROSCOPE® 1000 Set ROLOC PLUS (No. 1000000065): ROSCOPE® 1000 basic unit, Module ROLOC PLUS; Module TEC 1000, battery, charger, plastic carrying case

Model		No.
ROSCOPE® 1000 Set ROLOC PLUS + Module TEC 1000	1	1000000065
Module ROLOC PLUS	1	1500000057

# Inspection & Locating

## Video Inspection

### ROCAM® 3 Multimedia

Inspection camera for pipes from Ø 50 up to 150 mm and/or from Ø 150 up to 300 mm. With integrated transmitter for the precise locating of the camera head

- Removable monitor unit for working in confined spaces
- Recording of photos and videos
- Logging software
- Data recording with the keyboard
- Audio commentary of the inspection is possible
- 4x zoom function
- Precise determination of the camera head distance with the digital meter counter fade-in on display

With large 10.4" colour display!

- Display:** 10.4" TFT LCD colour display, removable
- Camera head:** Ø 30 mm (standard) with 25 LED lights, Ø 40 mm (optional) with 36 LED lights, **self-leveling** and waterproof
- Brightness:** 175 LUX (0.5 m), camera head Ø 30 mm  
666 LUX (0.5 m), camera head Ø 40 mm
- Cable length:** 30 m
- Cable diameter:** 7 mm
- Power supply:** NiMH battery 12 V / 6 Ah
- Weight:** 13 kg
- Voltage:** 110 - 250 V, 50/60 Hz

Simple locating of the camera head with the integrated transmitter!

#### Protection against splash water (IP65)

For use in wet, dirty surroundings and easy, fast cleaning

#### Removable control unit with 10.4" TFT LCD colour display

Simple use in hard to reach places

#### Recording of photos and videos

Simple documentation of the inspection on a USB stick

#### Digital meter count fade-in

Precise determination of the camera head distance

#### Strong push cable Ø 7 mm, 30 m long

Precise and reliable camera guidance in pipe and duct



#### Integrated transmitter

For the precise locating of the camera head

#### Mechanical self-leveling of the picture

Picture is always upright, no loss of orientation

#### Exchangeable head system

Universal connection for attaching various camera heads



Model

No.

ROCAM® 3 Multimedia	1500000118
Camera head Ø 30 mm	1500000123
Camera head Ø 40 mm	1500000122



### ROCAM® Plus

#### Inspection camera with battery and mains operation for pipes from Ø 25 up to 300 mm

Camera system for cost-effective inspection and damage analysis over long distances with self-leveling camera head and optional data archiving per ATV

- Powerful, self-leveling camera head
- Precise and reliable guidance of the camera in pipe and drains
- Curve flexibility 90° starting from 40 mm with the Mini Module 1.4 (as standard included)
- Conserves battery: saves energy with the automatic shut-off
- Mobile and battery operation up to 2.5 hours, 12 V adaptor with on-board charger
- Precise determination of the camera head distance with the digital meter count fade-in on display
- Excellent contrast and sharp, continuously adjustable light intensity of the diodes
- For the documentation of the inspection on video
- Direct data exchange with laptop / PC, etc., possible



<b>Display:</b>	5.6" TFT LCD colour display
<b>Camera head:</b>	Ø 40 mm, <b>self-leveling</b> and waterproof, with 35 LED lights
<b>Brightness:</b>	666 LUX (0.5 m)
<b>Cable length:</b>	60 or 100 m
<b>Cable diameter:</b>	7.5 mm
<b>Frequency:</b>	33 kHz (optional)
<b>Power supply:</b>	NiMH battery 12 V / 3 Ah or Mains operation 100-240 V / 50-60 Hz
<b>Weight:</b>	starting at 20 kg
<b>Voltage:</b>	110 - 250 V, 50/60 Hz

#### Duo-Power

Portable and mobile operation up to 2.5 hours. 12 V adaptor for on-board charger

#### Automatic shut-off when the hub is closed

Conserves battery and saves energy

#### Mini Module 1.4, 5 m long

Curve flexibility 90° starting from Ø 40 mm

#### Strong push cable 60 or 100 m long

Precise and reliable guidance of the camera in pipe and drains, even over long distances

#### Self-leveling camera head

Picture is always upright, no loss of orientation

#### TFT LCD colour display

Excellent contrast and sharpness

#### Digital meter count fade-in

Precise determination of the camera head distance

#### Video In / Video Out

For the documentation of the inspection on video. On laptop / PC with accessory No. 1000000082

#### COM port / RS232

Direct data exchange with laptop / PC, etc., possible



Model			No.
ROCAM® Plus with meter counter and 60 m cable length	20	1	<b>69725</b>
ROCAM® Plus with meter counter and 60 m cable length, with PC keyboard and professional drain software	21	1	<b>69740</b>
ROCAM® Plus with meter counter and 100 m cable length	25	1	<b>69825</b>
ROCAM® Plus with meter counter and 100 m cable length, with PC keyboard and professional drain software	26	1	<b>69840</b>

# Inspection & Locating

## Inspection Camera / Accessories

### ROCAM® Plus

**Steerable camera head for the inspection of pipes from Ø 100 up to 400 mm**

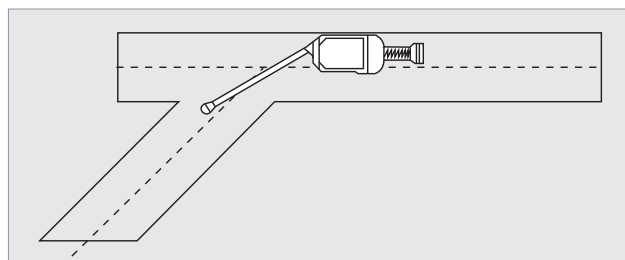
Camera head for the inspection of private drainage systems with pivoting rotor head function as per DIN EN 1610



- With the rotation and pivot function it is optimal for the visual inspection of pipe connections
- Simply look in pipe branches
- Effortless inspection of individual details
- Bending rod (optional) enables branches to be navigated



Functional principle of the bending rod



Model	No.
ROCAM® Plus SR	1500000277
Bending rod for ROCAM® Plus SR	1500000243

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**DIN EN 1610 capable!**

### ROCAM® Camera Heads

**Camera heads made of high-quality materials for professional inspection of pipes from Ø 70 up to 300 mm with ROCAM® 3 Multimedia**

#### Excellent brightness:

- The ROCAM® camera head Ø 30 mm has over 25 ultra bright LED lights, that effortlessly illuminate pipes up to Ø 150
- The camera head can be mounted with a Ø 40 mm camera head for larger pipe diameters

#### Pressure tight screw slip-ring connection:

- Pressure tight connection (3 bar) between camera head and push cable
- High resistance to shock and impact
- Quick and tool-less 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

#### 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

**Camera head:** Ø 30 mm (standard) with 25 LED lights  
Ø 40 mm (optional) with 36 LED lights  
**self-leveling** and waterproof

**Brightness:** 175 LUX (0.5 m), camera head Ø 30 mm 666 LUX (0.5 m), camera head Ø 40 mm

#### Sapphire glass

Scratch and impact resistant for a long service life and professional use

#### High-performance LED lights

High-performance LED lights for pipes up to Ø 300 mm

#### Flexible spring

90° curveability in pipes starting from Ø 70 mm



**Always an upright picture!**

Model	No.
Camera head Ø 30 mm	1500000123
Camera head Ø 40 mm	1500000122

# Inspection & Locating

## Accessories Inspection Cameras

### Rolling Skids

Recommended for distances from 30 m

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

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

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



Model			No.
For camera heads Ø 40 mm:			
Rolling skids RS40/150	700	1	<b>69118</b>
Rolling skids RS40/200	700	1	<b>69119</b>

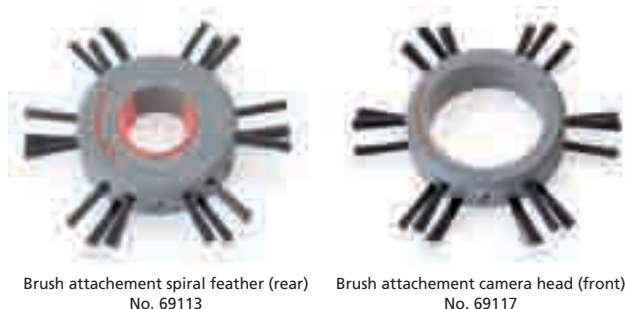
### Brush Attachments

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

Brush attachment Ø 100 for use in pipe 100 - 150 mm

Brush attachment Ø 150 for use in pipe 150 - 200 mm

- Optimized view of the pipe section through centring in the pipe
- Dirt will not accumulate in front of the lens
- Good curveability with the brush flexibility



Brush attachment spiral feather (rear)  
No. 69113

Brush attachment camera head (front)  
No. 69117

\*Use with guidance skid No. 69112

Model			No.
Brush attachment Ø 100*	200	1	<b>69113</b>
Brush attachment Ø 150*	300	1	<b>69117</b>

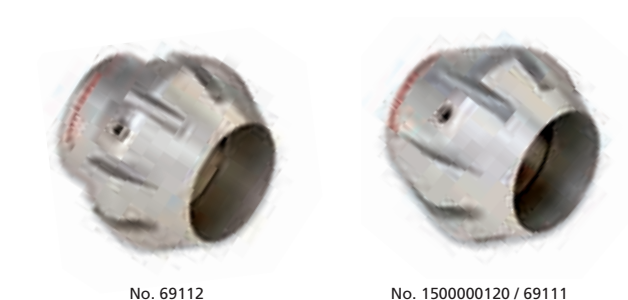
### Rolling Skids ROCAM® 3 Multimedia and ROCAM® Plus

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

Guide skid for pipe diameters Ø 70 - 150 mm

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

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



Model			No.
For camera head Ø 30 mm:			
Guidance skid for Ø 150 mm	200	1	<b>1500000120</b>
For camera head Ø 40 mm:			
Guidance skid for Ø 70 mm	200	1	<b>69111</b>
Guidance skid for Ø 70 mm, extended	200	1	<b>69112</b>

### Battery and Charger ROCAM® 3 Multimedia and ROCAM® Plus

- 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

**Battery:** 12 V / 3 or 6 Ah NiMH  
**Running time:** up to 2.5 hours  
**Charger / charging time:** 12 V / 1-1.5 Std.



Model			No.
ROCAM® Plus NiMH battery 12 V / 3 Ah	800	1	<b>69570</b>
ROCAM® Plus charger 12 V	750	1	<b>69575</b>
ROCAM® 3 M. NiMH battery 12 V / 6 Ah	800	1	<b>1500000121</b>



# Flushing & Pipe Cleaning

## Flushing

### ROPULS Flushing Compressor

For scouring and cleaning of heating systems and flushing of drinking water pipes according to DIN 188-2

- One Unit - three uses for safety and energy efficient:  
Flushing of floor heating systems / heating circuits  
Flushing of drinking water pipes as per DIN 1988-2  
Sanitizing of drinking water pipes
- Compact dimensions and practical carriage for simple handling during transport and at the building site
- Two flushing speeds (impulse and long-term flushing) for good cleaning results
- Simple to use with the clearly arranged control panel



<b>Pipe connection:</b>	R 1" GK coupling
<b>Max. pipe diameter:</b>	DN 65 / 2"
<b>Max. flow rate:</b>	5 m / h
<b>Max. water pressure:</b>	7 bar
<b>Max. water temperature:</b>	30° C
<b>Safety class:</b>	IP 22
<b>Oil deposition rate:</b>	99.9%
<b>Particle retention rate:</b>	0,3 µm compressor
<b>Max. operating pressure:</b>	8 bar
<b>Motor rating:</b>	1.1 kW
<b>Power supply:</b>	230 V - 50 / 60 Hz
<b>Dimensions (H x W x D):</b>	630 x 380 x 340 mm

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

Clearly arranged control panel

**Chemical cleaning possible with ROCLEAN attachment!**

**For removing deposits in floor heating and radiators**

Clean heating systems save energy

**Loosening and flushing of construction material before the initial start up**

Clean, perfect hygienic pipe systems for the field of drinking water

**Flushing of drinking water pipes with pulsing compressed air water mix as per DIN 1988-2**

Safety for plumbers and plant operators

**Compressor is also for tools run on compressed air**

Absolutely oil and water free air supply

**Quick connect NW 7.2**

For connecting pneumatic tools

**Function switch**

Enables you to change ROCLEAN functions easily

**Ideal for removing deposits from floor heating!**

Scope of delivery (No. 1000000145) ROPULS flushing compressor, 2 x 1 m fabric hose 1" with GK coupling

Description	kg	No.
ROPULS flushing compressor with hoses	28	1000000145

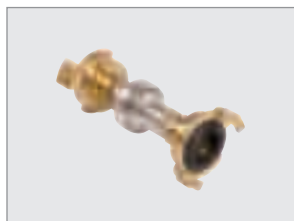
### ROPULS ROCLEAN

On the water access side of the ROPULS flush compressor is a pressure regulator. This holds the pressure of the fresh water supply at a constant 2 bar and guarantees a constant metered dose. The ROCLEAN injector is attached to the water exit side. The injector constantly meters the bottle contents and safeguards the system being clean

ROCLEAN injector with compressed air hose



Pressure regulator 2 bar



### Cleaning and Preservation with ROPULS ROCLEAN

#### Cleaning chemicals for radiator heating systems



For cleaning incrustations and tough deposits. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



#### Cleaning chemicals for surface heating systems



For cleaning of deposits and bio films. Suitable for all standard pipe materials. Does not stay in system. One bottle per 100 l system volume.



#### Preservative for radiators and surface heating systems



Maintains the cleaned condition and protects the system. One bottle is sufficient for 100 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	
Step 3: Preserving	

Description	Colour code			No.
ROCLEAN injector		1,1	1	<b>1000000190</b>
Pressure regulator 2 bar		0,3	1	<b>1500000203</b>
Chemical cleaning:				
– Radiator heating systems	Orange	6,3	6	<b>1500000200</b>
– Surface heating systems	Green	6,3	6	<b>1500000201</b>
Preservative	Blue	6,3	6	<b>1500000202</b>
Disinfection	Yellow	6,3	6	<b>1500000157</b>



# Flushing & Pipe Cleaning

## Decalcifying

### ROCAL 20 / ROMATIC 20

#### Decalcifying pump with flow direction change

For the quick decalcifying of heat exchangers, water pipes, water tanks, heat and cooling systems

- With the help of the flow reversal (change of the direction of flow) even very hard calcifications and deposits can be loosened
- Only ROMATIC: Running time of the pump and flow reversal can be programmed, which enables comfortable operation
- Approved for fluid temperatures up to 50° C for especially efficient decalcifying



**Connection:** R 1/2"  
**Tank volume:** 15 l  
**Power supply:** 230 V 50 / 60 Hz  
**Motor rating:** 150 Watt  
**Volume flow:** 40 l / min.  
**Delivery height:** 10 m



Fig. ROMATIC 20



Fig. ROCAL 20

Scope of delivery: ROCAL 20 (No. 61190) and ROMATIC 20 (No. 61100) each contain: 2x hoses with 1/2" connection (1G, 2 m long), 2 x double nipple 1/2-3/8", 2 x double nipple 1/2-3/4", 2 x double nipple 1/2-1/2", 2x double socket 3/4-3/4", 2 x reduction piece 1/2-3/4"

Description	kg		No.
ROCAL 20	6	1	61100
ROMATIC 20	6	1	61190

8

### ROCAL Acid Multi / Plus

Decalcifying chemical for use with ROCAL 20, ROMATIC 20

#### 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.

- With colour indication. The use of the chemical effects is shown by the change of the fluid colour
- Concentrate to mix with water
- With corrosion protection

#### Neutralizer Powder

Neutralizes ROCAL Acid Plus and ROCAL Acid Multi



No. 61115

No. 61120



No. 1500000115

No. 1500000116

No. 1500000117



No. 61105

No. 61106

No. 61110

	ROCAL Acid Multi	ROCAL Acid Plus
Copper	•	•
Steel	•	•
Stainless steel	•	-
Aluminium	•	-
Brass	•	-
Plastic	•	-

• suitable - unsuitable

Description	kg		No.
ROCAL Acid Multi	5	1 4	1500000115
ROCAL Acid Multi	10	1 2	1500000116
ROCAL Acid Multi	30	1	1500000117
ROCAL Acid Plus	5	1 4	61105
ROCAL Acid Plus	10	1 2	61106
ROCAL Acid Plus	15	1	61110
Neutralizer powder	1	1 5	61115
Neutralizer powder	10	1 2	61120



# Flushing & Pipe Cleaning

## Pipe Cleaning Manual

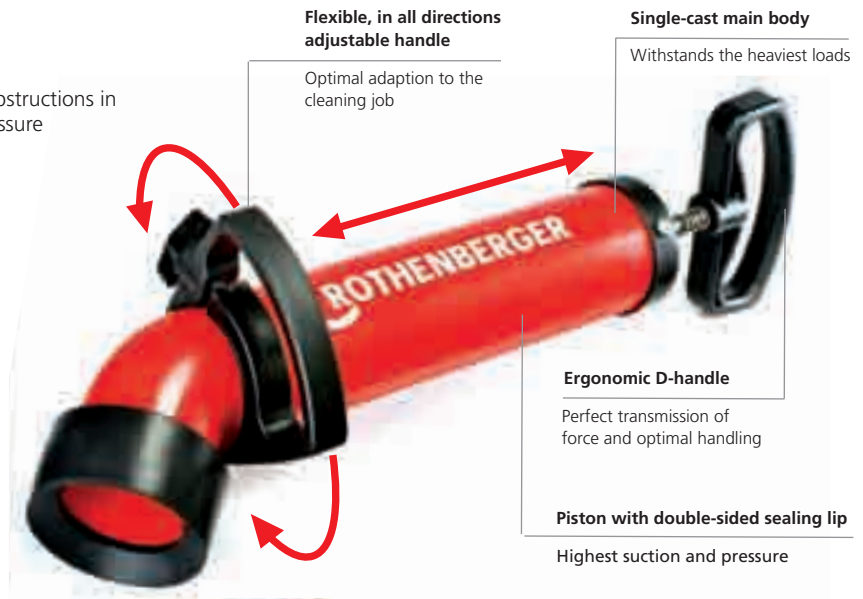
### ROPUMP® SUPER PLUS

#### Professional force pump cleaner

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

- Optimal adjustment for even the most difficult to reach drains with the appropriate adaptor
- Best force transmission with the flexible, adjustable handle
- Optimal sealed system and therefore the highest suction and pressure with the double-sided sealing lip and single-cast main body
- Simple handling with the perfect adaption an the drain, simple to use, with ergonomic formed components

