

# ROTHENBERGER

pipetool technologies at work

## 2014/2015







## Welcome to ROTHENBERGER!

Welcome to our world of pipe tools.

With a product range of more than 6,000 products we offer a broad and deep product portfolio of professional pipe tools. This enables us to offer comfortable “One-stop-shopping” for our partners in skilled crafts and trades, commerce and industry.

However it is not just a matter of quantity: More than 200 patents and trademarks as well as a high rate of own-manufactured products are proof of the fineness and quality of our products.

Our goal is to support and simplify the work of our customers in their everyday professional work allowing them to deliver optimum results in the shortest possible time. This is an ambition which requires us to renew our efforts everyday in order to deliver valuable solutions.

For more than 60 years ROTHENBERGER offers high quality, technically sophisticated pipe tools and machines. Our products are being used by professional craftsmen all over the world, whether it is in the sanitary area or in heating, air conditioning, refrigeration, gas and environmental engineering.

More than 1,700 colleagues in 50 branches and 17 production facilities throughout the world develop and manufacture about 28 millions tools a year which are sold in 90 countries around the world.



## Once ROTHENBERGER, always ROTHENBERGER.

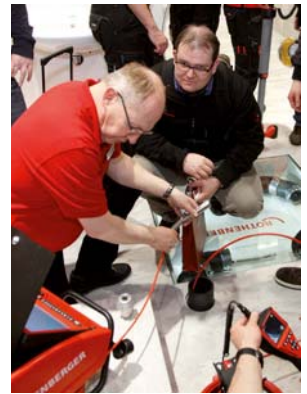
We invest our utmost to provide satisfying solutions.

There are many good reasons why to chose our products not only once but always:

our full range offers everything a professional needs – from a hand-held tool through to a municipal cleaning vehicle, when you need it.

“Made by ROTHENBERGER” is not only a cliché since 60% of our products are own-manufactured. Engineers and technicians are constantly further developing and extending our product range and enrich the branch with innovative products and technologies such as the Constant Force Technology (CFT®) for a constant axial pressing force for manufacturing sealed press connections.

Our tools and machines are manufactured in 17 ROTHENBERGER production facilities throughout the world which also includes our own company forge in Abadiano, Spain.



## Specialist knowledge for first class products

With the right qualifications into  
a secure future.

The development of technologically high-quality products, as well as the qualification of our employees and end-users, is a defining factor in our success. That is why we as a manufacturer will continue to focus on competence and innovative supportive activities in all our future business lines.

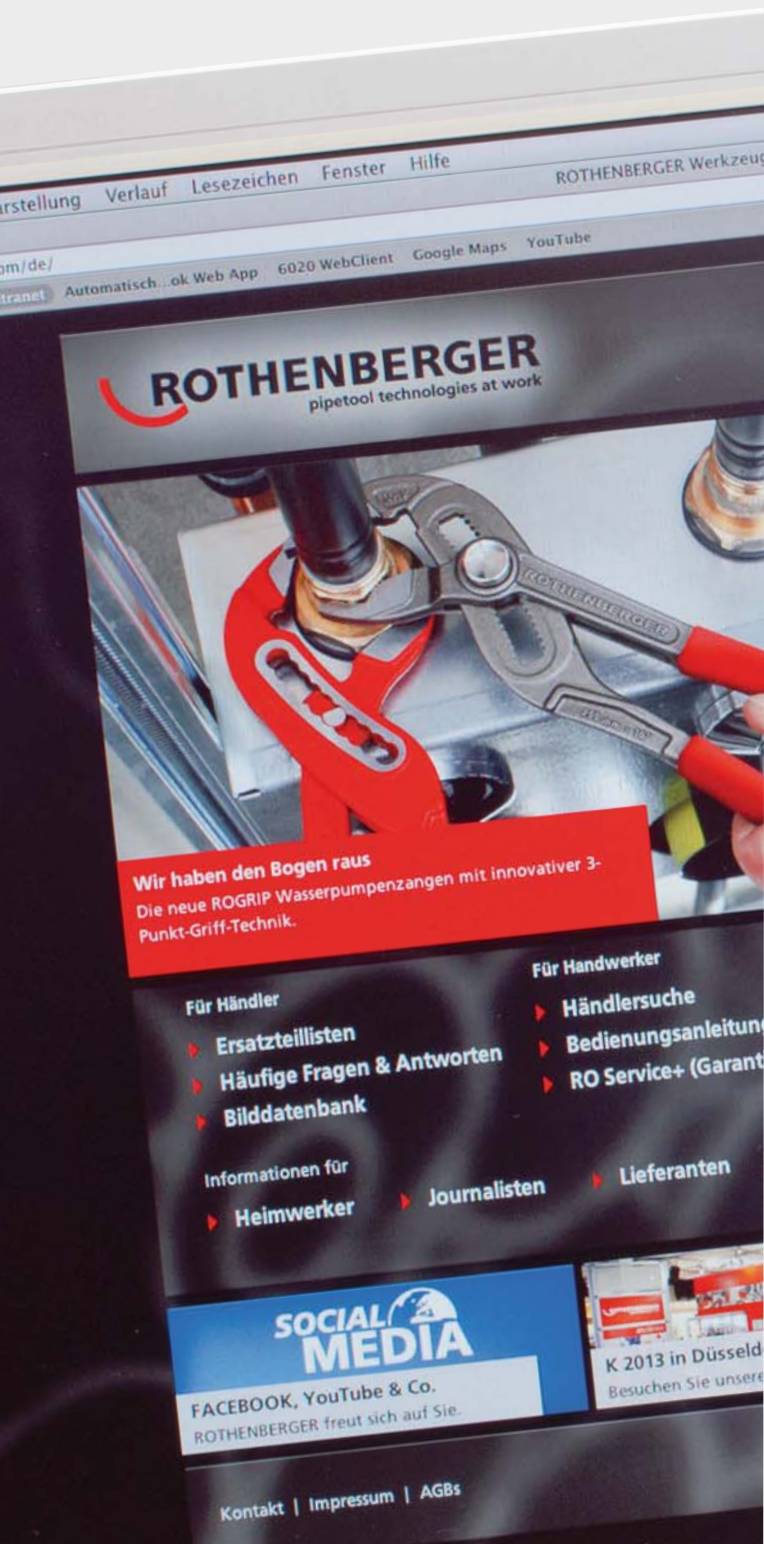


## Get involved in supporting TOOLS FOR LIFE!

Water, energy and education for the world.

It was in 2008 that Dr. Helmut Rothenberger founded the charitable foundation TOOLS FOR LIFE. Its mission: providing material resources such as water and energy as well as immaterial resources such as education, training and coaching particularly to poorer regions of the world. Please help strengthen the engagement of TOOLS FOR LIFE and donate to support one of the sustainable projects. You can obtain more information about this at [www.toolsforlife-foundation.com](http://www.toolsforlife-foundation.com)





## We also are, where you are.

### How you can contact us.

Whether you are interested in ordering our tools, desire to arrange a service contract or simply wish to be our friend on Facebook – we are there for you.

You can find your next ROTHENBERGER dealer by using the dealer search function on our website.

Our sales colleagues, who can give you a demonstration of our tools “live at work” in your workshop or on the building site, can be contacted over your dealer or by calling our headquarters in Kelkheim. We are, of course, always present at all major exhibitions, whether national or international. You can also find current dates for these on our website. We offer training sessions at your premises to support application and use of our tools – an opportunity to learn about and try our latest products. Possible current dates for these can be found at:

<http://www.rothenberger.com/en/service/trainings/>.

You will also find a range of application videos which provide information rapidly at:

[www.youtube.com/rothenbergertv](http://www.youtube.com/rothenbergertv). Keep yourself informed about new developments from our companies and the branch as a ROTHENBERGER fan at:

[www.facebook.com/rothenberger](http://www.facebook.com/rothenberger). Please feel free to contact us if you feel we have forgotten something or if you wish to make any remarks at:

[info@rothenberger.com](mailto:info@rothenberger.com) – we look forward to receiving your email.



# Content

# Applications

	Content					Page	
Installation					Cutting	8	
					RODIA® Diamond-Core Drilling	30	
					Bending	54	
					Bonding	74	
Service & Maintenance					Testing & Leak Detection	172	
					Freezing	182	
					Inspection & Locating	188	
					Flushing & Pipe Cleaning	202	
					ROWELD® Plastic Pipe Welding	240	
					Refrigeration & Air-Conditioning Technology	262	
General-Purpose Tools					General-Purpose Tools	282	
Table of Contents				Table of Contents by Application		318	<b>12</b>
				Table of Contents Alphabetical / Numerical, Pictograms / Abbreviations		320	<b>13</b>



"TUBE CUTTER 35: smooth - fast adjustment of the working area thanks to an ergonomic handle. Retractable internal deburrer and spare cutter wheel in handle"





# Cutting

## Cutting Metal Manual

Tube Cutter for Copper & Steel	10 - 14
Tube Cutter for Stainless Steel (INOX) & Steel	14 - 16
Cutting Wheels & Spare Parts	17

## Cutting Plastic / MSR Manual

Plastic Pipe Shears	18 - 19
Tube Cutter for Plastic	20 - 21
Tube Cutter for MSR	21

## Sawing Manual

Hand Saws & Saw Blades	22
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## Sawing Electric

Band Saws	23
Universal Saws	25
Saw Blades	26

## Deburring, Chamfering & Calibration

Universal Internal & External Deburrer	27
Deburrer for Metal	28
Chamfering Unit for Plastic	28
Deburrer for MSR	29



Do you want to know more about our products? Please scan the QR-Code!

# Cutting

## Cutting Metal Manual

1



### TUBE CUTTER 35 / 42 Pro

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



#### Product Profile

##### APPLICATION AREA

###### TC 35 / TC 42

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

###### TC 35 MSR / TC 42 Pro MSR

PE, PP, PVDF, plastic coated pipes, PVC hard plastic pipes

###### INOX TC 35 / INOX TC 42 Pro

Stainless steel pipes INOX TC 35 Ø 6 - 35 mm /  
 INOX TC 42 Ø 6 - 42 mm

##### KEY FEATURES

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

Metal casing with DURAMANT® coating:  
 Robust and extremely stable!



For copper and aluminium



For MSR-pipes



For INOX (Stainless Steel)-pipes



For refrigeration technology



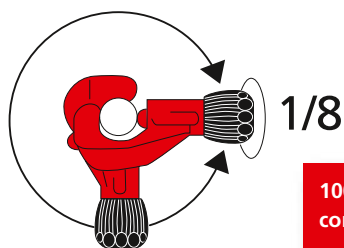
### TUBE CUTTER 35 DURAMAG® Counter Display

Counter display includes six TUBE CUTTER 35 DURAMAG®

#### Product Profile

#### KEY FEATURES

- Improved performance
- Higher stability with noticeably less weight



Constant, tight working radius of 123 mm



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



No. 070027DB

Model	mm	inch	g	mm	No.
TUBE CUTTER 35 DURAMAG® (Cu, brass, Al, thin-walled pipe)	6 - 35	1/4" - 1.3/8"	255	1 4	<b>70027</b>
TUBE CUTTER 35 DURAMAG® Display	6 - 35	1/4" - 1.3/8"	1700	1 6	<b>070027DB</b>
TUBE CUTTER 35 C (for refrigeration)	6 - 35	1/4" - 1.3/8"	470	1 4	<b>070027C</b>
TUBE CUTTER 35 DURAMAG® MSR	6 - 35	1/4" - 1.3/8"	470	1 4	<b>70108</b>
TUBE CUTTER 42 PRO (Cu, brass, thin-walled steel pipe)	6 - 42	1/4" - 1.5/8"	540	1 4	<b>70029</b>
TUBE CUTTER 42 PRO MSR	6 - 42	1/4" - 1.5/8"	540	1 4	<b>70109</b>
TUBE CUTTER 42 PRO PVC	6 - 42	1/4" - 1.5/8"	540	1 4	<b>70072</b>
INOX TUBE CUTTER 35 PRO DURAMAG® (stainless steel)	6 - 35	1/4" - 1.3/8"	470	1 4	<b>70055</b>
INOX TUBE CUTTER 42 PRO	6 - 42	1/4" - 1.5/8"	540	1 4	<b>70070</b>

### ROTRAC 28 / 42

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



#### Product Profile

#### KEY FEATURES

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



Casing made in one cast

Stable and long-lasting

Model	mm	inch	g	No.	Description	g	No.
ROTRAC 28	3 - 28	1/8 - 1.1/8"	220	<b>70010</b>	Spare cutter wheel (contains 3 pcs.) Cu, Al, brass	20	<b>070007D</b>
ROTRAC 42	6 - 42	1/4 - 1.5/8"	255	<b>70011</b>	Spare axle	5	<b>70080</b>

#### ACCESSORIES

Model	No.
Internal / External deburrer, Ø 6 - 35 mm	<b>27 1500000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>27 1500000236</b>
GRATFIX	<b>28 21655</b>
UNIGRAT	<b>28 21660</b>
Spare cutter wheels	<b>17</b>



# Cutting

## Cutting Metal Manual

1



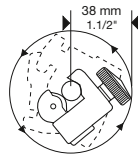
### MINICUT I PRO / II PRO

Copper pipe cutter  $\varnothing$  3 - 22 mm (1/8 - 7/8")

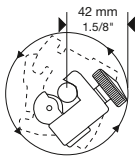
Ideal for maintenance and repair work!



No. 70401



No. 70402



#### KEY FEATURES

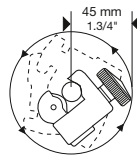
- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with small working radius (38 mm and/or 1.1/2" I PRO/42 mm and/or 1.5/8" II PRO) allows use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts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

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

### MINICUT 2000

Copper pipe cutter  $\varnothing$  6 - 22 mm (1/4 - 7/8")

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



#### KEY FEATURES

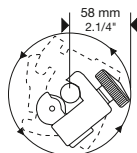
- For copper, brass, aluminium, thin-walled steel pipes
- Handy design with small working radius (45 mm and/or 1.3/4") allows use in hard-to-reach places
- Effortless pressure control with the large knurled knob and handy design
- Two guide rollers with recess for cuts near flares

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

### MINI MAX

Copper pipe cutter  $\varnothing$  3 - 28 mm (1/8 - 1.1/8")

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



#### KEY FEATURES

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

Model	mm	inch	g		No.
MINI MAX	3 - 28	1/8 - 1.1/8"	270	1 4	<b>70015</b>
Spare cutter wheel			20	1(5)	<b>070017D</b>
Spare axle			5	1	<b>70041</b>

### TUBE CUTTER 30 PRO / 50

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

#### KEY FEATURES

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



No. 71019

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>

Model	g		No.
Spare cutter wheel (contains 5 pc.)	20	1	<b>070017D</b>
Spare axle	5	1	<b>70041</b>

### Automatic Ratchet Telescopic Pipe Cutter

Telescopic pipe cutter Ø 6 - 67 mm (1/4 - 2.5/8")

#### KEY FEATURES

- For copper, brass, aluminium, thin-walled steel pipes, as well as plastic coated pipes
- Retractable internal deburrer and spare cutter wheel in handle
- Monoblock design
- Quick adjustment with the ratchet telescopic guide with automatic spring-driven release
- Self-clamping prevents release due to quick adjustment during the cutting process



No. 70030



Model	mm	inch	g	No.
Size 1	6 - 67	1/4 - 2.5/8"	755	<b>70030</b>
Size 1 Spare deburring blade			5	<b>21652</b>
Size 1 Spare cutter wheel (5 pcs.)			20	<b>070017D</b>
Size 2 Spare cutter wheel (2 pcs.)			20	<b>070057D</b>
Size 2 Spare deburring blade			5	<b>21652</b>

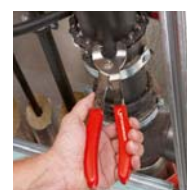
Model	mm	inch	g	No.
Size 2	50 - 127	2 - 5"	1850	<b>70142</b>
Size 1 Spare axle			20	<b>70042</b>
Size 1 Spare deburrer complete			5	<b>7500041</b>
Size 2 Spare axle			5	<b>70149</b>

### Chain Pipe Cutter

For pipes Ø 20 - 100 mm (1 - 4")

#### KEY FEATURES

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



No. 70285

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

#### ACCESSORIES

Model		No.
Internal / External deburrer, Ø 6 - 35 mm	<b>27</b>	<b>150000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>27</b>	<b>150000236</b>
GRATFIX	<b>28</b>	<b>21655</b>
UNIGRAT	<b>28</b>	<b>21660</b>
Spare cutter wheels	<b>17</b>	



# Cutting

## Cutting Metal Manual

1



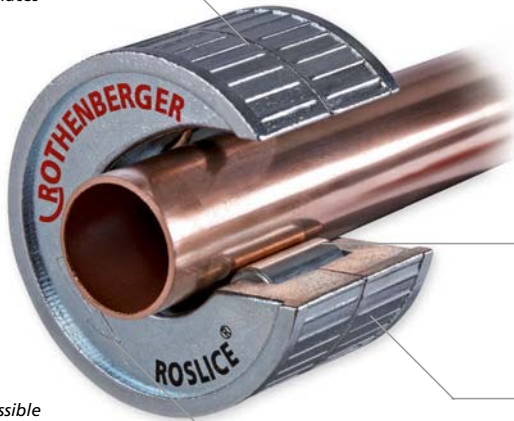
### ROSLICE®

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



Ergonomic form

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



Pipe cutting possible near the wall



Indicates rotating direction

Quick cutting with just a few turns

#### KEY FEATURES

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

#### Self-clamping and self-alignment

Prevents the deformation of the pipe

#### Non-slip surface

Reliable grip

Model	mm/inch	g	No.
ROSLICE®	12 mm	1 240	<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 37.4	<b>088842D</b>

### 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

INOX!



2 guide rollers with recess

Cut near flares



Precise cutting of stainless steel pipes



Internal deburrer

Retractable

Cutter wheel compartment

Spare cutter wheel always within reach

#### KEY FEATURES

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

Model	mm	inch	g	No.
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>
Spare axle			5	<b>70041</b>



**INOX!**



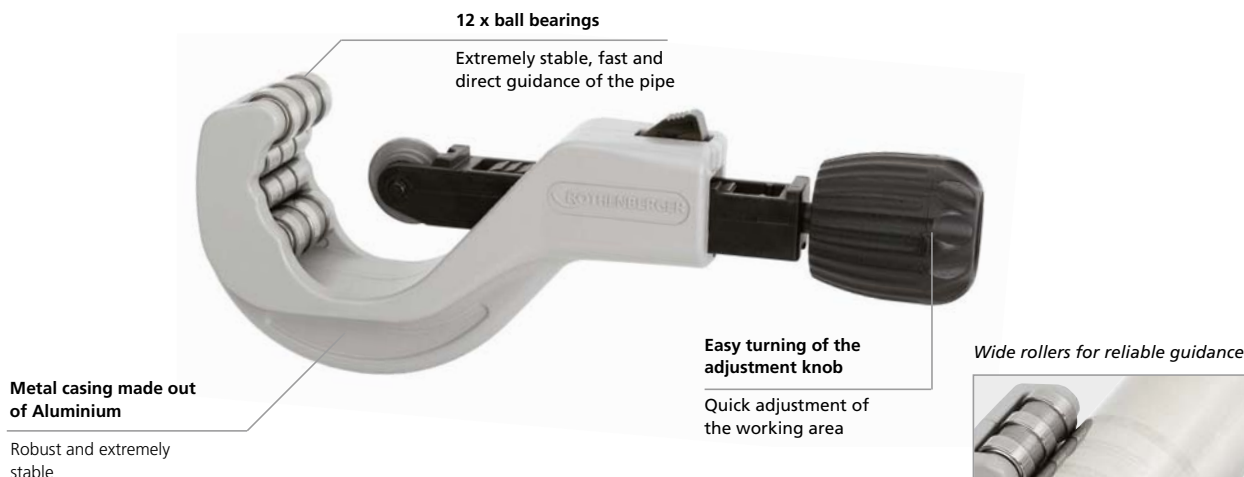
### INOX TUBE CUTTER

Ratchet telescopic pipe cutter Ø 6 - 60 mm (1/4 - 2.1/8") for the precise cutting of stainless steel pipes

#### KEY FEATURES

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

**12 x ball bearings!**



Model	mm	inch	g		No.
INOX TUBE CUTTER	6 - 60	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

**INOX!**

#### KEY FEATURES

- 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



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>
Spare deburring blade			10	<b>21652</b>

#### ACCESSORIES

Model		No.
Internal / External deburrer, Ø 6 - 35 mm	<b>27</b>	<b>1500000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>27</b>	<b>1500000236</b>
GRATFIX	<b>28</b>	<b>21655</b>
UNIGRAT	<b>28</b>	<b>21660</b>
Spare cutter wheels	<b>17</b>	



# Cutting

## Cutting Metal Manual

1



### ENORM 4"

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

#### KEY FEATURES

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

Thread for handle



Handle (included in delivery)



#### KEY FEATURES

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

Model	mm	inch	g	No.	Model	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>		

### SUPER 1.1/4" and 2"

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

#### KEY FEATURES (SUPER/INOX SUPER)

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



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

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

#### KEY FEATURES (SUPER/INOX SUPER)

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



**INOX!**

Precise cutting of stainless steel pipes



Model	mm	inch	g	No.	Model	mm	inch	g	No.		
SUPER 1.1/4"	10 - 42	1/8 - 1.1/4"	1040	<b>70040</b>	INOX SUPER 1.1/4"	10 - 42	1/8 - 1.1/4"	1040	<b>70086</b>		
SUPER 2"	10 - 60	1/8 - 2"	2155	<b>70045</b>	INOX SUPER 2"	10 - 60	1/8 - 2"	2155	<b>70087</b>		
1.1/4" Spare cutter wheel (contains 3 pcs.)				20	<b>070046D</b>	1.1/4" Spare cutter wheel (contains 2 pcs.)				20	<b>070088D</b>
1.1/4" Spare axle				5	<b>70048</b>	1.1/4" Spare axle				5	<b>70048</b>
2" Spare cutter wheel (contains 3 pcs.)				20	<b>070051D</b>	2" Spare cutter wheel (contains 2 pcs.)				20	<b>070089D</b>
2" Spare axle				5	<b>70053</b>	2" Spare axle				5	<b>70053</b>

#### ACCESSORIES

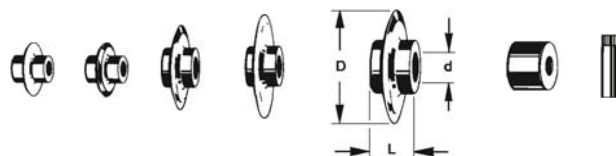


Model	No.
Internal / External deburrer, Ø 6 - 35 mm	<b>27 150000237</b>
Internal / External deburrer, Ø 10 - 54 mm	<b>27 150000236</b>
GRATFIX	<b>28 21655</b>
UNIGRAT	<b>28 21660</b>
Spare cutter wheels	<b>17</b>



### Pipe Cutters, Cutting Wheels and Spare Parts

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



Pipe cutter type	Model for pipe - Ø	No.	Cutting wheel No.	Sizes d, L, D mm		Cutting depth	Spare axle No.	Ø mm Length mm Thread	Spare roller No.	Deburring blade No.	Application area	
MINICUT I PRO	3 - 16 mm	70401	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-	Copper pipe (Cu), Brass pipe (Ms), Aluminium pipe (Al), thin-walled Steel pipe (Fe), PVC hard plastic pipe Plastic coated pipe	
MINICUT II PRO	6 - 22 mm	70402	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70023	-		
MINICUT 2000	3 - 22 mm	70105	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-		
MINIMAX	3 - 28 mm	70015	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3	-	-		
TUBE CUTTER 30 PRO	3 - 30 mm	71019	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	-	Copper pipe (Cu), Brass pipe (Ms), Aluminium pipe (Al), thin-walled Steel pipe (Fe), PVC hard plastic pipe Plastic coated pipe	
TUBE CUTTER 35 + 35 C	6 - 35 mm	070027(C)	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652		
TUBE CUTTER 42 PRO	6 - 42 mm	70029	070017D	4.8 / 5.95 / 18.5	5	3.0	70041	4.7 / 14 / M3	70067	21652		
TUBE CUTTER 35 MSR	6 - 35 mm	70108	070188D	4.8 / 5.9 / 19.3	5	3.0	70041	4.7 / 14 / M3	70067	21652	Copper pipe (Cu), Brass pipe (Ms), Aluminium pipe (Al), thin-walled Steel pipe (Fe), PVC hard plastic pipe Plastic coated pipe	
TUBE CUTTER 42 PRO MSR	6 - 42 mm	70109	070188D	4.8 / 5.9 / 19.3	5	3.0	70041	4.7 / 14 / M3	70067	21652		
TUBE CUTTER 50	12 - 50 mm	70065	070017D	4.8 / 5.9 / 18.5	5	3.0	70006	4.7 / 16 / M4	-	-	Multi-layered composite pipe	
AUTOMATIK Pipe Cutter	Size 1	6 - 67 mm	70030	070017D	4.8 / 5.9 / 18.5	5	3.0	70041	4.7 / 16 / M4	-	21652	Cu, Ms, Al, Fe thin-walled.
			70031	070028D	4.8 / 11 / 29.0	3	7.0	70041	4.7 / 16 / M4	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
			70142	070057D	8 / 11 / 29.0	2	7.0	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. Cu, Ms, Al, Fe
	Size 2	50 - 127 mm		055054D	8 / 11 / 40.0	3	13.0	70149	7.9 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
				055053D	8 / 11 / 30.5	2	8.6	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. PP pipes
	Size 3	100 - 168 mm		055074D	8 / 11 / 45.0	2	16.0	70149	7.9 / 23.5 / 1/4"	-	21652	PE-, PP-, VPE, PB- and PVDF pipes
				055053D	8 / 11 / 30.5	2	8.6	70149	7.9 / 23.5 / 1/4"	-	21652	thin-walled. PP pipes
TUBE CUTTER 28	3 - 28 mm	70010	070007D	4.8 / 3 / 16	3	2.5	70080 + 70081	4.7 / 9 / SR	80679	-	Cu, Ms, Al, Fe thin-walled.	
TUBE CUTTER 42	3 - 42 mm	70011	070007D	4.8 / 3 / 16	3	2.5	70080 + 70081	4.7 / 9 / SR	80679	-	Cu, Ms, Al, Fe thin-walled.	
TUBE CUTTER 42 PRO PVC	6 - 42 mm	70072	070028D	4.8 / 6 / 23.6	3	7.0	70041	4.7 / 14 / M3	70067	-	PE-, PP-, VPE, PB- and PVDF pipes	
Steel Pipe Cutter SUPER	1/8" - 1.1/4"	70040	070046D	7.5 / 13.5 / 26	3	5.5	70048	7.4 / 30 / -	70047	-	Steel pipe	
	1/8" - 2"	70045	070051D	9.0 / 19 / 31.5	3	7.0	70053	8.9 / 35 / -	70052	-	Steel pipe	
Steel Pipe Cutter ENORM	2" - 4"	70060	070061D	9.7 / 27 / 41.5	2	7.0	70064	9.4 / 52 / -	70063	-	Steel pipe	
INOX TUBE CUTTER 30 PRO	3 - 30 mm	71085	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	-	Stainless steel pipe	
INOX TUBE CUTTER	6 - 60 mm	70340	70341	6 / 10 / 30	2	3.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
INOX TUBE CUTTER 35	6 - 35 mm	70055	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
INOX TUBE CUTTER 42 PRO	6 - 42 mm	70070	070056D	4.8 / 5.9 / 18.5	5	4.0	70041	4.7 / 14 / M3	70068	21652	Stainless steel pipe	
INOX SUPER	1/8" - 1.1/4"	70086	070088D	7.5 / 13.5 / 26	2	5.5	70048	7.4 / 30 / -	70047	-	Stainless steel pipe	
	1/8" - 2"	70087	070089D	9.0 / 19 / 31.5	2	7.0	70053	8.9 / 35 / -	70052	-	Stainless steel pipe	
Chain Pipe Cutter	100 mm	70285	-	4.0 / 3.8 / 17.8	-	3.0	-	-	-	Spare chain 70286	Cu, Ms, Al, Fe thin-walled.	

# Cutting

## Cutting Plastic / MSR Manual

1



### ROCUT®

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

The ROTHENBERGER plastic pipe shears for the highest quality requirements. Knife blades deliver clean and straight cuts on pipe diameters up to 75 mm and especially for all the current plastic types

used in installations. The aluminium construction guarantees precise operation and long professional service use.

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### KEY FEATURES

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

##### TECHNICAL DATA

###### ROCUT® Professional:

**TC 42:** Ø 0 - 42 mm

**TC 50:** Ø 0 - 50 mm

**TC 63:** Ø 0 - 63 mm

**TC 75:** Ø 0 - 75 mm

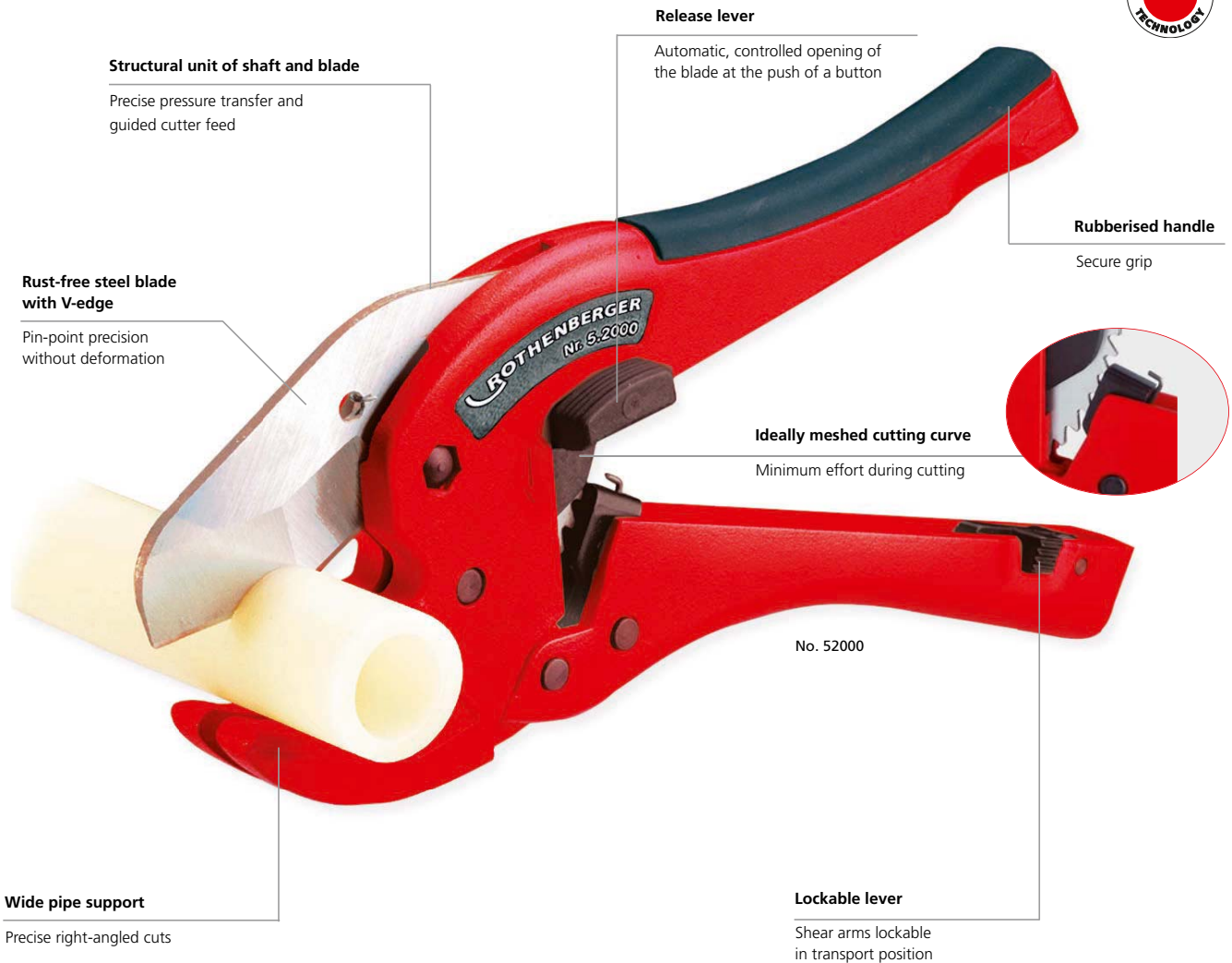
###### ROCUT® Standard:

**TC 26:** Ø 0 - 26 mm

**TC 32:** Ø 0 - 32 mm

**PS 35:** Ø 6 - 35 mm

**PS 26/42:** Ø 6 - 42 mm



### 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



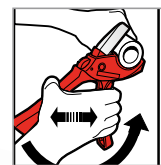
### ROCUT® TC 26 / TC 32 PS 26 / PS 42 S / PS 35 S

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>

#### ACCESSORIES

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

Description	mm	inch	g	No.
Spare stainless steel blade for TC 32 Professional	0 - 32	0 - 1.3/8"	120	1
Spare stainless steel blade for PS 35 S	6 - 35	1/4 - 1.3/8"	30	1
Spare stainless steel blade for PS 26 / 42 S	6 - 42	1/4 - 1.5/8"	60	1
Spare stainless steel blade for TC 42 Professional	6 - 42	0 - 1.5/8"	120	1
Spare stainless steel blade for TC 50 Professional	0 - 50	0 - 2"	120	1
Spare stainless steel blade for TC 63 Professional	0 - 63	0 - 2.1/2"	130	1
Spare stainless steel blade for TC 75 Professional	0 - 75	0 - 3"	190	1

# Cutting

## Cutting Plastic / MSR Manual

1



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

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

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



No. 70033

Removable internal pipe deburrer



No. 070031D

Model	mm	inch	Cutting-depth	kg		No.
TC 67 PL	6 - 67	1/4 - 2.5/8"	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>
Cutting Wheels, Spare Parts					17	

### Jacket Pipe Cutter

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

##### KEY FEATURES

- Ideal tool for the removal of the protective hose on pipes
- Very robust 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>

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

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

#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

- Space-saving work, also in confined spaces, uniform, small working radius of 123 mm
- Right-angled and burr-free cutting with precise telescopic guidance
- Fast and simple adjustment of the working range due to the feed being synchronised with the feeder rotation
- Optimum, fatigue-free operation with the optimised ergonomic handle
- Only one tool for cutting and deburring, integrated, retractable internal pipe deburrer
- Spare cutter wheel in the handle

#### TECHNICAL DATA

<b>TC 35 MSR:</b>	6 - 35 mm	1/4 - 1.3/8"
<b>TC 42 PRO MSR:</b>	6 - 42 mm	1/4 - 1.5/8"
<b>TC 42 PRO PVC:</b>	6 - 42 mm	1/4 - 1.5/8"



No. 70108

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

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

### PLASTICUT PVC

For quick, clean and right angled cuts on PVC pipes

#### KEY FEATURES

- 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

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



Indicates rotating direction

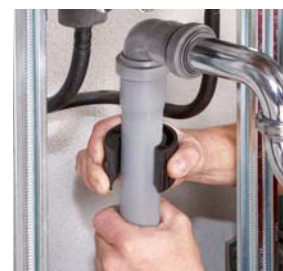


Best contact with the pipe  
Straight cut

Fig. PLASTICUT PVC

Model	mm	No.
PLASTICUT PVC	32 mm	<b>59035</b>
PLASTICUT PVC	40 mm	<b>59042</b>
PLASTICUT PVC	50 mm	<b>59050</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>

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



# Cutting

1


## Sawing Manual

### 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>

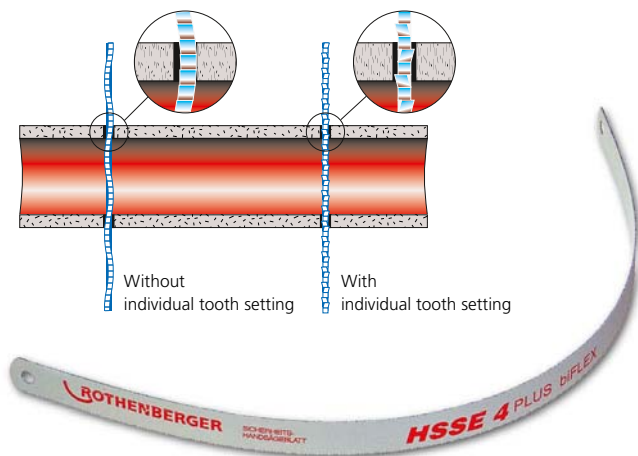
### Metal Saw Frame

- 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 cuts 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

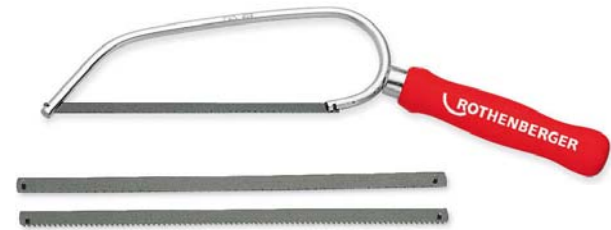
- Large dimension tightening screw




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 saw blade

Highly flexible spring band steel with fused HSSE cutter

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



Model	mm	TPI	 g			No.
HSSE 4 Plus	300	24	20	1	100	<b>71213</b>

### PORTACUT 185 BSR / PORTACUT 185 BSP

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

#### KEY FEATURES

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

#### PORTACUT 185 BSR

- With safety chain quick-grip system

#### PORTACUT 185 BSP

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

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

Scope of delivery: PORTACUT 185 BSR and/or BSP, 2 band saw blades HSS Bi-Metal 14 TPI (No. 56605)

Model	kg	230 V	110 V
PORTACUT 185 BSR	43.0	<b>56710</b>	<b>56717</b>
PORTACUT 185 BSP	49.0	<b>56711</b>	<b>56718</b>



Fig. PORTACUT 185 BSR



Fig. PORTACUT 185 BSP

### Band Saw Blades for PORTACUT 185 BSR / BSP

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



### TRENNBOY 300

Pipe cutter up to Ø 300 mm

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

#### KEY FEATURES

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

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



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

# Cutting

## Sawing Electric

1

### ROTIGER VARIO Electronic

#### Pipe saw

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



#### Product Profile

##### KEY FEATURES

- The special chain tensioning device enables precise 90° cuts on all types of 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

##### TECHNICAL DATA

<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)

#### L- and U-Shaft attachments



#### Precise 90° cuts



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	7.0	<b>50306</b>	<b>50305</b>
Chain tensioning device up to 6"			<b>50311</b>
Tensioning device 2 in 1 (Chain tensioning device up to 6" + collet chucks up to 2")			<b>50312</b>



Fig. ROTIGER VARIO Electronic



### Universal ROTIGER VARIO Electronic

#### Universal electronic saw

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



#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

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



**Carbon brush**  
Simple exchange with the exterior screw joint

**Adjusting wheel**  
Simple speed adjustment for various uses

**Quick tensioning for saw blades**  
Very robust turning / tensioning lock



**Double insulation**  
Better protection against moistness

**Ergonomic D-handle**  
Fits perfectly in the hand during sawing

**Adjustable supporting shoe**  
Secure guidance of the saw

#### Universal-shaft attachment



#### Working in confined spaces



Set (No. 50301/50302 includes: Universal ROTIGER VARIO electronic, 5 x HSS bi-metal saw blades

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



Fig. Universal ROTIGER VARIO Electronic

# Cutting



















































## Saw Blades

1



### UNIVERSAL HSS Bimetal / TCT TIGER SAW BLADES













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

Cuttable materials	materials	L x B x thickness mm	TPI		reference	 *	No.	
	 HSS Bimetal	100 x 20 x 0.9	24	L	S 522 AF	1 (5)	<b>865783</b>	
	 HSS Bimetal	150 x 20 x 0.9	24	L	S 922 AF	1 (5)	<b>865784</b>	
	 HSS Bimetal	150 x 20 x 0.9	18	L	S 922 EF	1 (5)	<b>865785</b>	
	 HSS Bimetal	150 x 20 x 0.9	14	L	S 922 BF	1 (5)	<b>865786</b>	
	 HSS Bimetal	200 x 20 x 0.9	18	L	S 1022 EF	1 (5)	<b>865787</b>	
	 HSS Bimetal	200 x 20 x 0.9	14	L	S 1022 BF	1 (5)	<b>865788</b>	
   	 HSS Bimetal	300 x 20 x 0.9	10 - 14	L	S 1222 VF	1 (5)	<b>865789</b>	
   	 HSS Bimetal	150 x 20 x 1.25	6	L	S 611 DF	1 (5)	<b>865781</b>	
   	 HSS Bimetal	300 x 20 x 1.25	6	L	S 1411 DF	1 (5)	<b>865782</b>	
  	 HSS Bimetal	150 x 22 x 1.6	8 - 10	L	S 920 CF	1 (5)	<b>865790</b>	
  	 HSS Bimetal	200 x 22 x 1.6	8 - 10	L	S 1120 CF	1 (5)	<b>865791</b>	
	TCT coated	225 x 20 x 1.5	30er grain	L	S 1130 RF	1 (5)	<b>865793</b>	

### HSS Bimetal








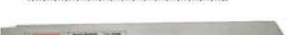






#### Special saw blades with U-shaft

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

Cuttable materials	material	L x B x thickness mm	TPI		reference	 *	No.	
	HSS Bimetal	140 x 25 x 1.6	8	U	S 920 CF	1 (5)	<b>865795</b>	
	HSS Bimetal	200 x 25 x 1.6	8	U	S 1120 CF	1 (5)	<b>865796</b>	
 	HSS Bimetal	150 x 25 x 1.0	10 - 14	U		1 (5)	<b>865798</b>	
 	HSS Bimetal	200 x 25 x 1.0	10 - 14	U		1 (5)	<b>865799</b>	

### Special Pipe Saw Blades

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

Cuttable materials	material	L x B x thickness 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. 150000237



No. 150000236

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>150000237</b>
Internal and external deburrer for copper and INOX (Stainless steel)	10 - 54	1/2 - 2"	390		<b>150000236</b>

### Deburrer Adaptor I / II

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

**Best deburring results at low speeds!**

#### Product Profile

#### KEY FEATURES

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



No. 11045




No. 11044

#### Drive shaft

For the deburring with portable screwdriver or drill



Model	 g	No.
Deburrer adaptor I for No. 150000237	160	<b>11044</b>
Deburrer adaptor II for No. 150000236	280	<b>11045</b>

# Cutting

1

## Deburring, Chamfering & Calibration

### GRATFIX HSS/UNIGRAT

#### Deburrer

##### KEY FEATURES

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

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



UNIGRAT (No. 21660)



No. 1 (No. 21652)

No. 2 (No. 21653)

No. 3 (No. 21654)



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>

Model	g	No.
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>

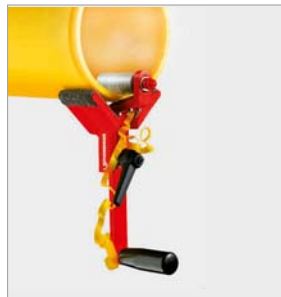
### Plastic Pipe Chamfering Unit

With replaceable blades Ø 16 - 160 mm

For 15° outer chamfers on plastic pipe



No. 55051



##### KEY FEATURES

- Flexible in use
- Wall thickness is continuously adjustable

Model	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>

### Ratchet Pipe Deburrer 1/4 - 2"

Rapid and clean deburring

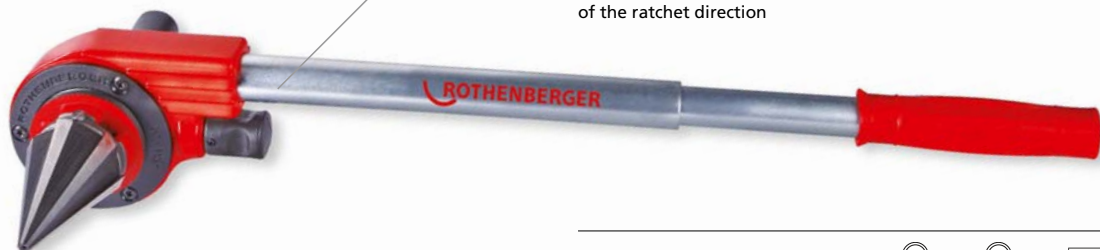
For steel pipes, with smooth-running ratchet, cutting bit made of tempered steel

##### Quick adjustment

Handy, lockable Reversal of the ratchet direction



Spare deburrer (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>

### ROGRAT-MSR Deburrer and Chamfering Tool

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



#### KEY FEATURES

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

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

True to size guiding and calibration pin

Increased safety, protects O-ring from damage



Shock-resistant protective sleeve

Protects from injury

Star handle with screw-bit attachment and quick locking mechanism

High force transmission



Fig. ROGRAT-MSR Deburrer Set

### ROGRAT-MSR System - Manual Chamfering Attachments

ROGRAT-Type	Press-System	Pipe measurement mm	Colour-code	g	No.
G 16		16.0 x 2.25	●	53	14102
G 20	GEBERIT Mepla	20.0 x 2.50	●	93	14104
G 26		26.0 x 3.00	●	108	14106
G 32		32.0 x 3.00	●	162	14107
U 14		14.0 x 2.00	●	51	14111
U 16		16.0 x 2.00	●	53	14112
U 18	UNIPIPE/TIGRIS-S	18.0 x 2.00	●	58	14113
U 20	WAVIN	20.0 x 2.25	●	93	14114
U 25		25.0 x 2.50	●	108	14115
U 32		32.0 x 3.00	●	162	14117
TH 14		14.0 x 2.00	●	51	14121
TH 16	Henco / MHS	16.0 x 2.00	●	53	14122
TH 18	Giacomini	18.0 x 2.00	●	58	14123
TH 20		20.0 x 2.00	●	93	14124
TH 26		26.0 x 3.00	●	108	14126
F 16-1		16.0 x 2.00	●	53	14132
F 18	Fränkische Rohrwerke	18.0 x 2.00	●	58	14133
F 20-1	alpex-therm	20.0 x 2.00	●	93	14134
F 26	alpex-san	26.0 x 3.00	●	108	14136
F 32		32.0 x 3.00	●	162	14137

● black ● brown ● violet ● yellow

Colour coding prevents confusion



System optimised chamfer



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

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



"The fully equipped drilling system RODIACUT® 170 PRO C in use with water removal and vacuum equipment, particularly suitable for use in dirt-sensitive rooms"



# RODIA®

## Diamond Core Drilling



<b>System Overview Diamond Core Drilling</b>	32
<b>Hand-Operated Drilling</b>	
Dry Drilling Machine	33
Wet Drilling Machine	34
<b>Hand-Operated and Stationary Wet Drilling</b>	
Wet Drilling Machine	35
RODIACUT® PRO Modular System	36
Diamond Wet & Dry Drilling Systems RODIACUT® PRO	37 - 43
<b>RODIA® Diamond Drill Bits</b>	
Drill Bit Types	44
Dry Cutting Drill Bit, Soldered	45
Dry Cutting Drill Bit, Space Welding	46 - 48
<b>Accessories for Hand-Operated &amp; Stationary Drilling</b>	
Drill Bit Set, Vacuum Pump System	49
Accessories Diamond Drilling	50 - 52
<b>Extraction Systems</b>	
Wet & Dry Extraction Unit	53



Do you want to know more about our products? Please scan the QR-Code!

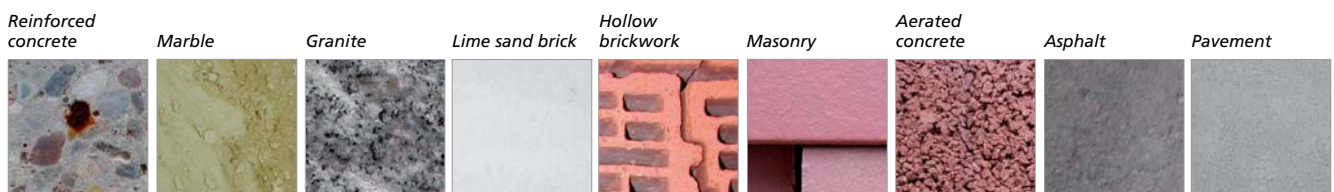
# RODIA® Diamond Core Drilling

## System Overview Diamond Core Drilling



ROTHENBERGER Diamond Core Drilling						
	RODIADRILL Ceramic / Ceramic ECO	RODIADRILL 1800 DRY	RODIACUT® 130 PRO	RODIACUT® 170 PRO	RODIACUT® 270 PRO	RODIACUT® 400 PRO D
<b>Drilling range in concrete</b>	6 - 35 mm	-	10 - 162 mm	10 - 172 mm	32 - 250 mm	32 - 400 mm w/ distance plate 500mm
<b>Drilling range in masonry</b>	6 - 67 mm	32 - 200 mm	32 - 200 mm	32 - 200 mm	32 - 250 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 - 250 mm	32 - 400 (500) mm
<b>Watt output</b>	800 W	1,800 W	1,400 W	1,800 W	2,400 W	3,000 W
<b>Weight</b>	3.4 / 3.2 kg	5.8 kg	13.9 kg	20.1 kg	25.8 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. Leveling in drilling stand	4 functions with just one device. Fully equipped drill stand	Motor quick release system. Fully equipped drill stand	Innovative motor electronics, extremely high torque
	<b>34, 35</b>	<b>33</b>	<b>37</b>	<b>38, 39</b>	<b>40, 41</b>	<b>42, 43</b>

ROTHENBERGER Diamond Drilling Technology			
	High Speed Plus Natural Stone	DX-High Speed Plus / DURAMANT PRO	SPEED STAR DX
<b>Application Area</b>	Wet drill bit	Wet and dry drill bit	Wet and dry drill bit
<b>Socket threads</b>	G 1/2"	G 1/2" + 1.1/4" UNC	G 1/2" + 1.1/4" UNC
<b>Effective length</b>	50 / 120 / 300	400, 500 / 300, 430	400 / 500
<b>Segment mount</b>	Soldered	Space welding	Space welding
<b>Segment form</b>	Flat segment	PRISMACUT	PRISMACUT
<b>Material</b>	Reinforced concrete, marble granite, hollow brickwork, masonry, clinker	Reinforced concrete, concrete, marble, granite, lime sand brick, hollow brickwork, masonry, aerated concrete, clinker	Reinforced concrete, concrete asphalt*, pavement* <small>*custom made on request</small>
	<b>45</b>	<b>46, 48</b>	<b>47</b>





# RODIA® Diamond Core Drilling

## Hand-Operated Drilling

### RODIADRILL 1800 DRY

Hand-operated dry drilling, drill Ø 32 - 200 mm



#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

- 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

#### KEY FEATURES

- Operation possible with RODIACUT® 170 Pro (FF30171, FF30170 (130 PRO (No. 100000088)) possible
- Clamping adaptor Ø 56 mm

#### TECHNICAL DATA

<b>Transmission:</b>	1 speed transmission
<b>Nominal speed:</b>	1150 rpm
<b>Drilling range in mm:</b>	Ø 32 - 200
<b>Voltage:</b>	230 V
<b>Rated input/output:</b>	2,500 Watt / 1,800 Watt
<b>Charging rate:</b>	8.5 A
<b>Minimum distance to wall:</b>	40 mm from drill hole centre
<b>Minimum distance to corner:</b>	40 mm from drill hole centre
<b>Weight:</b>	5.8 kg



**Lightweight:  
5.8 kg!**

Dust free use



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	FF40185

#### ACCESSORIES



Description	kg	No.	Description	kg	No.
Centering pin as drill support, 300 mm	0.33	FF03300	Socket drill bit Ø 68 mm	0.20	FF03168
Centering pin as drill support, 400 mm	0.35	FF03301	Socket drill bit Ø 82 mm	0.30	FF03182
Centering tip "Quick Out" I. V. M. FF35097	0.10	FF35096	Dry cleaner RODIA DC 1200	10.80	FF35148
Adaptor G 1/2" for M16	0.10	FF35097	Transport case RODIADRILL 1800 DRY	4.40	FF60185

Drill bits 44, 45, 46, 47, 48

# RODIA® Diamond Core Drilling

## Hand-Operated Drilling

### RODIADRILL Ceramic RODIADRILL Ceramic ECO



2

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

Ideally suited for HVAC&R, plumbing professionals, tilers, stair builders, remodelling specialists as well as electricians.

Everywhere where jolt-free operation is necessary and extremely hard materials need to be processed.

#### Product Profile

##### APPLICATION AREA

**Hand-operated wet drilling in:**  
(reinforced) concrete Ø 6 - 35 mm, marble, granite, ceramic tiles, masonry, hollow brickwork and glass Ø 6 - 67 mm

##### KEY FEATURES

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

##### TECHNICAL DATA

<b>2-speed transmission:</b>	1. Gear speed	2. Gear speed
<b>Nominal speed:</b>	3,600 rpm	6,400 rpm
<b>Drilling range in mm:</b>	Ø 25 - 67	Ø 6 - 25
<b>Voltage:</b>	230 V	
<b>Rated input/output:</b>	1,150 Watt / 800 Watt	
<b>Charging rate:</b>	3.6 A	
<b>Maximum drilling depth:</b>	400 mm (depending on material)	
<b>Minimum distance to wall:</b>	30 mm from drill hole centre	
<b>Minimum distance to corner:</b>	30 mm from drill hole centre	
<b>Weight</b>	3.4 kg Ceramic	3.2 kg Ceramic ECO
<b>Stationary:</b>	Ø 67 mm (Ceramic ECO)*	

\*Only in tiles! Otherwise max. 35 mm in concrete.

#### Integrated 1 litre water tank

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

#### Quick Change System drill bit adaptor

Toolless quick change for G 1/2" drill bits

#### Connection for external water supply

Ideal solution for serial drillings



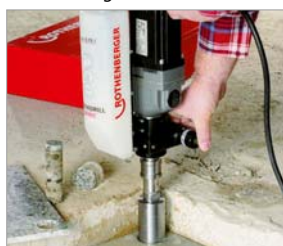
"Aqua-Stop Button" – water pressure valve with quantity adjustment

Perfectly regulated flow of the water quantity



You will find special drill bits for RODIADRILL Ceramic on page 45!

Clean drilling of tiles



Drilling of the hardest materials



7-part 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 set	3.4	FF40150

# RODIA® Diamond Core Drilling

## Hand-Operated and Stationary Wet Drilling

### 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
- Water extraction is possible with the stand guided drill



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

Quick Change System drill bit adaptor

Toolless quick change for drill bits G 1/2"

Please pay attention to special characteristics / advantages on page 34!



Ø 56 mm clamping adaptor

For stationary drilling

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

Ideal solution for serial drillings

You will find special drill bits for RODIADRILL Ceramic on page 45!

Quick change adaptor



Drill bits HSP natural stone



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

Stationary drilling



Model	kg	No.
RODIADRILL Ceramic ECO set	3.2	<b>FF40140</b>
RODIACUT® drill stand 170 PRO	10.0	<b>FF30171</b>

Model	kg	No.
Quick change adaptor G 1/2"	0.2	<b>FF35751</b>
Pressurized water container 10 l	5.5	<b>FF35026</b>

### ACCESSORIES



Description	kg	No.	Description	kg	No.
Freehand drill support up to Ø 83 mm	0.45	<b>FF35750</b>	Water supply hose with "aqua-stop"	0.20	<b>FF35302</b>
Quick change adaptor	0.20	<b>FF35751</b>	Water collection ring, hand-operated	0.80	<b>FF35701</b>
Pressurized water container 10 l	5.50	<b>FF35026</b>	Water collection ring, stationary	1.20	<b>FF35700</b>
Special water supply hose	0.20	<b>FF35301</b>	Transport case RODIADRILL Ceramic ECO	4.80	<b>FF60150</b>

Drill Bit High-Speed-Plus Natural Stone 45

# RODIA® Diamond Core Drilling

## Hand-Operated and Stationary Drilling

### Drill Stands

### Feed Units

### Drill Motors

### Diamond Drilling System

130 PRO



37

RC 130 PRO



37

Ceramic ECO



35

RODIACUT® 130 PRO



37

170 PRO C/D



38, 39

RC 170 PRO



38, 39

1400/1800 DWS



37

RODIACUT® 170 PRO C / PRO D



38, 39

270 PRO C/D



40, 41

RC 270 PRO



40, 41

1800 DRY



33

RODIACUT® 270 PRO C / PRO D



40, 41

400 PRO D



42, 43

RC 400 PRO



42, 43

2400 PD-E



40, 41

RODIACUT® 400 PRO D



42, 43

3000 PD



42, 43

2



# RODIA® Diamond Core Drilling

## Hand-Operated and Stationary Drilling

### RODIACUT® 130 PRO

Drilling system with dowel plate, drill Ø 10 - 200 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 toolless operation allows an easy one-man operation and makes this unit a "must" on every construction site.

Product Profile	
<b>APPLICATION AREA</b>	
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 - 200 mm
<b>KEY FEATURES</b>	
<ul style="list-style-type: none"> <li>● Low vibration drilling with the 4x roll guides</li> <li>● Stainless-steel handle can be exchanged without tools</li> <li>● Exchangeable rack and guide rail</li> <li>● Stable threaded connection between column and base plate</li> <li>● Transport handle</li> <li>● Lockable feed unit</li> <li>● Universal feed unit, also with RODIACUT® 170, 270 and 400 Pro</li> <li>● Ø 60 mm clamping neck adaptor</li> </ul>	

TECHNICAL DATA (DRILL MOTOR)	
<b>Drill motor:</b>	RODIADRILL 1400 DWS
<b>Drilling range:</b>	in concrete max. Ø 132 mm in brickwork Ø 162 mm
<b>Min. distance to wall:</b>	40 mm from drill hole centre
<b>Min. distance to corner:</b>	40 mm from drill hole centre
<b>Threaded adaptor:</b>	G 1/2" and 1.1/4" UNC
<b>Rated input / output:</b>	2,000 Watt / 1,400 Watt
<b>2-speed transmission:</b>	1. Gear      2. Gear
<b>Nominal speed:</b>	500 rpm      1,050 rpm
<b>Torque:</b>	55 - 27 Nm
<b>Charging rate:</b>	8.5 A
<b>Weight:</b>	Motor 6.7 kg
<b>Clamping neck:</b>	Ø 60 mm

Ideal for difficult spaces



Dowel plate: Extremely small dimensions, for very tight spaces



Circular level: Quick and precise alignment of the drill stands



Scope of Delivery (No. 100000089): Drill stand RODIACUT® 130 PRO, drill motor RODIADRILL 1800 DWS, 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 with RODIADRILL drill motor 1800 DWS	14.2	<b>100000089</b>
RODIACUT® 130 PRO set with RODIADRILL drill motor 1400 DWS	14.1	<b>100000092</b>
Drill stand RODIACUT® 130 PRO	7.2	<b>100000088</b>
RODIADRILL drill motor 1400 DWS	6.7	<b>FF40160</b>

Drill bits on 44

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

#### Feed unit and 4x guide rollers

Universal use with RODIACUT® 170, 270 and 400 PRO

#### Stainless-steel handle

Quick, toolless exchange of the operational side, sturdy design



# RODIA® Diamond Core Drilling

## Hand-Operated and Stationary Drilling

### RODIACUT® 170 PRO C / 170 PRO D

Drilling system with dowel- or vacuum combination plate, drill Ø 10 - 200 mm



2

#### Product Profile

##### APPLICATION AREA

##### 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 - 200 mm

##### KEY FEATURES

- 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)

##### TECHNICAL DATA (DRILL STANDS)

<b>Drilling range:</b>	w/o water collection ring: max. Ø 172 mm with water collection ring: max. Ø 132 mm	
<b>Drill motor adaptor:</b>	Ø 60 mm	
	<b>170 PRO C</b>	<b>170 PRO D</b>
<b>Length</b>	470 mm	315 mm
<b>Width:</b>	300 mm	180 mm
<b>Height:</b>	860 mm	860 mm
<b>Hub:</b>	525 mm	525 mm
<b>Weight:</b>	13.1 kg	12.8 kg

##### TECHNICAL DATA (DRILL MOTOR)

<b>Drill motor:</b>	RODIADRILL 1800 DWS
<b>Drilling range:</b>	in concrete max. Ø 172 mm in masonry max. Ø 200 mm
<b>Freehand:</b>	
<b>Min. distance to wall:</b>	40 mm from drill hole centre
<b>Min. distance to corner:</b>	40 mm from drill hole centre
<b>Threaded adaptor:</b>	G 1/2" and 1.1/4" UNC
<b>Rated input/output:</b>	2,500 Watt / 1,800 Watt
<b>2 speed transmission:</b>	760 - 1,570 rpm
<b>Torque:</b>	58 - 27 Nm
<b>Charging rate:</b>	8.5 A
<b>Weight:</b>	7.0 kg
<b>Clamping neck:</b>	Ø 60 mm

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

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

#### Rubber transport wheels

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

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

High-quality drill base

#### Drill angle adjustment

Adjustable from -15° up to +45° in 2.5° steps

#### Drill hole centre indicator

Quick adjustment for an exact drilling position



# RODIA® Diamond Core Drilling

## Hand-Operated and Stationary Drilling



### CHARACTERISTICS 170 PRO C and 170 PRO D

#### Available with both drill stands:

- Precise and vibration free drilling with the 4x roll guides
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale
- Ø 60 mm clamping neck adaptor

### ADDITIONAL CHARACTERISTICS 170 PRO C

- Second transport handle
- Transport wheels
- Vacuum plate
- Drill hole centre indicator
- Vacuum valve

#### Stainless steel handle

Toolless quick change for the operating side, sturdy design

#### Feed unit and 4x roll guides

Universally applicable on RODIACUT® 130, 270 PRO and 400 PRO



Fig. 170 PRO C

Fig. 170 PRO D



Clean work in enclosed rooms

Scope of delivery (No. FF34171 / FF34170): Drill stand RODIACUT® 170 PRO C or 170 PRO D, drill motor RODIADRILL 1800 DWS, 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	20.1	<b>FF34171</b>
RODIACUT® 170 PRO D complete	19.8	<b>FF34170</b>
RODIADRILL 1800 DWS	7.0	<b>FF40180</b>
Drill column RODIACUT® 170 PRO C	13.1	<b>FF30171</b>
Drill column RODIACUT® 170 PRO D	12.8	<b>FF30170</b>
Drill column 860 mm, Hub 525 mm	7.6	<b>FF50978</b>
Drill column 1335 mm, Hub 1000 mm	12.4	<b>FF50981</b>
Drill column 1835 mm, Hub 1500 mm	16.5	<b>FF50982</b>
Feed unit for RC 170 PRO	3.1	<b>FF50977</b>
Anchor foot for RC 170 PRO	3.3	<b>FF50979</b>

### ACCESSORIES



Description	No.	Description	No.
RODIADRILL CERAMIC ECO	<b>35 FF40150</b>	RODIA DRY CLEANER 1200	<b>53 FF35148</b>
RODIADRILL 1800 DRY	<b>33 FF40185</b>	Water collection ring, hand-operated	<b>52 FF35701</b>
Pressurized water container 10 l	<b>51 FF35026</b>	Water collection ring, stationary (for FF30171)	<b>52 FF35700</b>
Vacuum pump RODIA-VAC	<b>49 FF35200</b>	Drill bits	<b>44 - 48</b>

# RODIA® Diamond Core Drilling

## Stationary Drilling

### RODIACUT® 270 PRO C / 270 PRO D

Drill stand with dowel- or vacuum combination plate drill Ø 32 - 250 mm



#### Product Profile

##### APPLICATION AREA

###### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 250 mm  
 Stationary dry drilling in masonry Ø 32 - 250 mm

##### KEY FEATURES

- 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

##### TECHNICAL DATA (DRILL STANDS)

<b>Drilling range:</b>	w/o water collection ring: max. Ø 250 mm with water collection ring max. Ø 220 mm	
<b>Drill motor adaptor:</b>	Direct adaptor for feed unit	
	<b>270 PRO C</b>	<b>270 PRO D</b>
<b>Length:</b>	520 mm	330 mm
<b>Width:</b>	330 mm	220 mm
<b>Height:</b>	980 mm	980 mm
<b>Hub:</b>	595 mm	595 mm
<b>Weight:</b>	16.8 kg	16.5 kg

##### TECHNICAL DATA (DRILL MOTOR)

<b>Drill motor:</b>	RODIADRILL 2400 PD-E
<b>Drilling range:</b>	in concrete max. Ø 250 mm in masonry max. Ø 250 mm
<b>Min. distance to wall:</b>	50 mm from drill hole centre
<b>Min. distance to corner:</b>	50 mm from drill hole centre
<b>Threaded adaptor:</b>	G 1/2" and 1.1/4" UNC
<b>Rated input/output:</b>	3,000 Watt / 2,400 Watt
<b>3 speed transmission:</b>	300 - 600 - 1,120 rpm
<b>Torque:</b>	95 - 47 - 23 Nm
<b>Charging rate:</b>	14.9 A
<b>Weight:</b>	9.0 kg



**4x roll guides**  
 Precise and low vibration operation,  
 flexible use / module concept

**Sliding carriage can be used on all RODIACUT® PRO drill stands and columns**  
 Toolless quick mounting/demounting of drill motor on drill stand

**Rubber transport wheels**  
 Quick and easy transport on the building site

**With integrated vacuum plate / valve and 4 adjustable screws to level out unevenness**  
 High-quality drill base



**Drill angle adjustment**  
 Adjustable from -15° up to +45° in 2.5° steps



**Drill hole centre indicator**  
 Fast alignment of the drill hole centre



### CHARACTERISTICS 270 PRO C AND 270 PRO D

#### Standard with both drill stands:

- 4x roll guides for precise and low-vibration drilling
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale

### ADDITIONAL CHARACTERISTICS 270 PRO C

- Second handle
- Vacuum plate
- Vacuum valve
- Drill hole centre indicator

#### Stainless steel handle

Toolless quick change for the operating side, sturdy design



Fig. 270 PRO C

Fig. 270 PRO D

#### Feed unit

Universally applicable on RODIACUT® 170 PRO and 400 PRO



Fig. Shows drill stand RODIACUT® 270 Pro C with feed unit RC 400 and drill motor RODIADRILL 3000 PD

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	25.8	<b>FF34271</b>
RODIACUT® 270 PRO D complete	25.5	<b>FF34270</b>
RODIADRILL 2400 PD-E	9.0	<b>FF40210</b>
Drill stand RODIACUT® 270 PRO C	16.8	<b>FF30271</b>
Drill stand RODIACUT® 270 PRO D	16.5	<b>FF30270</b>
Drill column 980 mm, Hub 595 mm	8.4	<b>FF50985</b>
Drill column 1385 mm, Hub 1000 mm	12.5	<b>FF50988</b>
Drill column 1885 mm, Hub 1500 mm	16.5	<b>FF50989</b>
Feed unit for RC 270 PRO	3.1	<b>FF50984</b>
Anchor base for RC 270 PRO	5.2	<b>FF50986</b>
Combination base for RC 270 PRO	7.7	<b>FF50987</b>
Angled support for RC 270 PRO anchor base	2.8	<b>FF50990</b>

### ACCESSORIES



Description	No.	Description	No.
RODIADRILL 3000 PD	<b>42, 43</b>	Vacuum set	<b>49</b>
Pressurized water container 10 l	<b>51</b>	RODIA DRY CLEANER 1200	<b>53</b>
Vacuum pump RODIA-VAC	<b>49</b>	Water collection ring, stationary (for FF30171)	<b>52</b>
Distance plate 15 mm	<b>FF35134</b>	Extension	<b>52</b>
Distance plate 20 mm	<b>FF35139</b>	Drill bits	<b>44 - 48</b>

# RODIA® Diamond Core Drilling

## Stationary Drilling

### RODIACUT® 400 PRO D

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



2



#### Product Profile

##### APPLICATION AREA

###### 2 applications in one unit:

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

##### KEY FEATURES

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

##### TECHNICAL DATA (DRILL STANDS)

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

**Weight:** 28.4 kg

**Length:** 460 mm

**Width:** 260 mm

**Height:** 1,100 mm

**Hub:** 680 mm

##### TECHNICAL DATA (DRILL MOTOR)

**Drill motor:** RODIADRILL 3000 PD

**Drilling range:** in concrete max. Ø 500 mm  
in masonry max. Ø 500 mm

**Min. distance to wall:** 50 mm from drill hole centre

**Min. distance to corner:** 50 mm from drill hole centre

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

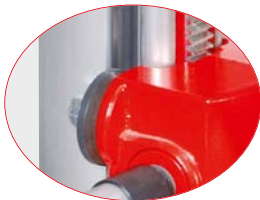
**Rated input/output:** 4,000 Watt / 3,000 Watt

**3 speed transmission:** 215 - 430 - 785 rpm

**Torque:** 185 - 107 - 55 Nm

**Charging rate:** 20.0 A

**Weight:** 12.1 kg



#### 4x roll guides

Precise and low vibration operation, flexible use / module concept

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

Toolless quick mounting/demounting of drill motor on drill stand



#### \*Distance plates optional (No. FF35138)

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

#### Rubber transport wheels

Quick and easy transport on the building site



#### Drill angle adjustments

Adjustable from -15° up to +45° in 2.5° steps



# RODIA® Diamond Core Drilling

## Stationary Drilling



### Characteristics 400 PRO D

#### Standard with both drill stands:

- 4x roll guides for precise and low-vibration drilling
- Stainless steel handle, can be changed without tools
- Exchangeable rack and guide rail
- Stable threaded connection between column and base plate
- Transport handle
- Lockable feed unit
- Drill depth measuring scale

### Combination possibilities of the feed unit RODIACUT® 170 / 270 / 400 PRO

Feed unit can be used on all RODIACUT® PRO drill stands and columns

Toolless quick mounting/demounting of drill motor on drill stand



#### Gear reduction 1:3

Reduces the contact pressure of the drill bit

#### Stainless steel handle

Toolless quick change for the operating side, sturdy design



#### Exchangeable guide rail / exchangeable rack / motor mounting

Cost-saving spare parts

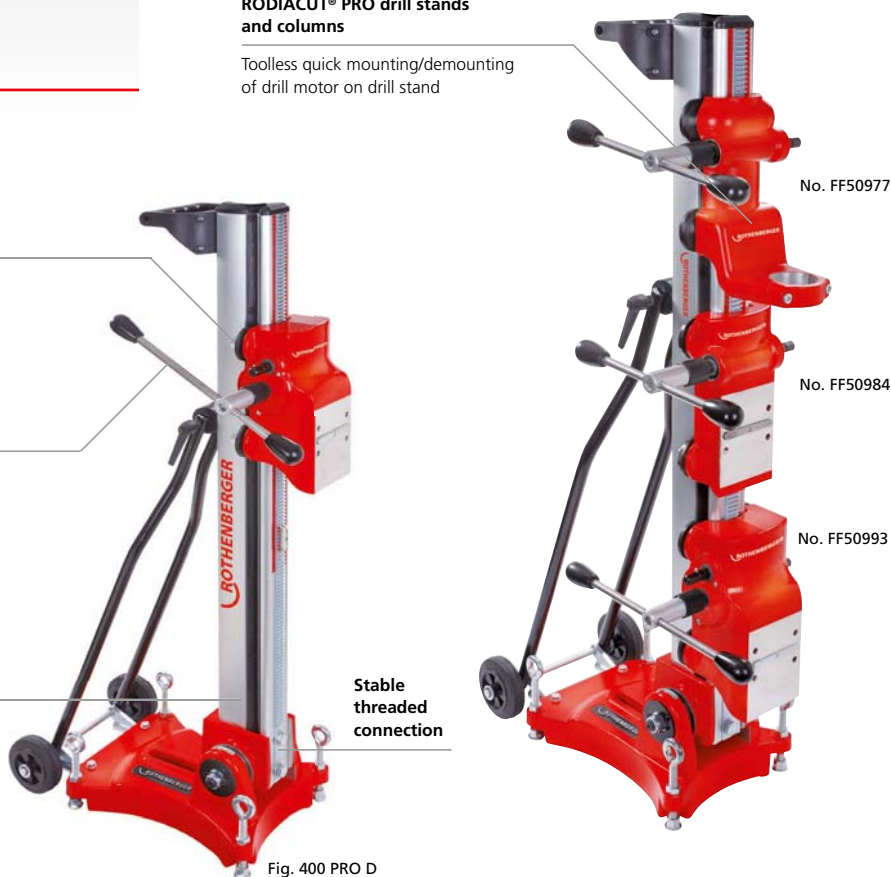


Fig. 400 PRO D

Scope of delivery (No. FF34300): Drill stand RODIACUT® 400 PRO D, drill motor RODIADRILL 3000 PD, spanner size 24/36/41, 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	<b>FF34300</b>
Drill stand RODIACUT® 400 PRO D	28.4	<b>FF30030</b>
Drill column 1100 mm, Hub 680 mm	11.7	<b>FF50995</b>
Drill column 1420 mm, Hub 1000 mm	16.1	<b>FF50996</b>
Drill column 1920 mm, Hub 1500 mm	21.4	<b>FF50997</b>

Description	kg	No.
Feed unit for RC 400 PRO D	5.1	<b>FF50993</b>
Angled support for RC 400 PRO D anchor base	3.2	<b>FF50998</b>
RODIADRILL 3000 PD	12.1	<b>FF40300</b>

### ACCESSORIES



Description	No.	Description	No.
RODIADRILL 2400 PD-E	<b>40 - 41</b>	Distance plate 70 mm	<b>FF35138</b>
Submergable water pump RODIAPUMP	<b>51</b>	RODIA DRY CLEANER 1200	<b>53</b>
Pressurized water container 10 l	<b>51</b>	Mounting articles	<b>50</b>
Copper ring 1.1/4"	<b>50</b>	Extensions	<b>52</b>
Distance plate 50 mm	<b>FF35131</b>	Drill bits	<b>44 - 48</b>
Distance plate 60 mm	<b>FF35136</b>		

# RODIA® Diamond Core Drilling

## 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.

#### SPACE WELDING

Wet and dry drilling with new technology:

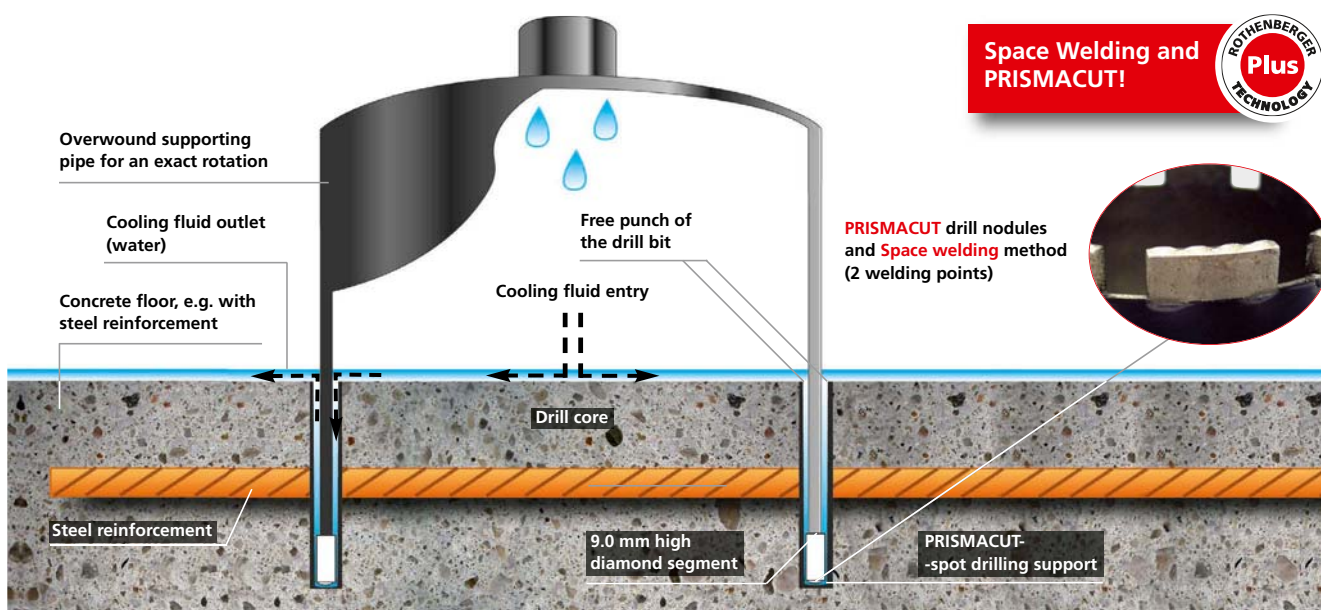
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space Welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20%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

### PRISMACUT







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

#### PRISMACUT

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



### Which Drill Bit for Which Material?

Drill bit type Use	Tiles	Granite	Marble	Hollow brickwork	Masonry	Lime sand brick	Asphalt	Reinf. concrete	Segment Fixation
<b>High Speed Plus natural stone</b> 	●●●	●●●	●●●	●●	●	●		●●●	soldering 
<b>DX-High Speed Plus + DURAMANT PRO</b> 	●	●	●	●●●	●●●	●●●	●	●●●	cold-welded 
<b>SPEED STAR DX</b> 	●●	●●	●●	●●●	●●●	●●●	●●	●●●	cold-welded 

suitable ● very suitable ●● ideally suited ●●●

### High Speed Plus Natural Stone

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

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



#### Product Profile

##### APPLICATION AREA

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

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

##### KEY FEATURES

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

##### KEY FEATURES

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

##### TECHNICAL DATA

###### G 1/2" connection

Drill bits	Segment	Segment dimensions (L x W x H)
Ø 6 - 40 mm	Ring segments	Ring x (1.15 - 2.0) x 9 mm
Ø 45 - 67 mm*	4 - 6	24 x 2.5 x 8 mm
<b>Effective length:</b> Ø 6.3 - 10 mm = 50 mm		
Ø 12 - 67 mm = 120 mm		

Special length of 300 mm available upon request

\*Single segment mounting from Ø 45 mm

9 mm high segments with high diamond concentration

Extremely easy cutting, very long service life in granite tiles



Threaded adaptor G 1/2"

Suitable for all other ROTHENBERGER drilling machines



Overwound drill bits

Balanced rotation reduces wear

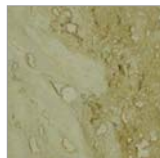
Drilling of the hardest materials



Reinf. concrete



Marble



Granite



Green granite



Masonry



Hollow brickwork



Aerated concrete



Asphalt



#### Suitable for



Ceramic ECO

Ceramic



1400/1800 DWS

Ø mm	kg	Adaptor G 1/2" No.
6.3	0.17	FF44806
8.3	0.17	FF44808
10	0.17	FF44810
12	0.19	FF44812
14	0.20	FF44814
15	0.20	FF44815
16	0.20	FF44816

Ø mm	kg	Adaptor G 1/2" No.
18	0.21	FF44818
20	0.22	FF44820
22	0.22	FF44822
24	0.22	FF44824
25	0.23	FF44825
26	0.23	FF44826
28	0.25	FF44828

Ø mm	kg	Adaptor G 1/2" No.
30	0.25	FF44830
32	0.25	FF44832
35	0.30	FF44835
36	0.32	FF44836
38	0.34	FF44838
40	0.34	FF44840
42	0.35	FF44842

Ø mm	kg	Adaptor G 1/2" No.
45*	0.42	FF44845
50*	0.60	FF44850
55*	0.65	FF44855
60*	0.72	FF44860
65*	0.76	FF44865
67*	0.79	FF44867

\* with single segment mounting

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### DX-High Speed Plus Universal Drill Bits

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

Space Welding and  
PRISMACUT!