**Quick – Compact – Handy!**



Model	kg			No.
ROPUMP® SUPER PLUS with 2 Adaptors	2.00	1	4	<b>072070X</b>
Adaptor long	0.66	1		<b>72071</b>
Adaptor short	0.16	1		<b>72072</b>
Adaptor wide	0.40	1		<b>70073</b>



Adaptor long  
No. 7.2071

Short adaptor



Long adaptor



### ROSPI H+E PLUS

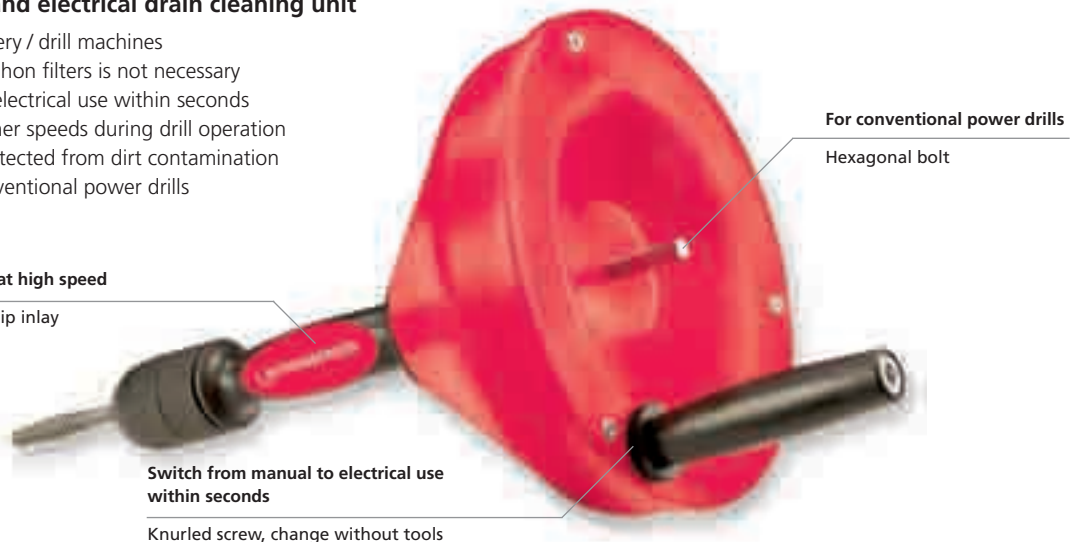
#### Professional manual and electrical drain cleaning unit

Comfortable use with battery / drill machines

- 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

#### Safe grip and operation even at high speed

Ergonomic handle with soft grip inlay



Model	kg			No.
ROSPI 6 H+E Plus 4.5 m	1.4	1	2	<b>72090</b>
ROSPI 8 H+E Plus 7.5 m	3.5	1	2	<b>72095</b>
ROSPI 10 H+E Plus 10.0 m	4.8	1	2	<b>72005</b>
<b>Spare spirals</b> steel core				
6.4 2 mm 4.5 - - R 6 0.8				<b>72522</b>
8 2 mm 7.5 C 1 - R 8 - R 36 1.8				<b>72412</b>
8 2 mm 7.5 C 1 - IC R 8 - R 36 2.3				<b>72413</b>
10 2.5 mm 10.0 C 5 - R 10 - R 36 3.5				<b>72422</b>

Manual operation



Electrical operation with cordless drill



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric & Manual

### ROSPIMATIC

#### Electrical pipe and drain cleaning machine Ø 20 - 50 mm

Powerful and quick removal of tough obstructions

- Fast and comfortable switch between automatic forward and reverse, high safety because hand grip doesn't need to be changed
- Individually adjustable for each cleaning job
- Safe use even with gloves
- Spiral with incorporated bulb head auger with steel core
- Optimum balance of weight

#### Technical Data:

<b>Application range:</b>	20 - 50 mm (Ø 8 mm)
<b>Dimensions (without spiral):</b>	560 x 200 x 320 mm
<b>Weight (with 8 mm spiral):</b>	5 kg
<b>Rating:</b>	630 W
<b>Speed:</b>	0 - 950 min <sup>-1</sup>



**One-of-a-kind spiral control mechanism**

Bulb auger



With coupling for various tools



Guidehose



Fast removal of obstructions



Tool Set (4 pcs) (No. 7.2942)

Model			No.
ROSPIMATIC* incl. 8 mm / 7.5 m spiral, 230 V	1	1	<b>78576</b>
Spiral 8mm / 7.5 m	1	1	<b>72412</b>
Spiral 8 mm / 7.5 m with steel core	1	1	<b>72413</b>
10 mm / 7.5 m spiral/tool set			<b>72479</b>

8



### 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



Set (No. 7.1973) includes: ROPower PROFILE Spiral 2.3 m without core (No. 7.2494), manual crank (No. 7.1976), safety gloves (No. H8.1401), separating pin (No. 7.2100), blade cutter Ø 25 mm (No. 7.2169)

Model	kg		No.
ROPOWER® HANDY complete	1.7	1	<b>71975</b>
Manual crank	0.4	1	<b>71976</b>
ROPOWER® PROFILE CABLE without plastic core	1.2	1	<b>72494</b>

### Manual Drain Cleaner Type 3 S

For pipes Ø 40 – 100 mm, Spirals Ø 13 mm x 15 m with 16 mm coupling

- **Flexible use with a wide range of applications**

For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings



Set includes (No. 7.2003): Manual drain cleaner Type 3 S (No. 7.2003), spirals Ø 13 mm x 15 m (No. 7.2016), cross-blade cutter Ø 35 mm (No. 7.2176) and separating pin (No. 7.2100)

Model	kg		No.
Manual drain cleaner Type 3 S, complete	17.50	1	<b>72003</b>
Spare spiral Ø 13 mm x 15 m	7.00	1	<b>72016</b>

### WC-BLITZ RO-3 Toilet Auger

#### Angle with plastic protection

No damage to ceramic surfaces in the visual range



- **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

Model	kg		No.
WC-BLITZ RO-3 complete with spiral	2.75	1	<b>78551</b>

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### Powerful ROTHENBERGER Portable Drain Cleaning Machines for the Professional

R 550, R 600, R 650, R 750

- Easy to transport, ideal for mobile use
- Safe and kink-free guidance of the spiral, clean use
- Stable, torsion-resistant and optimised weight
- Robust and light

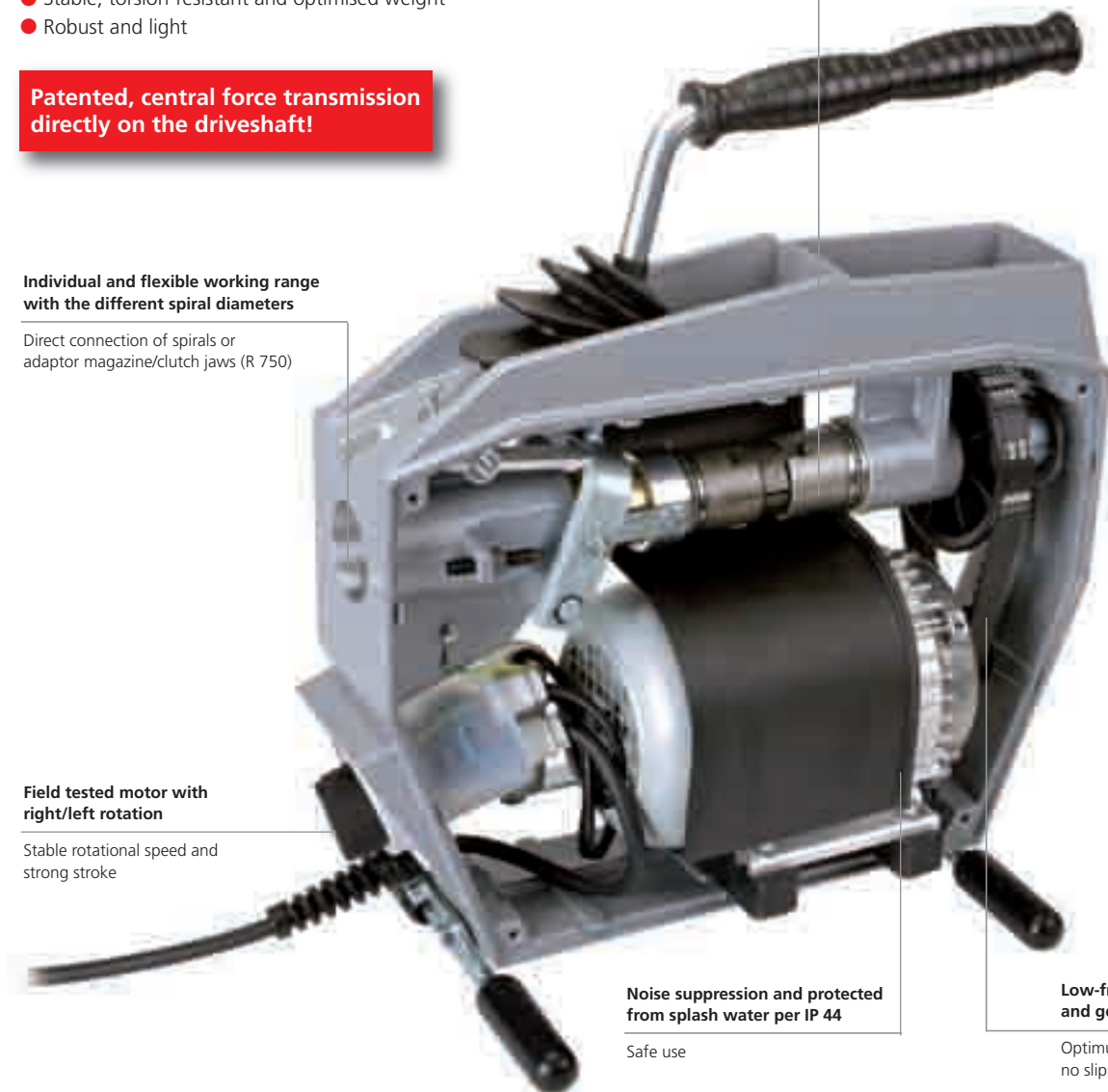
**Patented, central force transmission directly on the driveshaft!**

**Individual and flexible working range with the different spiral diameters**

Direct connection of spirals or adaptor magazine/clutch jaws (R 750)

**Field tested motor with right/left rotation**

Stable rotational speed and strong stroke



**Patented jaw clamp system  
CENTRE-LOCK**

Exceptional functional safety and central force transfer direct on the spiral (motor / spiral)

Noise suppression and protected from splash water per IP 44

Safe use

**Low-friction toothed belt and geared drive pinion**

Optimum force transmission and no slipping of the drive shaft

8



Type of pipe	Connecting pipes	Distributing main connecting pipes	Down connecting pipes	Mains pipes	Municipal pipe network
Spiral Range of use	Ø 8 mm up to DN 50	Ø 10 mm up to DN 75	Ø 16 mm up to DN 100	Ø 22 mm up to DN 150	Ø 32 mm up to DN 200
<b>R 550</b>	●	●	○	–	–
<b>R 600</b>	●	●	○	○	–
<b>R 650</b>	●	●	○	○	–
<b>R 750</b>	–	–	●	○	○

○ Direct attachment

● Adaptor magazine/collet



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 550

#### Drain cleaning machine for pipe Ø 20 - 100 mm

Reliable, high-performance drain cleaning machine that has a variety of general purpose maintenance uses



#### 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

- Extremely light
- Direct attachment of 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 40 m, with Ø 16 mm S-spiral

<b>For pipe diameters:</b>	Ø 20 - 100 mm
<b>Direct attachment:</b>	Ø 16 mm spirals
<b>With adaptor magazine:</b>	Ø 8 mm and 10 mm
<b>Max. working length:</b>	40 m with Ø 16 mm S-spirals 10 m with Ø 8 and 10 mm spirals
<b>Rating:</b>	440 W (Power input)
<b>Voltage:</b>	230 / 110 / 115 V, 50 Hz
<b>Speed:</b>	583 min <sup>-1</sup> , RH and LH drive
<b>Weight:</b>	16.0 kg

Model	kg	230 V	110/115 V
R 550 including guide hose	16.0	<b>72686</b>	
R 550 including guide hose US plug	16.0		<b>72631</b>

8



### R 600

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For installation and maintenance work in hospitals and municipal facilities



#### Universal use both indoors and outdoors:

The powerful motor works reliably even against stubborn obstructions. A wide range of accessories are available

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

<b>For pipe diameters:</b>	Ø 20 - 150 mm
<b>With direct attachment:</b>	Ø 22 and 16 mm spirals
<b>With adaptor magazine:</b>	Ø 8 and 10 mm
<b>Max. working length:</b>	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
<b>Rating:</b>	690 W (Power input)
<b>Voltage:</b>	230 / 110 / 115 V, 50 Hz
<b>Speed:</b>	467 min <sup>-1</sup> , RH and LH drive
<b>Weight:</b>	20.9 kg

Model	kg	230 V	110/115 V
R 600 including guide hose	20.9	<b>72687</b>	
R 600 including guide hose US plug	20.9		<b>72632</b>


# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

**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

- Dual motor performance (cp. R 600)\*
- Flexible with drive lever that can be fitted on the side
- Direct up-take of 22 mm and 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 65 m, with Ø 22 mm S-spiral

<b>For pipe diameters:</b>	Ø 20 - 150 mm
<b>Direct attachment:</b>	Ø 22 und 16 mm spirals
<b>With adaptor magazine:</b>	Ø 8 mm and 10 mm
<b>Max. working length:</b>	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
<b>Rating:</b>	1.350 W (Power input)
<b>Voltage:</b>	230 / 110 / 115 V, 50 Hz
<b>Speed:</b>	623 min <sup>-1</sup> , RH and LH drive
<b>Weight:</b>	22.8 kg

Model		230 V	110/115 V
R 650 including guide hose	22.8	<b>72688</b>	
R 650 including guide hose US plug	16.0		<b>72633</b>

### 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




#### Perfectly suited for the cleaning of domestic connections and main pipes:

Quiet operation and powerful cleaning action. Suitable for continuous use such as chain spinning, grinding and cutting roots

- Drive lever can be rotated (180°), locked and a handle for easy wheeling
- Direct up-take of 32 mm and 22 mm
- Optional Ø 8, 10 and 16 mm with clutch jaw possible
- Maximum working length 70 m, with Ø 22 mm S-spirals

<b>For pipe diameters:</b>	Ø 20 - 200 mm
<b>With direct attachment:</b>	Ø 32 and 22 mm spirals
<b>With clutch jaw:</b>	Ø 16 mm
<b>Max. working length:</b>	80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals 55 m with Ø 16 mm S-spirals
<b>Rating:</b>	1.400 W (Power input)
<b>Voltage:</b>	230 / 110 / 115 V, 50 Hz
<b>Speed:</b>	467 min <sup>-1</sup> , RH and LH drive
<b>Weight:</b>	33.5 kg

Model		230 V	110/115 V
R 750 including guide hose	33.5	<b>72689</b>	
R 750 including guide hose US plug	33.5		<b>72634</b>

### 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



Full rubber transport wheels

Comfortable transport, high mobility and a secure stand

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 80

One-man professional machine for pipe Ø 50 - 250 mm



- 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

**For pipe diameters:** Ø 50 - 250 mm  
**For drain cleaning spirals:** Ø 22 and 32 mm  
**Max. working length:** 80 m with Ø 32 mm S-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	<b>72585</b>

8



### R 140 B

For municipal and industrial applications Ø 100 - 600 mm



- 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

**For pipe diameters:** Ø 100 - 600 mm  
**For drain cleaning spirals:** Ø 32 mm  
**For rods:** Ø 6 mm, 3/4"  
**Max. working length:** 100 m with 32 mm-spirals  
 140 m with rod  
**Rating:** 4.8 kW (6.6 HPS), petrol engine  
**Motor:** RH / LH rotation  
**2 gear reversible drive speed:** 160 - 600 min<sup>-1</sup>  
**Weight:** 97 kg

Includes (No. 72971): R 140 (No. 72970) with rod, 25 x adaptor 3/4" (No. 78581) rod turning grip (No. 78580), tool adaptor for mounting 32 mm spirals (No. 72122), tool adaptor for 32 mm spiral rod coupling (No. H99569), rod tool adaptor (No. H99120), guide glove, left (No. 72120), guide glove, right (No. 72121), separating pin (No. 72101), funnel auger (No. 72322), straight auger (No. 72321), bulb auger (No. 72271), retrieving auger (No. 72272), spiral sawtooth cutter Ø 65 mm (No. 72747), dual spade head cutter (No. 72774), forked cutter Ø 76 new (No. 72350), forked cutter Ø 85 (No. 72781), forked cutter Ø 112 (No. 72782), tool box (No. FF60185), operating instructions (machine, motor, gears)

Model	kg	No.
R 140 B basic machine	97.0	<b>72970</b>
R 140 B with rod and tool set	108.5	<b>72971</b>



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### ROSPEED 3F

**High-performance pipe cleaning innovation for pipe  
Ø 50 - 125 mm, automatic spiral feed.  
Ideal for use inside buildings**

By return of the spiral, the pipe contamination stays in the drum unlike the case machines. That is why this unit is ideally suited use by HVAC professionals, for example, use in private homes, hospitals and clinics, gastronomy and hotels, schools and nursing homes, facility management and other public buildings

- The unit can be used immediately
- Easy and comfortable handling with the automatic feed
- Clean and discrete use
- Clear controls
- 3F – three functions in one unit:
  1. Scrubbing
  2. Pulsating
  3. Final cleaning
- Simple cleaning of the drum with, for example, a steam cleaner



**For pipe diameters:** Ø 50 - 125 mm  
**With direct attachment:** Ø 16 mm  
**Max. working length:** 15 m up to 30 m expandable  
**Rating:** 250 W  
**Speed:** 270 - 340 min<sup>-1</sup>,  
3 Step adjustable  
**Weight:** 47.5 kg



**ATC- Automatic Torque Control –  
One-of-a-kind automatic rpm  
control protects spiral and motor!**



#### Electronic display – 3F

Clear and easy control of the  
3 cleaning functions



#### Forced guidance of the spiral, parallel layer winding, remains balanced

Spiral will not twist or turn in the drum

#### Spiral control in direction of rotation, automatic feed and retraction

Optimum handling

#### Clamping mechanism with T-groove coupling

For secure lengthening or shortening  
of the spiral

**Toolbox is included in delivery**

Immediately ready-to use

#### Stainless steel grip

Easy to extend and pack  
away

#### Cleaning plug on the back side of the drum

Easy cleaning of the drum

#### With 6 professional tools to get started

- Straight Auger
- Bulb Auger
- Retrieving Auger
- Chain-spinning Head
- Cross-blade cutter, serrated
- Spiral Sawtooth Cutter

Set (No. 72960) for Standard 16 mm includes: Basic machine, straight auger (No. 72161), bulb auger (No. 72163), retrieving auger (No. 72162), chain-spinning head (No. 072185F), cross-blade cutter, serrated (No. 72176), spiral sawtooth cutter (No. 72166), separating pin (No. 72100), guide hose (No. 72540), ROWONAL spray (No. 72142), plastic carrying case

Model	kg	1	No.
ROSPEED 3F (230 V) with tool set	47.5	1	<b>72960</b>
Spiral 16 mm x 15 m with steel core	15.0	1	<b>72918</b>
ROSPEED 3F (230 V) with additional spiral and basket	62.5	1	<b>19077</b>

Included in delivery

# Flushing & Pipe Cleaning

## Pipe Cleaning Spirals

### ROTHENBERGER Lock Ring

One-of-a-kind safety ring for the optimum transmission of the torque pressure onto the coupling with 100% surface pressure

- Self locking connection of spiral and coupling:  
With increased stress on the spiral, the torque pressure on the spiral end is increased and is transferred with 100% surface coverage onto the coupling.