2



#### Product Profile

##### APPLICATION AREA

**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

##### KEY FEATURES

- Extremely easy cutting, safe cut in hand-operated use
- Faster cutting progress and extremely long service life
- Suitable for all other ROTHENBERGER drilling machines
- Balanced rotation reduces wear

#### TECHNICAL DATA

**G 1/2" connection** (300 mm effective length)

Drill bit	Segment	Segment dimensions (L x W x H)
Ø 10 - 40 mm	1	19.3 x 2.5 x 9 mm
Ø 42 - 62 mm	4 - 6	24.0 x 2.5 x 9 mm
Ø 72 - 92 mm	7 - 8	24.0 x 2.8 x 9 mm
Ø 102 - 132 mm	7 - 11	24.0 x 3.3 x 9 mm

**1.1/4" UNC connection** (430 mm effective length)

Ø 20 - 62 mm	1 - 6	24.0 x 2.5 x 9 mm
Ø 72 - 92 mm	7 - 8	24.0 x 2.8 x 9 mm
Ø 102 - 152 mm	9 - 12	24.0 x 3.3 x 9 mm
Ø 162 - 182 mm	12 - 14	24.0 x 3.8 x 9 mm
Ø 200 - 300 mm	14 - 20	24.0 x 4.0 x 9 mm

#### Suitable for



1400/1800 DWS\*



1800 DRY



2400 PD-E\*



3000 PD\*

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

**Highest service life and  
universal application!**

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

Suitable for all other  
ROTHENBERGER  
drilling machines



#### Special segment mix

Quicker drilling progress  
and extremely long service life

Extremely easy cuts,  
safe cuts in hand  
operated use

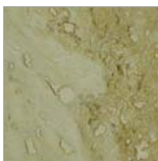
#### Space welding

Allows wet and dry use

#### Overwound drill bits

Balanced rotation reduces wear

Marble



Masonry



Hollow brickwork



Pavement



Lime sand brick



Reinf. concrete



Ø mm	kg	Adaptor G 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

Ø mm	kg	Adaptor G 1/2" No.
82	1.6	FF44680
92	1.9	FF44690
102	2.1	FF44700
112	2.4	FF44710
122	2.6	FF44720
132	2.9	FF44730

Ø mm	kg	Adaptor 1.1/4" No.	Ø mm	kg	Adaptor 1.1/4" No.
30	0.7	FF44030	132	4.6	FF44130
40	1.2	FF44040	142	5.0	FF44140
52	1.6	FF44050	152	6.4	FF44150
62	1.9	FF44060	162	7.0	FF44160
72	2.3	FF44070	172	7.5	FF44170
82	2.6	FF44080	182	8.0	FF44180
92	3.0	FF44090	200	9.0	FF44200
102	3.4	FF44100	220	11.4	FF44220
112	3.8	FF44110	250	13.6	FF44250
122	4.2	FF44120	300	19.3	FF44300

### SPEED STAR DX

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

#### Product Profile

#### APPLICATION AREA

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

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

#### KEY FEATURES

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

Space Welding and PRISMACUT!



#### TECHNICAL DATA

Drill bits	Segment	Segment dimensions (L x W x H)
Ø 10 - 38 mm	1	16 x 3.0 x 7.0 mm
Ø 40 - 48 mm	1 - 4	24 x 3.0 x 9.0 mm
Ø 50 - 55 mm	5 - 6	24 x 3.5 x 9.0 mm
Ø 56 - 72 mm	6 - 7	24 x 3.5 x 9.0 mm
Ø 75 - 102 mm	7 - 8	24 x 3.5 x 9.0 mm
Ø 107 - 142 mm	9 - 11	24 x 4.0 x 9.0 mm
Ø 142 - 182 mm	11 - 14	24 x 4.0 x 9.0 mm
Ø 182 - 250 mm	14 - 16	24 x 4.0 x 9.0 mm
Ø 300 - 500 mm	16 - 26	20 x 5.0 x 9.0 mm

**Connection G 1/2":** Effective length 400 mm  
**Connection 1.1/4" UNC:** Effective length 500 mm



Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in hand-operated use

Extremely high diamond concentration

Faster drilling progress



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

Suitable for



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

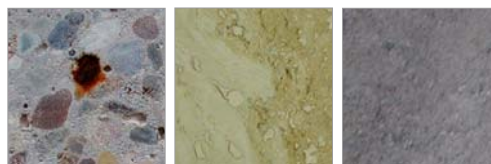
Threaded adaptor G 1/2" and 1.1/4" UNC

Suitable for all other ROTHENBERGER drilling machines

Reinf. concrete

Marble

Asphalt



Overwound drill bits

Balanced rotation reduces wear

Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor 1.1/4" No.	Ø mm	kg	Adaptor 1.1/4" No.
10	0.3	FF00610	52	0.9	FF00650	20	0.5	FF00020	122	4.2	FF00120
12	0.4	FF00612	56	1.2	FF00655	25	0.6	FF00025	125	4.3	FF00125
14	0.4	FF00614	62	1.2	FF00660	30	0.7	FF00030	132	4.6	FF00130
15	0.4	FF00615	66	1.3	FF00665	40	1.2	FF00040	142	5.0	FF00140
16	0.4	FF00616	72	1.4	FF00670	46	1.4	FF00045	152	6.4	FF00150
18	0.4	FF00618	76	1.5	FF00675	52	1.6	FF00050	162	7.0	FF00160
20	0.5	FF00620	82	1.6	FF00680	56	1.7	FF00055	172	7.5	FF00170
24	0.5	FF00624	87	1.7	FF00685	62	1.9	FF00060	182	8.0	FF00180
25	0.5	FF00625	92	1.9	FF00690	66	2.1	FF00065	200	9.0	FF00200
26	0.5	FF00626	95	2.0	FF00695	72	2.3	FF00070	220	11.4	FF00220
28	0.6	FF00628	102	2.1	FF00700	76	2.4	FF00075	250	13.6	FF00250
30	0.6	FF00630	108	2.3	FF00705	82	2.6	FF00080	280	17.6	FF00280
32	0.6	FF00632	112	2.4	FF00710	87	2.8	FF00085	300	19.3	FF00300
35	0.7	FF00635	117	2.5	FF00715	92	3.0	FF00090	350	23.6	FF00350
38	0.7	FF00638	122	2.6	FF00720	102	3.4	FF00100	400	28.4	FF00400
40	0.7	FF00640	127	2.8	FF00725	108	3.6	FF00105	450	33.6	FF00450
46	0.7	FF00645	132	2.9	FF00730	112	3.8	FF00110	500	39.1	FF00500

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

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### DURAMANT PRO Universal Drill Bits

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

Space Welding and  
PRISMACUT!



2

#### Product Profile

##### APPLICATION AREA

**Wet drill bits** for drilling in reinforced-concrete asphalt, as well as natural and artificial stone from Ø 10 - 500 mm

**Dry drill bits** for drilling in masonry, lime sand brick, poroton and other light building materials from Ø 32 -500 mm

##### KEY FEATURES

- Enables wet and dry use
- Extremely easy cutting, safe cut in hand-operated use
- Faster drilling progress and longer service life
- Suitable for all other ROTHENBERGER drilling machines
- Balanced rotation reduces wear
- Standard lengths 400 mm with G 1/2" and 500 mm with 1.1/4" UNC
- Conventional G 1/2" and 1.1/4" UNC threaded adaptors

##### TECHNICAL DATA

Drill bit	Segment	Segment dimensions (L x W x H)
Ø 10 - 38 mm	1	16 x 3.0 x 7.0 mm
Ø 40 - 48 mm	1 - 4	24 x 3.0 x 9.0 mm
Ø 50 - 55 mm	5 - 6	24 x 3.5 x 9.0 mm
Ø 56 - 72 mm	6 - 7	24 x 3.5 x 9.0 mm
Ø 75 - 102 mm	7 - 9	24 x 3.5 x 9.0 mm
Ø 107 - 142 mm	9 - 11	24 x 4.0 x 9.0 mm
Ø 142 - 182 mm	11 - 14	24 x 4.0 x 9.0 mm
Ø 182 - 250 mm	14 - 16	24 x 4.0 x 9.0 mm
Ø 300 - 500 mm	16 - 28	20 x 5.0 x 9.0 mm

#### Suitable for



1400/1800 DWS\*



1800 DRY



2400 PD-E\*



3000 PD\*

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

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

Suitable for all other  
ROTHENBERGER  
drilling machines

#### DURAMANT PRO segments

Allows wet and dry use

#### Overwound drill bits

Balanced rotation reduces wear

#### Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in  
hand-operated use



Hollow brickwork

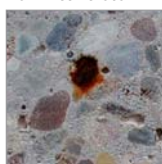
Pavement

Lime sand brick

Reinf. concrete

Marble

Masonry



#### Special segment composition

Faster drilling progress and  
extremely long service life

Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor G 1/2" No.	Ø mm	kg	Adaptor 1.1/4" No.	Ø mm	kg	Adaptor 1.1/4" No.
10	0.3	FF42610	46	0.8	FF42645	20	0.5	FF42020	122	4.2	FF42120
12	0.4	FF42612	52	0.9	FF42650	25	0.6	FF42025	125	4.3	FF42125
14	0.4	FF42614	56	1.2	FF42655	30	0.7	FF42030	132	4.6	FF42130
15	0.4	FF42615	62	1.2	FF42660	35	0.8	FF42035	142	5.0	FF42140
16	0.4	FF42616	66	1.3	FF42665	40	1.2	FF42040	152	6.4	FF42150
18	0.4	FF42618	72	1.4	FF42670	46	1.4	FF42045	162	7.0	FF42160
20	0.5	FF42620	76	1.5	FF42675	52	1.6	FF42050	172	7.5	FF42170
22	0.5	FF42622	82	1.6	FF42680	56	1.7	FF42055	182	8.0	FF42180
24	0.5	FF42624	87	1.7	FF42685	62	1.9	FF42060	200	9.0	FF42200
25	0.5	FF42625	92	1.9	FF42690	66	2.1	FF42065	220	11.4	FF42220
26	0.5	FF42626	95	2.0	FF42695	72	2.3	FF42070	225	12.5	FF42225
28	0.6	FF42628	102	2.1	FF42700	76	2.4	FF42075	250	13.6	FF42250
30	0.6	FF42630	108	2.3	FF42705	82	2.6	FF42080	280	17.6	FF42280
32	0.6	FF42632	112	2.4	FF42710	87	2.8	FF42085	300	19.3	FF42300
35	0.7	FF42635	117	2.5	FF42715	92	3.0	FF42090	350	23.6	FF42350
38	0.7	FF42638	122	2.6	FF42720	102	3.4	FF42100	400	28.4	FF42400
40	0.7	FF42640	127	2.8	FF42725	108	3.6	FF42105	450	33.6	FF42450
			132	2.9	FF42730	112	3.8	FF42110	500	39.1	FF42500



### Galvano Drill Bit Set

For drilling stoneware tiles Ø 6 - 83 mm

A cost-effective alternative for drilling in stoneware tiles. With the help of a drilling fixture, drillings can be purposely and accurately positioned. Optimum drilling results are achieved when used with the water flow socket included in the set

#### KEY FEATURES

- Drill and centering aid up to Ø 43 mm
- Water flow socket with 3 edge adaptor
- Galvano drill with 3 edged shaft

#### Centre drill support with suction cup

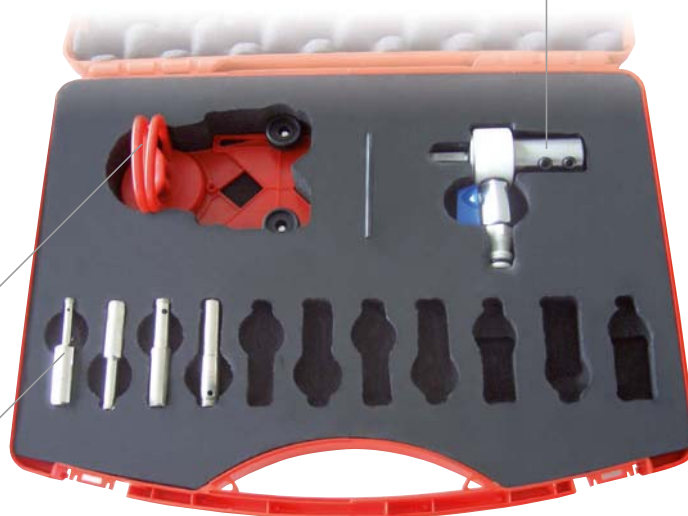
Variable adjustment of the drill dimensions up to Ø 43 mm

#### Galvano drill

Ø 6 - 8 - 10 - 12 mm

#### Water connection

Using GARDENA quick hose system in G 1/2"



Set (No. 19320) includes: Galvano drill (6 - 8 - 10 - 12 mm), centre drill support, water connection, plastic case

Description		No.
Galvano Drill Bit Set	6-8-10-12 mm	<b>19320</b>

Description		No.
Centre drill support up to	43 mm	<b>FF35749</b>
Centre drill support up to	83 mm	<b>FF35750</b>

### Vacuum Pump RODIA-VAC

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

#### Vacuum Sets



No. FF35710  
No. FF35740

### Quick Clamping Column

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

Description		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>
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>

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

#### 10 l extraction tank

Safety during a power failure



No. FF35015



No. FF35135

# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & Stationary Drilling

### 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 not do the job. Various material combinations, such as tiles on concrete, can be easily drilled without damage.



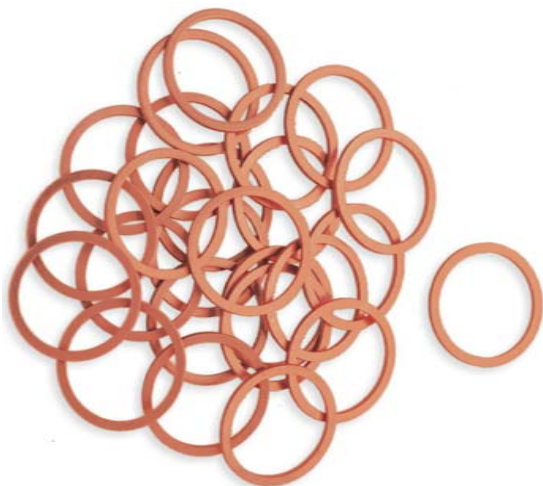
Special Diamond Drills  
for Tiles and Natural Stone

Description	kg	No.
Concrete fixing set	1.90	<b>FF35120</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>
SDS-plus hammer drill Ø 15 - 160 mm	0.16	<b>111429</b>
Masonry fixing set	1.10	<b>FF35121</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>

### Copper Rings 1.1/4"

#### KEY FEATURES

- 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	kg	No.
G 1/2" ext. thread onto 1.1/4" UNC ext. thread	0,5	<b>FF35080</b>
1.1/4" UNC int. thread onto G 1/2" int. thread	0,7	<b>FF35095</b>
Drill bit adaptor DD-BI on to G 1/2" + 1.1/4"	0,5	<b>FF35091</b>
Drill bit adaptor DD-BU on to G 1/2" + 1.1/4"	0,8	<b>FF35092</b>
Drill bit adaptor WÜRTH onto 1.1/4"	0,6	<b>FF35101</b>

### Water Supply

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

#### Comfortable water connection

Quick connection with the GK adaptor and quick-plug coupling

#### Rust-free motor shaft

Prevents the quick jamming of the rotor

#### Fine filter

Prevents entry of foreign materials and protects the motor shaft



No. FF35029

#### Manometer

pressure indicator



No. FF35026

#### 2.5 meter hose length

Ideal use for ceiling holes



#### Connection Quick plug-in coupling

Drip-free connection even under water pressure

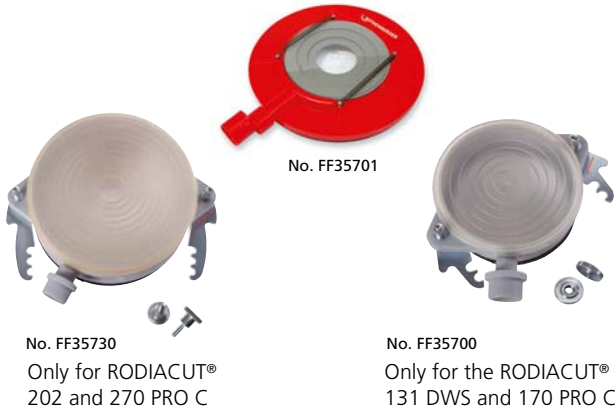
Description	kg	No.
Pressurized water container	5.50	<b>FF35026</b>
Submersible water pump RODIAPUMP	4.40	<b>FF35029</b>
Special water supply hose	0.20	<b>FF35301</b>
Water supply hose with "Aqua-stop"	0.20	<b>FF35302</b>



# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & Stationary Drilling

2



No. FF35730  
Only for RODIACUT®  
202 and 270 PRO C

No. FF35700  
Only for the RODIACUT®  
131 DWS and 170 PRO C

### Water Extraction Systems

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

Description	kg	No.
Water collection ring, stationary (up to Ø 132 mm)	1.2	<b>FF35700</b>
Spare rubber membrane (for FF35700)	0.3	<b>FF55131</b>
Water collect. ring, hand-opd. (up to Ø 132 mm)	0.8	<b>FF35701</b>
Spare water collection ring discs (for FF35701)	0.2	<b>FF35702</b>
Adaptor for vacuum (FF35701)	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>



Extension rods G 1/2"

Extension rods  
1.1/4" UNC

### Extensions

G 1/2" and 1.1/4" UNC

#### KEY FEATURES

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

Nominal length mm	kg	G 1/2" 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>



No. FF03301

No. FF35097

No. FF35096

### Centering Pin

From Ø 90 up to 400 mm

Universal drilling assistance for hand-operated drilling moveable carbide centering tip, quick and toolless 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. FF40056

### Support Plates for Centering Pin

From Ø 31 mm up to Ø 201 mm

Suitable for FF03300, FF03301, FF03302, FF03303 support plates in connection with centering pin allows a precise drill hole exactly where it is needed.

- Secure hold, drill bit will not slip on the subsurface
- Fast and toolless assembly / disassembly without the need for screws

Description	kg	No.
Extraction Rotor 1.1/4" UNC (G 1/2"-machine side)	1.0	<b>FF40056</b>
Centering Pin for extraction rotor 300 mm	0.3	<b>FF03300</b>
Centering Pin for extraction rotor 400 mm	0.3	<b>FF03301</b>
Adaptor for RODIADRILL 1800 DWS/DRY	0.1	<b>FF35097</b>
Centering tip "Quick-Out" ICW. FF35097	0.1	<b>FF35096</b>

Ø mm	g	No.	Ø mm	g	No.
31	5	<b>FF03308</b>	111	50	<b>FF03316</b>
41	8	<b>FF03309</b>	121	55	<b>FF03317</b>
51	10	<b>FF03310</b>	131	58	<b>FF03318</b>
61	13	<b>FF03311</b>	151	77	<b>FF03319</b>
71	17	<b>FF03312</b>	161	80	<b>FF03320</b>
81	18	<b>FF03313</b>	171	85	<b>FF03321</b>
91	22	<b>FF03314</b>	181	100	<b>FF03322</b>
101	44	<b>FF03315</b>	201	120	<b>FF03323</b>

# RODIA® Diamond Core Drilling Extraction Systems

## 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

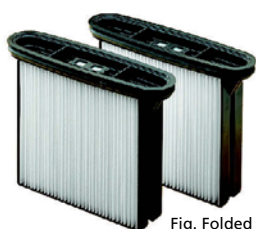


Fig. Folded filter  
No. FF55374

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

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



### 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

## RODIA CLEANER 1400

### Water suction unit

#### KEY FEATURES

- 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.

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

### 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



“ROTHENBERGER bending equipment allows one to master difficult installation situations in a time-saving manner. Reduction of the number of fittings required also increases safety and reduces costs”



# Bending

## Manual

One Handed Bender	56 - 58
Bending Pliers	59 - 60
Tube Bending Springs CU	61
Internal Bending Springs MSR	61
Vice Bender	62 - 63

## Manual Hydraulic

Bender Manual Hydraulic	64 - 65
-------------------------	---------

## Electric Hydraulic

Bender Electric Hydraulic	66 - 67
---------------------------	---------

## Electric

Bender Electric	68 - 70
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## Bending Tables

70 - 73
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*Do you want to know more about our products? Please scan the QR-Code!*

# Bending

## Manual

### TUBE BENDER

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



#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

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

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

##### KEY FEATURES

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

#### Ratchet arm with bayonet coupling

Quick change of the bending formers

#### Release lever

Quick release and reset of the bending formers

#### Ergonomic design

One handed operation

#### Compact design

Accurate bending even in restricted spaces

#### Open bending frame

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

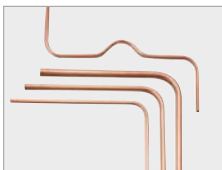
#### Mechanical ratchet feed

Quick and accurate bending



Fig. TUBE BENDER Set

#### Various bends possible



#### TUBE BENDER (No. 766004016)



#### Bending formers (No. 24048)



#### Back plates (No. 24049)



#### Bending segments



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

Model	kg	📦	No.
Basic set (basic tool, back plates plastic case)	1.00	1	<b>24010</b>
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>
Plastic carrying case	0.60	1	<b>24025</b>
Basic tool without bending segments	0.36	1	<b>766004016</b>
Support segment	0.05	1	<b>24048</b>
Back plate without support segment	0.14	1	<b>24049</b>

### TUBE BENDER Bending Segments

Model	Size	g	No.
Bending segments	5 mm	190	<b>24001</b>
Bending segments	6 mm	210	<b>R2403200</b>
Bending segments	8 mm	250	<b>R2403300</b>
Bending segments	9 mm	360	<b>24004</b>
Bending segments	10 mm	390	<b>24005</b>
Bending segments	12 mm	390	<b>24007</b>
Bending segments	1/4"	210	<b>24002</b>
Bending segments	5/16"	250	<b>24003</b>
Bending segments	3/8"	270	<b>24006</b>
Bending segments	1/2"	380	<b>24008</b>

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



## TUBE BENDER MAXI

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



### Product Profile

#### APPLICATION AREA

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

Suitable for pipe made of:

<b>Copper (soft) and aluminium:</b>	Ø 12 - 22 mm, 3/8 - 7/8"
<b>Copper (coated):</b>	Ø 12 - 18 mm, 3/8 - 5/8"
<b>Precision steel (soft):</b>	Ø 12 - 22 mm, 3/8 - 7/8"
<b>Stainless steel (thin-walled, soft):</b>	Ø 12 - 18 mm, 3/8 - 5/8"
<b>MSR (Multilayer):</b>	Ø 14 - 26 mm, 5/8 - 7/8"

#### KEY FEATURES

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

#### Safe transport

Handle will not open during transport

#### Optimum bending results

Plastic bending segments and support segments with increased conductivity

#### Mechanical ratchet feed

Quick precise bending

#### Release lever

Quick release and reset of the bending former

#### Adjustable bending frame

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



Fig. TUBE BENDER MAXI Set

TUBE BENDER MAXI Sets include: basic unit (No. 766100016), back plate support with segments (Cu Set No. 23001) (MSR Set No. 23001), (MSR-Set No. 24022), plastic carrying case (No. 23097)

Model	kg	☐	No.
TB MAXI set 12 - 15 - 18 - 22 mm	3.5	1	<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	3.3	1	<b>023090X</b>
14 - 16 - 18 - 20 - 25 mm			
TB MAXI set MSR	3.3	1	<b>023091X</b>
14 - 16 - 18 - 20 - 26 mm			
Basic tool without back plate support	1.0	1	<b>766100016</b>
Back plate support without support segments	0.5	1	<b>23015</b>
Support segment R/L 10 - 25 mm	0.5	2	<b>23008</b>
Support segments R/L 12 - 22 mm	0.1	2	<b>23047</b>
Plastic carrying case	1.1	1	<b>23097</b>

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

## TUBE BENDER MAXI Bending Segments

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

# Bending

## Manual

### TUBE BENDER MAXI MSR Set

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### Adjustable bending frame

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

##### Ratchet arm with bayonet coupling

Bending formers easily changed

##### Smooth running feed lever

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

##### Plastic bending formers and support segments with increased conductivity

Optimum bending results

##### Release lever

Quick release and resetting of bending formers

##### Mechanical ratchet feed

Quick operation

Fig. TUBE BENDER MAXI MSR

##### Body made of resistant die-cast steel

Sturdy and long-lasting

##### Universal field operation



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

Model	Description	No.
TUBE BENDER MAXI MSR Set	14 - 16 - 18 - 20 - 25 - 32 mm	<b>23065</b>
TUBE BENDER MAXI MSR Set	14 - 16 - 18 - 20 - 26 - 32 mm	<b>23095</b>

#### ACCESSORIES



Description	g	No.	Description	g	No.
Bending segment 14 x 2.0 mm	80	<b>23003</b>	Bending segment 26 x 2.0 mm	200	<b>23053</b>
Bending segment 16 x 2.0 mm	100	<b>23005</b>	Bending segment 32 x 2.0 mm	380	<b>23051</b>
Bending segment 18 x 2.0 mm	140	<b>23050</b>	Basic tool 32 without support brackets	1280	<b>23076</b>
Bending segment 20 x 2.0 mm	150	<b>23052</b>	Support brackets with support segments R/L 23076	790	<b>23080</b>
Bending segment 25 x 2.0 mm	180	<b>23009</b>	Support segments	200	<b>23083</b>

## Standard Two Handed Bender 90°

For accurate bending up to 90° for pipes made of semi-hard copper according to DIN EN 1057  
Ø 12 x 1.0 - 28 x 1.0 mm

### KEY FEATURES

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



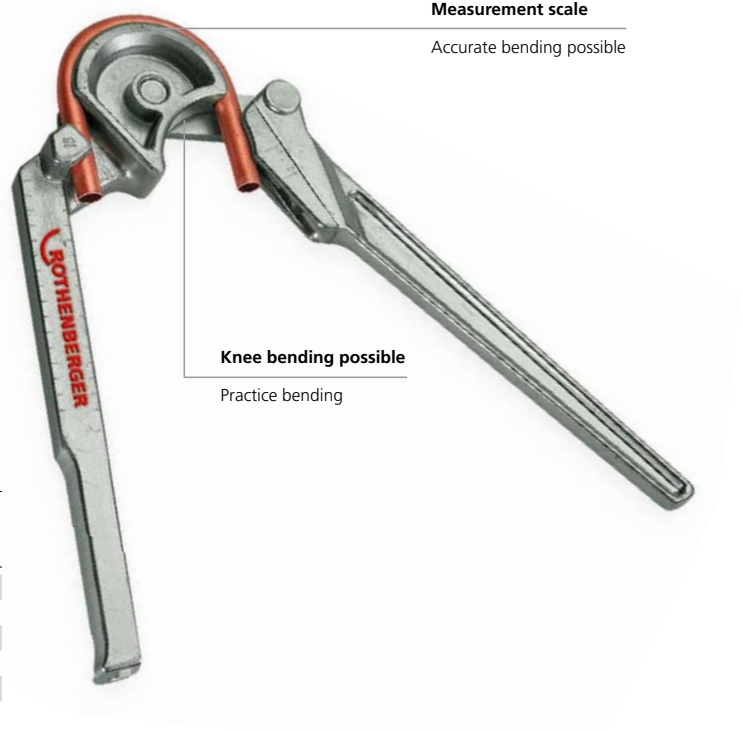
Size	mm	R Radius mm	L mm	kg	No.
12 mm	1.0	43	460	1.4	462212
15 mm	1.0	60	600	2.3	462215
18 mm	1.0	74	860	3.2	462218
22 mm	1.0	87	900	4.3	462222

## MULTIBEND Standard Bender 180°

For accurate bending up to 180° of pipes made of soft copper, aluminium and precision steel Ø 10 - 18 mm  
(1/4 - 5/8")

### KEY FEATURES

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



Measurement scale

Accurate bending possible

Knee bending possible

Practice bending

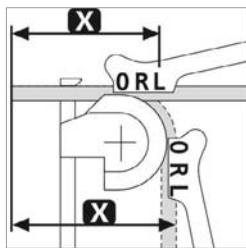
Size	max. mm	R Radius mm	kg	No.
10 mm	1.0	30	0.37	25401
12 mm	1.0	36	0.64	25402
14 mm	1.0	42	0.98	25403
15 mm	1.0	48	1.45	25404
16 mm	1.0	48	1.46	25405
18 mm	1.0	54	2.00	25406

# Bending

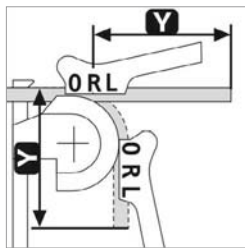
## Manual

3

Method L



Method R



Accurate bending

Minimum size chart and bending radius display on measurement scale

### MINIBEND

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

#### KEY FEATURES

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

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

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

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

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

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

#### KEY FEATURES

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

Accurate bending

Minimum size chart and bending radius display on measurement scale



Size	R Radius mm	L 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>
1/4"	18	305	560	<b>25140</b>
5/16" / 12 mm	24	305	640	<b>25131</b>
1/2"	30	390	1,680	<b>25142</b>
5/8"	58	450	1,830	<b>25136</b>

### ACCESSORIES



Description	No.
Internal / External deburrer	<b>27 150000236</b>
Bending spray, 150 ml	<b>61 25120</b>

## Copper Tube Bending Springs

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

### KEY FEATURES

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



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

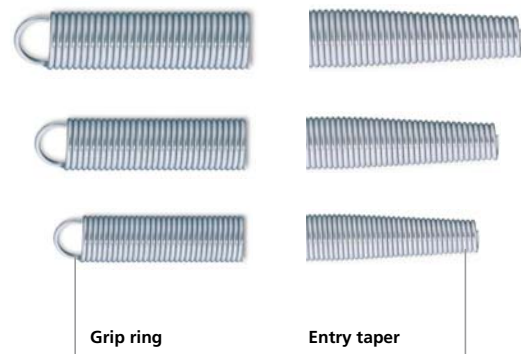
Size	g	No.
1/4"	80	25187
5/16"	70	25181
3/8"	90	25188
1/2"	130	25190
5/8"	220	25186

## MSR Internal Bending Springs

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

### KEY FEATURES

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



Grip ring

for insertion into and retraction out of the pipe

Entry taper

for clean insertion in the pipe

Model	Bending spring	Pipe	g	No.
MSR-internal-bending spring	6.0 mm	12.0 mm	90	25441
MSR-internal-bending spring	8.0 mm	14.0 mm	120	25442
MSR-internal-bending spring	10.0 mm	16.0 mm	150	25443
MSR-internal-bending spring	12.0 mm	18.0 mm	180	25444
MSR-internal-bending spring	13.5 mm	20.0 mm	220	25445
MSR-internal-bending spring	19.0 mm	25/26 mm	380	25446



## Bending Spray

For bending copper and steel pipes

### KEY FEATURES

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

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



Fig. Bending spray

## ACCESSORIES



Description	No.
Internal / External deburrer	27 150000236

# Bending

## Manual

### ROBEND® H+W PLUS

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

**Made in Germany!**



#### Product Profile

##### APPLICATION AREA

For accurate bending up to 180° on pipes made of:

<b>Copper (soft, semi-hard, hard thin-walled):</b>	Ø 8 - 22 mm,	5/16 - 7/8"
<b>Copper (coated, also thin-walled):</b>	Ø 10 - 18 mm,	3/8 - 5/8"
<b>Aluminium and brass:</b>	Ø 8 - 22 mm,	5/16 - 7/8"
<b>Precision steel (also coated):</b>	Ø 10 - 22 mm,	3/8 - 5/8"
<b>Seamless stainless steel:</b>	Ø 8 - 22 mm,	5/16 - 7/8"

##### KEY FEATURES

- Exact bending to the mm on continuous pipe
- Retains shape and remains stable
- Two-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

3



#### ROLUB-Anti-block-System

Less effort due to lower friction and optimum distribution of the bending spray

#### ROLUB-Anti-Block-System!

#### Optimum combination of ROLUB guide shoe and the bending former

Perfect bending results without friction marks

#### Minimum size chart and bending radius display

Accurate bending

#### Bending formers with base plate

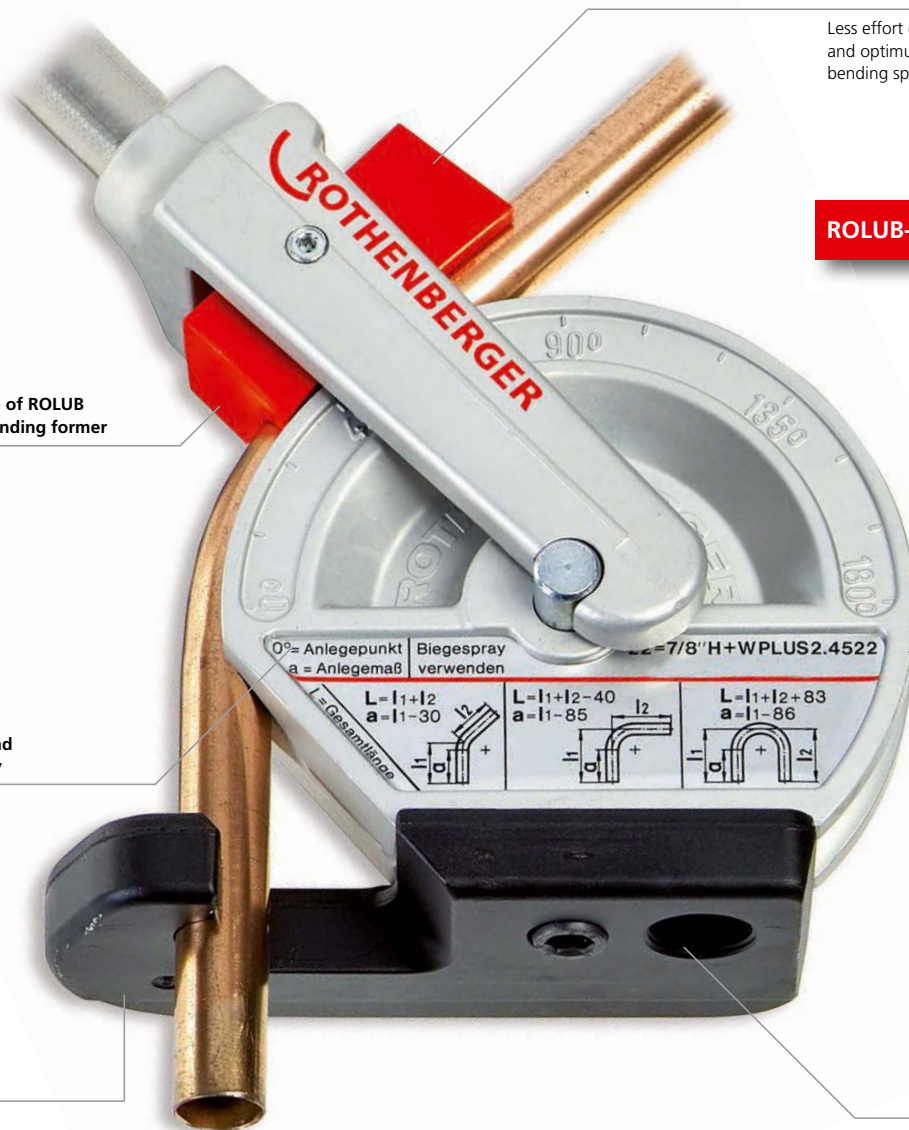
Easy bending through clamping on a vice

#### Made from high quality forged aluminium

Retains shape and remains stable

#### Thread for the attachment of the additional lever (accessories)

Free-hand bending possible



### ROBEND® H+W PLUS Bender

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



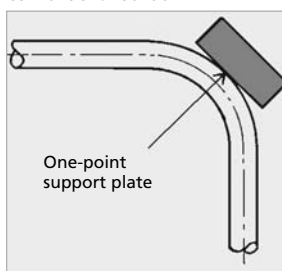
### ROBEND® H+W PLUS Bender

Size	max mm	R Radius mm	g	No.
8 mm	1.0	22	660	24508
10 mm	1.0	32	1,180	24510
12 mm	1.0	38	1,110	24512
14 mm	1.0	45	1,370	24514
15 mm	1.0	45	1,370	24515
16 mm	1.0	64	2,620	24516
18 mm	1.0	64	2,620	24518
22 mm	1.0	81	3,800	24522
5/16"	1.0	22	660	24508
3/8"	1.0	32	1,185	24551
1/2"	1.0	38	1,110	24552
5/8"	1.0	64	2,620	24516
3/4"	1.0	81	3,850	24519
7/8"	1.0	81	3,800	24522

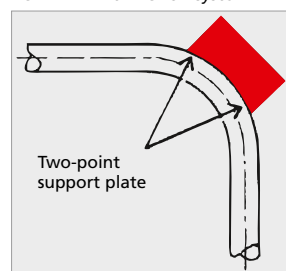
#### ACCESSORIES (additional lever for two-hand bending)

Lever (short) for bending formers Ø 8 mm / 3/8"	25075
Lever for bending formers Ø 10 - 15 mm	25076
Lever for bending formers bigger than Ø 15 mm	25078
Bending spray 150 ml	25120

Conventional bender



ROBEND® with ROLUB system



Accurate bending



### ROBEND® H+W PLUS Bending Sets

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

### ROBEND® H+W PLUS Bending Sets

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

### ROLUB Anti-Block Special Guide Shoe

Size	g	No.
8 mm	20	25308
10 mm	20	25310
12 mm	30	25312
14 mm	30	25314
15 mm	30	25315
16 mm	50	25316
18 mm	50	25318
20 mm	90	25320
22 mm	90	25322
5/16"	20	25308
3/8"	25	25310
1/2"	30	25313
5/8"	50	25316
3/4"	90	25319
7/8"	90	25322

### ROLUB Anti-Block Special Guide Shoe

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

#### Elastic honeycomb construction

Up to 42% less effort due to less friction



#### ROLUB Special Guide Shoe made of high-quality polyamide

Perfect bending results without friction marks

#### Two-point lubricating chamber system

Ensures optimum distribution of lubrication

# Bending

## Manual Hydraulic

### ROBULL Type E / ROBULL MSR Type E

For precise, manual hydraulic cold bending up to 90°



#### Product Profile

##### APPLICATION AREA

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

##### ROBULL Type E:

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

**Carbon steel suitable for welding and thread-cutting**       $\varnothing$  3/8 - 2"

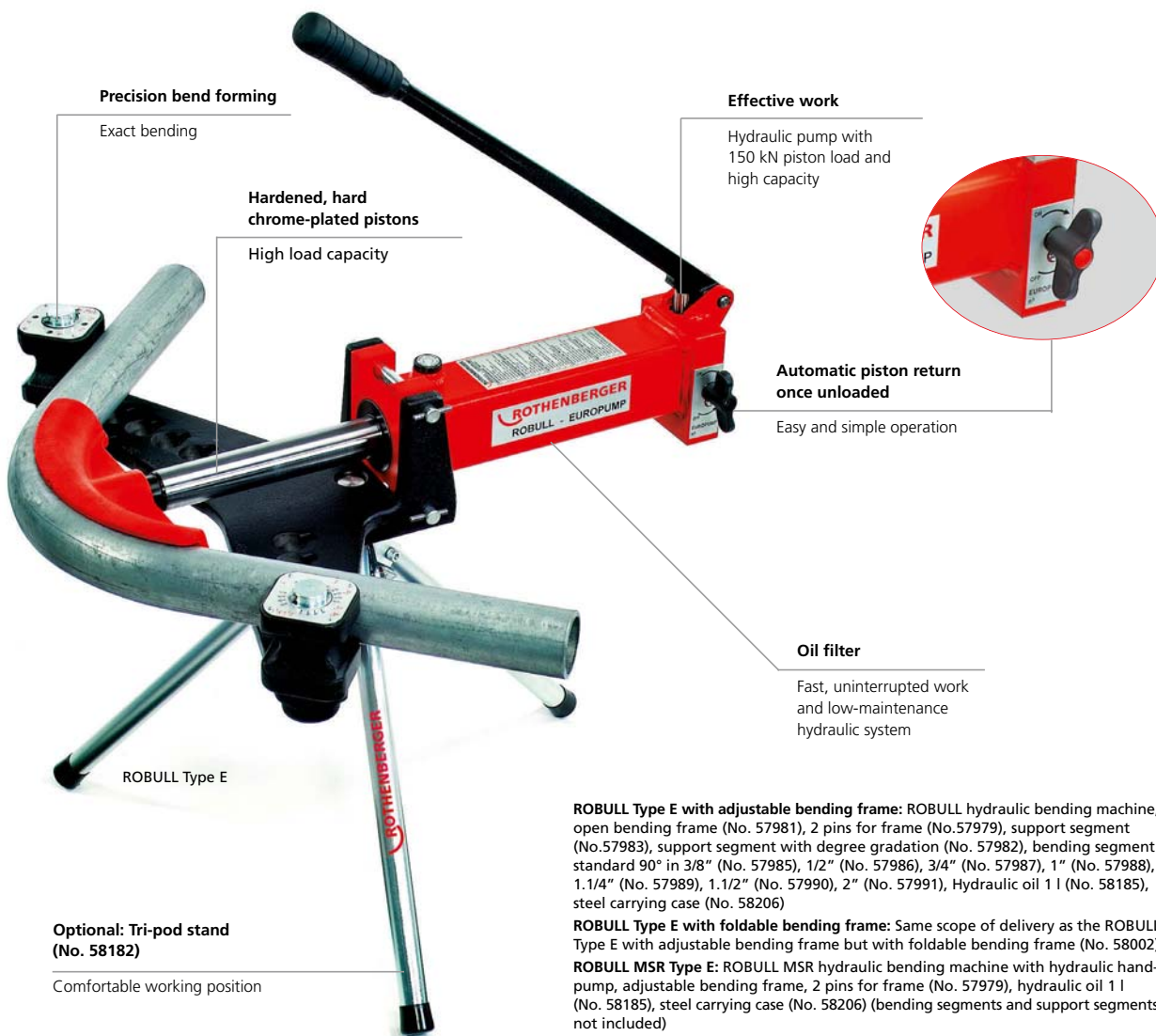
##### ROBULL MSR Type E:

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

**Multi-layered composite pipe (MSR)**       $\varnothing$  40 - 50 - 63 mm

##### KEY FEATURES

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



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

**ROBULL Type E with foldable bending frame:** Same scope of delivery as the ROBULL Type E with adjustable bending frame but with foldable bending frame (No. 58002)

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

**Optional: Tri-pod stand (No. 58182)**

Comfortable working position

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



### ROBULL Type E



ROBULL Type E with foldable bending frame

### ROBULL MSR Type E



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



### ROBULL Type E Bending Segments

#### Small bending radius

inch	mm	Wall thickness max. mm	r mm	kg	No.
3/8"	17.20	2.35	45	0.7	<b>57985</b>
1/2"	21.30	2.65	49	0.7	<b>57986</b>
3/4"	26.90	2.65	65	0.8	<b>57987</b>
1"	33.70	3.25	89	1.3	<b>57988</b>
1.1/4"	42.40	3.25	115	1.6	<b>57989</b>
1.1/2"	48.30	3.25	137	2.4	<b>57990</b>
2"	60.30	3.65	200	3.2	<b>57991</b>

### ROBULL MSR Type E Bending Segments

mm	Wall thickness max. mm	r mm	kg	No.
40	2.35	138	1.2	<b>58021</b>
50	2.65	173	1.7	<b>58022</b>
63	2.65	218	2.3	<b>58023</b>
40 - 50 - 63	see above	see above	9.0	<b>58020</b>

### ROBULL Type E Bending Segments

#### Large bending radius

inch	mm	Wall thickness max. mm	r mm	kg	No.
3/8"	17.20	2.35	56	0.8	<b>58010</b>
1/2"	21.30	2.35	85	0.9	<b>58011</b>
3/4"	26.90	2.65	115	1.2	<b>58012</b>
1"	33.70	2.65	145	2.1	<b>58013</b>
1.1/4"	42.40	3.25	180	3.5	<b>58014</b>
1.1/2"	48.30	3.25	214	4.3	<b>58015</b>
2"	60.30	3.65	245	5.6	<b>58016</b>



### ACCESSORIES



Model	kg	No.
<b>ROBULL Type E</b>		
Bending frame, adjustable	15.2	<b>57981</b>
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	<b>57982</b>
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	<b>57983</b>
Bending frame, foldable	12.5	<b>58002</b>
Support segment for foldable bending frame (1 piece)	2.2	<b>58004</b>
Locking pin	0.3	<b>57979</b>

Model	kg	No.
<b>ROBULL MSR Type E</b>		
Support segments, 40 mm (2 piece)	1.9	<b>57921</b>
Support segments, 50 mm (2 piece)	3.2	<b>57922</b>
Support segments, 63 mm (2 piece)	3.9	<b>57923</b>
<b>ROBULL Type E / ROBULL MSR Type E</b>		
Hydraulic oil, 1 litre	1.0	<b>58185</b>
Steel carrying case	10.0	<b>58206</b>
Tripod stand	3.0	<b>58182</b>

# Bending

## Electric Hydraulic

### ROBULL Type ME / ROBULL MSR Type ME

For precise, power hydraulic cold bending up to 90°



#### Product Profile

##### APPLICATION AREA

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

##### ROBULL Type ME:

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

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

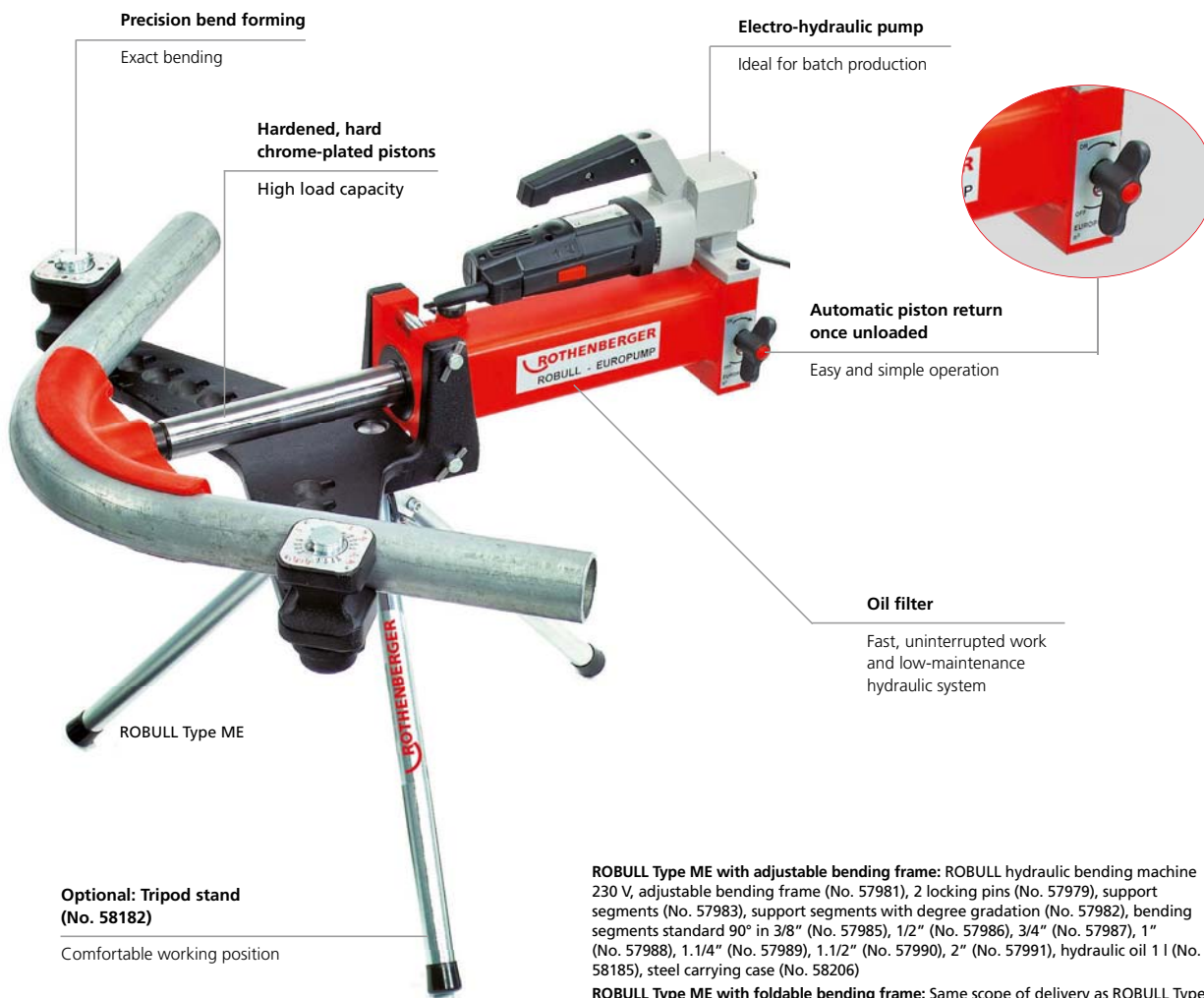
##### ROBULL MSR Type ME:

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

**multi-layered composite pipe (MSR)**      Ø 40 - 50 - 63 mm

##### KEY FEATURES

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



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

**ROBULL Type ME with foldable bending frame:** Same scope of delivery as ROBULL Type ME with adjustable bending frame but with foldable bending frame (No. 58002)

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

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

### ROBULL Type ME



ROBULL Type E with foldable bending frame

### ROBULL MSR Type ME



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

### ROBULL Type ME Bending Segments

#### Small bending radius

inch	mm	Wall thickness max. mm	r mm	kg	No.
3/8"	17.20	2.35	45	0.7	<b>57985</b>
1/2"	21.30	2.65	49	0.7	<b>57986</b>
3/4"	26.90	2.65	65	0.8	<b>57987</b>
1"	33.70	3.25	89	1.3	<b>57988</b>
1.1/4"	42.40	3.25	115	1.6	<b>57989</b>
1.1/2"	48.30	3.25	137	2.4	<b>57990</b>
2"	60.30	3.65	200	3.2	<b>57991</b>

### ROBULL MSR Type ME Bending Segments

mm	Wall thickness max. mm	r mm	kg	No.
40	2.35	138	1.2	<b>58021</b>
50	2.65	173	1.7	<b>58022</b>
63	2.65	218	2.3	<b>58023</b>
40 - 50 - 63	see above	see above	9.0	<b>58020</b>

### ROBULL Type ME Bending Segments

#### Large bending radius

inch	mm	Wall thickness max. mm	r mm	kg	No.
3/8"	17.20	2.35	56	0.8	<b>58010</b>
1/2"	21.30	2.35	85	0.9	<b>58011</b>
3/4"	26.90	2.65	115	1.2	<b>58012</b>
1"	33.70	2.65	145	2.1	<b>58013</b>
1.1/4"	42.40	3.25	180	3.5	<b>58014</b>
1.1/2"	48.30	3.25	214	4.3	<b>58015</b>
2"	60.30	3.65	245	5.6	<b>58016</b>



### ACCESSORIES



Model	kg	No.
<b>ROBULL Type ME</b>		
Bending frame, adjustable	15.2	<b>57981</b>
Support segment for adjustable bending frame, with degree gradation (1 piece)	2.6	<b>57982</b>
Support segment for adjustable bending frame, without degree gradation (1 piece)	2.6	<b>57983</b>
Bending frame, foldable	12.5	<b>58002</b>
Support segment for foldable bending frame (1 piece)	2.2	<b>58004</b>
Locking pin	0.3	<b>57979</b>

Model	kg	No.
<b>ROBULL MSR Type ME</b>		
Support segments, 40 mm (2 piece)	1.9	<b>57921</b>
Support segments, 50 mm (2 piece)	3.2	<b>57922</b>
Support segments, 63 mm (2 piece)	3.9	<b>57923</b>
<b>ROBULL Type ME / ROBULL MSR Type ME</b>		
Hydraulic oil, 1 litre	1.0	<b>58185</b>
Steel carrying case	10.0	<b>58206</b>
Tripod stand	3.0	<b>58182</b>



# Bending

## Electric

### ROBEND® 3000

Portable, sturdy power bender for cold bending up to 180°, Ø 12 - 28 mm (1/2 - 1.1/8")

#### Product Profile

##### APPLICATION AREA

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

**Suitable for pipes made of:**

**Copper (hard, semi-hard and soft DIN EN 1057):** 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 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

##### KEY FEATURES

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

3



Pre-adjustment of the bending angle without tools

Fast and precise bending

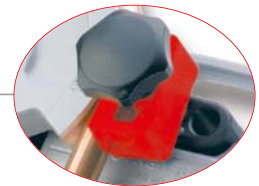


Forged aluminium former with bending radius scale

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

Bending of pipes made of various materials possible



Seven-fold drive



Comfortable carry handle



ROBEND® 3000 with stand



### ROBEND® 3000 Sets

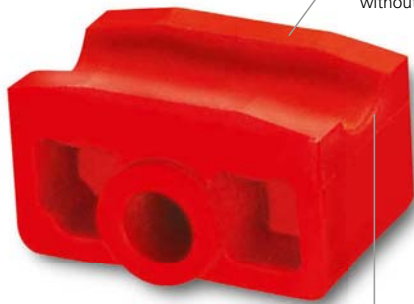
Sets include: Basic 230 V Unit (No. 025740X), bending formers and guide shoes for respective pipe diameters, guide shoe axle (No. 25743), adaptor for tripod (No. 25748) in basic unit (tripod optional), in a plastic carrying case (No. 25745)



#### ROLUB-Anti-block-System!

ROLUB special guide shoe made out of high-quality polyamide

Perfect bending results without friction marks



Optional: Tripod stand



Fig. ROBEND® 3000 Set

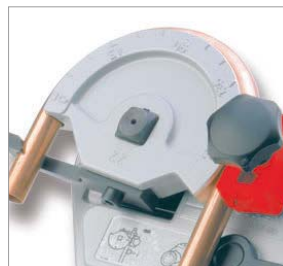
#### 2 point lubricating chamber system

Ensures optimum distribution of lubrication

#### ROBEND® bending sets



#### Forged aluminium former with bending radius display



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



Model	Description	Pipe type	kg	No.
ROBEND® 3000 Set	15 - 18 - 22 mm	Cu, Fe, u.a.	24.12	<b>025750X</b>
ROBEND® 3000 Set	15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24.12	<b>025705X</b>
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 mm	Cu, Fe, u.a.	21.90	<b>025709X</b>
ROBEND® 3000 Set	15 - 22 - 28 mm	Cu, Fe, u.a.	21.10	<b>25760</b>
ROBEND® 3000 Set	12 - 14 - 16 - 18 - 22 - 28 mm	Cu, Fe, u.a.	24.10	<b>025710X</b>
ROBEND® 3000 Set	12 - 15 - 18 - 22 mm	Cu, Fe, u.a.	20.60	<b>025700X</b>
ROBEND® 3000 Set	12 - 15 - 18 - 22 - 28 mm	Cu, Fe, u.a.	23.50	<b>025703X</b>
ROBEND® 3000 Set	1/2 - 5/8 - 3/4" - 7/8"	Cu, Fe, u.a.	19.60	<b>025711X</b>
ROBEND® 3000 Basic Unit	without bending segments	Cu, Fe, u.a.	13.00	<b>025740X</b>

#### ACCESSORIES



Description	No.	Description	No.
Bending spray 150 ml	<b>25120</b>	Pipe cutter	<b>10 - 24</b>
Guide shoe axle	<b>25743</b>	Internal / External deburrer	<b>27</b>
ROBEND® carrying case, for 5 segments up to Ø 30 mm	<b>25745</b>	Hard soldering torch (SUPER FIRE 3 with MAPP®-GAS)	<b>138</b>
Tripod stand, foldable	<b>25748</b>	Brazing solder	<b>169 - 171</b>

ROBEND® 3000 bending sets can be found on 70

# Bending

## Accessories & Bending Tables

### ROBEND® 3000 Bending Formers

For bending pipes Ø 12 - 28 mm (1/2 - 1.1/8")



ROBEND® 3000 bending set with ROLUB guide shoe

For copper pipe DIN EN 1057, aluminium pipe. Precision steel pipe DIN 2391/93/94, stainless steel pipe and others

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

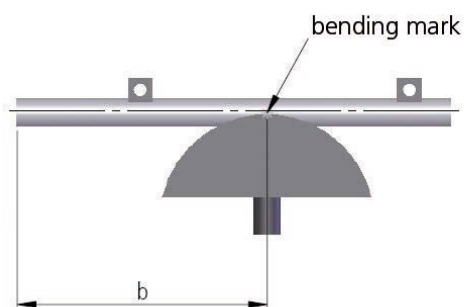
For copper pipe

Size	Wall thickness mm	Bending radius mm	kg	No.
1/2"	1.2	45	0.53	25652
5/8"	1.2	56	0.60	762955300
3/4"	1.2	80	1.42	25619
7/8"	1.2	88	1.42	762955700
1"	1.5	112	2.90	25625
1.1/8"	1.6	112	2.90	25626

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

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

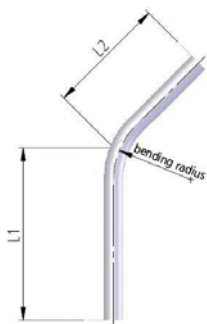
## Draw-bending



### Symbols

- L1, L2 = Leg length
- b = Lay out length
- L = Total length of the pipe piece
- L<sub>w</sub> = Distance / pipe end - wall
- A<sub>w</sub> = Distance wall - pipe middle
- L<sub>M</sub> = Minimum Length\*
- L<sub>R</sub> = Reserve Length\*

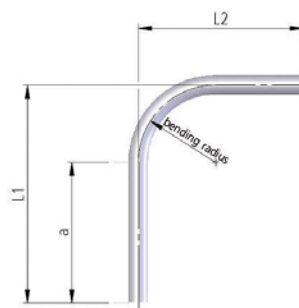
### 45°-Arc



$$L = L_1 + L_2$$

$$b = L_1 - L_R$$

### 90°-Arc



$$L = L_1 + L_2 - L_M$$

$$b = L_1 - L_R$$

### Calculation Examples TUBE BENDER MAXI

#### Specifications:

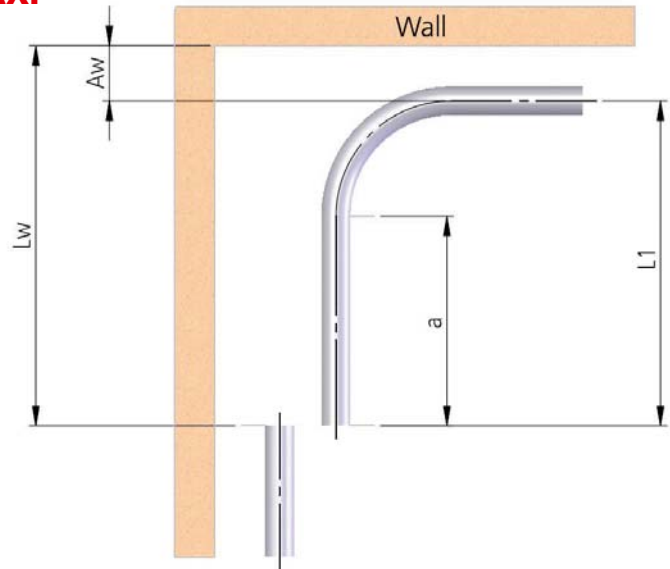
Installation in corner areas  
 $L_W = 1200$  mm  
 $A_W = 30$  mm  
 Pipe- $\varnothing$  12 mm, 90°-Arch

#### Sought after:

Leg length  $L_1$   
 Applied size  $b$

#### Solution:

Summary from the TUBE BENDER MAXI bending table



Leg length  $L_1 = L_W - A_W = 1200 - 30 = 1.170$  mm  
 Applied size  $b = L_1 - L_R = 1170 - 7,5 = 1.162,5$  mm;  $L_R$  .. Tabular value

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

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

TUBE BENDER MAXI CT		at 45°		at 90°		at 180°
$\varnothing$ / $W_s$ mm	Bending radius R (mm)	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm	Minimum length $L_M$ mm	Reserve length $L_R$ mm
10 x 0,6	42.5	0.8	12.5	9.0	42.5	-
12 x 0,6	49.0	1.1	14.5	10.5	49.0	-
15 x 0,7	74.0	1.7	22.0	16.0	74.0	-
18 x 0,7	87.0	1.9	25.5	18.5	87.0	-

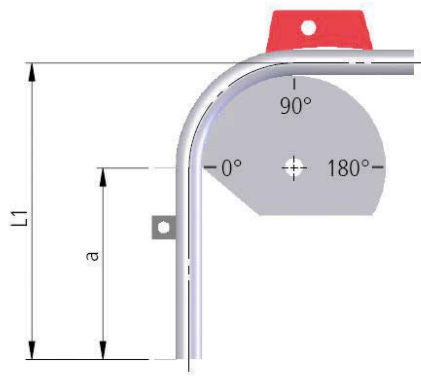
\*All sizes listed are standards and are dependant on the material and the wall thickness. Bending specific sizes based on the bending radius - tabular value



# Bending

## Bending Tables

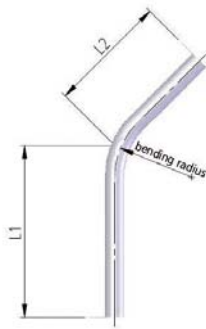
### Pull-bending



#### Symbols

- L1, L2 = Leg length
- a = Lay out length
- L = Total length of the pipe piece
- L<sub>w</sub> = Distance / pipe end - wall
- A<sub>w</sub> = Distance wall - pipe middle
- L<sub>M</sub> = Minimum Length\*
- L<sub>R</sub> = Reserve Length\*

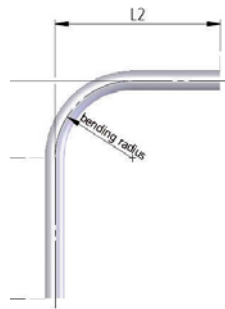
#### 45°-Arc



$$L = L_1 + L_2$$

$$a = L_1 - L_R$$

#### 90°-Arc



$$L = L_1 + L_2 - L_M$$

$$a = L_1 - L_R$$

#### 180°-Arc



$$L = L_1 + L_2 + L_M$$

$$a = L_1 - L_R$$

### Calculation Examples ROBEND® 3000

#### Specifications:

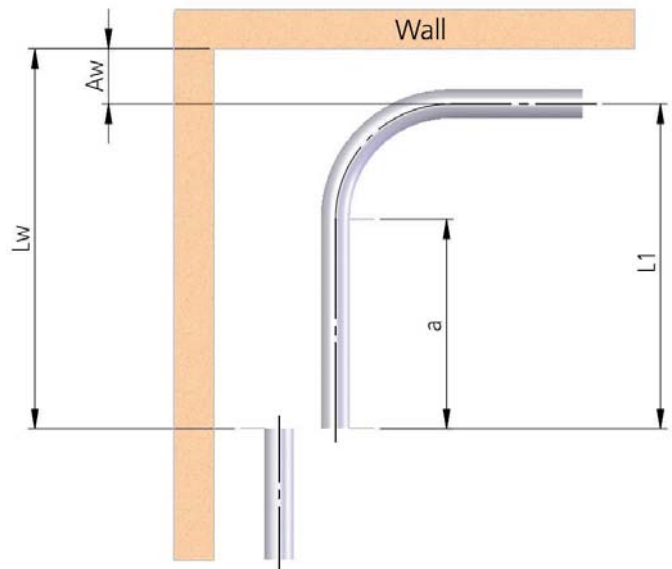
- Installation in corner areas
- L<sub>w</sub> = 1200 mm
- A<sub>w</sub> = 30 mm
- Pipe-Ø 12 mm, 90°-Arc

#### Sought after:

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

#### Solution:

Summary from the ROBEND® 3000 bending table



Leg length  $L_1 = L_w - A_w = 1200 - 30 = 1.170 \text{ mm}$   
 Applied size  $a = L_1 - L_R = 1170 - 42 = 1.128 \text{ mm}; L_R \dots \text{Tabular value}$



<b>H&amp;W Plus</b>			<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
Ø / Ws mm / inch	Bending radius R (mm)		Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
8	22		9	-	22	9.5	22	47
10	32		12	-	32	15.0	32	34
12	38		15	-	40	20.0	38	39
14	45		17	-	44	22.0	44	51
15	45		17	-	44	22.0	44	51
16	64		25	-	67	30.0	68	65
18	64		25	-	67	30.0	68	65
20	81		30	-	85	40.0	86	83
22	81		30	-	85	40.0	86	83
5/16"	22		9	-	22	9.5	22	47
3/8"	32		12	-	32	20.0	32	34
1/2"	38		15	-	40	22.0	38	39
5/8"	64		25	-	67	30.0	68	65
3/4"	81		30	-	85	40.0	86	83
7/8"	81		30	-	85	40.0	86	83

<b>MINIBEND</b>			<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
Ø / Ws mm / inch	Bending radius R (mm)		Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
6	25.0		10.4	1.0	22.0	10.0	22.0	26.0
8	24.0		9.9	1.0	32.0	15.0	32.0	34.0
10	23.0		9.5	1.0	32.0	15.0	32.0	34.0
1/4"	25.0		10.4	1.0	22.0	10.0	22.0	26.0
5/16"	24.0		9.9	1.0	32.0	15.0	32.0	34.0
3/8"	23.0		9.5	1.0	32.0	15.0	32.0	34.0

<b>Standard Bender 180°</b>			<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
for Ø mm / inch	Bending radius R (mm)		Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
6	18.0		7.0	0.8	18.5	8.0	18.5	20.0
10	30.0		11.5	1.3	30.5	14.5	30.5	34.0
12	36.0		14.0	1.5	36.5	15.0	36.5	37.5
14	47.5		18.5	2.0	48.5	20.5	48.5	52.5
15	54.0		21.0	2.3	56.0	24.5	56.0	58.0
16	58.0		22.5	2.5	64.0	28.5	64.0	67.0
18	66.0		25.5	2.8	68.0	31.0	68.0	72.0
1/4"	18.0		7.0	0.8	18.5	8.0	18.5	20.0
5/16"	24.0		9.5	1.0	24.0	12.0	24.0	27.0
1/2"	42.0		16.5	1.8	49.5	22.5	49.5	53.0
5/8"	58.0		22.5	2.5	64.0	28.5	64.0	67.0

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

<b>ROBEND® 3000</b>			<b>at 45°</b>		<b>at 90°</b>		<b>at 180°</b>	
for Ø mm / inch	Pipe	Bending radius R (mm)	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm	Reserve length L <sub>R</sub> mm	Minimum length L <sub>M</sub> mm
12		42.0	16	-	42	24	42	68
14	wated	52.5	21	-	53	30	53	87
15		52.5	21	-	53	30	53	87
17	wated	72.0	28	-	72	41	72	107
18		72.0	28	-	72	41	72	107
20	wated	88.5	35	-	89	51	89	121
22		88.0	35	-	88	50	88	119
24	wated	112.0	43	-	110	62	110	144
28		112.0	44	-	112	64	112	148
30	wated	112.0	45	-	114	66	114	152
3/8"	steel	80.0	31	-	80	46	80	103
1/2"	copper	45.0	18	-	45	26	45	74
1/2"	steel	88.0	35	-	88	50	88	119
5/8"	copper	56.0	23	-	56	32	56	93
3/4"	steel	112.0	43	-	112	64	112	148
3/4"	copper	80.0	31	-	80	46	80	103
7/8"	copper	88.0	35	-	88	50	88	119
1"	copper	112.0	44	-	112	64	112	148
1.1/8"	copper	112.0	45	-	114	66	114	152

\*All sizes listed are standards and are dependant on the material and the wall thickness. Bending specific sizes based on the bending radius - tabular value





“ROTHENBERGER Constant Force Technology (CFT®) guarantees a constant axial pressing force – an important prerequisite for manufacturing tightsealing pressing connections”



# Bonding

## Expanding, Extracting, Flaring

Expanding Manual	76 - 83
Expanding Electric	84 - 86
Expanding Hydraulic	87 - 88
Accessories Expanding	89 - 90
Expanding & Extracting Manual	90
Extracting Manual	91 - 92
Accessories Extracting Manual	93
Flaring	94 - 97

## Pressing

System Overview Pressing Technology	98 - 99
Press Machines Compact	100 - 101
Press Machines Standard	102 - 104
Press Jaws & Interchangeable Press Jaws	105
Press Jaws Standard	106
Pressing Collars Standard	106
Press Jaws Program Overview	107 - 113

## Threading

Threading Manual	114 - 117
Threading Electric	118 - 132
Accessories Threading	133
Roll Grooving	134 - 135

## Soldering & Welding

Application Overview	136 - 137
Cartridge Brazing	138 - 140, 142 - 143
Cartridge Soft Soldering	140 - 141, 143, 149
Cylinder Brazing	144 - 148
Cylinder Soft Soldering	150 - 151
Accessories Cylinder Brazing / Soft Soldering	152
Electric Soft Soldering	153 - 154
Gas Welding	155 - 159
Three-Gas Welding	160 - 161
Accessories Soldering & Welding	162 - 171



Do you want to know more about our products? Please scan the QR-Code!



# Bonding

## Expanding Manual

### ROCAM® EXPANDER Power Torque

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



#### Product Profile

##### APPLICATION AREA

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

Suitable for pipes made of:

<b>Copper (soft and semi-hard):</b>	Ø 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
<b>Aluminium (soft):</b>	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Precision steel (soft):</b>	Ø 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Stainless steel (soft):</b>	Ø 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

##### KEY FEATURES

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

#### Made in Germany!

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

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



ROCAM® EXPANDER Power Torque





No.



Expander tool (without expander heads) 1 1.0 12000  
for expander heads up to 42 mm / 1.3/4"

### ROCAM® EXPANDER Power Torque Sets

ROCAM® EXPANDER Power Torque sets include: Expander heads, ROCAM® EXPANDER Power Torque (No. 12000), internal and external deburrer (No. 11006), in a steel carrying case (No. 24022), plastic inlay (No. 11002)

ROCAM® EXPANDER Power Torque Sets			No.
Description			
12 - 15 - 18 - 22 mm	1	2.9	<b>12300</b>
10 - 12 - 15 - 18 - 22 mm	1	3.3	<b>12302</b>
12 - 15 - 18 - 22 - 28 mm	1	3.3	<b>12303</b>
10 - 12 - 16 - 18 - 22 mm	1	3.3	<b>12304</b>
10 - 12 - 16 - 22 - 28 mm	1	3.3	<b>12305</b>
12 - 14 - 16 - 18 - 22 mm	1	3.3	<b>12309</b>
12 - 14 - 16 - 18 - 22 - 28 mm	1	3.3	<b>12310</b>
10 - 12 - 14 - 16 - 18 - 22 mm	1	3.6	<b>12311</b>
3/8 - 1/2 - 5/8 - 3/4 - 1"	1	3.3	<b>12317</b>
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8"	1	3.6	<b>12318</b>
1/2 - 5/8 - 3/4 - 7/8"	1	2.9	<b>12321</b>
12 - 16 - 18 - 22 - 28 mm	1	3.2	<b>12322</b>
3/8 - 1/2 - 3/4 - 1"	1	3.2	<b>12323</b>
1/2 - 5/8 - 7/8 - 1.1/8"	1	3.0	<b>12324</b>
12 - 15 - 18 - 22 - 28 - 35 - 42 mm	1	4.2	<b>12326</b>
15 - 22 - 28 mm	1	2.9	<b>12327</b>
15 - 22 mm	1	2.5	<b>12328</b>
1/2 - 3/4 - 1"	1	2.9	<b>12335</b>
10 - 12 - 15 - 16 - 18 - 22 - 28 mm	1	3.6	<b>12337</b>
12 - 14 - 16 - 18 - 22 - 28 - 32 mm	1	3.7	<b>12338</b>
15 - 18 - 22 - 28 - 35 - 42 mm	1	4.0	<b>12339</b>



ROCAM® EXPANDER Power Torque Sets			No.
			
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"	1	3.7	<b>12336</b>
3/8 - 1/2 - 5/8 - 3/4" - 22 - 28 mm	1	3.6	<b>12320</b>
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1.1/8 - 1.3/8"	1	4.5	<b>12341</b>

Quality protection against wear with the **TiN sealed pin drive**



#### EPT®-Technology (Enclosed Power Transmission)

The expander head offers the following technical benefits:

##### Concealed bent lever:

Protection against dirt and external mechanical damage

##### Energy efficient through optimised force transmission:

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




For efficient, fitting-free installation of pipes

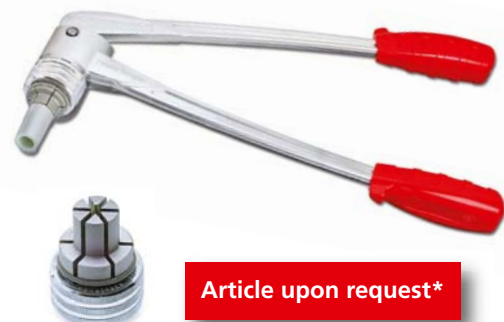


### ROCAM® PE-X EXPANDER Power Torque

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

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

Model			No.
ROCAM® EXPANDER PE-X without expander heads	1		<b>12005</b>



Article upon request\*

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

# Bonding

## Expanding Manual

### ROLOCK EXPANDER Power Torque

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



#### Product Profile

##### APPLICATION AREA

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

**Suitable for pipes made of:**

<b>Copper (soft and semi-hard):</b>	$\varnothing$ 8 - 42 mm, 5/16 - 1.3/4" max. wall thickness 1.6 mm
<b>Aluminium (soft):</b>	$\varnothing$ 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Precision steel (soft):</b>	$\varnothing$ 8 - 28 mm, 5/16 - 1.1/8" max. wall thickness 1.6 mm
<b>Stainless steel (soft):</b>	$\varnothing$ 8 - 22 mm, 5/16 - 7/8" max. wall thickness 1.0 mm

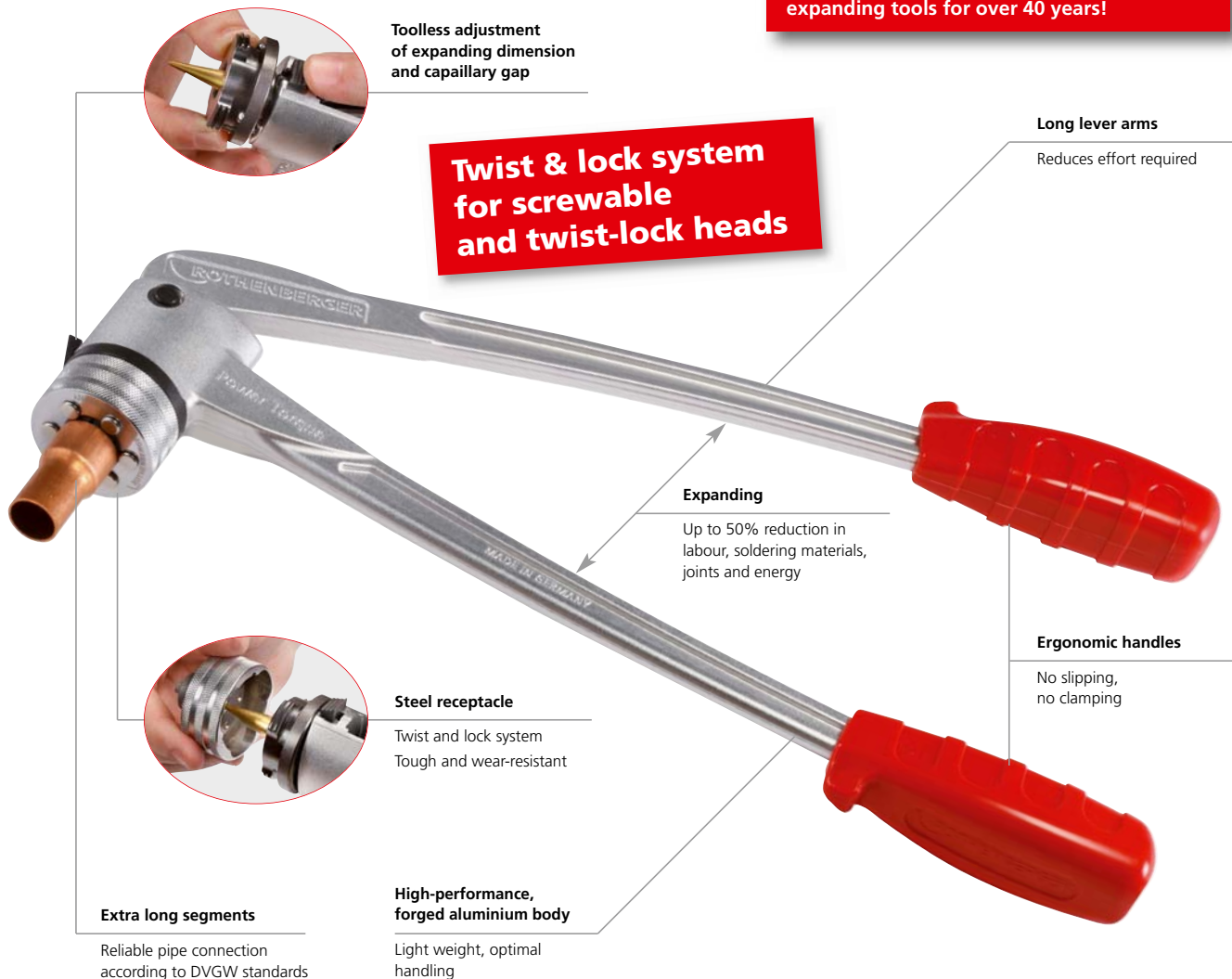
##### KEY FEATURES

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

#### Made in Germany!

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

4



ROLOCK EXPANDER Power Torque



No.

Expander tool (without expander heads)  
for expander heads up to 42 mm / 1.3/4"

1

1.0

12400

### ROLOCK EXPANDER Power Torque Sets

ROLOCK EXPANDER Power Torque Sets include: Expander heads, ROLOCK EXPANDER Power Torque (No. 12400), internal and external deburrer (No. 11006), in a steel carrying case (No. 24022), plastic inlay (No. 11002)



New expander head for guide change between nominal diameters



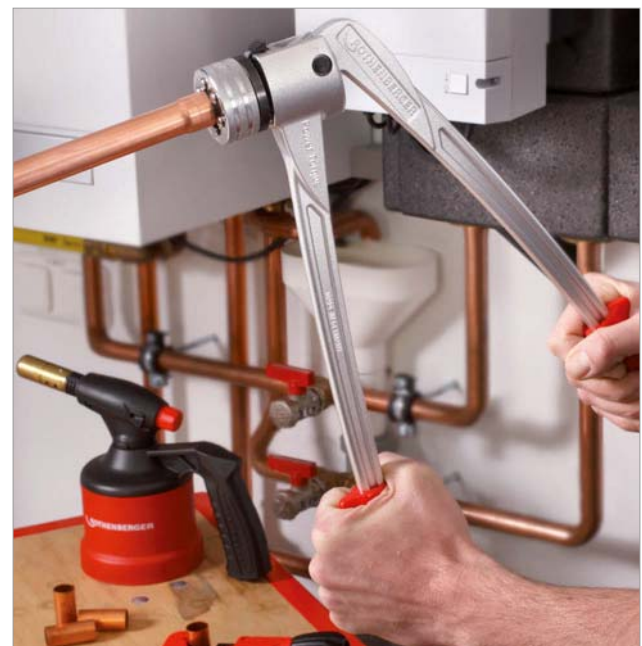
Expander heads with screw top applicable



#### ROLOCK EXPANDER Power Torque Sets

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

For efficient, fitting-free installation of pipes



#### EPT®-Technology (Enclosed Power Transmission)

The expander head offers the following technical benefits:

##### Concealed bent lever:

Protection against dirt and external mechanical damage

##### Energy efficient through optimised force transmission:

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



### ACCESSORIES



Description		Description	
Expander heads for ROLOCK EXPANDER Power Torque	<b>81</b>	Expander adaptor type S	<b>83</b>
Expander heads type S / riveted expander heads	<b>83</b>	Brazing solder	<b>169 - 171</b>
Pipe cutter	<b>10 - 21</b>	High-Performance torch (SUPER FIRE 3 with MAPP®-GAS)	<b>138 - 139</b>
Internal / External deburrer	<b>27</b>		

# Bonding

## Expanding Manual

### Standard Expander Head

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

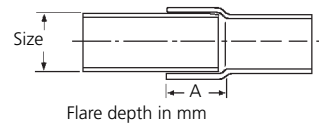
**Made in Germany!**  
The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years!

#### Product Profile

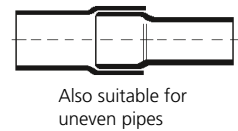
##### KEY FEATURES

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

Expansion of pipe ends



Reduction



4



Fits similar expanders from other brands as well!

#### Specially hardened segments

Tough and long lasting

#### Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

#### Extra long segments

Depth of the flare is consistent with DVGW standards



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

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

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

#### Suitable for ROTHENBERGER Expander



Model		Model	
ROCAM® EXPANDER Power Torque	76	Electro-Hydraulic Expander Pistol H 2	88
ROMAX® EXPANDER Compact	85 - 86	COMBI KIT Expander / Tee-Extractor	90
Electro-Hydraulic Expander Pistol H 1	88		



### ROLOCK Expander Head

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

#### Product Profile

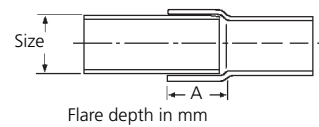
##### KEY FEATURES

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

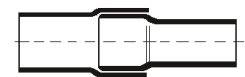
#### Made in Germany!