With Lock Ring!



- Safety ring made out of flexible and self-binding material:  
With increased stress the ring will not slide, rather because of the 100% surface pressure, it adjusts itself to positively lock onto the coupling
- Optimum force transmission for professional pipe cleaning
- Increased safety
- Increased durability / service life of the spiral



### Standard Spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends



mm	inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.0	C 8	1.05	<b>72431</b>
22	7/8"	4.5	4.5	C 10	3.98	<b>72441</b>
32	1.1/4"	4.5	5.0	C 11	6.29	<b>72451</b>

### 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



mm	inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.5	E 8	1.30	<b>72435</b>
22	7/8"	4.5	5.0	E 10	4.78	<b>72444</b>
32	1.1/4"	4.5	6.0	E 11	7.85	<b>72455</b>

8



### Spiral Guide Gloves

- For safe grasping and guiding of cleaning spirals
- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove

### Separating Pin

- For disconnecting spirals and spiral tools



Description	g	No.
Guide glove left / right	<b>1500000439</b>	
Separating Pin for spirals / tools with Ø 16 mm	20	<b>72100</b>
Separating Pin for spirals / tools with Ø 22 + 32 mm	30	<b>72101</b>
Separating Pin for spirals / tools with Ø 8 mm	15	<b>72102</b>

### Tripod Stand

- Collapsible and galvanised
- Provides an ideal working height of the drain cleaning machine, for example: Toilets
- Inspection holes in downpipes
- Spiral retrieving device



For machine type	kg	No.
R 550 - R 600 - R 650 - R 750	3.0	<b>58182</b>

### ROWONAL Care and Rust Remover



No. 72140



No. 72142



- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal and disinfection

Description	Contents	kg	No.
Spray can	0.2 l	220	<b>72142</b>
Plastic canister	5.0 l	5,100	<b>72140</b>
Manual sprayer, empty	0.5 l	90	<b>72141</b>

# 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

The most common tool for cleaning pipes and drains with tight or multiple bends



### Retrieving Auger

Special tool for retrieving objects from the pipe, e.g. textiles, spirals or tools



### Cross-blade Cutter, serrated

Special tool for opening up solidified pipe obstructions



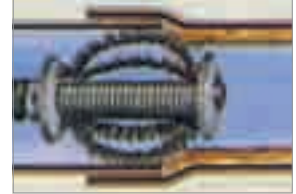
### Funnel Auger

Tool for removing, opening or retrieving obstructions caused by, e.g. textiles



### Chain-spinning Head with Spikes

For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains



### Spade Head Cutter

Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool



### Carbide-tipped Cutters

This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale, etc.



### Spiral Sawtooth Cutter

Special tool for chopping up small roots and other material that have become caught in the pipe



### Two-way Root Cutter

Special tool for cutting roots in both directions. Also suitable for solid materials








# Flushing & Pipe Cleaning

## Drain Cleaning Tools

### Straight Auger

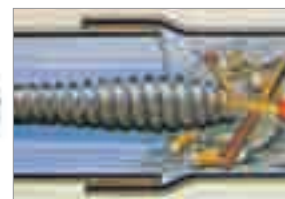
- Standard tool for establishing the nature of an obstruction
- For piercing or drilling through obstructions caused by textiles, paper, cellulose materials, kitchen refuse, etc.
- For removing samples to determine a suitable clearing tool






Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	16	110	40 - 75	60	<b>72161</b>
22 / 7/8"	22	210	75 - 100	170	<b>72221</b>
32 / 1.1/4"	32	220	100 - 250	350	<b>72321</b>

### Bulb Auger, short

- Suitable for tight pipe bends
- Standard, highly flexible tool for clearing light textile and paper obstructions






Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	28	115	40 - 75	70	<b>72163</b>
22 / 7/8"	40	180	75 - 100	220	<b>72263</b>
32 / 1.1/4"	50	220	75 - 250	490	<b>72363</b>

### Retrieving Auger

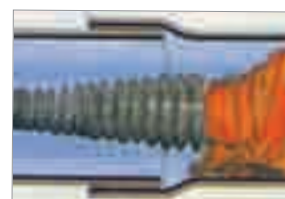
- Special tool designed with a claw for retrieving textiles, tools, spirals, etc.






Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	35	55	50 - 75	35	<b>72162</b>
22 / 7/8"	45	100	75 - 150	110	<b>72203</b>
32 / 1.1/4"	65	125	75 - 250	240	<b>72325</b>

### 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	 mm	Working range mm	 g	No.
16 / 5/8"	32	110	50 - 100	80	<b>72165</b>
22 / 7/8"	55	185	110 - 150	280	<b>72222</b>
32 / 1.1/4"	60	195	100 - 250	500	<b>72322</b>

### Spade Head Cutter

- Curved special tool for silt and sludge deposits






Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
22 / 7/8"	65	65	100 - 150	150	<b>72261</b>
32 / 1.1/4"	65	70	100 - 150	250	<b>72360</b>

### Spiral Sawtooth Cutter

- Special tool for chopping up small roots, branches and other materials
- Not suitable for plastic pipes!

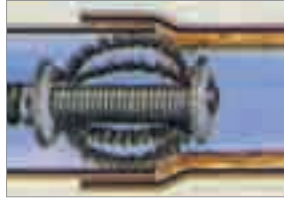


Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	35	25	50 - 75	40	<b>72166</b>
22 / 7/8"	45	40	75 - 100	100	<b>72229</b>
32 / 1.1/4"	65	55	75 - 100	210	<b>72329</b>

### Chain-spinning Heads

#### Without ring, with smooth chain

- For cleaning greasy and incrusted pipes
- Surface-preserving cleaning or ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends



Improved mobility!



#### Chain-spinning Heads without ring and without spikes

Coupling mm / inch	mm	L mm	Working range mm	g	No.
<b>Without ring, with 2 chains</b>					
16 / 5/8"	30	105	50 - 125	120	<b>072185F</b>
16 / 5/8"	30	155	100 - 125	160	<b>72185</b>
22 / 7/8"	50	170	100 - 150	530	<b>72284</b>
<b>Without ring, with 4 chains</b>					
16 / 5/8"	40	155	60 - 125	270	<b>72187</b>
22 / 7/8"	60	170	80 - 130	710	<b>72289</b>

### 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



- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK spirals!

Coupling mm / inch	mm	L mm	Working range mm	g	No.
16 / 5/8"	25	35	50 - 75	30	<b>72175</b>
16 / 5/8"	35	45	50 - 75	40	<b>72176</b>
16 / 5/8"	45	56	75 - 100	65	<b>72177</b>
16 / 5/8"	55	60	100 - 125	80	<b>72178</b>
22 / 7/8"	45	60	100 - 125	90	<b>72275</b>
22 / 7/8"	65	60	100 - 150	190	<b>72276</b>
22 / 7/8"	75	80	100 - 150	220	<b>72277</b>
32 / 1.1/4"	45	60	100 - 125	140	<b>72374</b>
32 / 1.1/4"	65	70	100 - 150	260	<b>72375</b>
32 / 1.1/4"	90	100	125 - 200	490	<b>72376</b>
32 / 1.1/4"	115	120	150 - 250	640	<b>72377</b>

### 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"	25	straight	35 - 50	70	<b>72191</b>
16 / 5/8"	30	straight	50 - 75	80	<b>72193</b>
22 / 7/8"	30	straight	50 - 75	90	<b>72291</b>
22 / 7/8"	45	pointed	60 - 100	320	<b>72295</b>
32 / 1.1/4"	45	straight	60 - 100	240	<b>72392</b>
32 / 1.1/4"	55	pointed	70 - 100	400	<b>72396</b>
32 / 1.1/4"	80	straight	100 - 200	530	<b>72398</b>

### 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	L mm	Working range mm	g	No.
22 / 7/8"	65	80	100 - 125	250	<b>72265</b>
22 / 7/8"	90	85	125 - 200	290	<b>72266</b>
32 / 1.1/4"	65	80	100 - 125	290	<b>72365</b>
32 / 1.1/4"	90	90	125 - 200	330	<b>72366</b>
32 / 1.1/4"	150	130	200 - 300	550	<b>72367</b>
Spare cutter	65	-	-	120	<b>72270</b>
Spare cutter	90	-	-	150	<b>72271</b>



# 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), PVC-case (No. 55016), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), guide glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 16 mm	with standard spirals	12.0	<b>072945X</b>

### Spiral and Tool Sets

Standard Ø 16 / 22 mm



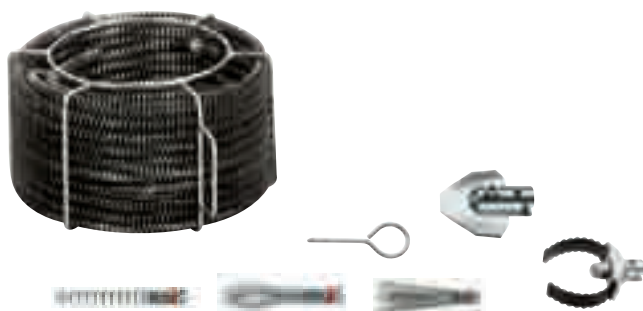
Set (No. 072956X) includes: Spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), PVC-case (No. 55016), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 16-22 mm	with standard spirals	38.0	<b>072956X</b>
SMK 16-22 mm	with SMK spirals	39.0	<b>072967X</b>

8

### Spiral and Tool Sets

Standard Ø 22 mm



Set (No. 072955X) includes: Spiral basket 22 mm (No. 72112), 5 x 22 mm standard spirals (No. 72441), PVC-case (No. 55016), straight auger 22 mm (No. 72221), bulb auger 22 mm (No. 72263), funnel auger 22 mm (No. 72222), spade head cutter 22/65 mm (No. 72261), serrated forked cutter 22/76 mm (No. 72250), separating pin 22/32 mm (No. 72101), guide glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 22 mm	with standard spirals	24.0	<b>072955X</b>

### 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), PVC-case (No. 55016), straight auger 32 mm (No. 72321), retrieving auger 32 mm (No. 72325), funnel auger 32 mm (No. 72322), spade head cutter 32/65 mm (No. 72360), spiral sawtooth cutter 32/65 mm (No. 72329), separating pin 22/32 mm (No. 72101), guide glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 32 mm	with standard spirals	37.0	<b>072962X</b>



# Flushing & Pipe Cleaning

## Drain Cleaning Tools

### Tool Set L

Ø 16 mm, 10 pieces



Set (No. 72936) includes: PVC- case (No. 55016), separating key 16 mm (No. 72100), retrieving auger 16 mm (No. 72162), bulb auger 16 mm (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 glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model	No.
16 mm Tool Set L (R 550, R 600, R 650)	<b>72936</b>

### Tool Set L

Ø 22 mm, 11 pieces



Set (No. 72938) includes: PVC-case (No. 55016), separating key 22 mm (No. 72101), retrieving auger 16 mm (No. 72203), serrated forked cutter 22 mm (No. 72250), spade head cutter 22/65 mm (No. 72261), bulb auger 22 mm (No. 72263), two-way root cutter 22/65 mm (No. 72265), cross-blade cutter 22/65 mm (No. 72276), chain-spinning head 22 mm with 2 smooth chains (No. 72284), guide glove, left /right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Model	No.
22 mm Tool Set L (R 600, R 650, R 750)	<b>72938</b>

### Tool Set L

Ø 32 mm, 11 pieces



Set (No. 72940) includes: PVC-case (No. 55016), separating key 22 mm (No. 72101), retrieving auger 32 mm (No. 72325), serrated forked cutter 32 mm (No. 72350), bulb auger 32 mm (No. 72363), two-way root cutter 32/90 mm (No. 72366), cross-blade cutter 32/45 mm (No. 72374), cross-blade cutter 32/90 mm (No. 72376), chain-spinning heads 32 mm with 2 chains with spikes (No. 72347), guide glove, left /right (No. 1500000439) ROWONAL spiral spray (No. 72142)

Model	No.
32 mm Tool Set L (R 750)	<b>72940</b>

### Spiral Sets

5 x 16 mm spiral in basket, 5 x 22 mm spiral in basket  
4 x 32 mm spiral in basket



### 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)	<b>72937</b>

### 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)	<b>72939</b>

### Tool Set S

Ø 32 mm, 4 pieces



Set (No. 72941) includes: Separating key 22 mm (No. 72101), straight auger 32 mm (No. 72321), bulb auger 32 mm (No. 72363), cross-blade cutter 32 mm (No. 72375)

Model	No.
32 mm Tool Set S (R 750)	<b>72941</b>

Model	R 550	R 600	R 650	R 750		No.
16 mm Standard	○	○	○	●	1	<b>72060</b>
16 mm SMK	○	○	○	●	1	<b>72061</b>
16 mm S	○	○	○	●	1	<b>72062</b>
16 mm S-SMK	○	○	○	●	1	<b>72063</b>
22 mm Standard	-	○	○	○	1	<b>72040</b>
22 mm SMK	-	○	○	○	1	<b>72041</b>
22 mm S	-	○	○	○	1	<b>72042</b>
22 mm S-SMK	-	○	○	○	1	<b>72043</b>
32 mm Standard	-	-	-	○	1	<b>72530</b>
32 mm SMK	-	-	-	○	1	<b>72531</b>
32 mm S	-	-	-	○	1	<b>72532</b>
32 mm S-SMK	-	-	-	○	1	<b>72533</b>

○ = direct attachment ● = with clutch jaw



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### High-Pressure Drain Cleaner

High-quality professional unit Ø 40 – 200 mm working range

- Wide range of high-pressure cleaners for professional use. High-quality components and an optimum ratio between power density and operating pressure guarantees reliable operation and effective cleaning
- For cleaning pipes, drains, rainwater downpipes, domestic connections, cleaning work in sewers as well as surface cleaning of vehicles, machines, buildings and floor tiles
- High-performance, self-priming compact unit

**Continuous pressure regulation:**

Pump with 3 ceramic plungers running in an oil bath, run-dry protection, stainless steel valves, brass pump housing, leakage return flow, pressure gauge with bar/psi scale, self priming up to 2 m

**With integrated suction injector (all versions):**

External supply of cleaning agents

**High operational safety:** No damage to the high-pressure seal

**HD 11 / 90 for pipe:** Ø 40 - 150 mm, max. 20 m

**HD 13 / 100 for pipe:** Ø 40 - 150 mm, max. 20 m

**HD 17 / 190 for pipe:** Ø 40 - 200 mm, max. 40 m

**HD 19 / 180B for pipe:** Ø 40 - 150 mm, max. 40 m

#### HD 11/90

Self-priming compact unit from  
Ø 40 – 150 mm up to 20 m length



Ø 150 mm!



- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

**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 min<sup>-1</sup>

Scope of delivery: HD 11 / 90 (No. 76008), 10 m special high-pressure hose with couplings (No. 72810) and pipe cleaning nozzle (No. 76053)

Model  230 V / 50 Hz

High-pressure pipe cleaning unit HD 11 / 90 29.5 **76008**

#### HD 13/100

100 bar high-pressure pipe  
cleaning unit with hose reel



Ø 150 mm!



- Air-filled transport wheels, easy to navigate stairs
- AC supplied, self-priming up to 2 m

**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 min<sup>-1</sup>

Scope of delivery: HD 13 / 100 (No. 76020), hose reel with 20 m special high-pressure hose (No. 72812) with couplings and pipe cleaning nozzle (No. 76089)

Model  230 V / 50 Hz

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



- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

**Max. operating pressure:** 190 bar **Electric motor:** Three phase  
**Pump delivery:** 17 l/min **Rating:** 5.0 kW  
**Max. working length:** 40 m **Speed:** 2,800 min<sup>-1</sup>

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	<b>76070</b>

### HD 19 / 180 B

180 bar high-pressure cleaner  
with petrol motor

Ø 200 mm



Petrol engine!