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

Expansion of pipe ends



Reduction



Also suitable for uneven pipes

Twist & lock heads for ROLOCK EXPANDER Power Torque

#### Specially hardened segments

Tough and long lasting

#### 6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

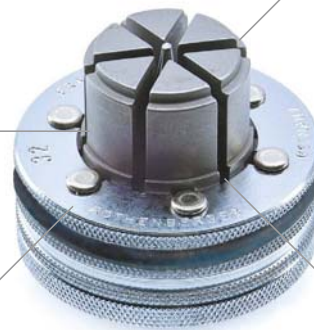
#### Step at the end of the segments

Enables re-calibration of irregular pipes and fittings



#### Extra long segments

Depth of the flare is consistent with DVGW standards



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

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

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

Suitable for ROTHENBERGER ROLOCK EXPANDER Power Torque

Model		Model	
ROLOCK EXPANDER Power Torque	<b>78</b>	COMBI KIT Expander / Tee-Extractor	<b>90</b>

# Bonding

## Expanding Manual

### EXPANDER A0

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

#### Product Profile

##### APPLICATION AREA

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

Suitable for pipes made of:

**Copper and Aluminium:**  $\varnothing$  22 - 67 mm, 1 - 2.1/2"  
max. wall thickness 2.5 mm  
**Precision steel (soft):**  $\varnothing$  22 - 54 mm, 1 - 2.1/8"  
max. wall thickness 1.5 mm  
**and Stainless steel per DVGW-GW541**

#### Functional Elements:

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

#### KEY FEATURES

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

4



#### Strong pin guide

Full bearing of the expander head segments allow heavy loads

#### Reinforced expander head casing

Precise and exact flaring

EXPANDER A0 sets (No. 11400) include: Expander head Type S, special ratchet (No. 27181), in steel case (No. 27210)

EXPANDER A0 Basic Unit (No. 11004) scope of delivery: Square drive mechanism 3/4" with handle, without expander head and ratchet

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

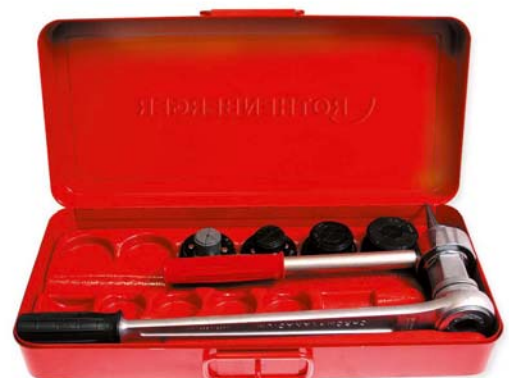
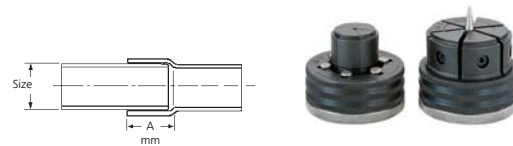


Fig. EXPANDER A0 Set

### Expander Head Type S

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



Accurate guidance of the segments through the reinforced expander head casing

mm	max. Wall thickness				A - size mm	g	No.
	Cu	Al	Fe	Inox			
22	2.0	2.0	1.5	1.5	18.5	350	<b>11323</b>
25	2.0	2.0	1.5	1.5	18.5	350	<b>11325</b>
28	2.0	2.0	1.5	1.5	19.5	360	<b>11328</b>
32	2.0	2.0	1.5	1.5	19.5	380	<b>11332</b>
34	2.0	2.0	1.5	1.5	19.5	400	<b>11334</b>
35	2.0	2.0	1.5	1.5	19.5	400	<b>11335</b>
36	2.0	2.0	1.5	1.5	19.5	400	<b>11336</b>
40	2.0	2.0	1.5	1.5	19.5	430	<b>11340</b>
42	2.0	2.0	1.5	1.5	19.5	450	<b>11342</b>
52	2.5	2.5	1.5	1.5	19.5	540	<b>11345</b>
54	2.5	2.5	1.5	1.5	19.5	570	<b>11346</b>
64	2.5	2.5	-	-	19.5	690	<b>11348</b>
67	2.5	2.5	-	-	19.5	730	<b>11380</b>

inch	max. Wall thickness				A - size mm	g	No.
	Cu	Al	Fe	Inox			
1"	2.0	2.0	1.5	1.5	18.5	350	<b>11376</b>
1.1/8"	2.0	2.0	1.5	1.5	19.5	360	<b>11358</b>
1.1/4"	2.0	2.0	1.5	1.5	19.5	380	<b>11332</b>
1.3/8"	2.0	2.0	1.5	1.5	19.5	400	<b>11335</b>
1.1/2"	2.0	2.0	1.5	1.5	19.5	430	<b>11338</b>
1.5/8"	2.0	2.0	1.5	1.5	19.5	450	<b>11362</b>
2"	2.0	2.0	1.5	1.5	17.0	540	<b>11364</b>
2.1/8"	2.5	2.5	1.5	1.5	17.0	570	<b>11346</b>
2.1/2"	2.5	2.5	-	-	17.0	690	<b>11348</b>

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

### Expander Adaptor Type S

To increase the application area of the ROCAM® EXPANDER Power Torque and Expander Pistol H1



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

Model	max. mm	max. mm	g	No.
Adaptor Type S, without expander head	67 mm - 2.1/2"	2.0	630	<b>11007</b>

### Flanged Riveted Expander Heads

For use with the ROCAM® EXPANDER, ROCAM® EXPANDER Compact Standard and Expander Pistol H1



#### Product Profile

**KEY FEATURES**

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

- Air-conditioning technology
- Auto manufacturing
- Industrial applications

mm	mm	outer dia.- Flange mm	Distance Flange pipe end mm	g	No.
15	1,5	18	4	110	<b>11955</b>
18	1,5	21	4	110	<b>11958</b>
22	1,5	25	6	120	<b>11962</b>
28	1,5	31	6	370	<b>11968</b>
35	1,5	38	6	400	<b>11975</b>
38	1,5	41	6	430	<b>11978</b>

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



# Bonding

## Expanding Electric

### STEP Expander A1

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



Fig. similar Special ratchet (No. 27181)

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

Size	kg	No.
42 - 54 - 64 - 76,1 - 88,9 - 108 mm	4,2	<b>11086</b>
35 - 42 - 54 - 64 - 76 - 108 mm	3,9	<b>11087</b>
35 - 42 - 54 - 67 - 80 - 104 mm	3,9	<b>11089</b>
1.3/8 - 1.5/8 - 2.1/8 - 2.5/8 - 3.1/8 - 4.1/8"	4,2	<b>11078</b>
1.1/4 - 4"	3,8	<b>11093</b>

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

### Product Profile

#### APPLICATION AREA

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

Suitable for pipes made of:

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

#### KEY FEATURES

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

### ROMAX® EXPANDER AC ECO MAXI

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



Made in Germany

### Product Profile

#### APPLICATION AREA

Suitable for pipes made of:

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

#### KEY FEATURES

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

#### KEY FEATURES

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

#### TECHNICAL DATA

**Weight:** ca. 13.7 kg  
**Motor:** 230 V / 50 Hz

#### Balanced weight distribution

Secure hold in every working position, ideal for one-handed use

#### Emergency stop switch

High user safety due to the interruption of the feed and the discharge of the expander head

#### Fully automatic expanding process

#### 6-fold step expander

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

#### 2. Switch directly within reach

Various holding positions possible, even in confined spaces (over head)

Article available upon request\*!



CFT® (Constant Force Technology)

For a constant axial thrust

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

### ROMAX® EXPANDER Compact

Compact, electro-hydraulic expander with a constant axial thrust of 19 kN and 12 Volt battery for portable operation, for expanding, reducing and calibrating pipes up to Ø 67 mm (2.1/2")



**Made in Germany!**

#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

**Copper, aluminium (soft):** max. Ø 67 mm and/or 2.1/2"  
max. wall thickness 2 mm

**Aluminium and Precision steel (soft):** max. Ø 67 mm or 2.1/2"  
max. wall thickness 1 mm

**Stainless steel:** max. Ø 15 mm  
max. wall thickness 1 mm

##### KEY FEATURES

- Portable operation with the battery and AC adaptor (accessories)
- Increases the operating life of the expander head
- Constant axial thrust with CFT®

##### KEY FEATURES

- Accurate adjustment of the capillary gap
- Specially matched for expander heads Type Standard, Type S or PE-X for excellent expansion results
- User safety with the easy to reach emergency switch
- Reliable hold in any position

##### TECHNICAL DATA

<b>Dimensions:</b>	only 370 x 70 x 90 mm
<b>Weight:</b>	approx. 2.6 kg
<b>Power supply:</b>	Li-ion battery 14.4 V / 2.6 Ah Mains adaptor 230 V / 50-60 Hz 110 V on request
<b>Working temperature:</b>	-10° up to +60° C

**Aluminium and precision steel (soft)  
up to max. 1 mm wall thickness!**



**CFT® (Constant Force Technology)  
for a constant axial thrust**

Expansion up to Ø 67 mm (copper)  
on Ø 15 mm (stainless steel)

##### Internal piston block

Increases the operating life of the expander head, only the actual power needed is conveyed to the expander head



##### Li-ion technology

Up to 100% more expansions\*

##### Toolless KSO adjustment possible

Accurate adjustment of the capillary gap

##### Matched pin for each type of expander head

Specially matched for the Expander heads, Type Standard, Type S or PE-X for excellent expansion results

##### Balanced weight distribution

Reliable hold in any position, ideal for one-handed operation

##### Emergency stop switch

High user safety with the immediate halt of the feed and reduction of the expander head load

##### Battery operation

Portable operation with battery and AC adaptor (accessories)

##### High savings potential

- Efficient, fitting-free installation of pipes in sanitary, heating, gas, refrigeration and air-conditioning systems
- Eliminates the cost of purchase and storage of fittings
- 50% reduction of soldering materials and energy

##### All-round application

- Expander head receiver is compatible with ROTHENBERGER expander heads
- Choice between the expander head standard, Type S or PE-X

\* in comparison to ROTHENBERGER NiMh battery



# Bonding

## Expanding Electric

### ROMAX® EXPANDER Compact Basic Sets

5-part Basic Set I includes: ROMAX® EXPANDER Compact, 1 Li-ion battery 14.4 V / 2.6 Ah (No. 15418), quick-charger (No. 15017), in plastic carrying case (without expander heads)



All ROMAX® EXPANDER Compact with a Li-ion battery!

DUAL-POWER 14.4 or 230 Volt!

5 m cable length!

Large working radius



Fig. Power supply unit 230 V (accessory) with 5 m long cable (No. 15037)

Fig. Similar, ROMAX® EXPANDER Set Basic

Universal adaptor for  
ROTHENBERGER Expander Heads



Compatible with  
ROTHENBERGER Expander Heads



Workbench function  
with the stable surface support



Emergency stop switch



Description	Description	☐	⚖️ kg	No.
ROMAX® Expander Compact Basic Set I	expander heads standard	1	1.11	<b>15714</b>
ROMAX® Expander Compact Basic Set II	expander heads type S	1	1.11	<b>15715</b>
ROMAX® Expander Compact Basic Set III	expander heads type PE-X	1	1.11	<b>15716</b>

Expander heads / PE-X expander heads see 89

### ACCESSORIES



Description	No.	Description		No.
ROMAX® EXPANDER Compact replacement battery	<b>15418</b>	Internal / External deburrer	<b>27</b>	
ROMAX® EXPANDER Compact charger 230 V	<b>15017</b>	Brazing (SUPER FIRE 3 mit MAPP®-GAS)	<b>138 - 139</b>	
ROMAX® EXPANDER Compact power supply	<b>15037</b>	Brazing solder	<b>169 - 171</b>	
Pipecutter	<b>15016</b>	Plastic case with formed inlay		<b>015016L</b>

### Hydraulic Expander System H 600

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

Made in Germany!



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

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

4



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

Model	kg	No.
Hydraulic System complete, without heads	36.0	<b>13100</b>
Hydraulic Tool H 600	33.1	<b>13002</b>
Foot pedal H 600 with 3 m cable	0.5	<b>12013</b>

# Bonding

## Expanding Hydraulic

### Electro-Hydraulic Expander Pistol H1

#### Product Profile

##### APPLICATION AREA

**Expander heads Standard:** Ø 8 - 42 mm, 5/16 - 1.3/4"  
up to 1.6 mm wall thickness

**Expander heads Type S  
(with adaptor No. 11007)** Ø 22 - 67 mm, 1 - 2.1/2"  
up to 2.5 mm wall thickness

Expander Pistol H  
(No. 12001)



Adaptor (No. 11007)

Scope of delivery: 2.5 m control cable (No. F88928), hydraulic hose (No. 12023), Adjusting tool (No. 12017), hydraulic oil 1 l (No. 58185)

4



Model	kg	No.
Electro-Hydraulic Expander Pistol H 1	2.9	<b>12001</b>
S-Head adaptor for H 1	0.6	<b>11007</b>
Adjusting tool for H 1	0.9	<b>12017</b>

### Electro-Hydraulic Expander Pistol H2

For use with Electro-Hydraulic Unit H 600

#### Product Profile

##### APPLICATION AREA

**Expander heads Type S:  
with adaptor (No. 12097)** Ø 22 - 67 mm, 1 - 2.1/2"  
up to 2.5 mm wall thickness

**Expander heads H 2:  
Type 2** Ø 28 - 70 mm, 1.1/8 - 2.3/4"  
up to 2.5 mm wall thickness

**Expander heads H 2:  
Type 3** Ø 70 - 110 mm, 2.3/4 - 4.1/4"  
up to 3.0 mm wall thickness



Expander Pistol H 2  
(No. 12003) Fig. Similar

Adaptor  
(No. 12097)



Adjusting tool  
(No. 12018)

Scope of delivery: Electro-Hydraulic Expander Pistol, 2.5 m control cable, hydraulic hose with quick coupling for H 600 and adjusting tool (without expander heads)

Model	kg	No.
Electro-Hydraulic Expander Pistol H 2	7.5	<b>12002</b>
Expander heads H2/Type 2, 28 - 70 mm	2.5	<b>12078</b>
Expander heads H2/Type 3, 70 - 110 mm	3.0	<b>12080</b>
S-head adaptor for H 2	1.1	<b>12097</b>
Adjusting tool for H2	0.9	<b>12018</b>



H 2 / Type 2

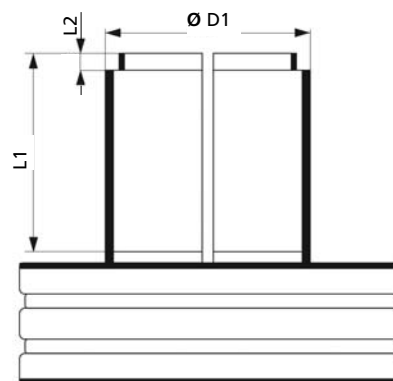
H 2 / Type 3

### Custom-Made Products\* Riveted Expander Heads H2

Only one head necessary for every pipe diameter.

**When ordering, please fill out form and state the applicable dimensions L1 / L2 / D1**

**\* Availability, delivery time and price available on request!**



Examples of a custom order



### Expander-Adaptor Type S

To increase the application area of the ROCAM® EXPANDER Power Torque, Expander Pistol H1/H2, EXPANDER A0/A1 and ROMAX EXPANDER Compact

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



No. 11007 Expander adaptor for ROCAM® EXPANDER Power Torque or Expander Pistol H1



No. 12097 Expander adaptor for Expander Pistol H2

Model	max.	max. mm	kg	No.
Adaptor Type S, without expander heads	67 mm and/or 2.1/2"	2,0	0.6	<b>11007</b>
Adaptor Type S, without expander heads	67 mm and/or 2.1/2"	2,5	1.1	<b>12097</b>



	Expander Head ROLOCK	Expander Head Standard	Expander Head Type S	Riveted Expander Head	Expander Head PE-X	Expander Head H2, Type 2 & 3	Stepped Expander Head
<b>ROLOCK EXPANDER Power Torque</b> 	●	●		●	○	○	○
<b>ROCAM® EXPANDER Power Torque</b> 	○	●		●	● No. 12005	○	○
<b>EXPANDER A0</b> 	○	○	●	○	○	○	○
<b>EXPANDER A1</b> 	○	○	○	○	○	○	●
<b>ROMAX® EXPANDER Compact</b> 	○	● No. 15714	 No. 15714 ● No. 15715	● No. 15714	● No. 15716	○	○
<b>ROMAX® EXPANDER AC ECO MAXI</b> 	○	○	○	○	○	○	●
<b>Expander Pistol H1</b> 	○	●		●	○	○	○
<b>Expander Pistol H2</b>  Similar to photo	○	○		○	○	●	○

● Expander head without adaptor can be used

○ Expander head can not be used

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

# Bonding

## Expanding & Extracting Manual

### COMBI KIT Expander / Tee-Extractor

Practical, compact and cost-saving set combinations with with ROCAM and ROLOCK EXPANDER Power Torque and Tee-Extractors. For all common pipe dimensions  $\varnothing$  12 - 28 mm (1/2 - 1.1/8")

**Made in Germany!**  
The know-how from the pioneer of expanding technology and the leading manufacturer of expanding tools for over 40 years!



#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of copper, aluminium and steel (soft):  $\varnothing$  12 - 28 mm and 1/2 - 1.1/8"

##### KEY FEATURES

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

##### KEY FEATURES

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

4



**EPT®-Technology**  
Concealed bent lever

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



##### Professional Extractions

Up to 67% reduction of soldering materials and soldered joints

##### Long handles

Reduces effort required and increases work space

##### Utilisation of material

Saves resources by converting scrap pipes into fittings

##### UNIDRILL® Automatic 28 / 42

Accurate drilling

No. 21583 /  
No. 21575

##### Scale and cam depth adjustment

##### Extractor Cam Pincer

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

No. 22080



COMBI KIT Set includes: ROCAM® EXPANDER Power Torque (No. 12000), Standard expander heads, tee-extractor, special ratchet (No. 22081), UNIDRILL® Automatic 28 (No. 21583), extractor cam pincer (No. 22080), steel carrying case (No. 24022)

COMBI KIT Set includes: ROLOCK EXPANDER Power Torque (No. 12400), ROLOCK expander heads, tee-extractor, special ratchet (No. 22081), UNIDRILL® Automatic 28 (No. 21583), extractor cam pincer (No. 22080), steel carrying case (No. 24022)

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

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

### Tee-Extractor Sets

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

#### Product Profile

##### APPLICATION AREA

Suitable for pipes made of:

**Copper (soft, semi-, hard):** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

**Aluminium:** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

**Precision steel:** 12 - 42 mm, 3/8 - 2.1/8" max. wall thickness 2.5 mm

#### Made in Germany!

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



##### KEY FEATURES

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

Scale and cam depth adjustment



**Extractor Cam Pincer**

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

No. 22081

##### Optimum capillary gap

Professional extractions

Limits the insertion depth

Optimal positioning

No pipe removal

Extractions even on installed pipes possible

##### UNIDRILL® Automatic 28 / 42

Accurate drilling



No. 21583 / No. 21575

Tee-Extractor sets include: Tee-Extractor according to chart, special ratchet (No. 22081), cam pincer (No. 22080) and special conical drill, UNIDRILL® Automatic 42 (No. 21575), in steel carrying case (No. 24022)



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

# Bonding

## Extracting Manual

### Tee-Extractor

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

#### Product Profile

##### KEY FEATURES

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

4



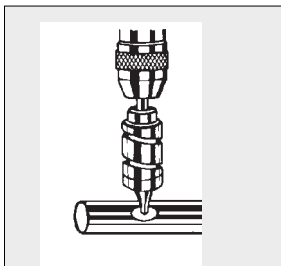
mm / inch	mm	Drill Ø mm	SW mm	g	No.
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
22	2.0	12	11	350	22022
28	2.5	15	11	470	22028
32	2.5	19	11	700	22032
35	2.5	22	11	700	22035
38	2.5	22	11	700	22038
42	2.5	26	11	890	22042
54	2.5	30	19	1380	22054
3/8"	1.0	6	11	110	22060
1/2"	1.0	7	11	140	22061
5/8"	1.0	8	11	220	22016
3/4"	2.0	10	11	220	22062
7/8"	2.0	12	11	350	22063

● Hexagon ■ Square

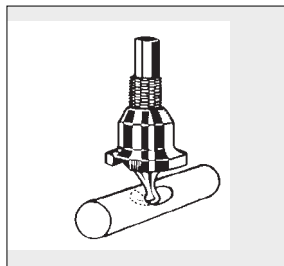
mm	g	No.
10	60	22210
12	70	22212
14	90	22214
15	90	22215
16	140	22216
18	140	22218
22	210	22222
28	220	22228
35	290	22235
38	290	22268
42	320	22242
54	560	22254

inch	g	No.
3/8"	60	22260
1/2"	70	22261
5/8"	140	22216
3/4"	140	22263
7/8"	200	22264
1"	210	22265
1.1/8"	220	22266
1.1/4"	270	22267
1.3/8"	290	22235
1.1/2"	290	22268
1.5/8"	320	22270
2"	520	22246
2.1/8"	560	22254

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



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



#### Double V-block

Accurate and firm positioning for exact 90° branches



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

Burr-free operation

#### Special hook design

Easy insertion into the drilled hole



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

mm / inch	mm	Drill-Ø mm	SW mm	g	No.
1"	2.5	14	11	470	22064
1.1/8"	2.5	15	11	480	22065
1.1/4"	2.5	19	11	700	22066
1.3/8"	2.5	22	11	700	22035
1.1/2"	2.5	22	11	700	22038
1.5/8"	2.5	26	11	900	22068
2"	2.5	30	19	1380	22050
2.1/8"	2.5	30	19	1380	22054

#### Accessories

Socket 19 mm	F80053
Square connection 3/4"	F80054

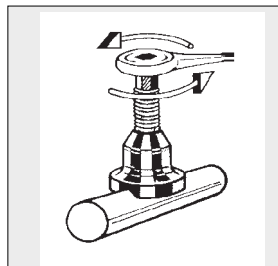
### Spare Extractor Hooks

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

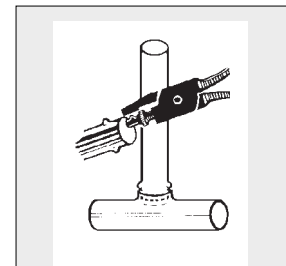


Note: For copper pipes (soft), the use of an extractor support is recommended! ( 93)

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



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



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

### Tee-Extractor Ratchet

Chrome vanadium steel, fine toothed and right/left reversible



No. 22081



No. 27181

Model	SW	g	No.
10 - 42 mm, 3/8 - 1.3/4"	11 mm	435	<b>22081</b>
54 - 70 mm, 2 - 2.1/8"	3/4"	1140	<b>27181</b>

### Extractor Cam Pincer

#### KEY FEATURES

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



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

### EVERCOOL

#### Drill and extraction paste

#### KEY FEATURES

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



Description	Content	g	No.
EVERCOOL	50 g	80	<b>21549</b>

### UNIDRILL® Automatic 28 / 42

#### HSS special conical drill

#### KEY FEATURES

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

#### UNIDRILL® Automatic 28 / 42

Accurate drilling



No. 21583

No. 21575

Model	mm	inch	SW	g	No.
UNIDRILL® 28	10 - 28	3/8 - 1.1/8"	11	110	<b>21583</b>
UNIDRILL® 42	10 - 42	3/8 - 1.5/8"	11	430	<b>21575</b>

### Extractor Support

#### KEY FEATURES

- Prevents deformation during extraction, especially for soft pipe material

#### Extractor support plates

Prevents deformation during extraction



Mainpipe	Branchpipe	g	No.
22 mm	18 mm	250	<b>22157</b>
28 mm	22 mm	300	<b>22158</b>
1/2"	3/8"	120	<b>22170</b>
5/8"	1/2"	170	<b>22153</b>
3/4"	5/8"	250	<b>22172</b>
7/8"	3/4"	250	<b>22157</b>
1.1/8"	1"	300	<b>22158</b>



# Bonding

## Flaring

### Precision Double Flaring Press DB 10

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

#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

- Ideal for endless pipes
- For several flaring profiles, wall thickness 0.7 - 1 mm
- Universal use with the pluggable pressure cone
- Accurate and reproducible results
- Clamping block for several pipe diameters
- Reliable hold with the 25 mm pipe clamping length
- Suitable for clamping in a vice

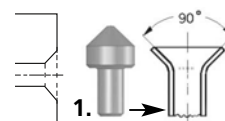
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### Formation of the various flares made possible with the appropriate flaring attachments

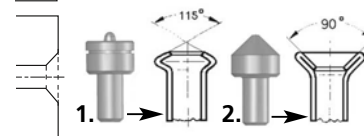
#### E- contour, simple flare:

- Standard flaring contour



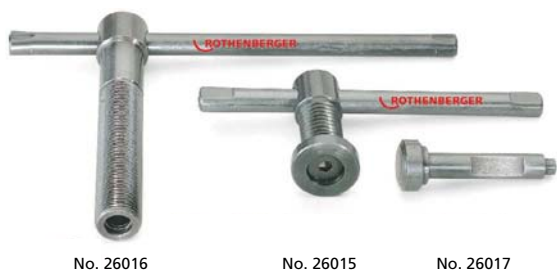
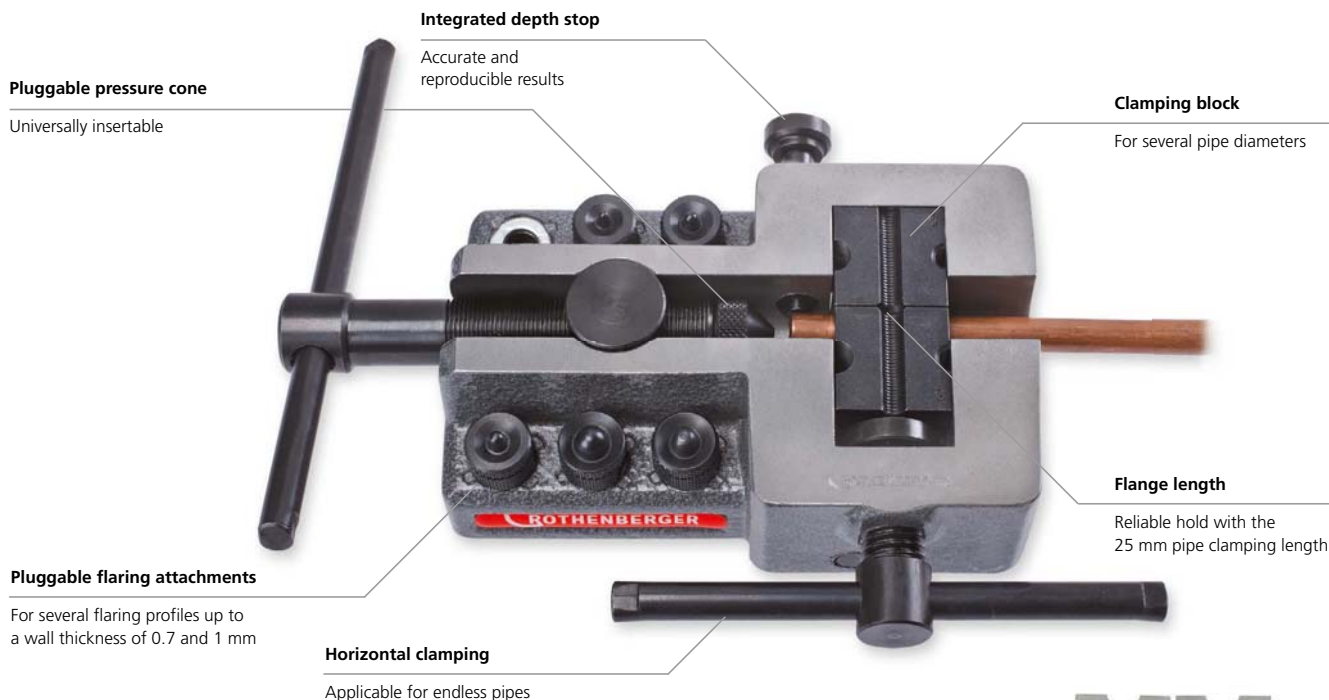
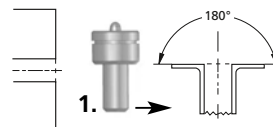
#### D-contour, double flare:

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



#### 180° flares:

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



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

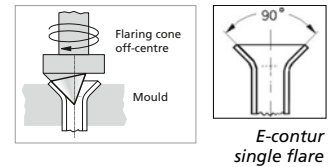
Description	mm	kg	No.
DB 10 set	4.75 - 5 - 6 - 8 - 9 - 10 mm	2.64	<b>26013</b>
Flaring attachments 4.75 / 5 mm		0.20	<b>26001</b>
Flaring attachments 6 mm		0.20	<b>26002</b>
Flaring attachments 8 mm		0.20	<b>26003</b>
Flaring attachments 9 mm		0.20	<b>26004</b>
Flaring attachments 10 mm		0.20	<b>26005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

Description	mm	g	No.
Pressure cone		20	<b>26010</b>
Clamping spindle		90	<b>26015</b>
Flaring spindle		300	<b>26016</b>
Distance bolt		30	<b>26017</b>
Set of clamping blocks (2 pc.) for Pipes 4,75 - 5 - 6 - 8 - 9 - 10 mm		190	<b>26011</b>

### ROFLARE REVOLVER

#### Revolver reeling flaring tool

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



#### Product Profile

##### KEY FEATURES

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



#### Adaptor attachment

For ratchet & electric drive

#### High-quality revolver die

Highest fitting accuracy with long service life

#### Box nuts

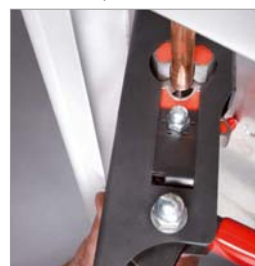
Simple retraction of the feed unit

Set (1000000230) includes: ROFLARE REVOLVER metric incl. ratchet adaptor, 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 incl. ratchet adaptor, 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	No.
Set, metric with ROTRAC 28 PLUS CHROM Limited Edition (in blister pack)	<b>1000000230</b>
Set, imperial with ROTRAC 28 PLUS CHROM Limited Edition (in blister pack)	<b>1000000231</b>
Metric, Ø 6, 8, 10, 12, 16, 18 mm (in blister pack)	<b>1000000222</b>
Imperial, Ø 1/4, 5/16, 3/8, 1/2, 5/8, 3/4" (in blister pack)	<b>1000000223</b>

Compact design enables use in confined spaces



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



# Bonding

## Flaring

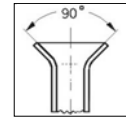
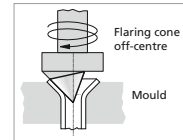
### Reeling Flaring Tool

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

#### Product Profile

#### KEY FEATURES

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



No. 222401, No. 222402,  
No. 222403

#### Square connection

For manual operation, for example cordless screwdriver

#### Spring-loaded slide coupling

No reduction in wall thickness

#### Made from forged steel

Tough and long-lasting

#### Self-centring die

Highest flare precision

#### Adaptor for cordless screwdriver

Die available in metric and imperial sizes

Pipe will not slip



4



#### Flare cone rotates off-centre in needle bearings

Controlled expanding and shaping of the pipe end without tearing

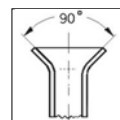
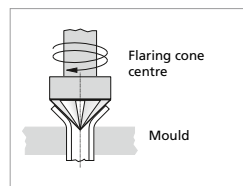
Reeling Flaring Tool set includes: Reeling Flaring Tool in plastic case with mould in metric and/or imperial format

Description	mm / inch	No.
Set EB 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm		<b>222401</b>
1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"		
Set EB 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"		<b>222402</b>
Set EB 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm		<b>222403</b>
Dies		
metric 6 - 8 - 10 - 12 - 14 - 15 - 16 - 18 mm		<b>222413</b>
imperial 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 1/2 - 5/8 - 3/4"		<b>222412</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
- Controlled flaring without tearing, forming perfect surfaces
- Hardened flare cone with special geometry



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

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

### Flaring and Bending Set

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



Flaring and bending set (No. 26020) includes: MINICUT I, Ø 3 - 16 mm (No. 70401), internal and external deburrer, Ø 4 - 36 mm (No. 11006), double flare press DB 10 (No. 26013), TUBE BENDER set, Ø 4,75 - 10 mm (No. 24112), steel carrying case (No. 24022)

Model	mm	kg	No.
Flaring / Bending set	4,75 - 5 - 6 - 8 - 9 - 10	5.5	<b>26020</b>



## ROTORQUE AIRCON / REFRIGERATION

### Step-less torque wrench

#### Produkt-Profil

#### APPLICATION AREA

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

#### KEY FEATURES

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

#### Connection 9 x 12

Head can be exchanged between ROTORQUE AIRCON and ROTORQUE REFRIGERATION

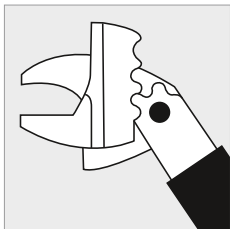
**All-In-One: One head fits all sizes!**



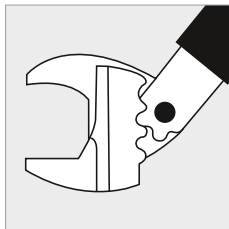
The torque can be read off

Always tighten according to the standard

Closed head



Fully opened head



#### ROTORQUE AIRCON Torque wrench

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

#### ROTORQUE REFRIGERATION Torque wrench

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



Fig. ROTORQUE AIRCON torque wrench



Fig. ROTORQUE REFRIGERATION torque wrench

ROTORQUE sets include: Torque wrench, head, carrying bag

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

## Torque Wrench Set

### For proper tightening of flange connections

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



**Fix with torque urgently necessary!**

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



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

# Bonding

## System Overview Pressing Technology

### ROMAX® Press Machines – Made in Germany

For the bonding of pipes, ROTHENBERGER has developed a high-quality press technology system. Thanks to a platform strategy with high component similarity, the tools win over customers with their technology and safety. ROTHENBERGER pressing tools are developed and manufactured in Germany.

### ROTHENBERGER Pressing Technology Overview

	Compact	Standard
<b>Nominal size</b>	For press connections of Ø 12 - 40 mm (plastic/multi-layered) and/or Ø 12 - 28 mm (metal)	For press connections from Ø 12 - 110 mm (system dependant)
<b>Press machines</b>	<p><b>ROMAX® Compact</b></p>  <p>starting on  100</p>	<p><b>ROMAX® 3000</b></p>  <p>starting on  102</p> <p><b>ROMAX® AC ECO</b></p>  <p>starting on  104</p>
<b>Press jaws</b>	<p><b>Compact Press Jaws</b></p>  <p>Ø 12-28 mm (metal) Ø 12-40 mm (plastic/multi-layered)</p> <p>starting on  105</p>	<p><b>Standard Press Jaws</b></p>  <p>Ø 12-54 mm</p> <p>starting on  106</p>
<b>Interchangeable inserts / Pressing collars</b>	<p><b>Press Jaws with Interchangeable Inserts</b></p>  <p>Ø 12-32 mm</p> <p>starting on  105</p>	<p><b>Press Jaws with Pressing Collars</b></p>  <p>Ø 40-110 mm (system dependant)</p> <p>starting on  106</p>

4



## System Overview Pressing Technology

### ROTHENBERGER Constant Force Technology

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

**ROMAX® Compact**  
19-21 kN for 10,000 press cycles

**ROMAX® AC ECO**  
32-34 kN for 10,000 press cycles

**ROMAX® 3000**  
32-34 kN for 20,000 press cycles



### Safety lock

No accidental release, since a 180° rotation is required

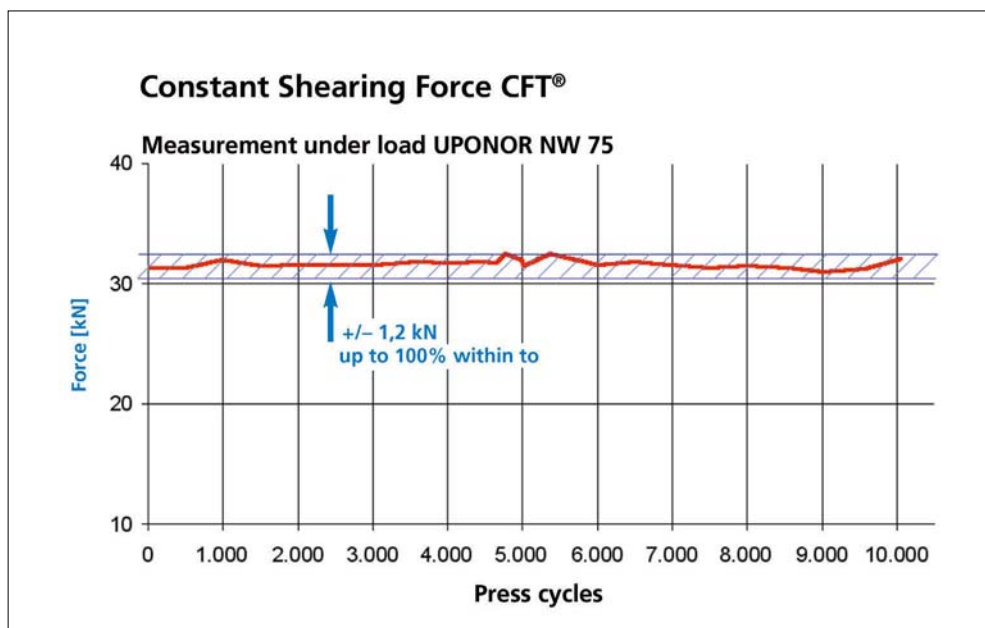


### Safe operation with the emergency stop switch

All ROTHENBERGER press machines are equipped with an easily accessible emergency stop switch. By pushing the switch, the press cycle is immediately interrupted and the piston retracts automatically.



4



### System obligation

The user **is not forced** to purchase different press jaws and/or press machines for each system from the same system manufacturer. No law, no DIN-standard nor the DVGW process sheet requires system dependence. No craftsman is obliged to use only the press tools or press jaws from one (fittings / pipe) system manufacturer



### ROTHENBERGER Li-Ion Technology

The pressing tools ROMAX® Compact and ROMAX® 3000 are equipped with the newest Li-ion technology. Li-ion batteries have many advantages compared to standard battery technology:

- High energy density - up to 100% more pressing per charge compared to the ROTHENBERGER NiMH battery
- Low weight - 30% weight savings
- Cold-resistant - even at near freezing temperatures
- Lowest self-discharge - can be stored up to 12 months
- No memory effect - can be charged at any time
- Constant energy from the first until the last pressing



### Controlled press cycle

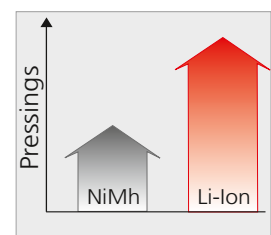
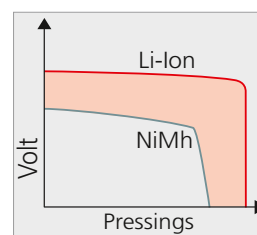
After reaching a predetermined pressing force the press cycle switches off automatically. The piston retracts after the necessary pressing force has been reached. This guarantees uniform and reliable pressings analogue to the requirement of leading system manufacturers.



### Electronic control

The electronics of the ROMAX® Compact and the ROMAX® 3000 provide for a safe pressing cycle:

- Control of the battery charge status
- Safety start-inhibitor when the battery is too low
- LED display of the service interval and any error messages



# Bonding

## Press Machines Compact

### 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

**Made in Germany**

Please observe system characteristics/benefits on pages 98 - 99!

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

- 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®
- Safety lock
- Emergency stop switch

##### TECHNICAL DATA

<b>Dimension:</b>	400 x 70 x 90 mm
<b>Weight:</b>	ca. 2.6 kg (without press jaw)
<b>Piston force / hub:</b>	19 kN / 30 mm
<b>Nominal size:</b>	Ø 12 - 28 mm (metal) Ø 12 - 40 mm (plastic/multi-layer)
<b>Press jaw fixture:</b>	270° rotation
<b>Power supply:</b>	Li-ion battery 14.4 V / 2.6 Ah Main adaptor 230 V / 50 - 60 Hz Main adaptor 110 V on request
<b>Operating temperature:</b>	-10° C up to +60° C
<b>Pressings:</b>	up to 140 with 28 mm stainless steel

##### PRESSING TOOLS

<b>Press jaws:</b>	ROTHENBERGER Compact press jaws starting on page 105
<b>Interchangeable press jaws:</b>	ROTHENBERGER Interchangeable press jaws starting on page 105

4



#### 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 (displays when service interval has been reached, further pressings are possible)

#### Powerful motor

Fast pressings in approx. 6 seconds

#### Wand-like

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

#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Safety lock

No unintentional opening because a 180° rotation is necessary

#### Rubberised handle

Secure hold even in wet conditions

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

Constant pressing force for over 10,000 press cycles

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston

#### Li-ion battery technology

Up to 100% more pressings\*



\* compared to ROTHENBERGER NiMH batteries

### ROMAX® Compact Set Basic I

Set Basic I (No. 15020) includes: ROMAX® Compact press machine, 1x 14.4 V/2.6 Ah Li-ion battery (No. 15418), rapid charger (No. 15017), plastic carrying case (No. 15016), (without press jaws)

**DUO-POWER 14.4 V or 230 V**



All ROMAX® Compact have a Li-ion battery!