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

**Max. operating pressure:** 180 bar **Rating:** 8.1 kW  
**Pump delivery:** 19 l/min **Speed:** 1,800 min<sup>-1</sup>  
**Max. working length:** 40 m **Petrol engine:** Honda  
**Tank capacity:** 6,5 l **Consumption:** 3.2 l/h

Scope of delivery: HD 19 / 180B (No. 76090), hose reel with 40 m special high-pressure hose DN 8 with couplings (No. 72820) and pipe cleaning nozzle (No. 76053)

Model	kg	No.
High-pressure pipe cleaning unit HD 19 / 180 B	78.5	<b>76090</b>

8



### Accessories HD 11/90



Model	kg	No.
Flexible, high-pressure hose with R 1/4" coupling, DN 6		
Length 10 m	2.50	<b>72810</b>
Length 20 m	4.50	<b>72812</b>
Pipe cleaning nozzle, R1/4", stainless steel	0.04	<b>76053</b>
excl. forward jet spray, 4 holes, Ø 25 x 22 mm		
incl. forward jet spray, 5 hole, Ø 25 x 22 mm	0.04	<b>76063</b>
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	<b>77503</b>
Cleaning lance with wide-angle nozzle	1.30	<b>76073</b>
for surface cleaning		
Spare wide-angle nozzle	0.01	<b>76082</b>
Injector suction pipe for cleaning agent, only for use with cleaning lance, length 1.2 m	0.05	<b>76067</b>
Water suction hose	0.20	<b>76066</b>
for intake from containers, length 3.0 m		

### 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	<b>72810</b>
Length 20 m, NW 6 (HD 13/100, HD 17/190)	4.50	<b>72812</b>
Length 40 m, NW 8 (HD 17/190, HD 19/180 B)	10.70	<b>72820</b>
Pipe cleaning nozzles R1/4", stainless steel	0.04	<b>76089</b>
excl. forward jet spray, 4 hole, Ø 25 x 22 mm		
incl. forward jet spray, 5 holes, Ø 25 x 22 mm	0.04	<b>76065</b>
Rotary nozzle 45°, 4 holes, Ø 16 x 30 mm	0.08	<b>77506</b>
Cleaning lance with wide-angle nozzle	1.30	<b>76068</b>
for surface cleaning		
Spare wide-angle nozzle	0.01	<b>76088</b>
Injector suction pipe for cleaning agent, only for use with cleaning lance, length 1.2 m	0.05	<b>76067</b>
Water suction hose, length 3.0 m	0.20	<b>76066</b>
for intake from containers		



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### ROJET® 40/100

High-pressure cleaning unit for pipes Ø 40 - 200 mm



<b>Main frame:</b>	Profiled steel, hot-galvanised
<b>Engine:</b>	4-stroke petrol engine, 1 cylinder air cooled, electric starter, automatic speed control, rating 9.5kw (13HP), Normal fuel
<b>Pump:</b>	3-plunger type, delivery 40l/min at 100 bar
<b>Starter battery:</b>	12 Volt/36 Ah
<b>Water tank:</b>	Plastic, 200 Liter
<b>Fuel tank:</b>	6 litre
<b>High-pressure reel:</b>	Handwheel, hinge
<b>High-pressure hose:</b>	DN 12, length 50 m, coupling R1/2"
<b>Dimensions:</b>	1,200 x 1,000 x 700 mm (L x B x H)
<b>Weight:</b>	approx. 200 kg
<b>Equipment:</b>	Water filter, glycerine pressure gauge, pressure switch valve, safety valve, standard nozzle, anti-freeze suction

Model	kg	No.
ROJET 40/100	200	<b>76100</b>
Nozzle set 40/100	6.5	<b>76462</b>
includes: nozzle holder (No. 76309), standard nozzle with forward jetting (No. 77602), grenade nozzle (No. 77632), rotary nozzle (No. 77622), flat nozzle (No. 77642), 3-sided Quattro nozzle (No. 77612)		

### ROJET® 130/160

High-pressure drain cleaning unit for professional use



<b>Main frame:</b>	Profiled steel, hot-galvanised, partially coated
<b>Engine:</b>	Diesel engine, 4-cylinder, water cooled, turbocharger, automatic speed control, rating 44 KW (60 HP)
<b>Pump:</b>	3-plunger pump, delivery 128 l/min at 160 bar
<b>Starter battery:</b>	12 Volt/36 Ah
<b>Large High-pressure reel:</b>	Hydraulic drive, continuously adjustable with HD hose DN 19, length 80 meters
<b>Small High-pressure reel:</b>	Hydraulic drive, continuously adjustable with HD hose DN 12, length 80 meters
<b>Filling reel:</b>	Manual operation, with filling hose DN19, length 50 meters
<b>Water tank:</b>	Plastic, 800 l. Other sizes available
<b>Fuel tank:</b>	Capacity 27 litre
<b>Dimensions:</b>	2,300 x 1,400 x 1,360 mm (L x W x H). Suitable for the Mercedes Sprinter and similar vehicles
<b>Weight:</b>	approx. 900 kg
<b>Equipment:</b>	Run-dry protection, water filter, water level indicator, glycerine pressure gauge, safety valve with unloader function, C-connector, anti-freeze exhaust, pressure switch lever, 2 standard nozzles, control box with control lights, ignition lock, operating hour counter and fuel gauge

Model	kg	No.
ROJET 130/160	900	<b>76485</b>

### ROJET® 30/130

High-pressure cleaning unit for pipes from Ø 40 - 200 mm



Model	kg	No.
ROJET 30/130 basic unit without trailer	200	<b>76301</b>
ROJET 30/130 basic unit with trailer	290	<b>76300</b>
Nozzle set 30 / 130	6.5	<b>76462</b>
Includes: Nozzle holder (No. 76309), standard nozzle with forward jetting (No. 77601), grenade nozzle (No. 77631), 3-sided Quattro nozzle (No. 77611)		

<b>Motor:</b>	Tough 4-stroke petrol engine, 1 cylinder, air-cooled, E-Start, rating 9.5 KW (13 HP), normal petrol
<b>Starter battery:</b>	12 Volt, 36 Ah
<b>High-pressure pump:</b>	3-plunger pump, delivery 30 l/min - 130 bar
<b>Water tank:</b>	Plastic, contains 200 litre
<b>High-pressure reel:</b>	Stainless steel reel, rotatable water coupling, manual operation
<b>Filling reel:</b>	Stainless steel reel, rotatable water coupling, manual operation
<b>High-pressure hose:</b>	DN 12, length 50 m (R 1/2" coupling)
<b>Filling hose:</b>	DN 19, length 50 m (R 1/2" coupling)
<b>Included in delivery:</b>	High-performance nozzle 1/2"
<b>Trailer:</b>	Break-free box trailer
<b>Covering:</b>	Tarpaulin and frame, height 800 mm
<b>Overall-dimensions:</b>	2,520 x 1,480 x 1,700 mm (L x W x H)
<b>Gross vehicle weight</b>	550 kg
<b>Included in delivery:</b>	1 parking stand

ROCUT® 110 / ROCUT® 160

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

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

- 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
- 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

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



Integrated internal deburrer  
is stored in the handle

Always on hand



ROCUT® 110 with cutter blade  
(No. 54950) (special accessories)



Model	 mm	 kg	No.
ROCUT® 110 set	50, 75, 110	3.9	<b>55035</b>
ROCUT® 110 set for sound-insulated pipes	58, 78, 110	3.9	<b>55037</b>
ROCUT® 160 set	110, 125, 160	5.6	<b>55063</b>

EASYGRIP

Automatic strap wrench for plastic pipes  
Ø 20 - 160 mm (3/4 - 6")

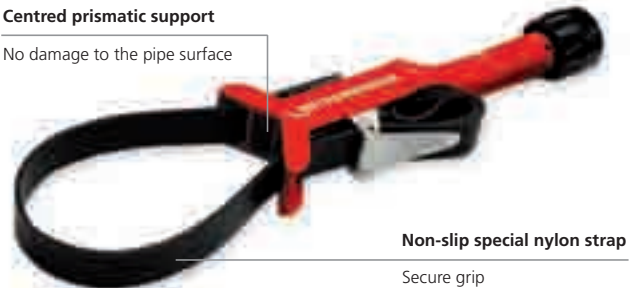
The indispensable tool for socket welding large diameter plastic pipes

- 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



Non-slip special nylon strap  
Secure grip

Model	 mm	 inch	 kg	No.
EASYGRIP	20-160	3/4"	1.0	<b>55075</b>
Spare strap EASYGRIP			0.1	<b>55076</b>



Plastic Pipe Chamfering Unit

With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe

- Flexible in use
- Wall thickness is continuously adjustable



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

# Plastic Pipe Welding

## Cutting Electric / Socket Welding

### ROCUT® UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm

For cutting of plastic pipes made of PE, PP and PVC

For use on the building site or in the workshop

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

**Voltage:** 230 V 50 / 60 Hz  
**Power:** 1,750 W  
**Outer pipe diameters:** 160 mm - 355 mm  
**Smin.:** 8 mm  
**Smax.:** 40 mm



Saw blade guard

Safe operation

Central clamping

Optimum pipe centring

Powerful 1,750 W motor  
with high cutting speed

Time-saving and efficient operation

Wide, rubberised guide rollers

Right-angled cuts with no misalignment

Four rubberised guide rollers  
ensure right-angled cuts with  
no misalignment



Model	kg	No.
ROCUT® UKS 160 / 355, complete with HM saw blade (No. 55505), without transport box	12.9	1000000532
Spare HM saw blade 180 x 30 mm with spacer	0.6	55505
Transport box 700 x 350 x 500 mm	16.8	1200000526

### ROWELD® HE Heating Plates

Heating plates for butt welding of PE, PP, PVDF and PB pipes and fittings with Ø 20 - 250 mm

Plastic pipe heating plates for free-handed working or workbench assembly using table mounting clamp

- Long service life and manufactured according to DVS regulations



- Process reliability with the temperature control according to DVS, CEN and ISO standards
- Electronic temperature control and monitoring as well as prevention against unintentional temperature adjustment
- Save time and money with quick-exchange system for heating plates

Power Watts	Heatingplate 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
Carrying case for Ø 200 mm heating plate			2.80	55525	55525
Carrying case for Ø 300 mm heating plate			5.90	55528	55528



### ROWELD® P 63 S-6 Sword

#### Socket welding unit Ø 20 - 63 mm

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

- 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



**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



P-63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws and supporting stand in plastic carrying case

Model	Power Working range Ø mm	Control 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	053889X
P 63 S-6 set	20, 25, 32	800	electronically	4.30	053890X	053886X
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	053891X	053887X
P 63 S-6 single unit		800	thermostatic	1.78	053897X	
P 63 S-6 single unit		800	electronically	1.78	053896X	

### ROWELD® P 125 Set (Form A)

In carrying case with socket welding unit (1,300 Watts), heating spigots and sockets, adaptor plate (1 set = 2 plates), allen key size 5, cylinder screws, socket pin, table clamp and floor stand

- 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

#### 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

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp

#### Heating Spigots / Heating Sockets

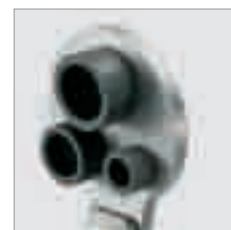
Model	kg	No.	Model	kg	No.
16	0.06	55585	40	0.26	55592
17	0.06	55586	50	0.37	55593
18	0.08	55587	63	0.60	55594
19	0.08	55588	75	0.89	55595
20	0.08	55589	90	1.33	55596
25	0.10	55590	110	2.07	55597
32	0.17	55591	125	2.33	55598



Adaptor plate



Heating spigots / 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

# Plastic Pipe Welding

## Hot Gas / Electro-Fusion Welding

### ROWELD® Quick S / WG 1600 E

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

- 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



No. 55760

Model	kg	230 V 50 / 60 Hz
ROWELD® Quick S complete with 5 mm tubular nozzle (No. 55769)	1.4	<b>55760</b>

- 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)

**Air requirement:** 80 - 250 l / min  
We recommend the air compressor V 26, (No. 53378) for the WG 1600 E

**Heating element:** heating element with electronic temperature control



No. 55780

Model	g	230 V 50 / 60 Hz
ROWELD® WG 1600 E complete with 5 mm tubular nozzle (No. 55769)	700	<b>55780</b>

### ROWELD® ROFUSE

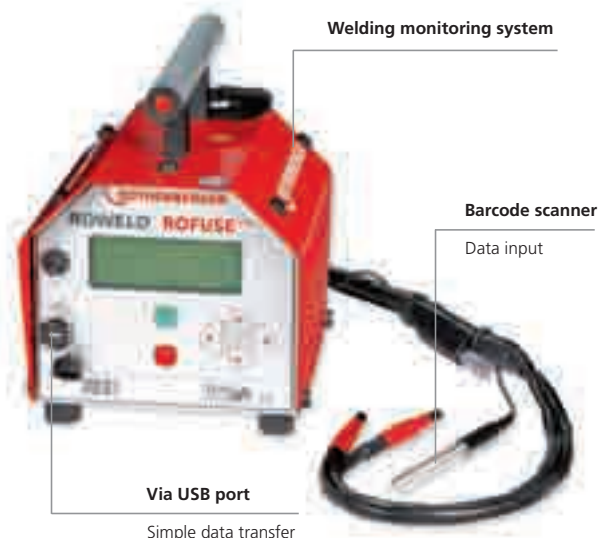
#### Universal electro-fusion welding unit Ø 630 mm

For PE- and PP fittings from < 48 V, up to Ø 710 mm

- Data input with the barcode scanner is possible with all ROFUSE units. With ROFUSE+, ROFUSE Print+ and ROFUSE basic 48V, manual data input is also possible
- Simple data transfer via USB port
- Welding monitoring system
- **ROWELD® ROFUSE / ROFUSE+**
- Display 4 x 20, characters with 5 mm font size and LED illumination

**Input voltage:** 230 V

**Tolerance:** 186 V - 290 V  
**Frequency:** 40 Hz - 70 Hz  
**Output voltage:** 8 V - 48 V  
**Protection rating:** IP 54  
**Temperature range:** -20 °C up to + 60 °C  
**Weight:** 16.5 kg  
**Dimensions:** 230 x 295 x 330 mm  
**Barcode scanner:** Yes  
**Logging:** **ROFUSE/ROFUSE+:** No  
**ROFUSE 48 V basic:** 500 records  
**ROFUSE Print+:** 1,800 records



#### ROWELD® ROFUSE Print+:

- Automatic logging for 1,800 welds
- Tracing form: Commission No., ISO welder code, pipe code, 2 fittings code and additional data
- Data output over the print menu via USB port to PC and printer
- Display 4 x 20 characters with 9 mm font size and LED illumination

< 48 V Fitting



Connection to welding machine



Completed joint



Model	kg	No.
ROWELD® ROFUSE	16.5	<b>54051</b>
ROWELD® ROFUSE+	16.5	<b>54052</b>
ROWELD® ROFUSE 48 V basic	16.0	<b>54130</b>
ROWELD® ROFUSE Print+	16.5	<b>054053-M</b>

Language: -M= DE, P, ES, RU, PL

Model	kg	No.
Adaptor set FF rund 4.0	0.1	<b>54058</b>
Adaptor set Pin	0.1	<b>54059</b>
ROWELD® ROFUSE Print+ DATA Memory	0.3	<b>54067</b>
Adaptor set FF flat	0.1	<b>54057</b>
Aluminium transport case	3.1	<b>54054</b>
ROWELD® ROFUSE Print+ PC-Software for Win9X / 2000 / XP / Vista / Win 7	0.4	<b>54056</b>

### ROWELD® P 160 SANILINE / P 5 Sanline

#### Plastic sanitary pipe welding machine from Ø 40 - 160 mm

For butt welding of PP, PB and PVDF pipes and fittings, especially suitable for 45° branches and tight elbows. For use on building sites or in the workshop

- Versatile for difficult situations with the removable heating plates
- Secure clamping of pipes, fittings, tight 45° branches and 90° elbows
- Protects against unintentional starting and derailing of the trimmer unit
- Precise pressure adjustment
- Minimum drag force
- 40% higher stability with simultaneously optimised force distribution
- All common sanitary installation fittings can be clamped

<b>Pipe diameter:</b>	Ø 40 - 110 mm	(SDR 41 - 7.25)
	Ø 40 - 140 mm	(SDR 41 - 11)
	Ø 40 - 160 mm	(SDR 41 - 17.6)
<b>Weight:</b>	34.4 kg	
<b>Heating plate:</b>	800 W	
<b>Trimmer unit:</b>	1,050 W	



Scope of delivery (No. 54000/54001): Basic unit with electric trimmer, electrically adjustable heating element, removable. Basic clamping set right and left Ø 160 mm (No. 54082), pipe support Ø 160 mm, reducer clamp and support set for Ø 40, 50, 63, 75, 90, 110 and 125 mm in case (No. 54020), installation tools, mobile work and transport frame (No. 54015)

Model	Working range Ø mm / inch	Temperature control	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD® P 160 SANILINE complete	40, 50, 63, 75, 90, 110, 125, 160	electronically	57.4	<b>54000</b>	<b>54001</b>
ROWELD® P 160 SANILINE special edition	40, 50, 63, 75, 90, 110, 125, 160	electronically	61.2	<b>54004</b>	
ROWELD® P 5 SANILINE	1.1/4" - 5"	electronically	61.2	<b>54002</b>	

### ROWELD® P 250 A

#### Plastic pipe welding machine Ø 40 - 250 mm

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

- Versatile for difficult situations with the removable heating plate
- 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
- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

<b>Pipe diameter:</b>	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)
<b>Weight:</b>	36.4 kg	
<b>Trimmer unit:</b>	1,200 W	
<b>Heating plate:</b>	1,500 W	



Scope of deliver (No. 55795 / 55796) Basic machine with electric trimmer unit, holder for heating plate, electrically 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

Model	Working range Ø mm	Temperature control	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD® P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250	electronically	131.0	<b>55795</b>	<b>55796</b>
ROWELD® P 250 A basic machine	250	electronically	36.1	<b>55768</b>	<b>55738</b>



# Plastic Pipe Welding

## Overview Hydraulic System

### ROWELD® Hydraulic Control System for Heating Plate-Butt Welding Machines

The ROWELD® hydraulic unit is available in the basic version **ECO** and **Professional**. The Premium units are divided into the performance categories **Premium** and **Premium CNC**.

	ECO	Professional	Premium Plus	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® ECO

Especially for use outside of the high-pressure pipe line, with continuously adjustable working pressure and a constant welding pressure during the welding cycle.



#### ROWELD® Professional

Worldwide trusted technology as a sturdy professional device for high-performance welding. Easy, self-explanatory operation with continuously adjustable working pressure and pressure hold function.



#### ROWELD® Premium Plus

With this unit, quick and precise welding parameters are recorded and saved, in accordance with DVS, as well as other international standards, guidelines or requirements.



#### ROWELD® Premium CNC

The electric-hydraulic control of **ROWELD® Premium**, plus the logging systems of **ROWELD® DATALINE 2.0**, plus a position sensor system results in the **ROWELD® Premium CNC** control system for exact control and compliance of welding parameters in accordance with set specifications

Depending on the customers wishes and the desired ROWELD® butt-welding system, the **ROWELD® Premium CNC** unit can be used in both fully-automatic machines with automatic ejecting heating plates and semi-automatic machines with manual release heating plates according to an acoustic signal



# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 250 B / ROWELD® P 8 B

Compact Butt Welding Unit Ø 90 - 250 mm / 3 - 8"

SDR 41 - 7,4

For use at the building-site, in pipe trenches, on pipeline bridges and in the workshop. For welding of pipes and fittings in all pressure ranges (SDR 41 - 7.4) made of PE, PP and PVDF. The ROWELD® plastic pipe welding machines are especially recommended for use in welding thick-walled pipes

- 30% reduced friction force (high-tech slide unit)
- Extra rigid, separate carrying frame
- Simple welding of fittings without refitting or loss of stability
- Quickly exchangeable reducing clamp inserts

Pipe diameter: Ø 90 - 250 mm / 3 - 8" (SDR 41 - 7,4)

Basic unit weight: 59,0 kg



Model	Working range Ø mm / inch	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD® P 250 B ECO Set; without reducer clamping inserts"	250 mm	55847	
ROWELD® P 250 B Professional Set; without reducer clamp inserts	250 mm	55819	
ROWELD® P 250 B Premium Set, without reducer clamp inserts	250 mm	1000000559	
ROWELD® P 250 B Premium CNC SA Set, without reducer clamp inserts	250 mm	1000000560	
ROWELD® P 250 B Premium CNC VA Set, without reducer clamp inserts	250 mm	1000000561	
ROWELD® Red.Clamp.Insert-Set f. P 250 B, 90 - 225 mm	90 - 225 mm	55241	55241
ROWELD® P 8 B Professional Set incl. reducer clamp inserts	3 - 8"	55150	55101

### ROWELD® P 355 B

Compact Butt Welding Unit Ø 160 - 355 mm  
(Ø 90 - 140 mm Supplementary)

SDR 41 - 7,4

For use at the building-site, in pipe trenches, on pipeline bridges and in the workshop. For welding of pipes and fittings in all pressure ranges (SDR 41 - 7.4) made of PE, PP and PVDF. The ROWELD® plastic pipe welding machines are especially recommended for use in welding thick-walled pipes

- Extra rigid frame
- Simple welding of fittings without refitting or loss of stability
- Quickly exchangeable reducing clamp insert



ROWELD® P 355 B

Pipe diameter: Ø 90 - 315 mm (SDR 41 - 7,4)  
Ø 90 - 355 mm (SDR 41 - 11)

Basic unit weight: 56,4 kg

Model	Working range Ø mm / inch	230 V 50/60 Hz
ROWELD® P 355 B Professional Set, without reducer clamp inserts	355 mm	1000000383
ROWELD® Red.Clamp.Insert-Set f. P 355 B, 160 - 315mm	160 - 315 mm	1000000385
ROWELD® Red.Clamp.Insert-Set Supplementf. P 355 B, 90 -140 mm	90 - 140 mm	1000000550

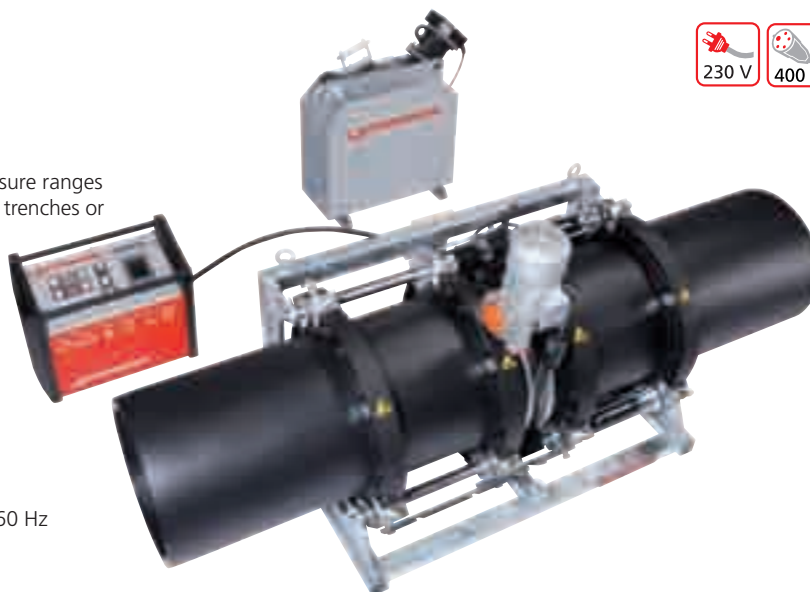
# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 500 B / ROWELD® P 18 B

#### Heating plate butt welding machine Ø 200 - 500 mm / 8 - 18"

Butt welding of PE and PP pipes and fittings in all pressure ranges and for all SDR series. For use on building sites, in pipe trenches or in the workshop



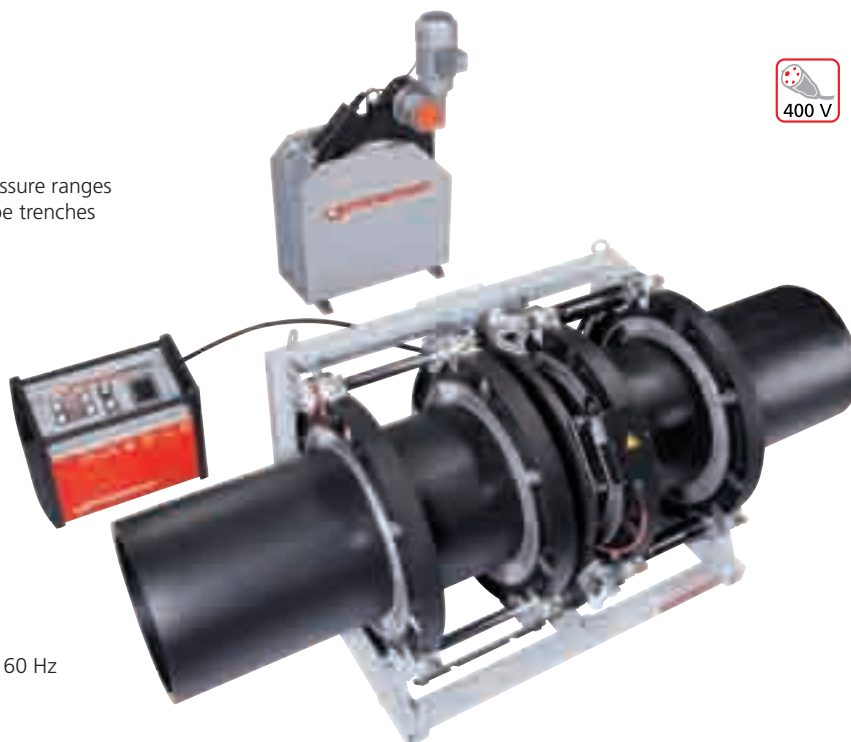
**Trimmer unit:** 1,200 W, 400 V 50 / 60 Hz  
**Hoist (optional):** 450 W, 400 V 50 / 60 Hz  
**Hydraulic unit:** 1.1 kW (0 - 135 bar) 230 V 50 / 60 Hz  
**Heating plate:** 4,000 W, 400 V 50 / 60 Hz

Model	Working range Ø mm / inch	230 V 50/60 Hz	400 V 50/60 Hz
ROWELD® P 500 B Professional Set, without reducer clamp inserts	500 mm	53425	53415
ROWELD® P 500 B Premium Set, without reducer clamp inserts	500 mm		1000000564
ROWELD® P 500 B Premium CNC Set, without reducer clamp inserts	500 mm		1000000565
ROWELD® Red.Clamp.Insert-Set f. P 500 B, 200 - 450 mm	200 - 500 mm	55234	55234
ROWELD® P 18 B Professional Set incl. reducer clamp inserts	8 - 18"		53402
ROWELD® P 500 B Electr. Hoist		53410	53410

### ROWELD® P 630 B / ROWELD® P 24 B

#### Heating plate butt welding machine Ø 315 - 630 mm / 12 - 24"

Butt welding of PE and PP pipes and fittings in all pressure ranges and for all SDR series. For use on building sites, in pipe trenches or in the workshop



**Trimmer unit:** 1,100 W, 400 V 50 / 60 Hz  
**Hoist (optional):** 450 W, 230 V 50 / 60 Hz  
**Hydraulic unit:** 1.1 kW (4 - 135 bar) 400 V 50 / 60 Hz  
**Heating plate:** 8,000 W, 400 V 50 / 60 Hz

Model	Working range Ø mm / inch	400 V 50/60 Hz
ROWELD® P 630 B Professional Set, without reducer clamp inserts	630 mm	53355
ROWELD® P 630 B Premium Set, without reducer clamp inserts	630 mm	53356
ROWELD® P 630 B Premium CNC Set, without reducer clamp inserts	630 mm	54790
ROWELD® Red.Clamp.Insert-Set f. P 500 B, 315 - 630 mm	315 - 630 mm	55232
ROWELD® P 24 B Professional Set incl. reducer clamp inserts	12 - 24"	53302
ROWELD® P 630 B Electr. Hoist		53323





# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 800 B / P 1200 B

Heating plate butt welding machines Ø 500 - 1,200 mm

For welding of plastic pipes. For use on building sites and in the workshop

From Ø 500 - 800 mm (P 800 B)

From Ø 710 - 1,200 mm (P 1200 B)



#### P 800 B

**Trimmer unit:** 3,000 W, 400 V 50 / 60 Hz  
**Hydraulic unit:** 1,500 W, (4 - 135 bar), 400 V, 50 / 60 Hz  
**Heating plate:** 12,000 W, 400 V 50 / 60 Hz  
**Weight:** 1,550 kg

#### P 1200 B

**Trimmer unit:** 3,000 W, 400 V 50 / 60 Hz  
**Hydraulic unit:** 1,500 W, (4 - 135 bar), 400 V, 50 / 60 Hz  
**Heating plate:** 22,000 W, 400 V 50 / 60 Hz  
**Weight:** 1,906 kg



Electric hoist optional

Lifting out of the heating plate and the trimmer unit

Adjustable 3. main clamps

Joining of elbows, T-pieces and V-type fittings possible

Light and sturdy basic machine

Welding of pipes in shafts possible

Compact design

For use directly in trench

Fig. ROWELD® P 1200 B

Model	Working range Ø mm	400 V 50/60 Hz
ROWELD® P 800 B complete horizontal	500 - 800 mm	54170
ROWELD® P 800 B Electr. hoist		54176
ROWELD® P 1200 B complete	710 - 1200 mm	54254
ROWELD® P 1200 B Basic; without reducer clamp inserts	1200 mm	54274
ROWELD® P 1200 B Electr. hoist	1200 mm	54253

# Plastic Pipe Welding

## Heating Plate Butt Welding

### ROWELD® P 315 W / P 315 W CNC

Heating plate butt welding machine Ø 90 - 315 mm



Fig. ROWELD® P 315 W CNC

- 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

**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

Model	Working range Ø mm	400 V 50/60 Hz
ROWELD® P 315 W complete, incl. reducer clamp inserts	90 - 315 mm	<b>54800</b>
ROWELD® P 315 W Basic, without reducer clamp inserts	315 mm	<b>55200</b>
ROWELD® P 315 W CNC complete, incl. reducer clamp inserts	90 - 315 mm	<b>55320</b>
ROWELD® P 315 W CNC Basic, without reducer clamp inserts	315 mm	<b>55340</b>

### ROWELD® P 630 W

Plastic pipe welding machine Ø 315 - 630 mm

For plastic pipe welding of PE and PP pipes. All pressure ranges and SDR series



**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

- 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, etal. 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

**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



Model	Working range Ø mm	400 V 50/60 Hz
ROWELD® P 630 W complete, incl. reducer clamp inserts	315 - 630 mm	<b>54215</b>
ROWELD® P 630 W Basic, without reducer clamp inserts	630 mm	<b>54200</b>



ROWELD® Plastic Pipe Band Saw

Especially stable band saw for the workshop, for exact, angle-correct cutting of PE, PP, PB, PVDF and PVC pipes, fittings and profiles from 50 - 1,600 mm. Ideal for single or series production of elbows and t-pieces in continuous operation

Sturdy band saw for workshop use for sawing plastic pipes sections and profiled materials. The main saw arm can be swivelled from 0 - 45° for angled cutting and the arm is lowered hydraulically with an automatic blade stop at the final cutting position with „ PLUS“-Version. Ideal for producing segmented bends and t-piece sections. For precise and perfectly angled sawing of PE-, PP-, PVDF-, PVC-pipes, -fittins and profiles.



Fig. ROWELD® BS 450



Fig. ROWELD® BS 630 PLUS / BS 800 PLUS



Fig. ROWELD® BS 1200 PLUS

Model	Working range Ø mm	230 V	400 V
		50/60 Hz	50/60 Hz
ROWELD® BS 450	50 - 450 mm		55603
ROWELD® BS 630 PLUS	200 - 630 mm		55607
ROWELD® BS 800 PLUS	400 - 800 mm		55608
ROWELD® BS 1200 PLUS	400 - 1200 mm		55609

Service, Maintenance and Repair

ROTHENBERGER offers with the ROWELD® Program, a plastic welding technology program of the highest quality. With our "After Sales Service" we offer you an optimum program to help you maintain the quality, availability and safety of our products. With the expansion of our service network, we are able to guarantee you fast, reliable and efficient machine maintenance and/or repair.

Training

- We offer welding courses at our training centre as well as on-site at your convenience
- Service seminars are presented at our service centre in Hessisch-Lichtenau

Spare Part Service

Our spare part service is available for all ROTHENBERGER ROWELD® machines.

We make every effort to send you your spare part within 24 hours with our express service.

Please send your spare part request with the following information:

- Machine model
- Serial No.
- Year of production
- Description of spare part
- Spare part No.

to our spare part fax No. +49 (0) 5602 9394 - 636

For futher informationen visit:  
[www.roweld-rothenberger.com](http://www.roweld-rothenberger.com)



# Refrigeration & Air-Conditioning Technology

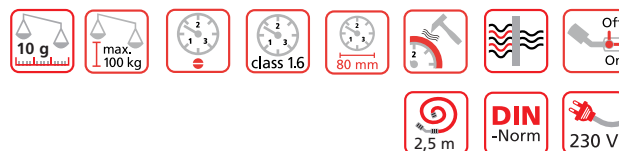
## All-in-one-Sets

### ROKLIMA® MULTI 4F

#### Fully automatic commissioning and maintenance of air-conditioning units and heat pumps

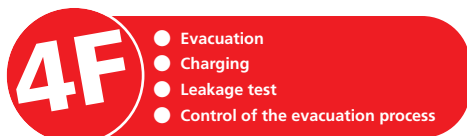
The innovative unit enables safe and comfortable operation on refrigeration systems. With simple menu navigation, **4 functions (4F)** are automatically controlled

- 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 makes time for parallel work
- Safe transport



R410A R22 R134A R407C R404A

**Weight:** 17 kg  
**Final Vacuum:**  $1 \times 10^{-2}$  mbar  
**Scale range:** up to 100 kg  
**Resolution:** 10 g  
**Pressure hose length:** 2.500 mm  
**Delivery rate:** 42 l / min



**Interactive 16-digit display with 4 function buttons**

All required parameters can be easily entered

**Sturdy, compact metal casing**

Protects all components such as vacuum pump and scale

**3 different pressure gauges "Pulse-free", class 1.6, 80 mm**

Universal use on air-conditioning units with all common refrigerants

**Integrated high vacuum pump with 42 l/min suction performance**

For evacuation of the system in accordance with DIN 8975

**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 cut-off plug

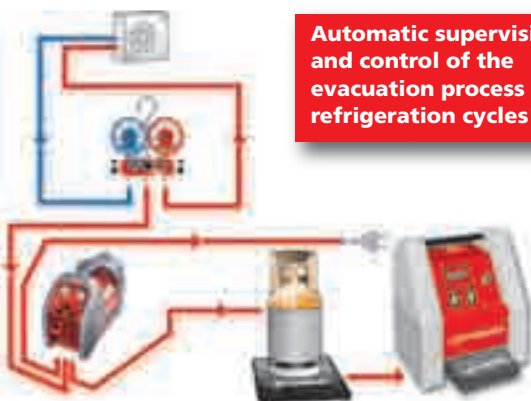
**Pull-out precision digital scale up to 100 kg**

Secure stand for large and small containers



**Automatic supervision and control of the evacuation process in refrigeration cycles!**

**Automatic evacuation and filling with the ROKLIMA® MULTI 4F!**



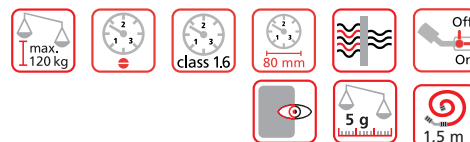
Scope of delivery (No. 1000000138) includes: 2-stage high vacuum pump, 2 low pressure gauges, 1, high pressure gauge R410A, 2 pressure hoses with ball valve à 2.500 mm, 2 bottle connection adaptors (1/4" SAE No. 173205, 5/16" SAE No. 173204), 2 reducing pieces 1/4" SAE - 5/16" SAE (No. 170016), precision digital scale up to 100 kg, automatic control, vacuum and pressure switch, mineral oil (No. 169200)

Model	kg	No.
ROKLIMA® MULTI 4F	17.0	1 <b>1000000138</b>
Reducer pieces 1/4" SAE F - 5/16" SAE M	0.1	1 <b>170016</b>

### ROCADDY 120 / ROCADDY 120 Digital

#### Universal sets for evacuation and charging

- Everything you need within reach
- Flexible use with the individual use of the tools
- Easy to transport
- Electric digital scale ROSCALE 120 with a weight capacity of 120 kg and a measuring accuracy per measurement of 5 g
- 2 speed high vacuum pump ROAIRVAC 1.5 with integrated vacuum meter and solenoid valve, as well as a pump capacity of 42 l/min
- Digital manifold (with ROCADDY 120 Digital) for the automatic calculation of overheating and under-cooling. 65 refrigerants are on file in the unit