**Made in Germany**

5 m cable length

Large operating radius



Fig. Power supply (No. 15037)



Fig. ROMAX® Compact Set SV

4



Workbench function with stable supporting surface



Slim – compact wand-like design



Work above head



Model	Description	Press jaw mm			No.
ROMAX® Compact Set Basic I	in plastic carrying case with Li-ion battery and charger	(without pressing jaw)	1	5.0	<b>15020</b>
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	<b>015020R</b>
ROMAX® Compact Set M	Set Basic I with press jaw Type M (Mapress, u.a.)	15 - 22 - 28	1	7.5	<b>15023</b>
ROMAX® Compact Set SV	Set Basic I with press jaw Type SV (Viega, u.a.)	15 - 22 - 28	1	7.5	<b>15022</b>
ROMAX® Compact Set SV	Set Basic I with press jaw Type SV (Viega, u.a.)	14 - 16 - 22	1	7.5	<b>15033</b>
ROMAX® Compact Set TH	Set Basic I with press jaw Type TH (Henco, u.a.)	16 - 20 - 26	1	8.7	<b>15032</b>
ROMAX® Compact Set U	Set Basic I with press jaw Type U (UNICOR, u.a.)	16 - 20 - 25	1	7.0	<b>15024</b>
ROMAX® Compact Set WE Set RFz	in plastic carrying case with Li-ion battery, spare press jaws and inserts	16 - 20 - 25 - 32	1	8.7	<b>14820</b>
ROMAX® Compact Set WE Set U	in plastic carrying case with Li-ion battery, spare press jaws and inserts	16 - 20 - 25 - 32	1	8.7	<b>14830</b>

### ACCESSORIES

Model	No.
ROMAX® Compact spare battery (14.4 V / 2.6 Ah, Li-Ion)	<b>15418</b>
ROMAX® Compact charger (230 V)	<b>15017</b>
ROMAX® Compact main adaptor (230 V), can be used in lieu of the battery	<b>15037</b>
Plastic carrying case, empty	<b>015016L</b>
<b>Press jaws, interchangeable press jaws starting on  105</b>	



# Bonding

## Press Machines Standard

**Made in Germany**

Please observe system characteristics/  
benefits on pages 98 - 99!

### 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

#### Product Profile

##### APPLICATION RANGE

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

##### KEY FEATURES

- **Fast**  
A pressing cycle only lasts approx. 5 seconds. The piston retracts automatically after every finished pressing
- **Safe**  
CFT® guarantees the necessary pressing force. The automatic controlled press cycles ensure 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

##### KEY FEATURES

- **Reliable & economical**  
Highest quality service interval of 20,000 pressing cycles secures continuous economical use
- **Expanded operational temperature range**  
The ROMAX® 3000 works perfectly; even under adverse environmental conditions. Pressing is possible between -10° C and +60° C
- **Large range**  
The standard Li-ion technology allows up to 160 pressings (with 28 mm stainless steel), and/or 90 pressings (with 54 mm stainless steel) with each charge
- **Practical design**  
The compact, wand-like design allows pressings even in confined spaces

4



LED



#### Wand-like

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

#### Rubberised handle

Secure hold even in wet conditions

#### 2-speed switch

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

#### LED display

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

#### Safety lock

No unintentional opening because 180° rotation is required

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

For easy operation even in confined spaces

#### Light weight and balanced weight distribution

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

#### Powerful motor

Fast pressings in approx. 5 seconds

#### Emergency stop switch

Immediate interruption of the feed and retraction of the piston



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

Constant pressing force over 20,000 press cycles



### TECHNICAL DATA

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

### PRESSING TOOLS

<b>Press jaws:</b>	ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 106
<b>Pressing collars:</b>	ROTHENBERGER pressing collars starting on page 106

#### High energy density

More pressing per charge, light weight <sup>1)</sup>



#### Cold-resistant

Can be used in even the lowest temperatures (-10° C up to +60° C)



#### No memory effect

A partially discharged battery can be fully recharged without any loss of capacity

#### Low self discharge

Very long shelf-life



Fig. ROMAX® 3000 set with press jaws

#### Light



#### Fast



#### Reliable



#### Slim



Basic set (No. 15800) includes: ROMAX® 3000, 18 V / 3.0 Ah Li-ion battery (No. 15810), rapid charger (No. 15811), plastic carrying case (No. 15816) (without press jaws)

Model	Description	Press jaws mm			No.
ROMAX® 3000 Set Basic	in plastic carrying case with Li-ion battery and charger (without press jaws)		1	9.8	<b>15800</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>

### ACCESSORIES

Model	No.
ROMAX® 3000 Li-ion battery 18 V / 3 Ah	<b>15810</b>
ROMAX® 3000 charger for 110-230 Volt	<b>15811</b>
ROMAX® 3000 main adaptor 230 Volt	<b>15812</b>
Plastic carrying case, empty	<b>15816</b>
<b>Press jaws, pressing collars starting on  106</b>	



<sup>1)</sup> Compared to the ROTHENBERGER NiMH battery

# Bonding

## Press Machines 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

**Made in Germany**

Please observe system characteristics/ benefits on pages 98 - 99!

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

\*system dependant

##### TECHNICAL DATA

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

##### PRESSING TOOLS

- Press jaws:** ROTHENBERGER standard press jaws, compatible with many other manufacturers starting on page 106  
**Pressing collars:** ROTHENBERGER Pressing collars starting on page 106

4



#### 270° rotatable jaw fixture

For easy use in confined spaces

#### Safety lock

No unintentional opening because a 270° rotation is necessary

#### Compatible jaw fixture

Suitable for many press jaws

#### Emergency stop switch

Immediate interruption of the feed

#### 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® (Constant Force Technology) for constant axial pressing force of 32 kN

Constant axial pressing force over 10,000 press cycles

#### 5 m cable length

Large operations radius

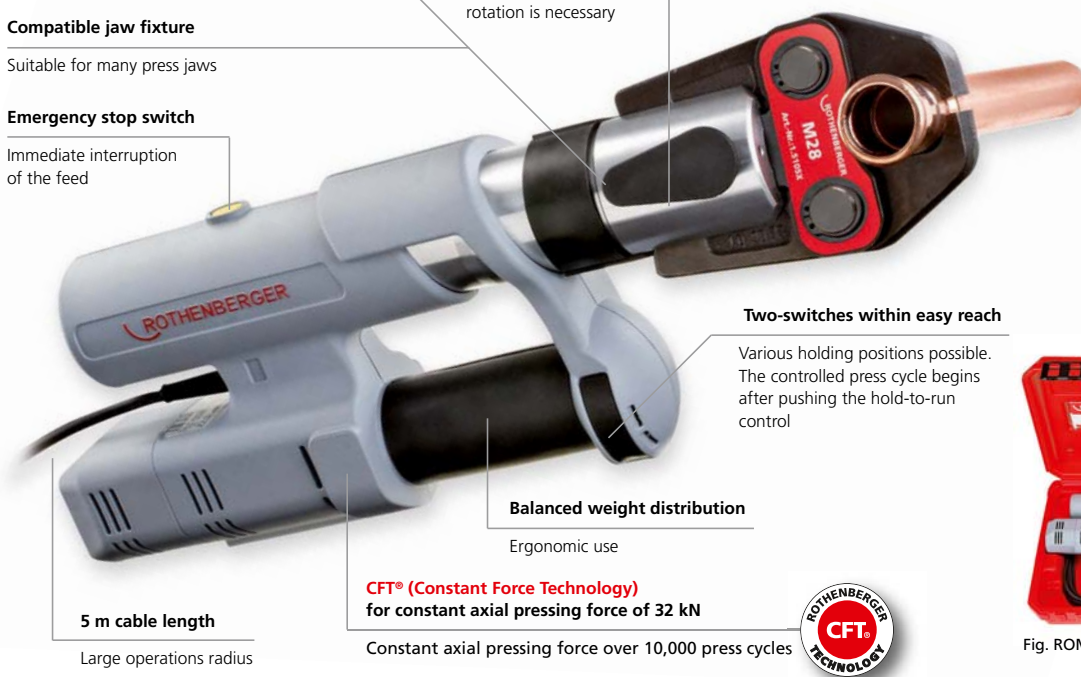


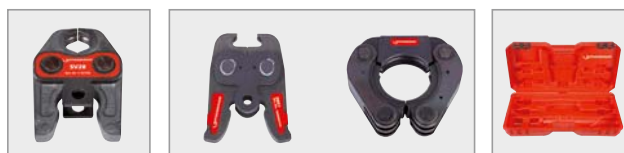
Fig. ROMAX® AC ECO Set with press jaws

Basic Sets (No. 15705) include: ROMAX® AC ECO Basic (230 Volt), plastic carrying case (No. F81664) (without press jaws)

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

#### ACCESSORIES

Model	No.
Plastic carrying case, empty	<b>F81664</b>
Press jaws, pressing collars starting on	106





## Press Jaws & Interchangeable Press Jaws

### 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)

**Made in Germany**

#### Special hardening process

High degree of elastic force and expansion capability

#### 3-bolt synchronised mechanism

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

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

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



#### Precision-manufactured contours

For optimum and reliable pressings

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

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

#### Permanent bolt

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

#### Long-term corrosion protection

Optimum for heavy-duty field operation

#### Optimised inlet contour

- Adapted power flow
- Less wear and tear

Press jaw overview starting on 107

4



### 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

**Made in Germany**

**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



#### 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 fixture

#### 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!

# Bonding

## Press Jaws & Pressing Collars Standard

**Made in Germany**

### 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)

#### Special hardening process

High degree of elastic force and expansion capability

#### 3-bolt synchronised mechanism

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

#### Batch numbering and individual testing

Secures the high quality standard of material and press contour

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



Press jaw overview starting on 107

#### Precision-manufactured contours

For optimum and reliable pressings

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

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

#### Permanent bolt

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

#### Long-term Corrosion protection

Optimum for heavy-duty field operation

#### Optimised inlet contour

- Adapted power flow
- Less wear and tear



### 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

#### 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



Fig. Pressing collar M54



Fig. Intermediate jaw ZBS1

Pressing collar sets include: Pressing collars according to the table, intermediate jaws ZBS1 (No.100000104), plastic carrying case (No. 150000782)

Model	Description	No.
Pressing collar set SV in plastic carrying case	press jaw ZBS1 / SV42 - 54	100000107
Pressing collar set M in plastic carrying case	press jaw ZBS1 / M42 - 54	100000110
Pressing collar set TH in plastic carrying case	press jaw ZBS1 / TH40 - 50	100000116

Pressing collars overview starting on 107

### Press Jaws Standard Sets

**ROTHENBERGER Press Jaws up to Ø 54 mm, in sturdy plastic carrying case**

**Made in Germany**

**Professional set combinations!**

#### Variable and cost efficient

Universal for all ROTHENBERGER Press Jaws (Type Standard)

#### Various combinations possible

For example: 4 press jaws up to Ø 35 mm or 2 press jaws Ø 42 or 54 mm



#### Space for up to 6 Press Jaws

More than enough room for a complete press jaw system

Press Jaw sets include: Press Jaw according to chart, plastic case (No. 150000782)

Model			No.	Model			No.
M 15 - 18 - 22 - 28 mm	1	9.3	<b>015062X</b>	TH 16 - 20 - 26 mm	1	7.9	<b>015063X</b>
M 42 - 54 mm	1	11.8	<b>015081X</b>	VP 16 - 20 - 25 - 32 mm	1	9.4	<b>015072X</b>
SV 15 - 18 - 22 - 28 mm	1	9.3	<b>015060X</b>	Plastic jaw case, empty	1		<b>150000782</b>
SV 42 - 54 mm	1	9.5	<b>015080X</b>				
G 16 - 20 - 26 - 32 mm	1	11.4	<b>015068X</b>				














System	Nominal Size				
		<b>Press Jaws Compact</b>	<b>Interchangeable Insert Compact</b> Use only in combination with interchangeable jaws No. 014800X	<b>Press Jaws Standard</b>	<b>Pressing Collars Standard</b> Only to be used with intermediate jaw: ZB51 No. 100000104 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZB52 No. 100000123 for (U Ø 75, 90, 110 mm)
<b>A</b>	<b>Metal / NE-Metal</b>				
	A1/2"	—	—	<b>015222X</b>	
	A3/4"	—	—	<b>015223X</b>	
	A1"	—	—	<b>015224X</b>	
	A1 1/4"	—	—	<b>015225X</b>	
	A1 1/2"	—	—	<b>015226X</b>	
	A2"	—	—	<b>015227X</b>	
<b>M</b>	M12	<b>015151X</b>	—	<b>015101X</b>	
	M15	<b>015152X</b>	—	<b>015102X</b>	
	M18	<b>015153X</b>	—	<b>015103X</b>	
	M22	<b>015154X</b>	—	<b>015104X</b>	
	M28	<b>015155X</b>	—	<b>015105X</b>	
	M35	—	—	<b>015106X</b>	
	M42	—	—	<b>015107X</b>	<b>100000108</b>
	M54	—	—	<b>015108X</b>	<b>100000109</b>
	<b>V / SV</b>	V/SV12	<b>015261X</b>	—	<b>015211X</b>
	V/SV14	<b>015269X</b>	—	<b>015219X</b>	
	V/SV15	<b>015262X</b>	—	<b>015212X</b>	
	V/SV16	<b>015260X</b>	—	<b>015220X</b>	
	V/SV18	<b>015263X</b>	—	<b>015213X</b>	
	V/SV22	<b>015264X</b>	—	<b>015214X</b>	
	V/SV28	<b>015265X</b>	—	<b>015215X</b>	
	V/SV35	—	—	<b>015216X</b>	
	V/SV42	—	—	<b>015217X</b>	<b>100000105</b>
	V/SV54	—	—	<b>015218X</b>	<b>100000106</b>
	<b>R(H)</b>	<b>PEX / Multilayer</b>			
	R12	—	<b>14863</b>	<b>015339X</b>	
	R14	<b>015370X</b>	<b>14864</b>	<b>015330X</b>	
	R16	<b>015371X</b>	<b>14865</b>	<b>015331X</b>	
	R17	<b>015378X</b>	<b>14866</b>	<b>015333X</b>	
	R18	<b>015379X</b>	<b>14867</b>	<b>015334X</b>	
	R20	<b>015374X</b>	<b>14868</b>	<b>015335X</b>	
	R25	<b>015380X</b>	<b>14707</b>	<b>015338X</b>	
	R26	<b>015376X</b>	<b>14708</b>	<b>015336X</b>	
	R32	<b>015377X</b>	<b>14709</b>	<b>015337X</b>	

Further information at [www.rothenberger.com](http://www.rothenberger.com)












# Bonding

## Press Jaws Program Overview

System	Nominal Size	 Press Jaws Compact	 Interchangeable Insert Compact Use only in combination with interchangeable jaws No. 014800X	 Press Jaws Standard	 Pressing Collars Standard Only to be used with intermediate jaw: ZB51 No. 100000104 for (SV, M, TH, U Ø 40, 42, 50, 63 mm), ZB52 No. 100000123 for (U Ø 75, 90, 110 mm)
<b>RFz</b>		<b>PEX / Multi-layer</b>			
	RFz12	—	14822	1000000173	
	RFz16	015180X	14823	015161X	
	RFz18		1000000124		
	RFz20	015181X	14824	015162X	
	RFz25	015182X	14825	015163X	
	RFz26		1000000125		
	RFz32	015183X	14826	015164X	
<b>TH</b>	TH14	015395X	14842	015321X	
	TH16	015385X	14843	015322X	
	TH18	015398X	14844	015323X	
	TH20	015389X	14845	015324X	
	TH25	015399X	14846	015325X	
	TH26	015391X	14847	015326X	
	TH32	015393X	14848	015327X	
	TH40	015401X	—	015328X	1000000111
	TH50	—	—	—	1000000112
	TH63	—	—	—	1000000113
<b>THG</b>	THG32	1000000236	—	1000000235	
<b>THT</b>	THT32	015393H	—	015329X	
<b>U</b>	U14	015351X	14832	015311X	
	U16	015352X	14833	015312X	
	U18	015353X	14834	015313X	
	U20	015354X	14835	015314X	
	U25	015355X	14836	015315X	
	U32	015357X	14838	015317X	
	U40	015358X	—	015318X	1000000117
	U50	—	—	—	1000000118
	U63	—	—	—	1000000119
	U75	—	—	—	1000000120
	U90	—	—	—	1000000121
	U110	—	—	—	1000000122
<b>RC</b>	RC26	015277X	14837	015271X	
<b>VP</b>	VP14	015530X	14882	015230X	
	VP16	015531X	14883	015231X	
	VP20	015532X	14884	015232X	
	VP25	015533X	14885	015233X	
	VP32	015534X	14886	015234X	
	<b>B</b>	B3/8"	—	—	015251X
	B1/2"	—	—	015252X	
	B5/8"	—	—	015253X	
	B3/4"	—	—	015254X	
	B1"	—	—	015255X	
	B1 1/4"	—	—	015256X	
	<b>BE</b>	BE16	015291X	—	015392X
	BE20	015292X	—	015394X	
	BE26	015293X	—	015396X	
	BE32	015294X	—	015397X	
	<b>CO</b>	CO12	—	14852	015235X <sup>1)</sup>
	CO16	—	14853	015236X <sup>1)</sup>	
	CO20	—	14854	015237X <sup>1)</sup>	
	CO25	—	14855	015238X <sup>1)</sup>	
	<b>G</b>	G16	015362X	—	015302X
	G20	015364X	—	015304X	
	G26	015366X	—	015306X	
	G32	015367X	—	015307X	
	G40	015368X	—	015308X	
	<b>HA</b>	HA16	015580X	—	015280X
	HA20	015581X	—	015281X	
	HA26	015582X	—	015282X	
	HA32	015583X	—	015283X	
	HA40	—	—	015284X	

Further information at [www.rothenberger.com](http://www.rothenberger.com), <sup>1)</sup> Only available upon request

## Press Jaws Program Overview

	Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	ANBO C-Press	APE Raccordi a pressare	BAMPI BALPED, BALPEX	Blansol Barbic easy press	Blansol Barbi multipress	Broen BALLOFIX PRES	BUCCHI tech MP	CO.E.S. Coesklima	COMAP Sudo-Press Multiskin	COMAP Sudo-Press Cu	Comisa Multi layer pipe	DALPEX LaserMulti Dalpex	EMPUR PEXPRESS	eurotherm, MULTISTRATO, Euro 2000	F.B.Q. BARONIO, BQ pres	Fimiso, HAKAPRES, HAKA, GERODUR	Fränkische, alpeX F50	Frabo Pressfitting	Gabo, Gabopress H+5	GAROS
	<b>M</b>	M12	015151X	015101X																				
	M15	015152X	015102X		•					•														
	M18	015153X	015103X		•					•														
	M22	015154X	015104X		•					•														
	M28	015155X	015105X		•					•														
	M35		015106X		•																			
	M42		015107X		•																			
M54		015108X		•																				
	<b>V / SV</b>	V12	015261X	015211X										•								•		
	SV14	015269X	015219X											•					•			•		
	SV15	015262X	015212X							•				•					•			•		
	SV16	015260X	015220X											•					•			•		
	SV18	015263X	015213X							•				•					•			•		
	SV22	015264X	015214X							•				•					•			•		
	SV28	015265X	015215X											•					•			•		
	SV35		015216X											•					•			•		
	SV42		015217X											•					•			•		
SV54		015218X											•					•			•			
	<b>G</b>	G16	015362X	015302X																				
	G20	015364X	015304X																					
	G26	015366X	015306X																					
	G32	015367X	015307X																					
	G40	015368X	015308X																					
	<b>HA</b>	HA16	015580X	015280X																				
	HA20	015581X	015281X																					
	HA26	015582X	015282X																					
	HA32	015583X	015283X																					
	HA40		015284X																					
	<b>R (H)</b>	R12		015339X	14863																			
	R14	015370X	015330X	14864																•				
	R16	015371X	015331X	14865					•											•	•			
	R17	015378X	015333X	14866																•	•			
	R18	015379X	015334X	14867																•	•			
	R20	015374X	015335X	14868					•											•	•			
	R25	015380X	015338X	14707					•											•	•			
	R26	015376X	015336X	14708																•	•			
	R32	015377X	015337X	14709					•											•	•			
	<b>RFz</b>	RFz12		1000000173	14822				•															
	RFz16	015180X	015161X	14823					•															
	RFz20	015181X	015162X	14824					•															
	RFz25	015182X	015163X	14825					•															
	RFz32	015183X	015164X	14826					•															
	<b>TH</b>	TH14	015395X	015321X	14842		•	•					•		•	•	•					•	•	
	TH16	015385X	015322X	14843		•	•			•		•	•	•	•	•	•	•				•	•	
	TH18	015398X	015323X	14844		•	•			•		•	•	•	•	•	•	•				•	•	
	TH20	015389X	015324X	14845		•	•			•		•	•	•	•	•	•	•	•				•	•
	TH25	015399X	015325X	14846																			•	•
	TH26	015391X	015326X	14847		•	•			•		•	•	•	•	•	•	•	•				•	•
	TH32	015393X	015327X	14848						•		•	•	•	•	•	•	•	•				•	•
	TH40	015401X	015328X										•			•							•	•
<b>THG</b>	THG32	1000000236	1000000235																					
<b>THT</b>	THT32	015393H	015329X									•												
	<b>U</b>	U14	015351X	015311X	14832																			
	U16	015352X	015312X	14833								•												
	U18	015353X	015313X	14834								•												
	U20	015354X	015314X	14835								•												
	U25	015355X	015315X	14836								•												
	U32	015357X	015317X	14838								•												
	U40	015358X	015318X									•									•			
<b>RC</b>	RC26	015277X	015271X	14837																				
	<b>VP</b>	VP14	015530X	015230X	14882																			
	VP16	015531X	015231X	14883																				
	VP20	015532X	015232X	14884																				
	VP25	015533X	015233X	14885																				
	VP32	015534X	015234X	14886																				









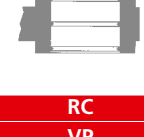
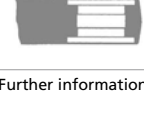
Further information at [www.rothenberger.com](http://www.rothenberger.com)

ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



# Bonding











## Press Jaws Program Overview

		Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	Geberit Mepla	+GF+ PRESS FIT Nitro San	Giacomini, Giacomflex, Giaco Therm	HAGE DOMINOX	Harden 2000, Polypex 2000	Henco PVDf	Herz pipefix	HIDROTEC KLIMATEC	Hifec Sistema, Multistrato	Hs System, Heizung	Hs System, Sanitär	IBP>B<-press, >B<-press Gas	Mi Woeste	IPA, IPANA-PRES	IPALPEX (Industry of Plastic and Access	Jäger, Aquapres	Jaraflex-presssystem	Jupiter, Heizsysteme	KOHLER, InoxPress	
<b>M</b>		M12	015151X	015101X																					
		M15	015152X	015102X																					
		M18	015153X	015103X																					
		M22	015154X	015104X																					
		M28	015155X	015105X																					
		M35		015106X																					
		M42		015107X																					
		M54		015108X																					
<b>V / SV</b>		V12	015261X	015211X																					
		SV14	015269X	015219X																					
		SV15	015262X	015212X																					
		SV16	015260X	015220X																					
		SV18	015263X	015213X																					
		SV22	015264X	015214X																					
		SV28	015265X	015215X																					
		SV35		015216X																					
		SV42		015217X																					
		SV54		015218X																					
<b>G</b>		G16	015362X	015302X																					
		G20	015364X	015304X																					
		G26	015366X	015306X																					
		G32	015367X	015307X																					
		G40	015368X	015308X																					
<b>HA</b>		HA16	015580X	015280X																					
		HA20	015581X	015281X																					
		HA26	015582X	015282X																					
		HA32	015583X	015283X																					
		HA40		015284X																					
<b>R (H)</b>		R12		015339X	14863																				
		R14	015370X	015330X	14864																				
		R16	015371X	015331X	14865																				
		R17	015378X	015333X	14866																				
		R18	015379X	015334X	14867																				
		R20	015374X	015335X	14868																				
		R25	015380X	015338X	14707																				
		R26	015376X	015336X	14708																				
		R32	015377X	015337X	14709																				
<b>RFz</b>		RFz12		1000000173	14822																				
		RFz16	015180X	015161X	14823																				
		RFz20	015181X	015162X	14824																				
		RFz25	015182X	015163X	14825																				
		RFz32	015183X	015164X	14826																				
<b>TH</b>		TH14	015395X	015321X	14842																				
		TH16	015385X	015322X	14843																				
		TH18	015398X	015323X	14844																				
		TH20	015389X	015324X	14845																				
		TH25	015399X	015325X	14846																				
		TH26	015391X	015326X	14847																				
		TH32	015393X	015327X	14848																				
		TH40	015401X	015328X																					
<b>THG</b>	THG32	1000000236	1000000235																						
<b>THT</b>	THT32	015393H	015329X																						
<b>U</b>		U14	015351X	015311X	14832																				
		U16	015352X	015312X	14833																				
		U18	015353X	015313X	14834																				
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		U25	015355X	015315X	14836																				
		U32	015357X	015317X	14838																				
		U40	015358X	015318X																					
<b>RC</b>	RC26	015277X	015271X	14837																					
<b>VP</b>		VP14	015530X	015230X	14882																				
		VP16	015531X	015231X	14883																				
		VP20	015532X	015232X	14884																				
		VP25	015533X	015233X	14885																				
		VP32	015534X	015234X	14886																				

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ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.

## Press Jaws Program Overview

	Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	LAVAGRUND, LAVAPRESS	Mair Heiztechnik, Gomafix	Mpress Edelstahl / Gas	Mark KG, polymark	MEGARO HAKAPRESS	MULTITHERM-PRESSYSTEM	NEUTHERM, MEKUPRESS	Nupi MultiNupi	Nussbaum, Cupress, Cupress G, Optipress	Nussbaum, Optiflex Plus	O.M.T. Heizungssystem	Oventrop, Cofit	Pavitherm, MULTISTABIL	PIPELIFE RADOPRESS	POLYSAN Press-System	Prandelli, MULTYRAMA	PRASKI BAVARIA-press	Raccorderie Metalliche Inoxipress, Steelipress	remo	RIQUIERA A SERTIR
	M12	015151X	015101X																					
	M15	015152X	015102X																					
	M18	015153X	015103X																					
	M22	015154X	015104X																					
	M28	015155X	015105X																					
	M35		015106X																					
	M42		015107X																					
M54		015108X																						
	V12	015261X	015211X																					
	SV14	015269X	015219X																					
	SV15	015262X	015212X																					
	SV16	015260X	015220X																					
	SV18	015263X	015213X																					
	SV22	015264X	015214X																					
	SV28	015265X	015215X																					
	SV35		015216X																					
	SV42		015217X																					
SV54		015218X																						
	G16	015362X	015302X																					
	G20	015364X	015304X																					
	G26	015366X	015306X																					
	G32	015367X	015307X																					
	G40	015368X	015308X																					
	HA16	015580X	015280X																					
	HA20	015581X	015281X																					
	HA26	015582X	015282X																					
	HA32	015583X	015283X																					
	HA40		015284X																					
	R12		015339X	14863																				
	R14	015370X	015330X	14864																				
	R16	015371X	015331X	14865																				
	R17	015378X	015333X	14866																				
	R18	015379X	015334X	14867																				
	R20	015374X	015335X	14868																				
	R25	015380X	015338X	14707																				
	R26	015376X	015336X	14708																				
	R32	015377X	015337X	14709																				
	RFz12		1000000173	14822																				
	RFz16	015180X	015161X	14823																				
	RFz20	015181X	015162X	14824																				
	RFz25	015182X	015163X	14825																				
	RFz32	015183X	015164X	14826																				
	TH14	015395X	015321X	14842																				
	TH16	015385X	015322X	14843																				
	TH18	015398X	015323X	14844																				
	TH20	015389X	015324X	14845																				
	TH25	015399X	015325X	14846																				
	TH26	015391X	015326X	14847																				
	TH32	015393X	015327X	14848																				
	TH40	015401X	015328X																					
THG	THG32	1000000236	1000000235																					
THT	THT32	015393H	015329X																					
	U14	015351X	015311X	14832																				
	U16	015352X	015312X	14833																				
	U18	015353X	015313X	14834																				
	U20	015354X	015314X	14835																				
	U25	015355X	015315X	14836																				
	U32	015357X	015317X	14838																				
	U40	015358X	015318X																					
RC	RC26	015277X	015271X	14837																				
	VP14	015530X	015230X	14882																				
	VP16	015531X	015231X	14883																				
	VP20	015532X	015232X	14884																				
	VP25	015533X	015233X	14885																				
	VP32	015534X	015234X	14886																				











Further information at [www.rothenberger.com](http://www.rothenberger.com)

ROTHENBERGER offers press jaws for a variety of press fitting / pipe systems on the market today. The press contour of each particular system allows reliable pressing to approved standards.



# Bonding

## Press Jaws Program Overview

	Nominal Size	Press Jaws Compact No.	Press Jaws Pressliner and ROMAX® 3000 No.	Interchangeable Press Jaws Compact No. Use only in combination with interchangeable jaws No. 014800X	Roth Sistema Rothapress	Roth-Roth Rohr-Installationssysteme	SANHA Pressfittings, NiroSan Presssystem	Schlösser, Armaturen EUROPRESS SYSTEM	SCHÜTZ EHT Ropress	Seppelfricke Distributione MTSD	Seppelfricke Systemtechnik SST Delphi Press	SIKO TYPRO Tyrotherm	Simplex SiRoCon Cu / E	Simplex SiRoCon PPSU H	Simplex SiRoCon PPSU TH	SST-Rolltec Delphi-Press	STS Systemtechnik	System PREXTO	THERMAGAS Espace Express	THERMOLUTZ Acular, Rapid	THERMOVAL, THERMOSMART	Tiemme, Serie PA / PG	Tiemme, Cobrapress	
	M	M12	015151X	015101X																				
	M15	015152X	015102X																					
	M18	015153X	015103X																					
	M22	015154X	015104X																					
	M28	015155X	015105X																					
	M35		015106X																					
	M42		015107X																					
	M54		015108X																					
	V / SV	V12	015261X	015211X																				
	SV14	015269X	015219X																					
	SV15	015262X	015212X																					
	SV16	015260X	015220X																					
	SV18	015263X	015213X																					
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	SV35		015216X																					
	SV42		015217X																					
	SV54		015218X																					
	G	G16	015362X	015302X																				
	G20	015364X	015304X																					
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	HA32	015583X	015283X																					
	HA40		015284X																					
	R (H)	R12		015339X	14863																			
	R14	015370X	015330X	14864																				
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	TH20	015389X	015324X	14845																				
	TH25	015399X	015325X	14846																				
	TH26	015391X	015326X	14847																				
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	TH40	015401X	015328X																					
THG	THG32	1000000236	1000000235																					
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	U	U14	015351X	015311X	14832																			
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	U18	015353X	015313X	14834																				
	U20	015354X	015314X	14835																				
	U25	015355X	015315X	14836																				
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# Bonding

## Threading Manual

### SUPER CUT

#### Ratchet threader Ø 1/4 - 2"

For production of precise and reliable thread connections according to DIN EN 10226



#### Product Profile

##### APPLICATION AREA

For precision thread cutting of

**BSPT right:** Ø 1/4 - 2"

##### KEY FEATURES

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

**Power optimisation with the offset hand lever!**

#### Quick Change Die Heads

##### Secure hold

Positive octagonal universal drive with retainer locking

##### Fits all ROTHENBERGER Manual and Power Threaders

Simple insertion and removal of the die heads

4



#### Long lever

Optimum force transfer

#### Offset lever

Easy operation in hard-to-reach places

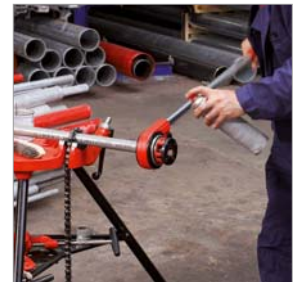
#### Quick adjustment

Convenient, lockable reversal of the ratchet direction

#### Precision Dies

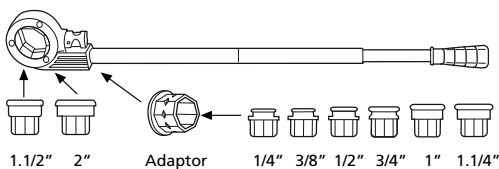
Made of high quality tempered steel  
Extremely long service life

*SUPER CUT when working at the building site*



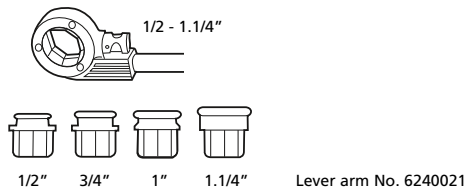
Monoblock - adaptor (No. 71273)

With ratchet handle 1/4" - 2" the attachment of the 1/4" - 1.1/4" die head results with the use of the adaptor (No. 71273)



### SUPER CUT – Sets Ø 3/8 - 1.1/4"

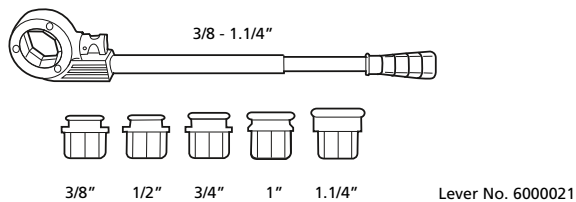
With ratchet handle (small octagonal drive, No. 070840X), die heads in plastic carrying case (No. 70780)



Model	Size	kg	No.
BSPT R	1/2" - 3/4" - 1" - 1.1/4"	5.1	<b>070781X</b>

### SUPER CUT – Sets Ø 3/8 - 1.1/4"

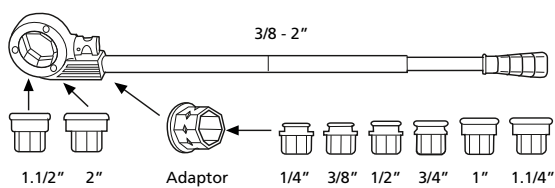
With ratchet handle (small octagonal drive, No. 070840X), and die heads in plastic carrying case



Model	Size	kg	No.
BSPT R	3/8" - 1/2" - 3/4" - 1" - 1.1/4"	6.2	<b>070790X</b>
BSPT R	1/2" - 3/4" - 1"	4.2	<b>070780X</b>

### SUPER CUT – Sets Ø 3/8 - 2"

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



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

#### ACCESSORIES

Description	
Die heads 1/4 - 2"	<b>122</b>
Dies 1/4 - 2"	<b>122</b>
Cutting fluid	<b>123</b>
Pipe roughing wrench	<b>133</b>



# Bonding

## Threading Manual

### SANI KIT

Tool set in sturdy plastic carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing



**Professional!**

#### Product Profile

##### APPLICATION AREA

<b>Cutting:</b>	up to Ø 1.1/4"
<b>Thread cutting:</b>	up to Ø 1"
<b>Assembly, screwing, loosening, sealing of thread connections:</b>	up to Ø 1.1/4"

##### KEY FEATURES

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

4



### Steel Pipe Cutter Super 1.1/4"

Wide rollers

Secure guiding of the cutter wheel on the pipe

### Corner Pipe Wrench Super S

Slim, s-shaped jaw

Firm grip



### SUPER CUT Ratchet Threader

With SUPER CUT ratchet handle 1.1/4"

Perfect alignment

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

Precise thread cutting to approved standards

### Water Pump Pliers Type SP

With heavy duty box joint, chrome vanadium steel, drop-forged, tempered

Long service life

Polished head and joint

Firm grip even with heavy-duty use

### SANI KIT

#### Tool carrying case

Ideal for repair and installation jobs requiring complete steel pipe processing



**The ideal installation set!**

SANI KIT when working at the building site with RONOL®



**10-part set** (No. 70600) includes: SUPER CUT ratchet threader 1.1/4" (No. 070840X), quick-change die heads BSPT R 1/2" (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



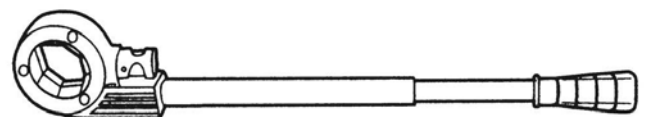
Description	kg	No.
SANI KIT Tool set	8.2	<b>70600</b>

### 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>



#### ACCESSORIES

Description	No.
Die heads 1/4 - 2"	<b>122</b>
Dies 1/4 - 2"	<b>122</b>
Cutting fluid	<b>123</b>
Pipe roughing wrench	<b>133</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



#### Product Profile

##### APPLICATION AREA

For threading of

**BSPT right:** Ø 1/2 - 1.1/4"

**Optional:** (not included in set) Ø 1/4", 3/8"

**NPT:** Ø 1/4 - 1.1/4"

##### KEY FEATURES

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

##### KEY FEATURES

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

##### TECHNICAL DATA

<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>Weight:</b>	4.9 kg
<b>Dimensions:</b>	456 x 168 x 76 mm



Compact design, only 4.9 kg, ideal for portable operation



Small head shape (11 cm)



Pipe roughing



### SUPERTRONIC® 1250 Set

Sets include: SUPERTRONIC® 1250 up to Ø 1.1/4" with forged pipe clamp (No. 71279), precision die heads complete in plastic carrying case (No. 995858100)

**Small – Fast – Light (1/4 - 1. 1/4")!**



Pipe clamp

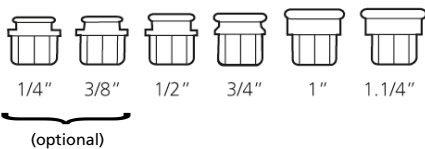
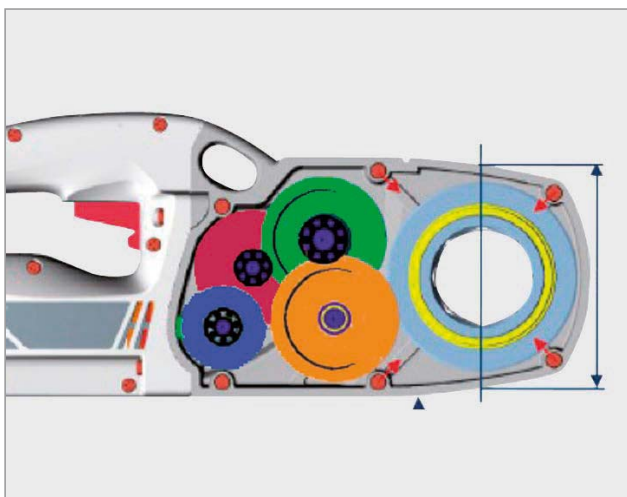


Fig. SUPERTRONIC® 1250 Set (No. 71450)



Model	Description	kg	⊞	230 V	110 V
SUPERTRONIC® 1250 Set	BSPT 1/2" - 3/4" - 1" - 1.1/4"	14.5	1	<b>71450</b>	<b>71451</b>
SUPERTRONIC® 1250 Set	1/2 - 1.1/4" NPT	13.0	1	<b>71454</b>	<b>71453</b>
SUPERTRONIC® 1250	with forged pipe clamp, without die heads	3.9	1	<b>71470</b>	
Pipe clamp for SUPERTRONIC® 1250	up to max. 1.1/4"	1.6	1	<b>71279</b>	<b>71279</b>

Helical gears for maximum power (800 watt)



Steel pipe processing portable, fast and easy



### ACCESSORIES

Description	ⓘ
Die heads 1/4 - 2"	<b>122</b>
Dies 1/4 - 2"	<b>122</b>
Cutting fluid	<b>123</b>
Pipe roughing wrench	<b>133</b>



# Bonding

## Threading Electric

### SUPERTRONIC® 2000

#### Power threader Ø 1/4 – 2"

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



#### Product Profile

##### APPLICATION AREA

For threading of

**BSPT right, BSPT left:** Ø 1/4 - 2"

**NPT:** Ø 1/4 - 2"

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

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

##### Performance:

Strong 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>

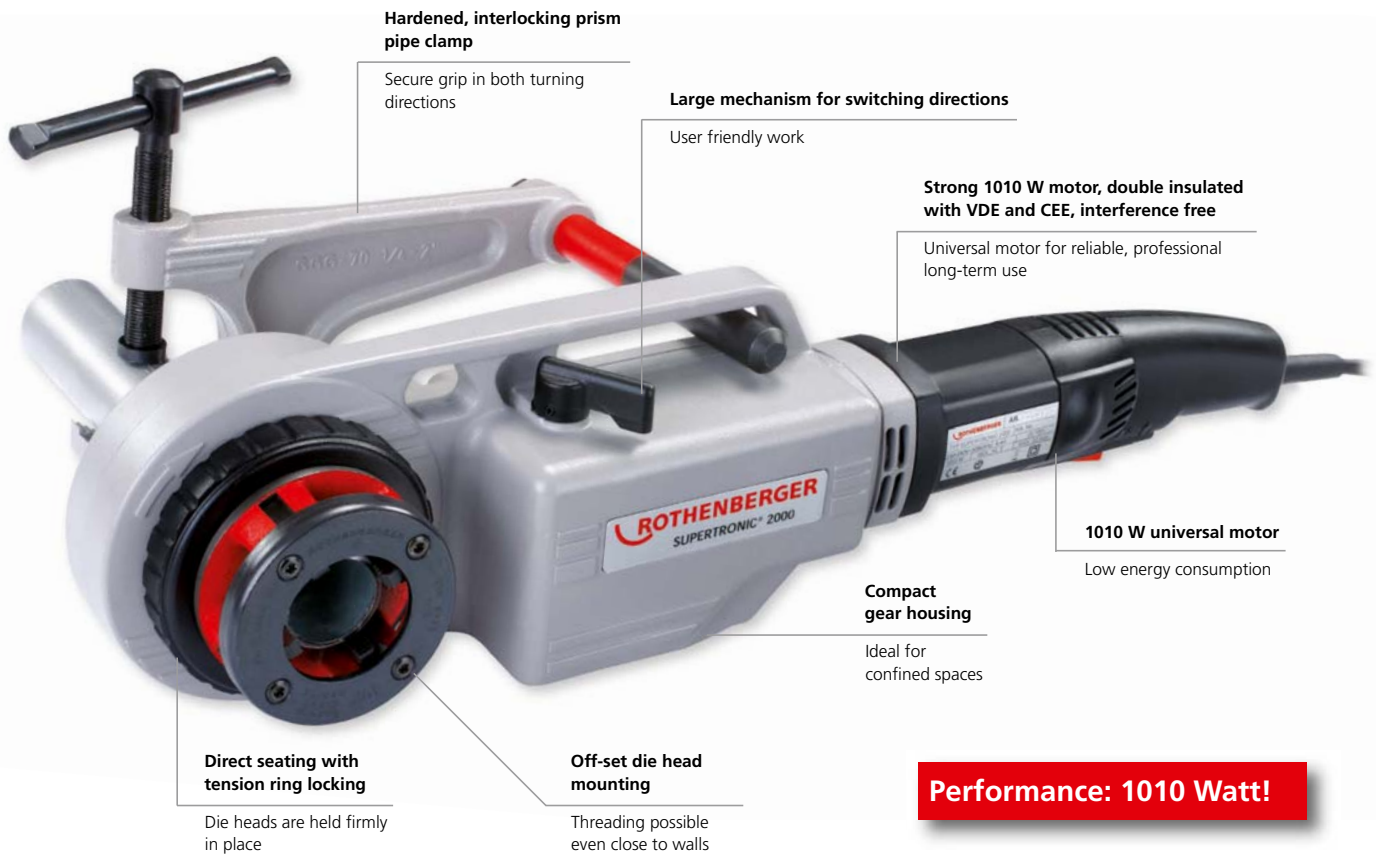
(4 x faster reverse with reverse drive)

**Maintenance friendly** with continuous lubrication

##### KEY FEATURES

- Secure grip in both turning directions with the hardened, interlocking prism pipe clamp
- Die heads are held firmly in place through direct seating with tension ring locking
- Off-set die head mounting allows for threading even close to walls
- Ideal for confined spaces (corners, shafts)
- User friendly work with the large mechanism for switching directions
- Reliable motor for long-term use

4



Easy insertion of the die heads



Use with roll grooving tool ROGROOVER



ROFIX adaptor (No. 71271)



High reduction gears





### SUPERTRONIC® 2000 Set

Sets include: SUPERTRONIC® 2000 with pipe clamp (No. 71280), ROFIX-Adaptor (No. 71271), and precision die heads, complete in plastic carrying case (No. 071274X)

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



Pipe clamp

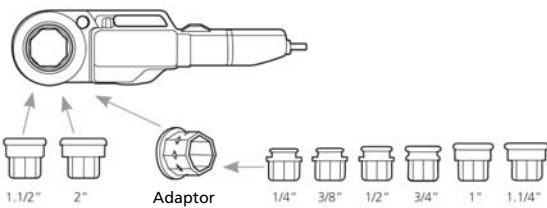


Fig. Similar, SUPERTRONIC® 2000 Set



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	<b>71256</b>	<b>71258</b>
SUPERTRONIC® 2000 Set, NPT	1/2" - 3/4" - 1" - 1.1/4" - 1.1/2" - 2"	14.5	1	<b>71257</b>	<b>71259</b>
SUPERTRONIC® 2000	with forged pipe clamp, without die heads	6.8	1	<b>71250</b>	<b>71251</b>

#### Work in confined spaces



#### Die heads with the tripod universal workbench



### ACCESSORIES

Description	
Die heads 1/4 - 2"	<b>122</b>
Dies 1/4 - 2"	<b>122</b>
Cutting fluid	<b>123</b>
Pipe roughing wrench	<b>133</b>



# Bonding

## Threading Electric



### Precision Die Heads

#### With enlarged shaving discharge chambers

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

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

### Threading Dies

#### Precision Threading Dies

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



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



Tension ring locking



Description	kg	No.
ROFIX Adaptor with locking ring	0.8	<b>71271</b>

### RONOL®

#### High-performance cutting oil

##### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

##### Mineral oil basis

**For threading** of all materials including stainless steel

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

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

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



### RONOL® SYN

#### High-performance cutting fluid

##### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

**No mineral oils**, purely synthetic:

Developed and approved for drinking water and plumbing installations. DVGW tested. SVGW tested (Reg. No. 9908-4126)

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

**Emulsifying agent** enables easy rinsing of the pipeline

**No build-up of shavings:** Perfect cooling quality

**Good corrosion protection:** No rusting

**Undiluted application**

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

Model	Contents	kg	☒	No.
RONOL® SYN Spray can	600 ml	0.75	12	65013
RONOL® SYN Canister	5 l	5.20	4	65015



# Bonding

## Threading Electric

### ROPOWER® 50 R

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

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



#### Product Profile

##### APPLICATION AREA

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

##### For threading of:

<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

##### KEY FEATURES

- 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)

##### TECHNICAL DATA

<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

Safe operation

##### Stable high torque motor

Constant power transferral

##### Off-set spindle lubrication

Easy maintenance

##### Machine slightly angled

Reduced oil consumption, oil coating in pipe interior is avoided

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



##### Geared oil pump with filter system and adjustable fluid qualities

Constant oil flow quantities

##### Amplly dimensioned large plastic shavings collection trough

Easy to clean

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

### ROPOWER® 50 R

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

#### Transportation Frame

(Included in delivery)

Carriage with storage space and a mount for the foot switch

Clearly arranged work

Collapsible undercarriage

Comfortable transport

With 2 plastic wheels

High mobility

Safety foot switch (No. 56335)

Increased safety

#### Die Head Type R

Automatic die head with integrated oil feed

Long life of the die heads

Optimal lubrication and cooling of the die heads

Long life



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



Automatic die head with integrated oil supply



High mobility



Thread roughing



Cost-effective production of grooves



Model

Volt No.

ROPOWER® 50 R with automatic die head:

BSPT R 1/2 - 3/4", 1-2"

230 V 1 88.5 **56050**

BSPT R 1/2 - 3/4", 1-2"

110 V 1 88.5 **56045**

BSPP R 1/2 - 3/4", 1-2"

230 V 1 88.5 **56057**

Collapsible Stand ROPOWER® 50 R

1 19.2 **56051**

Spare cutting wheel (PANDA 40, PANDA 90, PISET 3 SG, Nr. 6 SC 2 S, 2 SE, 3 S, 3 SE, 4 S, 4 SE)

1 0.02 **70074**

Supporting bolt for transport frame (contents 4 pieces)

0.7 **56049**

Supporting legs (contents 4 pieces)

5.0 **56488**

#### ACCESSORIES

Description No.

Cutting fluid **123**

Automatic die heads **128**

Dies **128**

NIPPLE MAX **133**

Pipe roughing wrench **133** **56500**

ROGROOVER 1-6" **134** **56505**



# Bonding

## Threading Electric

### SUPERTRONIC® 2 SE / 3 SE / 4 SE

Compact threader Ø 1/4 - 4"

Reliable and proven for constant professional use

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



#### Product Profile

##### APPLICATION AREA

- Ideal for portable and stationary threading in the workshop, on-site, for repairs and service, trade and industry, pipeline construction, as well as for sanitary and heating installations
- Universal application, with or without stand, i.e. on a workbench

##### For threading of:

<b>BSPT right:</b>	Ø 1/4 - 4"
<b>NPT:</b>	Ø 1/4 - 4"
<b>BSPP:</b>	Ø 1/2 - 4"
<b>BSW:</b>	Ø 3/8 - 2"
<b>Metric:</b>	Ø 10 - 36 mm
	Ø 10 - 24 mm (2 SE)

##### KEY FEATURES

- Universal die head seating (standard or automatic)
- Precise guiding of the die head
- Low-wear and precise guiding
- Fast axial alignment of the pipe
- No pipe slippage with impact hammer chuck
- Burr-free work

4



Smooth action impact hammer chuck with maximal clamping force

No pipe slippage

Self-centering rear chuck

Axial alignment of the pipe

Working spindle with closed bearings on both sides

Low-wear and precise guiding

Dual-sided tool guide sled

Precise guiding of the die head

Tool / guide sled propulsion via turnstile

Finely controlled propulsion

Internal deburrer, snap in, 3-blade

Burr-free work



Modular system concept

Universal die head adaptor, optional in standard or automatic models

Sturdy oil pump with high flow power and adjustable fluid quantities, filter system integrated oil feed

Optimal lubrication and cooling

Large shavings collection trough made of plastic

Easy to clean

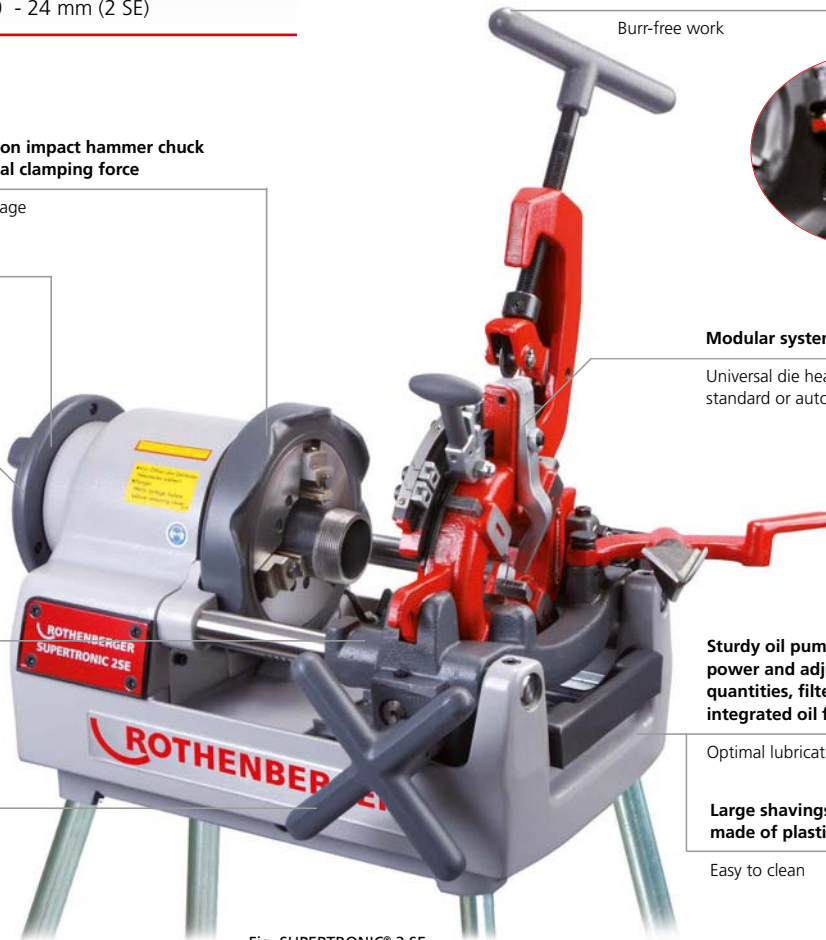


Fig. SUPERTRONIC® 2 SE

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



Automatic die heads with quick adjustment of thread size automatic thread length, finely adjustable thread depth without recentering

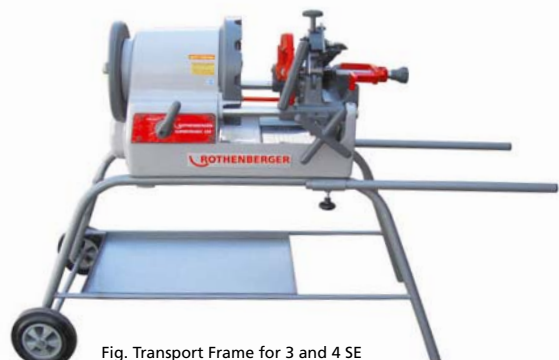


Fig. Transport Frame for 3 and 4 SE (No. 57050)

### SUPERTRONIC® 2 SE

#### Compact threader Ø 1/2 - 2"

Standard Die Head: 1/2 - 2" (No. 56156)  
Automatic Die Head 1/2 - 2" (No. 56266)

#### TECHNICAL DATA

<b>Motor strength:</b>	1,150 Watt
<b>Speed:</b>	40 m <sup>-1</sup>
<b>Weight, with die heads:</b>	68 kg
<b>Dimensions (L x W x H):</b>	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. 56488), 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"			



SUPERTRONIC® 2 SE	230 V	110 V
Deburrer without holder 2 SE	<b>56198</b>	<b>56198</b>
Supporting legs (contains 4 pieces)	<b>56488</b>	<b>56488</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)

#### TECHNICAL DATA

<b>Motor strength:</b>	1,700 Watt
<b>Speed:</b>	33 m <sup>-1</sup>
<b>Weight, with die heads:</b>	100 kg
<b>Dimensions (L x W x H):</b>	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. 56489), 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"			



SUPERTRONIC® 3 SE	kg	230 V	110 V
Deburrer without holder 3 SE		<b>56199</b>	<b>56199</b>

### SUPERTRONIC® 4 SE

#### Compact threader Ø 1/2 - 4"

SUPERTRONIC® 4 SE with Automatic Die Head

#### TECHNICAL DATA

<b>Motor strength:</b>	1,750 Watt
<b>Speed:</b>	22 / 50 m <sup>-1</sup>
<b>Weight, with die heads:</b>	120 kg
<b>Dimensions (L x W x H):</b>	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. 56489), 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"			
Deburrer Blade 4 SE		<b>56200</b>	<b>56200</b>
Transport Frame for 3 and 4 SE	25	<b>57050</b>	



# Bonding

## Threading Electric



### Precision Die Heads

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

#### Product Profile

##### KEY FEATURES

###### Standard die heads

- Time saving with a simple and quick change of the threading dies
- User friendly with the locking positioning which eliminates complicated calibration
- Longer life of the dies with the integrated lubrication
- Guaranteed consistent cutting oil film on the pipe surface

#### Product Profile

##### KEY FEATURES

###### Automatic die heads


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

Please note the die heads do not include threading dies!

### Precision Threading Dies

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



For optimal threading results, use only with original ROTHENBERGER cutting fluid or cutting oil (see  123)!

#### Suitable for:

- **Conical pipe threads - NPT**  
Taper Pipe Thread: ASME B1.20.1  
External conical threads 1:16, 60° flank angle
- **Metric bolt threads - M**  
Metric threads: ISO 261, DIN 13  
Exterior threads, 60° flank angle
- **Conical pipe threads - BSPT**  
Whitworth pipe threads: ISO 7-1, DIN EN 10226 (DIN 2999)  
External conical threads 1:16, 55° flank angle
- **English bolt threads - BSW**  
British Standard Parallel Screw: Thread of Whitworth  
Form B.S.W, B.S 84: Exterior threads, 55° flank angle
- **Cylindrical pipe threads - BSPP**  
Whitworth pipe threads: ISO 228-1, DIN 259  
Exterior threads cylindrical, 55° flank angle



### Overview Die Heads / Threading Dies

Die heads			Threading dies			ROPOWER® 50 R	SUPERTRONIC® 2 SE	SUPERTRONIC® 3 SE	SUPERTRONIC® 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	N/A	●			

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	56003	56235	●	●	●
	2- 3"	56104	1- 2"	56007	56236	●	●	●	●
			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	56111	56180	●	●	●
	2.1/2-3"	56104	1-2"	56112	56181	●	●	●	●
			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) RIDGID® is a registered trade mark of the Emerson Electric Co., St. Louis, USA

N/A: not available

# Bonding

## Threading Electric

### COLLINS CLASSIC 22 / RHINO 4"

#### Stationary threader up to Ø 4"

Heavy-duty threading machine for professional mobile and stationary use



#### Product Profile

##### APPLICATION AREA

For the hardest, long term preparatory and serial production requirements in the workshop and on-site, in trade and industry, for pipeline construction as well as for sanitary and heating installations

For the threading of:

<b>BSPT right:</b>	Ø 1/2 - 4"
<b>NPT:</b>	Ø 1/2 - 4"
<b>BSPP:</b>	Ø 1/2 - 4"
<b>Metric:</b>	Ø 12 - 52 mm

##### KEY FEATURES

###### Standard Die Head

- Only one die head is needed to cut BSPT right / left, BSPP and metric thread types

###### Cost saving

- Easy to use with simple and quick change of dies

##### KEY FEATURES

###### Automatic Die Head

- Simple and clear operation, easy to use
- Versatile work with the adjustable auto thread length and thread depth
- Long service life with the HSS precision dies, with easy first cut
- Long life with the optimal cut geometry and outstanding chip discharge

##### TECHNICAL DATA

**Powerful universal motor**, runs R/L

**Motor is double insulated** in accordance with VDE

**High working speed**

**With 6 brush motor** for higher torque

**Overload protection**, security stop switch, over-run stop

**Operational hour counter**

**Motor control light**

4



#### SUPER GRIP Chucking System

Automatic quick grip chuck: R/L chucking, 4 double chucks at both front and rear of machine ensure that pipe is automatically gripped and centred with maximum gripping power

Centred and absolute no-slip grip

Precision pipe cutter, driven on both sides, with review panel, 5-blade deburrer

Precise cutting and deburring

Chuck jaws easy to exchange

Easy to maintain

#### Cooling / Lubrication

Central lubrication for spindle drive

Easy maintenance

Sturdy, largely dimensioned oil pump with integrated oil feed

Optimal cooling and lubrication

Large, well-positioned shavings collection trough

Easy to empty

Guide sled with rack-drive driven on both sides

Precise guiding



SUPER GRIP detailed view



SUPER GRIP pipe chuck system





### COLLINS CLASSIC 22 A

Threading up to Ø 2"

#### Product Profile

#### TECHNICAL DATA

Performance:	1,800 Watt
Speed:	72 m <sup>-1</sup>
Weight:	133 kg
Dimensions (L x W x H):	960 x 480 x 470 mm

**With Collins SUPER GRIP Chucking System!**

Scope of delivery: COLLINS CLASSIC 22 A Set with UNIQUAD die head 1/8 - 2" (No. 57015), HSS dies 1/2 - 3/4" (No. 57022), 1 - 2" (No. 57025), safety foot switch (No. 56335), tool, (without transport stand No. 57005)

Model	kg	230 V	110 V
with Standard Die Head	133	<b>57070</b>	<b>57071</b>

Model	kg	No.	Model	kg	No.
Deburrer up to 2", conical, with 5 blades	1.20	<b>57011</b>	Replacement cutting wheel for pipe cutter	0.04	<b>57010</b>
Transport stand, full rubber tyres	24.20	<b>57005</b>	Safety foot switch, 230 V	2.36	<b>56335</b>



4



### COLLINS RHINO 4" Set

Threader up to Ø 4"

#### Product Profile

#### TECHNICAL DATA

Performance:	2,800 Watt
Speed:	25 m <sup>-1</sup>
Weight:	216 kg
Dimensions (L x W x H):	1,050 x 610 x 560 mm

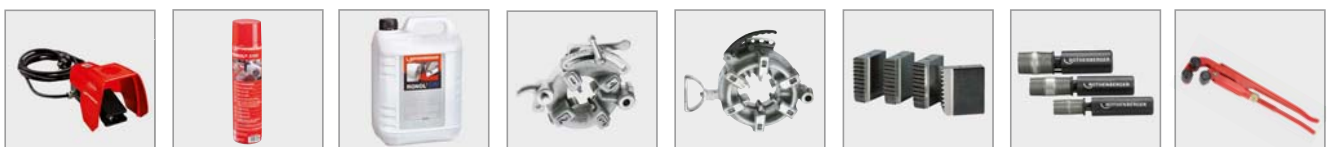
**With Collins SUPER GRIP Chucking System!**

Scope of delivery: COLLINS RHINO 4" Set with UNIQUAD die head 1/8 - 2" (No. 57015), Quadmatic Die Head 2.1/2 - 4" (No. 57016) HSS dies 1/2 - 3/4" (No. 57022), 1 - 2" (No. 57025), 2.1/2 - 4" (No. 57024), Safety foot switch, (No. 56335), tool (without transport stand No. 57105)

Model	kg	230 V
with Standard Head	216.00	<b>57100</b>
Transport stand, full rubber tyres	24.20	<b>57105</b>



#### ACCESSORIES



Description	kg	No.	Description	kg	No.
Safety foot switch, 230 V	2.36	<b>133 56335</b>	Pipe roughing wrench	1.15	<b>56500</b>
Cutting fluid	<b>123</b>		Deburrer up to 2", conical with 5 blades	1.20	<b>57011</b>
High-performance die heads	<b>132</b>		Deburrer up to 4", bladed with 2 blades	0.70	<b>57111</b>
Precision dies	<b>132</b>		Replacement cutting wheel for pipe cutter	0.04	<b>57110</b>
NIPPLE MAX	<b>133</b>		Transport stand, full rubber tyres	24.20	<b>57105</b>

# Bonding

## Threading Electric

### High-Performance Die Heads

For CLASSIC 22 A and RHINO 4"

For pipe threads Ø 1/8 - 4" and for bolt threads Ø M 6 - M 52

#### Product Profile

#### KEY FEATURES

- Simple and quick change of Dies without complication calibration
- Automatic lubrication through the Die head guarantees constant cutting oil film on the pipe surface and a long life for the dies



Model UNIQUAD



Model QUADMATIC



Model AUTOMATIC

Die head thread type	Cutting range	also suitable for dies	AM 300 PR Standard	AM 300 PR Auto	COLLINS CLASSIC Standard	COLLINS RHINO Standard	kg	No.
<b>BSPT UNIQUAD *</b>	1/8 - 2"	BSPP 1/8 - 2" M 6 - M 52 mm	●	○	●	●	5.1	<b>57015</b>
<b>BSPT QUADMATIC *</b>	2.1/2 - 4"	BSPP 2.1/2 - 4"				●	17.9	<b>57016</b>
<b>BSPT Automatic *</b>	1/2 - 2"	BSPP 1/2 - 2"	○	●	○	○	4.8	<b>57017</b>
<b>NPT UNIQUAD *</b>	1/8 - 2"		○	○	○	○	4.9	<b>57018</b>
<b>NPT Automatic *</b>	1/2 - 2"		○	○	○	○	5.1	<b>57019</b>

○ = included    ● = optional    \* = Threading dies not included

### Precision Threading Dies

CLASSIC 22 A / RHINO 4" (only available in 4 pc. / set)

- Technically perfect, high material quality and precise workmanship guarantee easy cutting, clean threads and extremely long service life
- Optimised cutting geometry and outstanding chip discharge

Thread type size	Thread per inch	for die head	g	No.
<b>HSS - Threading Dies, BSPT right with pivot</b>				
1/8"	28	57015	660	<b>57020</b>
1/4 - 3/8"	19	57015	660	<b>57021</b>
1/2 - 3/4"	14	57015 + 57017	630	<b>57022</b>
1 - 2"	11	57017	590	<b>57025</b>
2.1/2 - 4"	11	57016	2,800	<b>57024</b>
<b>HSS - Threading Dies, BSPT left</b>				
1 - 2"	11	57015	590	<b>57082</b>
<b>HSS - Threading Dies, NPT</b>				
1/8"	27	57018	460	<b>57060</b>
1/4 - 3/8"	18	57018	460	<b>57061</b>
1/2 - 3/4"	14	57018 + 57019	460	<b>57062</b>
1 - 2"	11	57018 + 57019	460	<b>57063</b>
<b>HSS - Threading Dies, BSPP</b>				
1/8"	28	57015	460	<b>57030</b>
1/4 - 3/8"	19	57015	460	<b>57031</b>
1/2 - 3/4"	14	57015 + 57017	460	<b>57132</b>
1 - 2"	11	57015 + 57017	460	<b>57133</b>
2.1/2 - 3"	11	57016	2,300	<b>57134</b>
3.1/2 - 4"	11	57016	2,300	<b>57135</b>

Thread type size	Thread pitch	for die head	g	No.
<b>HSS - Threading Dies, metric</b>				
8 mm	1.25	57015	690	<b>57032</b>
10 mm	1.50	57015	670	<b>57033</b>
12 mm	1.75	57015	660	<b>57034</b>
14 mm	2.00	57015	650	<b>57035</b>
16 mm	2.00	57015	650	<b>57036</b>
18 mm	2.50	57015	640	<b>57037</b>
20 mm	2.50	57015	640	<b>57038</b>
22 mm	2.50	57015	590	<b>57039</b>
24 mm	3.00	57015	620	<b>57041</b>
27 mm	3.00	57015	600	<b>57042</b>
30 mm	3.50	57015	580	<b>57043</b>
33 mm	3.50	57015	580	<b>57044</b>
36 mm	4.00	57015	560	<b>57055</b>
39 mm	4.00	57015	560	<b>57045</b>
42 mm	4.50	57015	500	<b>57046</b>
45 mm	4.50	57015	450	<b>57056</b>
48 mm	5.00	57015	450	<b>57057</b>
52 mm	5.00	57015	450	<b>57058</b>

### Pipe Supporting Column

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



Model	Height / mm	kg	No.
For pipes up to 6"	780 - 1,200	5.8	<b>56047</b>

### Replacement Safety Foot Switch

For all ROTHENBERGER threading machines

- Complies with industrial associations' safety and accident prevention requirements
- With oil-proof rubber cable and plug
- Foot switch should not be pushed all the way down (OFF-ON-OFF)



Model	kg	No.
3 step, with emergency stop switch, 230 Volt	2.5	<b>56335</b>

4



### 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>

### 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, PANDA, PISET, ROPOWER and SUPERTRONIC.

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



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

Model	kg	No.
NIPPLE MAX Set 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>

Model	kg	No.
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>

# Bonding

## Roll Grooving

### ROGROOVER 1 - 6"

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

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

#### APPLICATION AREA

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

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

#### KEY FEATURES

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

Model	kg		No.
ROGROOVER for SUPERTRONIC® 2000	14.5	1	<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>

Extremely light: 12 kg!



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

### Hand Roll Groover 1 - 12"

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

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

#### APPLICATION AREA

For standard grooves on installed pipes from 1 - 12"

#### KEY FEATURES

- For pipes from Ø 1"
- Quick connection of pipes anywhere where welding is not allowed!
- Easy transportation due to small dimension
- Adjustable and finely-controlled arrester
- ½" ratchet for both adjustment

#### TECHNICAL DATA

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



Application on tripod workbench



Fixture for stabiliser



Model	kg		No.
Hand Roll Groover 2 - 6"	12.0	1	<b>100000212</b>
Roller-SET 1"	0.59	1	<b>100000720</b>
Roller-SET 1.1/4 - 1.1/2"	0.62	1	<b>100000721</b>
Roller-SET 2 - 6"	1.00	1	<b>100000850</b>
Roller-SET 4 - 6"	2.48	1	<b>100000722</b>
Roller-SET 8 - 12"	2.70	1	<b>100000723</b>

### ROGROOVER 2 - 12"

Electro-hydraulic rolling groover for steel pipes  
 Ø 2 - 12" (60 - 324 mm) for rolling of grooves on  
 thin-walled and standard steel pipes

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

- 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

##### TECHNICAL DATA

<b>Working range:</b>	2 - 12" (60 - 324 mm)
<b>Pipe wall-thickness:</b>	3 - 10 mm
<b>Weight:</b>	129 kg
<b>Dimensions:</b>	920 x 460 x 960 mm
<b>Current:</b>	230 / 240 V, 50 / 60 Hz
<b>Power:</b>	1,100 W
<b>Speed:</b>	23 U/min.
<b>Max. working pressure:</b>	8,000 kg



**Sturdy hydraulic-pump with precisely formed grips**

For ideal handling

**Powerful yet quiet motor**

**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

Fig. Diameter measuring tape

**Stabiliser for large pipe diameters adjustable up to 12"**



**Tool compartment for accessories**



Scope of delivery: ROGROOVER machine 2 - 12", roll groove set 2-6", roll groove set 3-6", roll groove set 8-12", pipe support stand, tools for installation, diameter measuring tape, installation and instructional CD

Model	kg		No.
ROGROOVER 2 - 12"	129.0	1	<b>100000087</b>
Roll Groove set 2 - 6"	1.5	1	<b>887307000</b>
Roll Groove set 3 - 6"	2.2	1	<b>887308000</b>

Model	kg		No.
Roll Groove set 8 - 12"	2.4	1	<b>887309000</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


























4  


CARTRIDGE SOLDERING UNITS									
	<b>SUPER FIRE 3</b>	 138 - 139	  Ø 35 Ø 28	 Ø 22					
	<b>POWER FIRE COMPACT</b>	 140	  Ø 28 Ø 22	 Ø 22					
	<b>ROFIRE Swivel Pro</b>	 140	  Ø 42 Ø 18 Ø 64 Ø 28	  Ø 42 Ø 18 Ø 64 Ø 28					
	<b>ROFLAME PIEZO</b>	 140					 Ø 22		
	<b>ROFIRE® PIEZO / ROFIRE® / EASYFIRE</b>	 141			  Ø 22 Ø 15	  Ø 22 Ø 15			
Soft soldering up to 450°C  Brazing, etc. 450°C - 1100°C  Gas Welding > 1100°C 			Disposable gas cartridges  142 - 143						
ACETYLENE AND PROPANE TORCHES									
	<b>AIRAC®</b>	 148	  Ø 54 Ø 35						
	<b>ROCOLT HANDY PIEZO</b>	 144 - 145				  Ø 70 Ø 32			
	<b>AIRPROP®</b>	 146				  Ø 54 Ø 22			
	<b>TURBOPROP</b>	 147				  Ø 54 Ø 28			
	<b>ROOFING-Set</b>	 151				 Ø 22			
	<b>MULTI 300</b>	 150				 Ø 22			
	<b>MULTI MOBILE</b>	 149				 Ø 22			
			Light steel cylinders  152, 162						

The bottle colours shown are without obligation!




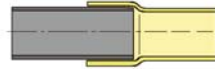
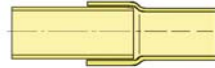



## Application Overview Soldering & Welding

GAS-WELDING EQUIPMENT						
	<b>ROFLASH</b>	 159	 Welding 0.2-14 mm Cutting 3-75 mm			
	<b>RE 17</b>	 160 - 161	 Welding 0.5-14 mm Cutting 3-100 mm			
	<b>ALLGAS</b>	 155 - 158		 Welding 0.2-5 mm		 Welding 0.2-5 mm
	<b>ROXY 400 L</b>	 158			 Welding 0.5-2 mm	
			Light steel cylinders  152, 162	Disposable gas cartridges  140 - 141		
ELECTRIC SOFT SOLDERING UNIT			230 V 50/60 Hz		The bottle colours shown are without obligation!	
	<b>ROTHERM 2000</b>	 153 - 154	 Ø 54	 Soft soldering up to 450°C	 Brazing, etc. 450°C-1100°C	 Gas Welding > 1100°C



### Soldered Joints

Material	Required Hard Solder	Melting Range	Working Temperature	Standard
<b>Copper-Copper</b> 	S 34 Cu / S 34 Cu U S 94 / S 94 XN / S1 S 2 / S 5 S 15	630 °C - 730 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 800 °C	710 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Copper-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN 1044
<b>Copper-Brass</b> 	S 94 / S 94 XN / S1 S 2 S 5 S 15	710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Brass-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	600 °C - 690 °C 595 °C - 630 °C	680 °C 610 °C	DIN EN 1044
<b>Brass-Brass</b> 	S 94 / S 94 XN S 1 (not standardised) S 2 / S 5 S 15	710 °C - 880 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Carbon Steel-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN 1044

# Bonding

## Cartridge Brazing

### SUPER FIRE 3

Ergonomic HEAVY-DUTY brazing unit up to Ø 28 mm

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



#### Product Profile

#### APPLICATION AREA

- Brazing:** up to Ø 28 mm (with flame reflector in a wind protected environment)
- Soft soldering:** up to Ø 35 mm

#### KEY FEATURES

- 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

#### KEY FEATURES

- Even more comfortable for longer jobs
- Reliable Piezo ignition (up to 30,000 ignitions)
- Double the safety because there is no gas leakage without locked nozzle (Piezo ignition)

#### TECHNICAL DATA

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

4



### SUPER FIRE 3 Nozzles

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

### "Twist 'N' Load"!

**Elaborately manufactured brass / stainless steel design**  
Long service life

**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

**High Performance Piezo**  
Reliable (up to 30,000 ignitions)

**Locking button**  
Continual use

**ROTHENBERGER MAPP<sup>®1)</sup> Gas**  
Up to 2.5 hours of brazing with one cartridge

**Can be used in any position (360°)!**

**Nozzle with swirl flame**  
Rapid heat-up, less use!

**Only ignites if torch has been securely locked**  
Dual safety

Soft soldering in heating installation



High flame temperature through cyclone swirl



Brazing in gas installation



Hard soldering in refrigeration and climate control



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

### Pin-point Nozzle (460 °C):



(No. 35455)

For fine soldering; precise and stable flame

### Standard Nozzle (700 °C):



(No. 35456)

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

### Cyclone Nozzle (950 °C):



(No. 35457)

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

### Hot air Nozzle (400 °C):



(No. 35458)

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

### Shrinking Nozzle (720 °C):



(No. 35459)

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

## SUPER FIRE 3 HOT BOX

### KEY FEATURES

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



5 part set (No. 35490) includes: handle (No. 35445), cyclone nozzle (No. 35457), pin-point nozzle (No. 35455), flame reflector (No. 31043), universal torch support (No. 35461), 2 x MAPP<sup>®1</sup> gas cartridges (No. 035551-A), carrying case (No. 30898)

Model			No.
SUPER FIRE 3 HOT BOX	1	4	<b>35490</b>

## SUPER FIRE 3 Basic Set

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

## 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)



No. 035648X

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

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



No. 35436



No. 35432

## ACCESSORIES



Model		Model	
Welding blanket	<b>165</b>	External brush for copper pipe	<b>165</b>
Internal brush for copper pipe	<b>165</b>	ROVLIES <sup>®</sup>	<b>165</b>
Solder	<b>167 - 171</b>	Soft-soldering paste ROSOL	<b>167</b>

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



# Bonding

## Cartridge Brazing / Soft Soldering

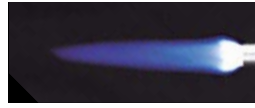
### POWER FIRE Compact

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



#### APPLICATION AREA

**Coupling:** 7/16" EU  
**Brazing:** up to Ø 22 mm  
**Soft soldering:** up to Ø 28 mm



#### KEY FEATURES

##### Characteristics

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



Model	No.
POWER FIRE Compact set (torch, MAPP® <sup>1</sup> ) Gas)	<b>35424</b>
POWER FIRE Compact, EU-handle	<b>30813</b>



No. 35424



**Can be used in any position (360°)!**

### 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



**Can be used in any position (360°)!**

Model	No.
ROFIRE SWIVEL PRO Cyclone Piezo EU	<b>35015</b>
ROFIRE SWIVEL PRO Cyclone Piezo US	<b>35016</b>

### 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



**Can be used in any position (360°)!**

Model	No.
ROFIRE SWIVEL PRO Cyclone EU	<b>35013</b>
ROFIRE SWIVEL PRO Cyclone US	<b>35014</b>

### 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



**Can be used in any position (360°)!**

Model	No.
ROFIRE SWIVEL PRO Twin EU	<b>35011</b>
ROFIRE SWIVEL PRO Twin US	<b>35012</b>

### ROFLAME PIEZO

CLASSIC soft soldering unit Ø 22 mm



#### APPLICATION AREA

**Coupling:** Pluggable cartridge  
**Soft soldering:** up to Ø 22 mm



#### KEY FEATURES

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



Model	No.
ROFLAME PIEZO 1800 °C (w/o gas cartridge C 200)	<b>750 35419</b>

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

Disposable gas cartridges can be found on pages 142 - 143

## Cartridge Soft Soldering

### ROFIRE®

ECONOMY soft soldering unit up to Ø 22 mm

#### APPLICATION AREA

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



#### KEY FEATURES

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

Model	g	No.
ROFIRE® 1800 °C set (torch, Multigas 300)	760	35428
ROFIRE® 1800 °C handle		35506



### 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

#### APPLICATION AREA

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



#### KEY FEATURES

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

Model	g	No.
ROFIRE® PIEZO set (torch, Multigas 300)	760	35429
ROFIRE® PIEZO handle		35556



### EASY FIRE

ECONOMY soft soldering up to Ø 22 mm

High performance torch with Piezo ignition

#### APPLICATION AREA

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



#### KEY FEATURES

- 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		35552



# Bonding

## Cartridge Brazing

### 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



#### Product Profile

##### KEY FEATURES

- Extremely high flame temperature, utmost burning performance and guaranteed short working times
- Guaranteed constant top torch performance

##### KEY FEATURES

- Easy to use
- Increased user safety through the sandwich valves and aluminium mono-block cylinder
- Longer periods of use

Contains no BUTADIEN

Poses no health risks

ROTHENBERGER MAPP®<sup>1)</sup> Gas is produced in ultra-modern filling plants and processor-controlled batching systems

Guaranteed constant top torch performance

Special gas mixture with outstanding flame characteristics

Extreme flame temperatures, utmost torch performance and guaranteed short working times

7/16" Sandwich valve

Increased safety



Less weight compared to conventional steel cylinders (228g empty)

Easy to use

**MAPP®<sup>1)</sup> monoblock aluminium cylinder**

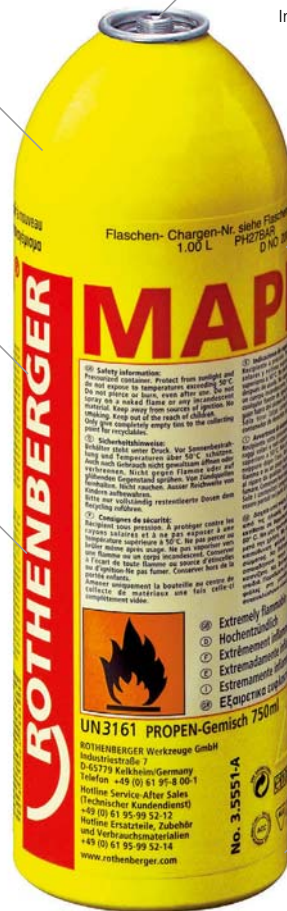
TÜV tested gas cartridge (drawn from solid material)

Increased safety for the user

**MAPP®<sup>1)</sup> Gas**  
Special gas mixture researched by ROTHENBERGER



Fig. MAPP®<sup>1)</sup> Gas



Burns approx. 1/3 longer than propane

Up to 2.5 hours of use

### Packaging Profile

Model	MAPP® <sup>1)</sup> Gas
No.	035551-A
EAN Code	4004625355510
Product size (mm) (W x H)	80 x 285
Contents (ml)	750
Weight (g)	410
Unit per PU	12
PU per layer / palette	8
Layer per palette	3
Units per palette	288
Number of palettes per truckload	60
Units per truckload	17,280
Palette weight (kg)	241
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	320 x 295 x 250

Model	Contents		No.
MAPP® <sup>1)</sup> gas cartridge	750 ml	12 / 360	035551-A
Languages: DE, GB, FR, ES, IT, PT			
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			
Burners can be found starting on  138			