- 2 analogue 4-way manifolds (with ROCADDY 120) for the common refrigerants R22, R134A, R404A, R407C and the high-pressure refrigerant R410A
- Pressure hose sets, each with 3 hoses from the PLUS series with shut-off valve for safe use with refrigerants
- Pipe cutter TUBE CUTTER 35 and MINICUT II PRO for cutting Ø 6 - 35 mm pipes to length

#### Sturdy plastic rolling case (Fig. similar)

Simple and comfortable transport with ample room for accessories and small parts

#### 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)



#### Digital manifold

Automatic calculation of overheating or under-cooling, can be used for 65 various refrigerants (ROCADDY 120 Digital)

#### 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


#### Mini tube cutter and pipe cutter

For cutting Ø 6- 35 mm pipes to length

ROCADDY 120 includes: 2-stage high vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 4-way manifold for R22, R134a, R407C (No. 170502), 4-way manifold for R410A (No. 170508), pressure hose set 5/16" SAE each 1.500 mm with ball valve for R410A (1500000030), pressure hose set 1/4" SAE each 1.500 mm with ball valve for R22, R134A, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x adaptor 3/8" SAE F - 1/4" SAE M (No. 089501), 2 x adaptor 5/16" SAE F - 1/4" SAE M with valve trigger (No. 259007), adaptor 5/16" SAE M - 1/4" SAE F (No. 170016), bottle connection 1/4" (No. 173204), mineral oil (0.4 l), Tube Cutter 35 (No. 70027), Minicut II Pro (No. 70402), transport case (No. 169051)

ROCADDY 120 Digital includes: 2-stage high vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 1x digital manifold (No. 170523P), 1x clamping thermometer (No. 170522), pressure hose set 1/4" SAE 1.500 mm with ball valve for R22, R134A, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 2x 5/16" SAE F - 1/4" with valve trigger (No. 259007), 1x 5/16" SAE M - 1/4" SAE F (No. 170016), 1x bottle connection 1/4" (No. 173204), mineral oil (0.4 l), Tube Cutter 35 (No. 70027)

Model	Performance 		No.	
R410A	R22	R134A	R407C	R404A
ROCADDY 120	42 l / min	19	1000000057	
with 2 analogue manifolds				

Model	Performance 				No.
R410A	R22	R134A	R407C	R404A	R507
ROCADDY 120 Digital			42 l / min	18	1000000058
with digital manifold					

# Refrigeration & Air-Conditioning Technology

## Refrigeration Cycle Control

### 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	kg	No.
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>	
2-way, 1/4" SAE	-1 up to 17	0 up to 34	0.7	1 <b>170501</b>
4-way, 1/4" SAE	-1 up to 17	0 up to 34	0.9	1 <b>170502</b>
<b>R410A</b>				
2-way, 5/16" SAE	-1 up to 30	0 up to 60	0.7	1 <b>170518</b>
4-way, 5/16" SAE	-1 up to 30	0 up to 60	0.9	1 <b>170508</b>

\*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

Manifold Blister

2-way manifold



Model	No.
Blue rubber protector for manifold	<b>170545</b>
Red rubber protector for manifold	<b>170546</b>
Valve inserts for manifold	<b>170547</b>

### 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



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	 kg	No.	
<b>2-way "Standard"</b>			
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>
Manifold set 2-way "Standard"	2.7	<b>170600</b>	
<b>R410A</b>			
Manifold set 2-way "Standard"	2.7	<b>170607</b>	
<b>4-way "Standard"</b>			
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>
Manifold set 4-way I "Standard"	2.8	<b>170601</b>	
<b>R410A</b>			
Manifold set 4-way I "Standard"	2.8	<b>170606</b>	
<b>4-way "Plus"</b>			
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>
Manifold set 4-way II "Plus"	2.8	<b>170602</b>	
<b>R410A</b>			
Manifold set 4-way II "Plus"	2.8	<b>170608</b>	
Plastic carrying case	1.4	<b>171505</b>	



No. 170601

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant



### 3-piece Pressure Hose Sets

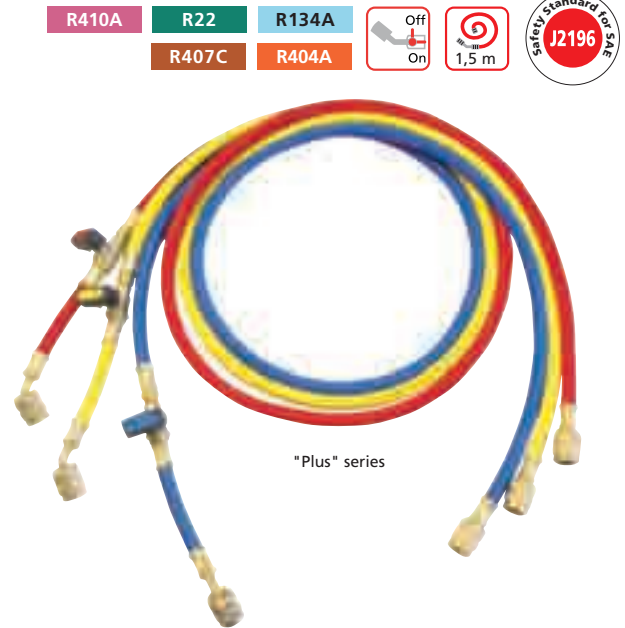
Available in "Standard" and "Plus"

- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10 x longer service life compared to neoprene seal
- Working pressure 60 bar / best pressure 300 bar.  
This is an 8 % better pressure resistance as previously



#### Pressure hose from the series "Standard"

Model	Connection	L mm		No.
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>	
Vacuum Hose	3/8" SAE	1,500	1	<b>1500000032</b>
Set of 3 pressure hoses	1/4" SAE	1,500	1	<b>1500000024</b>
Pressure hose yellow	1/4" SAE	1,500	1	<b>1500000025</b>
<b>R410A</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	<b>1500000026</b>
Pressure hose yellow	5/16" SAE	1,500	1	<b>1500000027</b>



#### Pressure hose from the series "Plus" with ball valve

Model	Connection	L mm		No.
<b>R22</b>	<b>R134A</b>	<b>R407C</b>	<b>R404A</b>	
Set of 3 pressure hoses	1/4" SAE	1,500	1	<b>1500000028</b>
Pressure hose yellow	1/4" SAE	1,500	1	<b>1500000029</b>
<b>R410A</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	<b>1500000030</b>
Pressure hose yellow	5/16" SAE	1,500	1	<b>1500000031</b>

### Tool Set Climate I

#### Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

- 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

**The ideal introduction into a whole new area of business!**

9-part tool set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses 1/4" SAE, telescopic pipe cutter (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

Model	kg		No.
Tool Set Climate I	2.3	1	<b>170604</b>





# Refrigeration & Air-Conditioning Technology

## Leak Testing & Locating

### Nitrogen Set

#### Multiple uses for refrigeration systems

- Pressure and leak test with nitrogen
- Flushing of the installation
- Nitrogen admission during soldering to prevent scale formation



**Ideal for split air-conditioning units and heat pumps!**

#### Connection for large bottles

Any size of bottle can be connected without a problem

#### Spring loaded pressure reducing valve

Simple and safe handling

950 cm<sup>3</sup> nitrogen bottle included

Complete set



No. 259060

Set (No. 259060) includes: pressure reducing valve, connection hose, bottle adaptor, pressure gauge, nitrogen bottle and plastic case

Model	No.
Nitrogen set with bottle (950 cm <sup>3</sup> )	<b>259060</b>
Nitrogen bottle, each 950 cm <sup>3</sup>	<b>259008</b>
Filling hose with pressure gauge	<b>259010</b>
Connection 5/16" SAE internal, 1/4" SAE external	<b>259007</b>



#### Fine scaled 1.0 pressure gauge

Precise reading of the testing pressure

### RO-LEAK

#### Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)

R410A

R22

R134A

R407C

R404A

R507A



#### Heated pentode

Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds

- 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

<b>Leak status:</b>	LED display
<b>Sensor length:</b>	30 cm
<b>Leak detection rate:</b>	3g/a within 3 seconds
<b>Weight:</b>	280 g
<b>Working temperature:</b>	- 10 up to + 49°C
<b>Voltage:</b>	2.4 V

**Suitable for all common CFC, HFC and HCFC!**

Set (No. 87305) includes: Leak detection unit RO-LEAK, spare sensor, battery charger, battery

Model	No.
RO-LEAK set with spare sensor and battery charger in plastic case	<b>87305</b>
Spare sensor	<b>87309</b>



No. 87305

### ROAIRVAC

#### Two-stage vacuum pump

For evacuation in accordance with **DIN 8975** with vacuum gauge and solenoid valve

- 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 an exhaust vent

#### Gas ballast valve

Reduction of water vapour in the oil container, guarantees higher evacuation performance and service life

#### Special filter

Reduces oil mist on exhaust vent

- Gauge-glass enables easy oil-stand monitoring
- Fast filling of oil without spilling, no special funnel is necessary
- Easy access to the oil drain plug makes emptying quick
- Thermal switch protects the unit from the motor overheating
- Standard 1/4" SAE connection, as well as 5/16" SAE and 3/8" SAE adaptor included in delivery
- Removable cable prevents cable damage



#### 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  
\*(only with ROAIRVAC 1.5 and 3.0)

#### Light and high-quality casing

Protects the integrated components

Optimal positioned viewing glass and oil drains for simple draining of the oil



ROAIRVAC 9.0 (255 l/min)



Scope of delivery ROAIRVAC: Vacuum pump with 1/4", 5/16"SA+B547E and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	kg	No.
ROAIRVAC 1.5	42 l/min	9.0	<b>170061</b>
ROAIRVAC 3.0	85 l/min	10.7	<b>170062</b>
ROAIRVAC 6.0	170 l/min	11.5	<b>170063</b>
ROAIRVAC 9.0	255 l/min	17.0	<b>170064</b>
Mineral oil, 1 litre			<b>169200</b>

Type	ROAIRVAC 1.5	ROAIRVAC 3.0	ROAIRVAC 6.0	ROAIRVAC 9.0
No.	<b>170061</b>	<b>170062</b>	<b>170063</b>	<b>170064</b>
Pump rating	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	9.0 CFM / 255 l/min / 15.3 m³/h
Vacuum stages	2	2	2	2
Final-vacuum	25 micron / 0.034 mbar	25 micron / 0.034 mbar	25 micron / 0.034 mbar	25 micron / 0.034 mbar
Motor rating	190 W / 1720 r/m	250 W / 1720 r/m	375 W / 3440 r/m	750 W / 3440 r/m
Voltage	230 V	230 V	230 V	230 V
Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Connections	1/4"	1/4"	1/4"	1/4"
with adaptor	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M	5/16" SAE M / 3/8" SAE M
Oil capacity	250 ml	330 ml	330 ml	590 ml
Weight	9.0 kg	10.7 kg	11.5 kg	17.0 kg
Pressure gauge Ø	50 mm	50 mm	50 mm	80 mm
Measuring unit	mbar / Mpa	mbar / Mpa	mbar / Mpa	mbar



Recovery

ROREC

Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants of all kinds

- 4-pole motor guarantees the durability of the machine
- Low noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Maintenance-free operation through the oil-free compressor
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing



<b>Suitable for:</b>	all refrigerants of the type CFC-HCFC-HFC
<b>Capacity:</b>	gaseous: 0.26 kg / min fluid: 1.85 kg / min Push/Pull: 6.22 kg / min
<b>Electrical Data:</b>	230 V / 50 - 60Hz
<b>Power:</b>	370 W
<b>High pressure switch:</b>	38.5 bar
<b>Dimensions:</b>	500 x 220 x 340 mm
<b>Weight:</b>	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

Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories



Model	Connected Load	kg		No.
ROREC	370 W	17.0	1	168605
Filter				168713



### ROSCALE 120

#### Electronic refrigerant scale

Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg

- 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

<b>Weight capacity:</b>	120 kg or 264 lbs
<b>Accuracy:</b>	+/- 0,5%
<b>Resolution:</b>	5 g / 0,2 oz.
<b>Working temperature:</b>	-10° C - 49° C / 14 - 120° F
<b>Connection:</b>	1/4" SAE for 1-2 lit. Bottles
<b>Battery:</b>	9 V
<b>Platform size:</b>	230 x 230 x 53 mm
<b>Weight:</b>	3.28 kg

Set (No. 173004) includes: ROSCALE 120, 9 V battery, carrying case

Model		No.
ROSCALE 120	3.28	<b>173004</b>



#### 1/4" SAE bottle adaptor

For connecting small 1 and 2 l refrigerant bottles

#### Three operating keys

Simple use



#### Large weighing platform

All sizes of refrigerant bottles have enough space

#### Weight capacity of 120 kg

Weight capacity is sufficient for all common refrigerant bottles

### Bottle Connection and Adaptors

#### For refrigerant bottles

For use with new refrigerant bottles on existing equipment



No. 170950



No. 173204, No. 173205

Model	No.
Adaptor, 1/4" connection	<b>173205</b>
Adaptor, 5/16" connection	<b>173204</b>
Adaptor, W21.8 x 1/4" SAE M connection with seal for 2 l sized bottles	<b>170950</b>
Adaptor, 1/4" SAE M - 3/8" SAE F connection	<b>089501</b>
Adaptor, 3/8" SAE M - 1/4" SAE F connection	<b>089503</b>
Adaptor, 3/8" SAE M - 1/2" SAE F connection	<b>089504</b>
Adaptor, 1/4" SAE F - 5/16" SAE M connection	<b>170016</b>
Adaptor, 1/4" SAE M - 5/16 SAE F connection with valve trigger	<b>259007</b>

### 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 5/16" pipe lines **according to DIN EN 378-2 : 2008-06**



Fix with torque necessary!



Model		No.
Torque wrench set, 7 pcs	1.7	<b>175001</b>

**8 piece set** (No. 1750.01) includes: spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

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

# Refrigeration & Air-Conditioning Technology

## Accessories

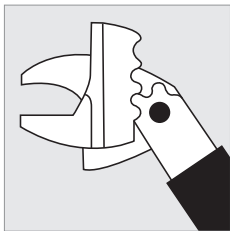
### ROTORQUE AIRCON / REFRIGERATION

#### Step-less torque wrench

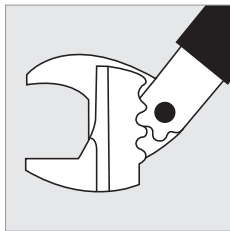
Patented rack and pinion drive enables quick and reliable fastening of flare nuts sizes 15 - 32 mm in accordance with EN 378-2:2008-06

- 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 378-2:2008-06 is embossed on the head for every size and can not be rubbed off
- Embossed torque data: easy tightening according to norm
- ROTORQUE REFRIGERATION is suitable for cylinder heads' work

Closed head



Fully opened head

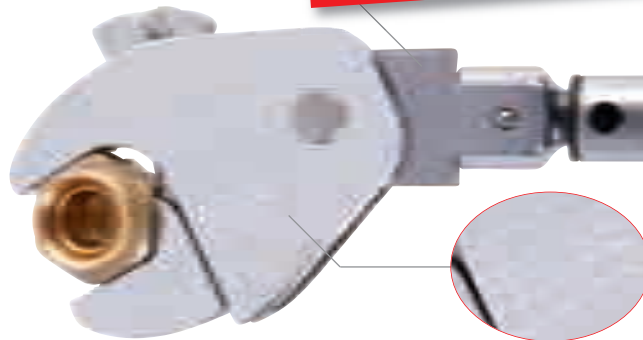


Model	No.
ROTORQUE AIRCON	1000000224
ROTORQUE AIRCON REFRIGERATION	1000000225

Connection 9 x 12

Head can be exchanged between ROTORQUE AIRCON and ROTORQUE REFRIGERATION

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



#### ROTORQUE AIRCON Torque wrench

- 10 - 75 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

### Schrader Valve Tool

- For exchanging the Schrader valve on air-conditioners under pressure, without having to evacuate the unit
- For faster filling / evacuation of the refrigeration cycle
- With safety thread for risk-free use with R410A



Model	No.
Schrader Valve Tool in plastic carrying case	87800

### Plate Fin Comb



- For straightening the plate fins of heat-exchangers
- 6 different sizes in one tool

Model	Dimension	No.
Plate fin comb	8 - 9 - 10 - 12 - 14 - 15 mm	224500

### ROGRIP F, M and S

#### Quickly adjustable water pump plier

- 30% more gripping capacity: 10" pliers up to 2" pipe diameter
- 3-point handle: 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

**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!**

**30% more gripping capacity! \***

#### ROGRIP F

- 18 point size adjustments
- Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment



#### ROGRIP M

- 10 point size adjustments
- Integrated sizing scale
- Slip-resistant, plastic handles



*ROGRIP M, S Integrated sizing scale for comfortable and quick adjustment of the pipe diameter*

*Curve-Shape-Design: especially ergonomic*

#### ROGRIP S

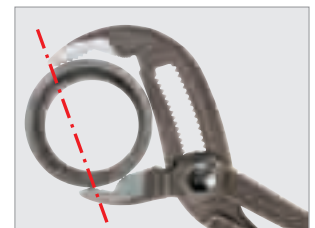
- 10 point size adjustments
- Integrated sizing scale



*2-point grip with pipes Ø 2"*



*3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 2"*



Model	No.
ROGRIP F 7"	1000000213
ROGRIP F 10"	1000000214
ROGRIP M 7"	1000000215
ROGRIP M 10"	1000000216
ROGRIP S 7"	1000000217
ROGRIP S 10"	1000000218



# 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

- 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	max. inch	max. mm	g		No.
1/2"	22	10"	250	400	1 18	<b>070121X</b>
1"	35	12"	300	810	1 18	<b>070122X</b>
1.1/2"	46	16"	420	1.440	1 16	<b>070123X</b>
2"	65	20"	540	2.440	1 10	<b>070124X</b>
3"	80	24"	640	3.400	1 6	<b>70125</b>

### Water Pump Pliers SP

Complies with DIN 5231 D, with heavy-duty box joint, chrome vanadium steel, drop forged, tempered, polished head and joint

- Ideal for hard-to-reach places with the longer, thinner pliers head with measurements favourable for corn



inch	mm	max. inch	max. mm	g		No.
7"	175	1"	28	150	1 6	<b>70527</b>
10"	250	1.1/4"	32	290	1 6	<b>70528</b>
12"	300	1.1/2"	42	460	1 6	<b>70529</b>
10" Counter display					1(12)	<b>070528D</b>

- **Type SPK:** Features similar to type SP, in addition:  
Increased safety: Plastic covered handles



inch	mm	max. inch	max. mm	g		No.
7"	175	1"	28	165	1 6	<b>70521</b>
10"	250	1.1/4"	32	315	1 6	<b>70522</b>
12"	300	1.1/2"	42	475	1 6	<b>70523</b>
10" Counter display					1(12)	<b>070522D</b>

### Fitting Key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces



Model	mm	Clamping width and depth mm	g	No.
Grid adjustment	260	75 45	690	<b>350850</b>
Roll adjustment	275	65 45	780	<b>350900</b>

### Fitting Wrench 90°

Special chrome vanadium steel, steel forged

- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
- High-quality DURAMANT surface coating



max. inch	max. mm	inch	mm	g		No.
1"	35	14"	350	740	1 6	<b>70545</b>
Spare jaws (pair)				10		<b>70548</b>

### SANIGRIP

#### Valve plier PL

- Secure and gentle grip on valuable fittings without damaging polished surfaces



Model	inch	mm	max. mm	min. mm	g	No.
SANIGRIP	10"	250	80	14	270	<b>70415</b>
SANIGRIP PL	10"	250	62	14	280	<b>70416</b>
Spare plastic jaws (pair) for SANIGRIP PL					10	<b>70417</b>

### Pipe Wrench 90°

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



inch	mm	inch	mm	g		No.
1"	35	12"	300	740	1 8	<b>70110X</b>
1.1/2"	46	16"	420	1.340	1 6	<b>70111X</b>
2"	65	20"	540	2.400	1 6	<b>70112X</b>
2"	65	20"	540	2.440	1 10	<b>70124X</b>
3"	80	24"	640	3.400	1 6	<b>70125</b>





### 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**

- Completely relieves the joint screw with relief-milled grooves
- No slipping of the joint possible
- Absolutely firm fit in every open position
- Easy, smooth adjustment
- Induction hardened teeth for a long service life
- Crush and clamp guard prevent injuries
- Plastic covered handles



L inch	L mm	max. inch	max. mm	g		No.
9.1/2"	245	1.1/2"	38	330	6	70591
12"	300	2"	60	560	6	70592
16"	420	4"	100	1,150	6	70593

### One Handed Pipe Wrench "HEAVY DUTY"

- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of Ø using scale on hook
- Wearing parts replaceable:  
Hook and heel jaw can be purchased separately
- Monoblock cast body with high strength, double T profile, forged jaw and hook, fine polished, teeth set against turning direction, induction hardened, tempered and non-slip adjustment screw



US-Norm GGG-W-651  
Type II Class A!



L inch	L mm	inch	mm	kg		No. pliers	No. hook	No. jaws
8"	200	1/2"	22	0,40	4	70150	70200	70190
10"	250	1.1/2"	49	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"	76	2,67	2	70154	70204	70194
24"	600	3"	90	4,32	1	70155	70205	70195
36"	900	5"	140	7,92	1	70156	70206	70196
48"	1200	6"	166	15,80	1	70157	70207	70197

### One Handed Pipe Wrench "ALUDUR"

- 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 inch	L mm	inch	mm	kg		No. pliers	No. hook	No. jaws
10"	250	1.1/2"	49	0,48	4	70159	70201	70191
14"	350	2"	60	0,99	4	70160	70203	70192
18"	450	2.1/2"	76	1,63	2	70161	70204	70194
24"	600	3"	90	2,51	1	70162	70205	70195
36"	900	5"	140	5,00	1	70163	70206	70196
48"	1200	6"	166	8,42	1	70164	70207	70197



# General-Purpose Tools

## Pliers

### One Handed Pipe Wrench "OFFSET PATTERN HEAVY DUTY"

- 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



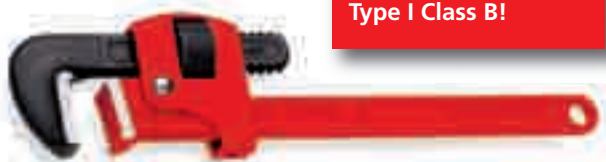
L	L	inch	mm	inch	mm	g	No. pliers	No. hook	No. jaws
10"	250	1.1/2"	49	750	4	70166	70201	70191	
14"	350	2"	60	1,460	4	70167	70203	70192	

### One Handed Pipe Wrench "STILLSON"

- 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	inch	mm	inch	mm	g	No. pliers	No. hook	No. jaws
8"	200	3/4"	27	0,28	1	4	70350	70374	
10"	250	1"	34	0,59	1	4	70351	70375	
12"	300	1.1/4"	43	0,79	1	4	70352	70376	
14"	350	1.1/2"	49	1,04	1	4	70353	70377	
18"	450	2"	60	1,82	1	2	70354	70378	
24"	600	2.1/2"	76	3,08	1	1	70355	70379	
36"	900	3.1/2"	102	5,69	1	1	70356	70380	

### One Handed Corner Pipe Wrench 90°

- Features similar to "HEAVY DUTY"
- **Weight savings of approx. 40%:** extremely light, high strength aluminium alloy



L	L	inch	mm	inch	mm	g	No. pliers	No. hook	No. jaws
14"	350	2"	60	890	1	70115	70203	70192	
18"	450	2.1/2"	76	1,490	1	70116	70204	70194	

### Chain Pipe Wrench "HEAVY DUTY"

Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable



- Strong chain made of tempered special steel – fits every cross-section
- Double-sided tooth system for ratchet-like use, for right and left-handed operation



max. inch	max. mm	jaws width mm	L mm	kg	No. pliers	No. jaws
1.1/2"	49	38	350	1.4	70242	70571
2.1/2"	76	52	690	3.5	70243	70572
4"	115	63	940	6.7	70244	70573
6"	166	78	1,120	126	70245	70574
8"	220	80	1,280	172	70246	70575
12"	324	84	1,630	24.2	70247	70576







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"	280	70265
Spare chain HEAVY DUTY 8"	3.40	70266
Spare chain HEAVY DUTY 12"	510	70267



### Chain Pipe Wrench 4" R/L

- Profile handle made of drop forged chrome vanadium steel, polished head with hardened special tooth system, powerful chain made of tempered special steel
- Double-sided teeth surface set against the turning direction for use in both directions without re-inserting






 max. inch	 max. mm	 inch	 mm	 g		No.
4"	115	12"	300	780	1 4	<b>70235</b>

### Sealing Grip Pliers

Chrome vanadium steel, nickel-plated, tempered, hardened jaws

- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes Ø 4 - 16 mm and hoses
- With leverage and quick-release lever, adjustable and lockable






 inch	 mm	Jaw width mm	 g	No.
10"	250	4 - 16	490	<b>70250</b>

### Pipe Welding Grip Pliers

Chrome vanadium steel, nickel-plated, hardened jaws made of chrome vanadium steel

- For safe, central clamping of pipes and round material aligned during welding work
- Reliable 3-point support, for steel pipes up to Ø 3"
- U-shaped clamping jaws allow enough room for welding
- With leverage and quick-release lever, adjustable and lockable








 inch	 mm	Jaw width mm	 g	No.
11"	280	95	840	<b>70257</b>

### Strap and Fittings Wrench

Made of aluminium special alloy, with replaceable nylon strap

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)



 inch	 mm	 inch	 mm	 g	No.
3"	90	12"	300	280	<b>70240</b>
Spare strap 3"				20	<b>70268</b>
8"	220	12"	300	290	<b>70241</b>
Spare strap 8"				30	<b>70269</b>



# General-Purpose Tools

## Installation Wrenches / Installation Aids

### ROCLICK Key

Chrome vanadium, head black atramentized

- With the spring mechanism – the harder the pressure, all 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.
ROCLICK Key 10	10	134	80	70420
ROCLICK Key 11	11	137	80	70419
ROCLICK Key 12	12	137	80	70421
ROCLICK Key 13	13	137	90	70422
ROCLICK Key 14	14	140	90	70423
ROCLICK Key 16	16	184	130	70424
ROCLICK Key 17	17	184	140	70425
ROCLICK Key 19	19	188	188	70426
ROCLICK Key 21	21	230	230	70427
ROCLICK Key 24	24	240	240	70418

### Ring Spanner

Chrome vanadium steel, drop forged, chrome-plated

- Ideal for hard-to-reach screws with the finely toothed R/L switchable ratchet
- 12-edged, flat offset, robust and indestructible



7-part set (No. 70281) includes: ROCLICK 10 x 11, 12 x 14, 13 x 17, 15 x 16, 19 x 22, 24 x 27, 30 x 32 mm

Model	L mm	g		No.
Spanner Set 7 pieces		3,500	1	70281
10 x 11	200	120	1 36	70270
12 x 14	230	200	1 36	70271
13 x 17	250	280	1 36	70272
15 x 16	260	320	1 36	70273
19 x 22	310	440	1 36	70274
24 x 27	360	700	1 36	70276
30 x 32	410	990	1 36	70277

### Adjustable Wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

- 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.
4"	120	16	80	70440
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

### Standard Spirit Level

- Deformation-free aluminium rectangular profile, anodised
- Imprinted, centred centimetre scale
- Shock and weather proof
- Horizontal and vertical levels, non-breakable, permanently aligned in carrier



Six-ring spirit level for applying  
1% and 2% gradients!

10 year warranty!



L mm	g	No.
300	190	255030
400	260	255040
500	320	255050
600	340	255060
800	520	255080
1,000	640	255100
1,200	820	255120



### Telescopic Basin Nut Wrench

Chrome-plated, with pivoted reversible jaw for right and left-handed rotation



Telescopic attachment,  
4x adjustable in length!

Clamping range		L	g	No.
mm	inch	mm		
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



L	L	Sheet thickness	g	No.
inch	mm	mm		
10"	250	1.0	450	71095

### Tower Pincers / Concreter's Nippers

Special forged steel, slim head, polished, long plastic covered handles

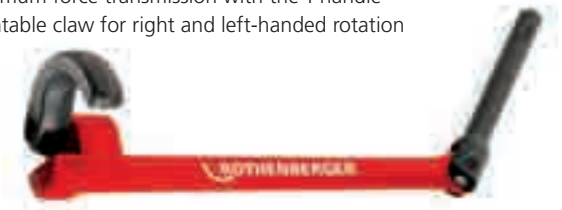


L	L	Clamping width	g	No.
inch	mm	mm		
9"	225	22	330	70118
10"	250	26	440	70119

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, very tough

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation



Clamping range		L	g	No.
mm	inch	mm		
10 - 32	3/8" - 1.1/4"	235	475	70228

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, coated with adjustment screw



Model	L	g	No.
	mm		
Basin Nut Wrench	270	580	351050

### 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



L	L	Clamping width	g	No.
inch	mm	mm		
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



L mm	Model	g	No.
180	DIN 5244	250	324559

### Edge Cutter

For hard and soft wire, special tool steel, oil hardened, Swedish style, chrome-plated head, zero-play joint with heavily insulated handles



L mm	Model	g	No.
160	DIN 5238B	210	324577

### Insulation Stripper

Special tool steel, oil hardened, chrome-plated, zero-play joint, heavily insulated handles, with adjustment screw and opening spring



L mm	max mm	g	No.
165	5	160	324800

### 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



L mm	Model	g	No.
160	DIN 5238A	250	324588

### Long Nose Pliers, straight

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles



L mm	Model	g	No.
200	DIN 5236A	200	324737

### Long Nose Pliers, angled

With cutting edge for hard and soft wire, flat oval jaws, tapered off, special tool steel, oil hardened, chrome-plated head, zero-play joint with heavily insulated handles



L mm	Model	g	No.
200	DIN 5236D	200	324739



### EUROLINE®



#### Screwdrivers

- High force transmission with 2 component handle
- High torque
- Guarantees perfect seat on screw head
- Colour coding for different tips enables quick differentiation
- Oil, fat and hydrocarbon resistant

- 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

#### Surface treated precision tip

Guarantees perfect seat on screw head

#### Colour coding for different tips

Quick differentiation

#### 2 component handle made of high-quality, plastic, grip-friendly AS knob form

High force transmission

#### Blade made of high-quality, tempered chrome vanadium steel

High torque proof



### Screwdriver Sets

Model	kg	No.
Screwdriver Set Pozidriv	0.70	<b>73571</b>
Screwdriver Set Phillips	0.70	<b>73570</b>

#### Sets include:

	Pozidriv No. 73571	Phillips No. 73570
	3,5 x 75 mm 4 x 100 mm	3,5 x 75 mm 4 x 100 mm
	5,5 x 125 mm 6,5 x 150 mm	5,5 x 125 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

### Workshop Screwdriver Set

Blades made of chrome vanadium molybdenum steel, chrome-plated with hexagonal key aid, hard wood handles made of natural beech, varnished with leather cap



Model	g	No.
Workshop Screwdriver Set, includes: Slot 4,5 x 90; 5,5 x 100; 6,5 x 125; 8 x 150 Phillips PH 1 x 80; PH 2 x 100	680	<b>323015</b>

### 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: 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	680	<b>323126</b>




# General-Purpose Tools

## Installation Aids

### 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	<b>321523</b>
4	200	40	<b>321524</b>
5	200	80	<b>321525</b>
6	200	100	<b>321526</b>
8	200	130	<b>321528</b>
10	200	220	<b>321529</b>
12	200	290	<b>321530</b>

### Allen Key Set

CV steel 50Cr-V4, achromatised, hardness and torque in compliance with **DIN 911**


**DIN**  
-Norm



No. 321300



No. 70301/70302

Model	Size mm / inch	 g	No.
Clip holder	2,5-3-4-5-6-8-10 mm	340	<b>70301</b>
Clip holder	3/32-1/8-5/32-3/16-1/4-5/16-3/8"	340	<b>70302</b>
Ring	2-2,5-3-4-5-6-8-10 mm	250	<b>321300</b>

### 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 dia. 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

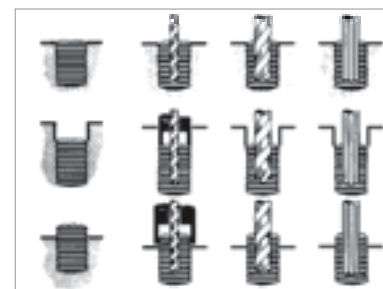
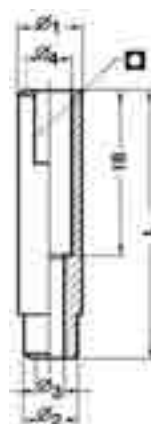
For rough-running threads, spray on solution or apply heat. Boring studs are made of high-quality material, therefore they do not twist or heat up


### Screw Extraction Sets



Packaged in handy plastic box with spiral drills, guide bushes, boring studs and boring nuts



Fig. Screw Extraction Set, 25 pieces



Set	Set contains complete for	Contains piece	 g	No.
Size 1	M 5 - M 12	21 pieces	450	<b>71310</b>
Size 2	M 5 - M 16	25 pieces	580	<b>71311</b>

For thread	Guide-bush size	Guide-bush No.	 mm	Pre-boring- No.	 mm	Boring No.	Boring stud size	Boring stud No.	Boring nut hex for size	Boring nut No.
M 5	Size 1	<b>71291</b>			3.2	<b>71301</b>	Size 1	<b>71281</b>	Size 1/SW10	<b>71286</b>
M 6	Size 2	<b>71292</b>			3.2	<b>71301</b>	Size 1	<b>71281</b>	Size 1/SW10	<b>71286</b>
M 7	Size 3	<b>71293</b>	3.2	<b>71301</b>	4.8	<b>71302</b>	Size 2	<b>71282</b>	Size 2/SW11	<b>71287</b>
M 8	Size 4	<b>71294</b>	3.2	<b>71301</b>	4.8	<b>71302</b>	Size 2	<b>71282</b>	Size 2/SW11	<b>71287</b>
M 9	Size 5	<b>71295</b>	4.8	<b>71302</b>	6.4	<b>71303</b>	Size 3	<b>71283</b>	Size 3/SW13	<b>71288</b>
M 10	Size 6	<b>71296</b>	4.8	<b>71302</b>	6.4	<b>71303</b>	Size 3	<b>71283</b>	Size 3/SW13	<b>71288</b>
M 12	Size 7	<b>71297</b>	4.8	<b>71302</b>	8.0	<b>71304</b>	Size 4	<b>71284</b>	Size 4/SW14	<b>71289</b>
M 14	Size 8	<b>71298</b>	6.4	<b>71303</b>	8.7	<b>71305</b>	Size 5	<b>71285</b>	Size 5/SW17	<b>71290</b>
M 15	Size 9	<b>71299</b>	6.4	<b>71303</b>	8.7	<b>71305</b>	Size 5	<b>71285</b>	Size 5/SW17	<b>71290</b>
M 16	Size 10	<b>71300</b>	6.4	<b>71303</b>	8.7	<b>71305</b>	Size 5	<b>71285</b>	Size 5/SW17	<b>71290</b>





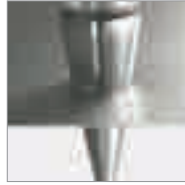
### UNIDRILL®

#### 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



Burr-free drilling



3-piece set (No. 21750) includes: Sheet metal cone bit size 1 (No. 21541), size 2 (No. 21542) and size 3 (No. 21543), in plastic cartridge

Size	L mm	Shaft mm	mm	g	No.
UNIDRILL set with drill paste			3.0 - 30.5	380	<b>21545</b>
1	58	6	3.0 - 14.0	20	<b>21541</b>
2	71	8	5.0 - 20.0	56	<b>21542</b>
3	76	9	16.0 - 30.5	120	<b>21543</b>
EVERCOOL drill paste, 50 g				80	<b>21549</b>

### UNIDRILL®

#### HSS stepped drill bit

In one step, sheets can be centred, spot drilled, drilled and deburred



3-piece set (No. 21313) includes: Stepped drill bit size 1 (No. 21305), size 2 (No. 21306) and size 3 (No. 21307), in steel case

Model	mm	g	No.
UNIDRILL stepped drill bit set, 3 pieces	4.0 - 30.0	660	<b>21313</b>

Size	mm	L mm	Shaft mm	g	No.
1	4 - 12	65	6	22	<b>21305</b>
2	4 - 20	75	8	60	<b>21306</b>
3	4 - 30	100	10	185	<b>21307</b>

### UNICUT HM

#### Carbide-tipped hole saws for cutting circular holes Ø 22 - 35 mm without impact

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

- 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



Set (No. 21300) includes: Hard metal hole saws, cutting spray 50 ml and spare centering pin Ø 6 mm (No. 21394), in plastic case

Model	g	No.
UNICUT HM Set 22 - 25 - 28 - 32 - 35 mm	950	<b>21300</b>

### Chassis Punch

Chassis Punch for uniform deformation-free punching of sheets, steel sheets, V2A sheets, copper and aluminium

- Ideal for tight spaces such as fuse boxes, junction boxes, instrument panels, sinks, car bodies
- Special tool steel, burnished
- Guaranteed long service life
- Material thickness up to max. 4 mm



Metric tension screw with highest quality grade 12.9 (from Ø 152 mm)

Extremely durable

Optimum support due to 3-point cut

Clean cutting process



Fig. Chassis Punch

5-piece set (No. 21801) includes: 1 Chassis Punches Ø 28.3 mm (No. 21828), 32 mm (No. 21832), 35 mm (No. 21835), spare screw in plastic case

Model	g	No.
Chassis Punch, 5 pieces	750	<b>21801</b>



# 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
- **without integrated chain vice**
- Bending of pipes Ø 3/8" - 1/2" - 3/4"
- Universal vice attachments applicable for pipe vice (No. 70710) and chain pipe vices (No. 70713, 70714, 70715)



### Working Unit

with pipe vice 1/8" - 2"

- Collapsible, stable, non-slip frame,
- with folding pipe vice, bending holes and large tool tray

Description	kg	No.
Tri-pod universal workbench with chain vice	16.0	<b>70752</b>
Tri-pod universal workbench without chain vice	15.3	<b>70751</b>
Multi purpose workbench 1/8" - 2"	21.0	<b>70740</b>

### Pipe Vice

Foldable, with automatic closing hook, upper jaw and lower support jaw milled and hardened. Powerful smooth-running spindle. Durable epoxy-powder coated

- Reliable hold: Pipe support and movable upper jaw



### 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"	10 - 60	3.7	<b>70710</b>
Spare jaws (contains 3 pcs.)		0.2	<b>70670</b>
1/8 - 3"	10 - 89	79	<b>70712</b>
Spare jaws (contains 3 pcs.)		0.2	<b>70672</b>
1/8 - 4"	10 - 114	11.7	<b>70711</b>
Spare jaws (contains 3 pcs.)		0.2	<b>70671</b>

for pipes / inch	for pipes / mm	kg	No.
1/8 - 2 1/2"	10 - 76	3.8	<b>70713</b>
Spare jaw		0.7	<b>70734</b>
Spare chain		0.5	<b>70731</b>
1/8 - 4"	10 - 114	6.2	<b>70714</b>
Spare jaw		0.8	<b>70721</b>
Spare chain		0.6	<b>70732</b>
1/8 - 6"	10 - 165	9.3	<b>70715</b>
Spare jaw		0.9	<b>70722</b>
Spare chain		1.3	<b>70733</b>



### Shoulder Toolbox "Trendy"

- Very light, handy bag for the most important tools
- Small pockets on the side keep things in view

Volume: approx. 42 l



Volume: approx. 42 l

Model		No.
Tool bag "Trendy" (380 x 300 x 370 mm)	1	402311

### Tool Bag "Trendy"

- Lots of storage room for all your tools
- Keeps things organized, thanks to the many compartments

Volume: approx 8 l



Volume: approx. 8 l

Model		No.
Shoulder toolbox "Trendy" (250 x 220 x 140 mm)	1	402308

### Tool Bag "Installer"

- With practical outside pockets for quick access
- With carrying handle and adjustable shoulder strap for comfortable transport



Volume: approx. 20 l

Model		No.
Plumbers Tool Bag (460 x 260 x 260)	1	402310

### Tool Bag "Heavy Duty"

- Especially stable with the stable plastic bottom
- With carrying handle and adjustable shoulder strap for comfortable transport



Volume small: approx. 20 l



Volume big: approx. 30 l

Model		No.
Tool bag "Heavy Duty" big (620 x 250 x 350 mm)	1	402317
Tool bag "Heavy Duty" small (410 x 230 x 300 mm)	1	402316

### Apprentice Set

Tough installation toolbox completely equipped with all the tools the craftsman needs

- Extensive and practical tool assortment
- Case made of galvanized steel

Set (No. 19166) includes: Water pump wrench type "SP" 10", corner pipe wrench Super "S" (1"), ALU-spirit level, anodized. (500 mm), hacksaw frame (300 mm), 10 x HSSE 4 PLUS saw blades, fitter's hammer (300 g), lump hammer (1250 g), PUK-hacksaw (290 mm) + 12 x saw blades, basin nut wrench, stone chisel (300 x 16 mm) flat, express spanner, UNI-stepped key + ratchet, EUROLINE screwdriver set (Phillips), chassis punch (32 mm round), Allen key set, 7-piece, wooden ruler (2m), carpenter pencil, TUBE CUTTER 35 (6-35 mm), MINICUT I PRO (3-16 mm), extension key, corner pipe wrench "Super S" (1.1/2"), cutter knife, ROFASTLOCK (10"), installer toolbox

Model		No.
Apprentice set, 26 piece	1	19166
Installer toolbox	1	402312



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## Abbreviations

Abbreviations	Meaning
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 DIN ISO 228
BSPP	British Standard Pipe Parallel Thread, Cylindrical Pipe Thread
BSPT	British Standard Taper Pipe Thread
BSR	Band Saw Pipe
BSW	British Standard Whithworth
BTU	British Thermal Unit
CE	European Community
CEN	European Committee for Standardization
CFC	Chlorofluorocarbons
CFM	Cubic Feet per Minute
CFT	Constant Force Technology
CL	Channel Lock
CNC	Computerized Numerical Control
CU	Copper
DK	Pressure Class
DN	Diameter Nominal
DVGW	German Association for Gas & Water Applications
DVS	German Association for Welding
EAN	European Article Number
EPT	Enclosed Power Transmission
EB	Slingle Flare
FE	Iron
FS	Guide Hose
GW	Gas / Water
HCFC	Hydrochlorofluorocarbons
HD	High Pressure
HFC	Hydrofluorocarbons
HFCkW	Virgin Hydro Chlorofluorocarbons
HFKW	Virgin Hydrofluorocarbons
HM	Carbide
HRC	High Speed Steel
HSS	High Speed Steel, Schnellarbeitsstahl
HZ	Hertz
IP	International Protection
ISO	International Organization for Standardization
Kcal	Kilocalorie
KSO	Capillary Gap Optimizer
L	Large

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Cu  
PVC  
MSR  
INOX



Abbreviations	Meaning
LCD	Liquid Crystal Display
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)
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
TRGI	Technical Guidelines for Gas Installations
TRWI	Technical Guidelines for Water Installations
TÜV	Technical Inspection Association
UKS	Orbital 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

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31091	54	50312	14	55586	99	59028	9	70064	7
31092	54	52000	11	55587	99	59035	9	70065	7
31093	56	52005	11	55588	99	59042	9	70070	8
32045	57	52010	11	55589	99	59050	9	70072	6
32051	57	52015	11	55590	99			70073	81
32063	57	52030	11	55591	99	<b>6</b>		70080	6
32110	57	52040	11	55592	99	60200	63	70086	8
32111	57	53302	104	55593	99	60201	63	70087	8
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Cu  
PVC  
MSR  
INOX












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
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## Pictograms

### Stromversorgung

 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			

### Arbeitsvorgang

 Can be used overhead	 Can be used in confined spaces	 Suitable for tight spaces	 Basic soft soldering up to 450 °C	 Hot brazing 450 ° - 1100 °C	 Max autogen welding 1100 °C
 Fast cut	 No deformation from use	 Dry drilling	 Wet drilling	 Up to 50% time-saving	 Portable operation
 360° rotatable	 Fine adjustment of the flame				

### Produkteigenschaften

 Ergonomic design	 Meets DIN standards	 VDE approved	 Handy	 Environmentally friendly	 Impact protection
 Shock absorption	 Sturdy casing	 Constant pressure control	 Propane control	 Oxygen control	 Acetylene control
 Economy valve	 Pressure hose ball valve	 Pressure hose length 1.5 m	 Pressure hose length 2.5 m	 Blowback prevention	 Piezo ignition
 Bayonet coupling	 Push lock	 Thread lock	 On / off switch	 Emergency stop switch	 Lock button
 LED display	 Inspection window	 Pressure gauge display adjustable	 Pressure gauge class 1 - 6	 Pressure gauge 63 mm	 Pressure gauge 80 mm
 Scale range max. 5 kg	 Scale range max. 50 kg	 Scale range max. 110 kg	 Scale range max. 120 kg	 Measuring accuracy up to 1 g	 Measuring accuracy up to 10 g
 Filling supports	 Counter display	 Balance point in handle	 Transport case	 Heed safety warning	 Heed indus- trial safety
 Don't sharpen	 With USB connection	 With video function	 With photo function	 Memory card	

### 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® Technology (Constant Force Technology)** guarantees a constant

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

**ROMAX® Compact**

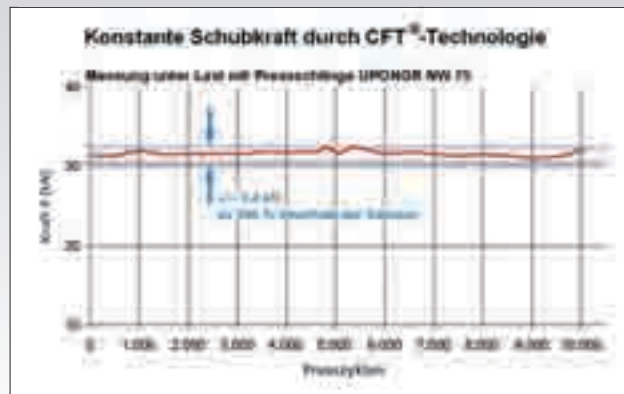
19-21 kN für 10,000 press cycles

**ROMAX® AC ECO**

32-34 kN für 10,000 press cycles

**ROMAX® 3000**

32-34 kN für 20,000 press cycles



### ROTHENBERGER DURAMAG® Technology

The **DURAMAG® Technology (High Tec Magnesium Body)** offers the following benefits:

- Improved performance
- Higher stability with considerably lower weight

DURA = Durable MAG = Magnesium



12  
Cu  
PVC  
MSR  
INOX

Packaging units:

1 (12) = 1 Display, Content 12 pieces

1/12 = packaging units 1 pieces oder 12 pieces



#### Disclaimer

ROTHENBERGER Werkzeuge GmbH  
Industriestraße 7  
D-65779 Kelkheim / Germany  
Telephone + 49 (0) 61 95 / 800-1  
Fax + 49 (0) 61 95 / 800 - 84 00  
info@rothenberger.com  
Court of Registry: Königstein / Taunus HRB 2732

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# ROTHENBERGER Worldwide

<b>Australia</b>	ROTHENBERGER Australia Pty Ltd Unit 6, 13 Hoyle Avenue Castle Hill • NSW 2154 Tel. + 61 2 / 98 99 75 77 • Fax + 61 2 / 98 99 76 77 rothenberger@rothenberger.com.au www.rothenberger.com.au	<b>Italy</b>	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 01 51 rothenberger@rothenberger.it www.rothenberger.it
<b>Austria</b>	ROTHENBERGER Werkzeuge- und Maschinen Handelsgesellschaft m.b.H. Gewerbeparkstraße 9 • A-5081 Anif near Salzburg Tel. + 43 62 46 / 7 20 91-45 • Fax + 43 62 46 / 7 20 91 -15 office@rothenberger.at www.rothenberger.at	<b>Netherlands</b>	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 www.rothenberger.nl
<b>Belgium</b>	ROTHENBERGER Benelux b.v.b.a. Antwerpsesteenweg 59 • B-2630 Aartselaar Tel. + 32 3 / 8 77 22 77 • Fax + 32 3 / 8 77 03 94 info@rothenberger.be www.rothenberger.com	<b>Poland</b>	ROTHENBERGER Polska Sp.z o.o. Ul. Annopol 4A • Budynek C • PL-03-236 Warszawa Tel. + 48 22 / 2 13 59 00 • Fax + 48 22 / 2 13 59 01 biuro@rothenberger.pl www.rothenberger.pl
<b>Brazil</b>	ROTHENBERGER do Brasil Ltda. Rua marinho de Carvalho, No. 72 - Vila Marina 09921-005 Diadema - Sao Paulo - Brasil Tel. + 55 11 / 40 44 47-48 • Fax + 55 11 / 40 44 50-51 vendas@rothenberger.com.br www.rothenberger.com.br	<b>Russia</b>	ROTHENBERGER Russia Avtosavodskaya str. 25 115280 Moscow, Russia Tel. + 7 495 / 792 59 44 • Fax + 7 495 / 792 59 46 info@rothenberger.ru www.rothenberger.ru
<b>Bulgaria</b>	ROTHENBERGER Bulgaria GmbH Boul. Sitniakovo 79 • BG-1111 Sofia Tel. + 35 9 / 2 9 46 14 59 • Fax + 35 9 / 2 9 46 12 05 info@rothenberger.bg www.rothenberger.bg	<b>South Africa</b>	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 33 • Fax + 27 11 / 3 72 96 32 info@rothenberger-tools.co.za www.rothenberger-tools.co.za
<b>Chile</b>	ROTHENBERGER Chile Limitada Santo Domingo, 1160 Piso 11 • Oficina 1101 Santiago de Chile • Chile Tel. + 56 253 964 00 • Fax + 56 253 964 00 ventas.chile@rothenberger.es	<b>Spain</b>	ROTHENBERGER S.A. Ctra. Durango-Elorrio, Km 2 • E-48220 Abadiano (Vizcaya) (P.O. Box) 117 • E-48200 Durango (Vizcaya) Tel. + 34 94 / 6 21 01 00 • Fax + 34 94 / 6 21 01 31 export@rothenberger.es www.rothenberger.es
<b>China</b>	ROTHENBERGER Pipe Tool (Shanghai) Co., Ltd. D-4, No. 195 Qianpu Road, East New Area of Songjiang Industrial Zone, Shanghai 201611, China Tel. + 86 21 / 67 60 20 77 • + 86 21 / 67 60 20 61 Fax + 86 21 / 67 60 20 63 office@rothenberger.cn	<b>Sweden</b>	ROTHENBERGER Sweden AB Hemvärnsgatan 22 • S-171 54 Solna, Sverige Tel. + 46 8 / 54 60 23 00 • Fax + 45 98 / 15 68 23 roscan@rothenberger.dk www.rothenberger.com
<b>Czech Republic</b>	ROTHENBERGER CZ Prumyslova 1306/7, 102 00 Praha 10 Tel. + 420 271 730 183 • Fax + 420 267 310 187 info@rothenberger.cz www.rothenberger.cz	<b>Switzerland</b>	ROTHENBERGER (Schweiz) AG Herostr. 9 • CH-8048 Zürich Tel. + 41 44 / 435 30 30 • Fax + 41 44 / 401 06 08 info@rothenberger-werkzeuge.ch
<b>Denmark</b>	ROTHENBERGER Scandinavia A/S Smedevænget 8 • DK-9560 Hadsund Tel. + 45 98 / 15 75 66 • Fax + 45 98 / 15 68 23 roscan@rothenberger.dk	<b>Turkey</b>	ROTHENBERGER Tes. Alet ve Mak. San. Tic. Ltd. Sti Poyraz Sok. No: 20/3 - Detay Is Merkezi TR-34722 Kadiköy-Istanbul Tel. + 90 / 216 449 24 85 • Fax + 90 / 216 449 24 87 rothenberger@rothenberger.com.tr www.rothenberger.com.tr
<b>France</b>	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	<b>UAE</b>	ROTHENBERGER Middle East FZCO PO Box 261190 • Jebel Ali Free Zone Dubai, United Arab Emirates Tel. + 971 / 48 83 97 77 • Fax + 971 / 48 83 97 57 office@rothenberger.ae  ROTHENBERGER EQUIPMENT TRADING & SERVICES LLC PO Box 91208 • Mussafah Industrial Area Abu Dhabi, United Arab Emirates Tel. + 971 / 25 50 01 54 • Fax + 971 / 25 50 01 53 uaesales@rothenberger.ae
<b>Germany</b>	ROTHENBERGER Deutschland GmbH Industriestraße 7 • 65779 Kelkheim/Germany Tel. + 49 6195 / 800 81 00 • + 49 6195 / 800 37 39 verkauf-deutschland@rothenberger.com www.rothenberger.com  ROTHENBERGER Werkzeuge Produktion GmbH Lilienthalstraße 71 - 87 • D-37235 Hessisch-Lichtenau Tel. + 49 56 02 / 93 94 - 0 • Fax + 49 56 02 / 93 94 36	<b>UK</b>	ROTHENBERGER UK Limited 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
<b>Greece</b>	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 www.rothenberger.com	<b>USA</b>	ROTHENBERGER USA L.L.C. 7130 Clinton Road • Loves Park, IL 61111, USA Tel. + 1 / 8 15 3 97 70 70 • Fax + 1 / 8 15 3 97 82 89 pipetools@rothenberger-usa.com www.rothenberger-usa.com  ROTHENBERGER USA Inc. Western Regional Office • 955 Monterey Pass Road Monterey Park, CA 91754 Tel. + 13 23 / 2 68 13 81 • Fax + 13 23 / 26 04 97
<b>Hungary</b>	ROTHENBERGER Hungary Kft. Gubacsi út 26 • H-1097 Budapest Tel. + 36 1 / 3 47 - 50 40 • Fax + 36 1 / 3 47 - 50 59 info@rothenberger.hu www.rothenberger.hu		
<b>India</b>	ROTHENBERGER India Private Limited B-1/D-5, Ground Floor Mohan Cooperative Industrial Estate Mathura Road, New Delhi 110044 Tel. + 91 11 / 41 69 90 40, 41 69 90 50 • Fax + 91 11 / 41 69 90 30 contactus@rothenbergerindia.com		

**www.rothenberger.com**

ROTHENBERGER Werkzeuge GmbH  
Industriestraße 7  
D-65779 Kelkheim/Germany  
Phone + 49 61 95 / 800-0  
Fax + 49 61 95 / 800-3500  
info@rothenberger.com



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