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



## Cartridge Brazing / Soft Soldering

### Maxigas 400

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



### Multigas 300

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



Model	Maxigas 400
No.	035570-A/-B
EAN Code	4004625355701
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)	332
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

### Propane Gas

Gas cartridges for flame temperatures up to 1,900 °C. With EU coupling 7/16"



### C 200 Supergas

Pierceable butane cartridge with propane contents, also for working at low temperatures. Manufactured according to EN 417



Model	Propane Gas 2000
No.	035546-A/-B/-C
EAN Code	4004625355466
Product size (mm) (W x H)	80 x 285
Contents (ml)	750
Weight (g)	450
Unit per PU	12
VPE pro Lage / Palette	8
Layer per palette	3
Units per palette	288
Number of palettes per truckload	60
Units per truckload	17,280
Palette weight (kg)	198
Palette size (mm) (L x W x H)	800 x 1,200 x 1,000
Carton size (mm) (L x W x H)	320 x 295 x 250

Model	C 200 Supergas
No.	035900-A/-B
EAN Code	4004625359006
Product size (mm) (W x H)	90 x 95
Contents (ml)	314
Weight (g)	190
Unit per PU	36
VPE pro Lage / Palette	9
Layer per palette	3
Units per palette	972
Number of palettes per truckload	60
Units per truckload	58,320
Palette weight (kg)	251
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



# Bonding

## Cylinder Brazing

### ROCOLT HANDY PIEZO Set

Professional brazing system with quick-change torch

Three torch nozzles for different applications



#### Product Profile

##### APPLICATION AREA

**Brazing:** up to Ø 18 mm  
**Soft soldering:** up to Ø 32 mm  
**Warming-up:** up to Ø 60 mm

##### KEY FEATURES

- Three torch nozzles for different applications
- Reliable PIEZO ignition for up to 30,000 ignitions
- Increased safety with the hose failure protection

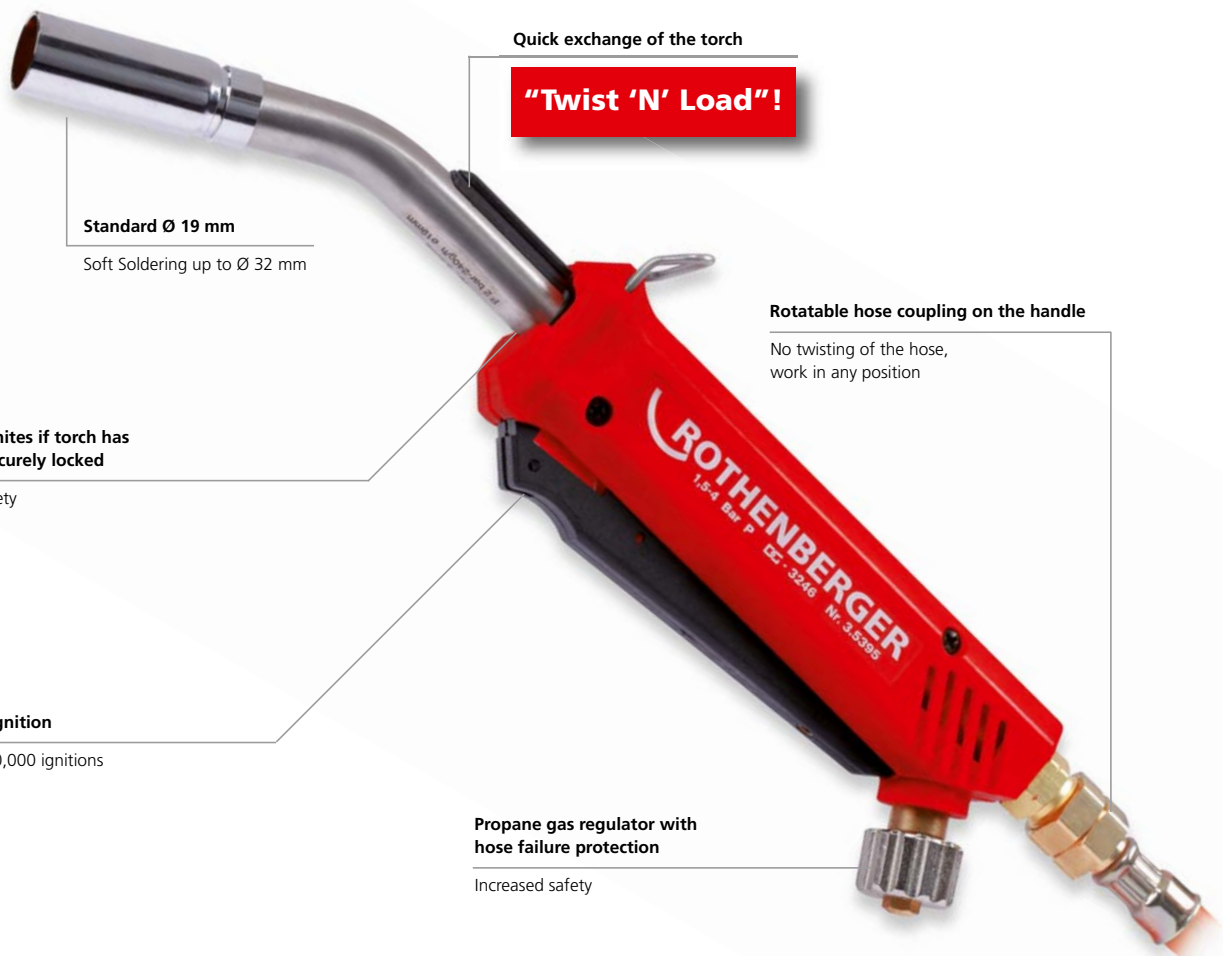
##### KEY FEATURES

- No twisting of the hose, work in any position
- Tool-free nozzle exchange with the fast "Twist 'N' Load" system

##### TECHNICAL DATA

**Coupling:** G 3/8" left  
**Handle:** Plastic, with screws  
**Burner:** Brass / stainless steel

4



Quick exchange of the torch

**"Twist 'N' Load"!**

Standard Ø 19 mm

Soft Soldering up to Ø 32 mm

Rotatable hose coupling on the handle

No twisting of the hose,  
work in any position

Only ignites if torch has  
been securely locked

Dual safety

PIEZO ignition

Up to 30,000 ignitions

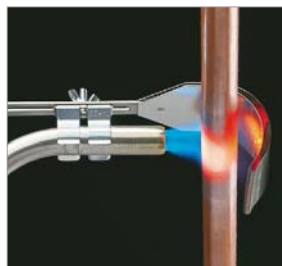
Propane gas regulator with  
hose failure protection

Increased safety

PIEZO ignition



Application with flame reflector



Brazing



Soft soldering





### ROCOLT HANDY PIEZO Set

8-part set (No. 35390) includes: Rocolt handle (No. 35395), standard torch 19 mm (No. 35378), cyclone torch (No. 35398), pressure reducer including rotatable hose failure protection (No. 35356), propane hose 3 m (No. 35383), flame reflector 65 mm (No. 31043), ROVLIES® (No. 45268), plastic carrying case (No. 30898)



**With flame reflector!**



Model	kg	No.
ROCOLT HANDY PIEZO Set	1.5	<b>35390</b>
ROCOLT HANDY Handle	0.3	<b>35395</b>

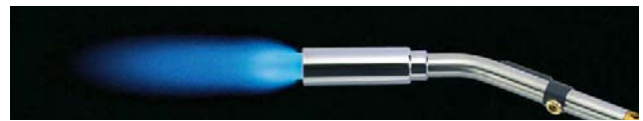
### ROCOLT HANDY PIEZO Standard Torch

Standard torch with extremely short, bundled flame for low consumption. Ideal burner for brazing, soft soldering, warming up, annealing, hardening, etc.



### ROCOLT HANDY PIEZO Cyclone Torch

Cyclone torch with optimum enveloping flame aspect when soldering pipes and fittings. Ideal burner for brazing, soft soldering, warming up, annealing, hardening, etc.



Soft soldering Ø 32 mm  
(No. 35378)



Soft soldering Ø 28 mm  
Brazing Ø 15 mm  
(No. 35397)

Soft soldering Ø 32 mm  
Brazing Ø 18 mm  
(No. 35398)

Soft soldering Ø 70 mm  
Brazing Ø 32 mm  
(No. 35399)

Model	Torch Ø mm	g	No.	Model	Torch Ø mm	g	No.
PIEZO Standard Torch	19	150	<b>35378</b>	PIEZO Cyclone Torch	14	180	<b>35397</b>
				PIEZO Cyclone Torch	19	150	<b>35398</b>
				PIEZO Cyclone Torch	25	180	<b>35399</b>

### ACCESSORIES



Model		Model	
Welding blanket	<b>165</b>	External brush for copper pipe	<b>165</b>
Internal brush for copper pipe	<b>165</b>	ROVLIES®	<b>165</b>
Solder	<b>167 - 171</b>	Soft-soldering paste ROSOL	<b>167</b>

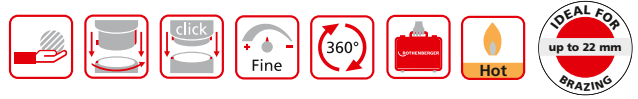
# Bonding

## Cylinder Brazing

### AIRPROP®

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

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



#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

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

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

Bundled, concentrated and hot flame

##### Smooth-turning economy valve

Gas-saving operation

##### Optimised valve technology

Absolutely gas tight

##### Shut-off valve

Prevents uncontrolled gas escape

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

Fast burner exchange without tools



No. 31092

Sets include: Safety handle with push-in coupling (No. 211121116), brazing torch with push-in nipple Ø 14 mm (No. 221131416) / Ø 16 mm (No. 221131616) / Ø 19 mm (No. 221131916), 2.5 m propane hose with 3/8" 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 – G 3/8 L))	3.1	<b>31091</b>
Flame cleaning torch 20/50 mm	0.2	<b>30922</b>



#### AIRPROP® brazing burner with threaded coupling

Ø mm	L mm	g/h 2 bar	kWh – kcal – BTU	g	No.
14 mm	140	125	1.60 – 1,375 – 5,465	95	<b>30913</b>
16 mm	145	180	2.30 – 3,300 – 7,885	100	<b>30914</b>
19 mm	170	300	3.84 – 3,300 – 13,115	130	<b>30915</b>
22 mm	171	400	5.12 – 4,400 – 26,195	145	<b>30916</b>

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

Ø mm	L mm	g/h 2 bar	kWh – kcal – BTU	g	No.
14 mm	140	125	1.60 – 1,375 – 5,465	95	<b>221131416</b>
16 mm	145	180	2.30 – 3,300 – 7,885	100	<b>221131616</b>
19 mm	170	300	3.84 – 3,300 – 13,115	130	<b>221131916</b>
22 mm	171	400	5.12 – 4,400 – 26,195	145	<b>221132216</b>

### TURBOPROP

Propane high-performance torch for brazing up to Ø 28 mm and soft soldering Ø 54 mm

For brazing and soft soldering of copper and steel pipes up to 2,200 °C without oxygen, as well as for warming up, shrinking and flame cleaning



#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

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

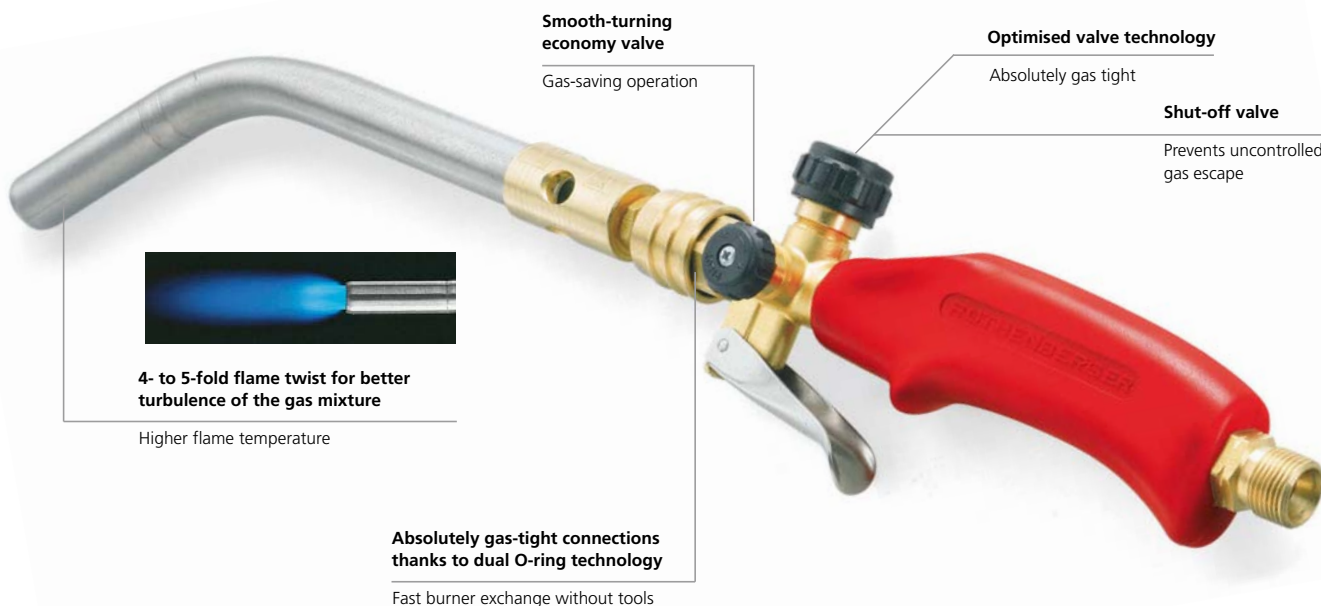


Fig. TURBOPROP torch with push-in nipple

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



No. 31090

Model	kg	No.
TURBOPROP set without propane regulator	2.8	<b>31090</b>
TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 3.2081E) (W 21.8 L – G 3/8 L))	3.1	<b>31094</b>
TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 3.2083) (POL 7/8 L – G 3/8 L))	3.1	<b>31037</b>
TURBOPROP set with propane regulator (as in set (No. 31090) but with regulator (No. 32084) (W 20 x 14 L – G 3/8 L))	3.1	<b>31036</b>

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

Ø mm	L 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>221031500</b>
18 mm	230	240	3.07 – 2,640 – 10,485	160	<b>221031800</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)



#### Product Profile

##### KEY FEATURES

- 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

##### KEY FEATURES

- 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

4



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

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

**Smooth running economy valve**  
Gas-saving operation

**Shut-off valve**  
Prevents uncontrolled gas leaks

**10-piece set (No. 31093) includes:** Safety handle (No. 211541116), 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>

Further accessories can be found on **162**

### AIRAC® Safety Handle

Safety handle with economy, regulating and shut-off valve, threaded coupling M 16 x 1, hose coupling G 3/8" L



Model	g	No.
Safety handle	290	<b>211541116</b>
Repair kit for shut-off valve, complete	10	<b>30101</b>
Repair kit for regulating valve, complete	10	<b>30102</b>
Repair kit for economy valve, complete	10	<b>30103</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>

### MULTI MOBILE Set

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

#### Product Profile

##### KEY FEATURES

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

**Professional soft soldering with maximum mobility and safety!**

##### TECHNICAL DATA

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

4



Professional soft soldering with high mobility and safety



Fig. MULTI MOBILE Set

Set (No. 100000390) includes: MULTI MOBILE soft-soldering cartridge tool incl. hammer shaped copper piece 250g (No. 100000514), 2 Multigas 110 gas cartridge (No. 1500000459), 2 Düsen (No. 1500000461), steel case (No. 1500000460)

Model	g	No.
Copper piece, hammer shape	250	<b>100000514</b>
Copper piece, pointed shape	245	<b>100000512</b>

Model		No.
MULTI MOBILE Set		<b>100000390</b>
Multigas 110 gas cartridge	12	<b>1500000459</b>

# Bonding

## Cylinder Soft Soldering

### MULTI 300 Propane Soft Soldering Kit

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



#### Product Profile

##### KEY FEATURES

- For all types of fine soldering in the areas of electronics and telecommunications
- For working with lead (gutters, laminations and roof edging, ventilation shafts, etc.)

##### TECHNICAL DATA

Propane handle with heat insulated wooden grip  
 Rotatable air / rotary valve for the adjustment of an especially fine flame  
 Rotatable hose coupling M10 x 1 L  
 With longer ball spindle and dual spring control  
 Favourable working pressure with 1.5 bar



No. 35486

Fig. Similar



Fig. Similar

**3-part set** (No. 35486) includes: Soft soldering iron copper head with 350 g flat (No. 520849), 2 m propane hose (No. 30927), small propane cylinder 0.5 kg with hook (No. 33079)

**13-part set** (No. 35488) includes: Soft soldering iron with copper head 350 g flat (No. 520849), soft soldering torch Ø 17 mm (No. 520856) / Ø 20 mm (No. 520857), wide torch 45 mm (No. 520845), propane regulator 0-6 bar (No. 242206000), 2 m propane hose (No. 30927), small propane cylinder 0.5 kg with hook (No. 33079), refilling adaptor (No. 32207), torch spanner (No. 35530), open-ended spanner (No. 32073), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35487)

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

#### ACCESSORIES



Description	g	No.	Description	g	No.
Soft soldering iron with handle, iron torch, Iron Holder, wind protector, copper head	940	<b>520849</b>	Copper Head 250 g pointed	270	<b>32099</b>
Soft soldering iron with handle, iron burner, Iron Holder, wind protector, without copper head	570	<b>520840</b>	Copper Head 350 g flat	370	<b>32075</b>
Handle with hose coupling M 10 x 1 L	300	<b>520850</b>	Soft soldering torch size 5, Ø 17 mm, M 15 x 1	70	<b>520856</b>
Iron Burner with coupling M 15 x 1	70	<b>520865</b>	Soft soldering burner size 7, Ø 20 mm, M 15 x 1	120	<b>520857</b>
Iron Holder with foot	100	<b>520866</b>	Steel case	3390	<b>35487</b>
Wind protector	100	<b>520867</b>	Torch spanner	60	<b>35530</b>
Copper Head 250 g flat	270	<b>32098</b>	Safety igniter with rolling file	60	<b>32077</b>
			Replacement flints, tin with 5 pieces	15	<b>32088</b>

### ROOFING-Set

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

- Large working range with 5 m propane hose
- Efficient use even in adverse weather conditions with the flame stabiliser
- High-performance burner with flame stabiliser chrome plated with a reinforced edge
- Burner support

##### TECHNICAL DATA

600 mm burner tube  
Burner support



Ø 63 mm



**Burner support included!**

5 m Propane hose

Large working range

Ideal for roofing and asphalt work



600 mm burner tube with support and 5.0 m propane hose



5-part set (No. 30954) includes: Propane handle (No. 21511216), 63 mm high-performance torch (No. 223216300), 600 mm torch pipe (No. 236010000), 5.0 m propane hose (No. 32203), torch support (No. 252010000)

Model	g	No.
ROOFING-Set	1,920	<b>30954</b>
ROOFING-Set (as 30954, with Piezo ignition)	1,960	<b>030955X</b>
ROOFING-Set (as 30954, with pressure regulator 30925)	2,300	<b>30957</b>
Burner support	60	<b>252010000</b>

### 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>231010000</b>	350	190	<b>233510000</b>
200	120	<b>232010000</b>	600	290	<b>236010000</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>223214500</b>
51	112	3800	48.60 - 41,800 - 165,970	270	<b>223215100</b>
57	126	5500	70.35 - 60,500 - 240,257	350	<b>223215700</b>
63	138	6700	85.70 - 73,700 - 292,670	440	<b>223216300</b>

# Bonding

## Accessories Cylinder Brazing / Soft Soldering

### Safety Propane Handles

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

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




No. 211121116



No. 211111116

### Propane Regulators

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

Inlet	Outlet	Working pressure Bar	Performance kg/h		No.
W 21.8 x 1/14" L	G 3/8" L	0.5 - 4.0	8	240	<b>32081</b>
G 3/8" L	G 3/8" L	0 - 6	8	200	<b>242206000</b>
W 21.8 x 1/14" L	G 3/8" L		8	230	<b>30925</b>



No. 32081




No. 242206000



No. 30925

### Propane Hoses

Top quality, DIN / DVGW tested, with strong inlay, durable and flexible, mounted with sleeves and nuts in middle (DK 6) or high-pressure (DK 30) versions

L m	Inlet	Outlet	Pressure class	Interior-Ø mm Wall thickness		No.
2	G 3/8" L	M 10 x 1 L	DK 6	4.0 x 3.5	310	<b>30927</b>
2.5	G 3/8" L	G 3/8" L	DK 6	4.0 x 3.5	350	<b>32201</b>
5	G 3/8" L	G 3/8" L	DK 30	4.0 x 4.0	730	<b>33310</b>
10	G 3/8" L	G 3/8" L	DK 30	6.3 x 5.0	1,650	<b>32223</b>



No. 30927




No. 32223

### Propane Hose Failure Protection

Nominal pressure 1.5 - 4 bar, brass, DIN / DVGW tested.

Automatic interruption of gas supply if hose is damaged or loosened, push-button for resetting after interruption

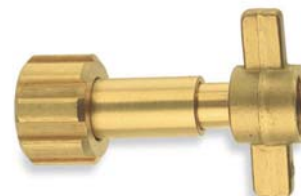
Inlet	Outlet	Performance kg/h	Push button		No.
G 3/8" L	G 3/8" L	10	blue	130	<b>35925</b>



### Refilling Adaptor


For refilling 0.5 propane cylinders from 3.5 or 11 kg propane cylinders, brass with guide pin

Inlet	Outlet		No.
W 21.8 x 1/14" L	G 3/8" L	160	<b>32207</b>



### Propane Lightweight Steel Cylinder

With cylinder valve, TÜV tested, according to TRG

Model	Outlet	Contents		No.
Small cylinder, 0.5 kg with foot	G 3/8" empty		2.75	<b>33079</b>
Protective collar for 33079				<b>35636</b>
Cylinder 5 kg, with foot and cap	filled		12.60	<b>31081</b>
W 21.8 x 1/14" L				



No. 33079

With 0.5 kg cylinder protective collar included in delivery



No. 31081



### ROTHERM 2000

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



#### Product Profile

##### APPLICATION AREA

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

**Soft soldering of Copper pipes up to:**  
Ø 6 - 54 mm, 1/4 - 2.1/8"

##### KEY FEATURES

- Soldering without open flame
- Large working radius, also when working under ceilings
- Comfortable transport and convenient use
- High performance, short soldering times
- Thermal overload protection turns device off automatically

##### KEY FEATURES

- Handle shell will not overheat
- No purchasing on handling of gas cylinders necessary
- Equivalent with transport terms
- 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

##### TECHNICAL DATA

<b>Power:</b>	2000 Watt
<b>Soldergun cable:</b>	4 m
<b>Dimensions (L x W x H):</b>	260 x 190 x 200 mm
<b>Weight:</b>	10.5 kg

### Soldering without open flame!

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

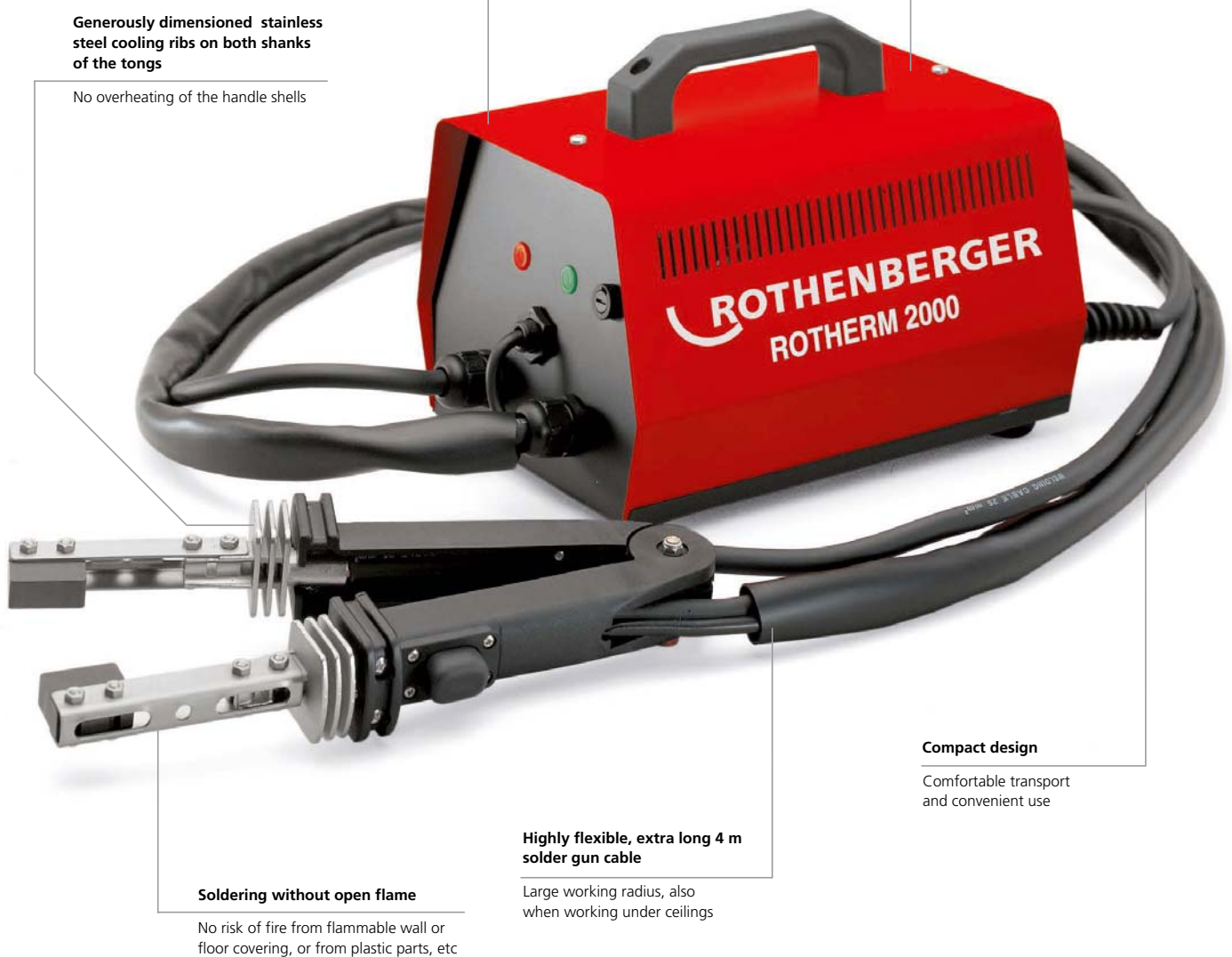
No overheating of the handle shells

Thermal overload protection

Automatic device shut-off

2000 W

High performance, short soldering times



Compact design

Comfortable transport and convenient use

Highly flexible, extra long 4 m solder gun cable

Large working radius, also when working under ceilings

Soldering without open flame

No risk of fire from flammable wall or floor covering, or from plastic parts, etc



# Bonding

## Electric Soft Soldering

### ROTHERM 2000 Soft Soldering Set

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

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)

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



4



Warming up of the soldering point without open flame



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



Flat electrode



Simple replacement of electrodes and electrode holders



### ACCESSORIES



Model	No.	Model	
Flat electrode (pair)	<b>36721</b>	ROVLIES®	<b>165</b>
Flat electrode with holder (pair)	<b>36711</b>	External brush for copper pipe	<b>165</b>
Rod electrodes (pair)	<b>36720</b>	Soft soldering flux	<b>167</b>
Rod electrodes with holder (pair)	<b>36710</b>	Solders	<b>167</b>
		Internal brush for copper pipe	<b>165</b>

### ALLGAS 2000 Set

#### Mobile soldering and welding torch

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



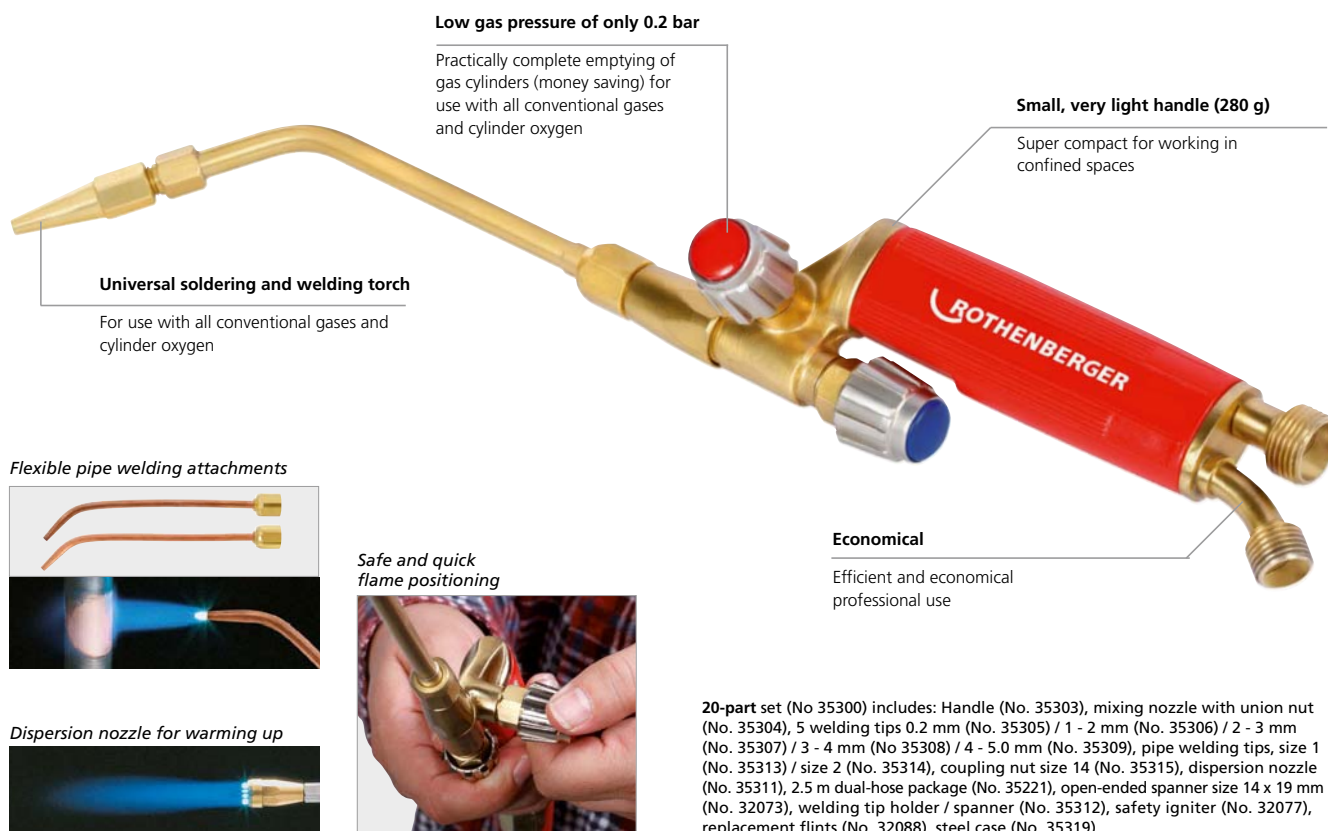
#### Product Profile

##### APPLICATION AREA

**Soldering range:** up to 2.5 mm material thickness  
**Welding range:** 0.2 - 5 mm  
**Suitable for use with:** Oxy-Acetylene  
 Propane and oxygen  
 CNG and oxygen  
 Town gas and oxygen

##### KEY FEATURES

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



**Low gas pressure of only 0.2 bar**

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

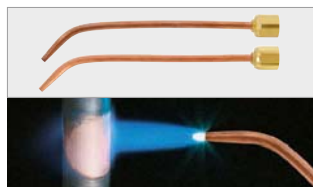
**Small, very light handle (280 g)**

Super compact for working in confined spaces

**Universal soldering and welding torch**

For use with all conventional gases and cylinder oxygen

**Flexible pipe welding attachments**



**Safe and quick flame positioning**



**Dispersion nozzle for warming up**



**Economical**

Efficient and economical professional use

**20-part set (No. 35300) includes:** Handle (No. 35303), mixing nozzle with union nut (No. 35304), 5 welding tips 0.2 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5.0 mm (No. 35309), pipe welding tips, size 1 (No. 35313) / size 2 (No. 35314), coupling nut size 14 (No. 35315), dispersion nozzle (No. 35311), 2.5 m dual-hose package (No. 35221), open-ended spanner size 14 x 19 mm (No. 32073), welding tip holder / spanner (No. 35312), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35319)

Model	Coupling oxygen	Coupling fuel gas	g	No.
ALLGAS 2000 Set			3,100	<b>35300</b>
Handle ALLGAS 2000	G 1/4" R	G 3/8" L	280	<b>35303</b>
Mixing nozzle with union nut			40	<b>35304</b>

#### Welding tips, Welding attachments

Size	Welding range mm	g	No.
Welding tip size 1	0.2 - 1.0	10	<b>35305</b>
Welding tip size 2	1.0 - 2.0	10	<b>35306</b>
Welding tip size 3	2.0 - 3.0	10	<b>35307</b>
Welding tip size 4	3.0 - 4.0	10	<b>35308</b>
Welding tip size 5	4.0 - 5.0	10	<b>35309</b>
Dispersion nozzle for warming up		20	<b>35311</b>
Welding tip holder, can be used as a spanner		20	<b>35312</b>
Flexible welding tip size 1	2.0 - 3.0	40	<b>35313</b>
Flexible welding tip size 2	4.0 - 5.0	40	<b>35314</b>
Coupling / union nut, size 14		10	<b>35315</b>

Further accessories can be found on 162



Fig. ALLGAS 2000 Set

# Bonding

## Gas-Welding

### ALLGAS 2000 PS 0.5 / 2 Compact

Portable fitter's brazing equipment with carrying frame

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



#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

Gas:	Propane with oxygen
Flame temperature:	2,850 °C
Working temperature:	1,150 °C

**Transport safety according to DIN EN 962, BGV D34, GGVSE und TRG 280!**

24-part set (No. 35655) includes: Handle Allgas 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing nozzle with union nut (No. 35304), welding tips 0.2-1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4-5 mm (No. 35309), flexible welding tip size 1 (No. 35313) / size 2 (No. 35314), dispersion nozzle (No. 35311), welding tip holder / spanner (No. 35312), multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), nylon safety goggles (No. 540620), small propane cylinder 0.5 kg, empty (No. 33079), steel oxygen cylinder 2.0 l, full (No. 35635), oxygen safety device (No. 1000000633), fuel gas safety device (No. 1000000631), carrying frame (No. 35629)

Model	kg	No.
ALLGAS 2000 PS 0.5 / 2 Set	21.4	<b>35655</b>
Carrying frame without accessories	10.3	<b>35629</b>

Further accessories can be found on 162

Carrying comfort



**Safety devices included**



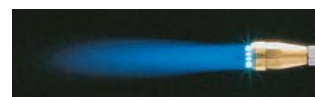
The bottle colours shown are without obligation!

### ALLGAS 2000 Welding Tips

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



Welding Tips, Nozzle thread M8 X 1



Size	Welding range mm	g	No.
Welding tip size 1	0.2 - 1.0	10	<b>35305</b>
Welding tip size 2	1.0 - 2.0	10	<b>35306</b>
Welding tip size 3	2.0 - 3.0	10	<b>35307</b>
Welding tip size 4	3.0 - 4.0	10	<b>35308</b>
Welding tip size 5	4.0 - 5.0	10	<b>35309</b>
Dispersion nozzle for warming up		20	<b>35311</b>
Welding tip holder, can be used as a spanner		20	<b>35312</b>



No. 35311



No. 35312

### Flexible Pipe Welding Attachments

Size	Welding range mm	g	No.
Flexible welding tip size 1	2.0 - 3.0	40	<b>35313</b>
Flexible welding tip size 2	4.0 - 5.0	40	<b>35314</b>
Coupling / union nut, size 14		10	<b>35315</b>



### ALLGAS Mobile Pro

#### Mobile brazing equipment with safety devices

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



#### Product Profile

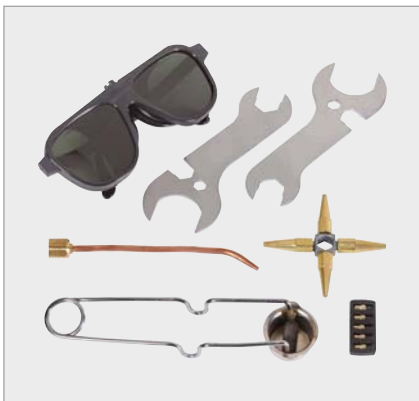
##### KEY FEATURES

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

##### TECHNICAL DATA

<b>Gas:</b>	MAPP®-gas with oxygen (disposable)
<b>Flame temperature:</b>	over 3,100 °C
<b>Working temperature:</b>	1,300 °C

#### Accessories included in the set



#### MAPP®<sup>1)</sup> and oxygen

Flame temperature above 3,100 °C

#### Welding and brazing torch

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

#### High quality safety devices

Reliable prevention of gas returns and flashbacks

#### Pressure reducer 0 - 2 bar

Constant, low consumption and efficient flame adjustment

#### Total weight < 6 kg

High mobility on construction site

#### High quality rubber hoses

20 bar, DIN EN ISO 3821 certified, length: 2,5 m



Model	kg	No.
ALLGAS Mobile Pro 1" US, w/o cartridges	3.86	1000000529
ALLGAS Mobile Pro 1" US, incl. cartridges	5.95	1000000743
ALLGAS Mobile Pro 7/16" EU, w/o cartridges	3.86	1000000642
ALLGAS Mobile Pro 7/16" EU, incl. cartridges	5.70	1000000558
MAP//Pro 1" US, 750 ml	0.90	35698
Oxygen, 110 L	1.20	35750



# Bonding

## Gas-Welding

### ALLGAS 2000 PS 0.5 / 2 Basic

#### Portable fitter's brazing equipment

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



#### KEY FEATURES

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

#### Space saving storage in service vehicles!



**18-part set (No. 35651)** includes: Handle Allgas 2000 (No. 35303), 2.5 m propane hose (No. 32201), 2.5 m oxygen hose (No. 35210), propane regulator adjustable 0 - 6 bar (No. 242206000), oxygen pressure reducer 10 bar (No. 35634), mixing nozzle with union nut (No. 35304), welding tips 0.2 - 1 mm (No. 35305) / 1 - 2 mm (No. 35306) / 2 - 3 mm (No. 35307) / 3 - 4 mm (No. 35308) / 4 - 5 mm (No. 35309), welding tip holder / spanner (No. 35312) multi-size spanner (No. 35738), safety igniter (No. 32077), replacement flints (No. 32088), steel oxygen cylinder 2.0 l, filled (No. 35635), propane cylinder 0.5 kg (empty) (No. 33079), Allgas stand (No. 35628)

Model	kg	No.
ALLGAS 2000 PS 0.5 / 2 Set	14.4	<b>35651</b>
Further accessories can be found on <b>162</b>		

4



The bottle colours shown are without obligation!

### ROXY 400 L

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

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



#### Space saving storage in service vehicles!



**20-part set (No. 035780X)** includes: Handle with fine regulating valve (No. 35580), Maxigas 400 (No. 035570-A), oxygen cylinder 2.0 L (No. 35635), fine regulating valve (No. 263003700), oxygen pressure reducer according to DIN 0-315 / 200 bar 0-16 / 10 bar (No. 35634), hose set (3 m without handle) (No. 35785), oxygen blowback protection (No. 35678), gas blowback protection (No. 35691), mixing nozzle with union nut (No. 35587), high-performance tips 1.5 mm (No. 263005600) / 2.0 mm (No. 263005400), micro-tips 0.3 mm (No. 35712) / 0.5 mm (No. 35696) / 0.7 mm (No. 35713), micro-tip adaptor (No. 35585), welding goggles A5 (No. 35621), safety igniter (No. 32077), multi-size spanner (No. 35738) carrying frame (No. 35727)

Model	kg	No.
ROXY 400 L Set	10.80	<b>035780X</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 1-1.2 sheet metal	0.04	<b>263005700</b>
ROXY micro-nozzle for 0.7-0.9 sheet metal	0.06	<b>263005800</b>
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>



The bottle colours shown are without obligation!

### ROFLASH Set

Welding and cutting kit  
Welding range: 0.5 - 14 mm, Cutting range: 3 - 75 mm

22-part set (No. 513300) includes: Handle (No. 513010), welding attachments 0.2 - 0.5 (No. 513030), 0.5 - 1 (No. 513031), 1 - 2 (No. 513032), 2 - 4 (No. 513033), 4 - 6 (No. 513034), 6 - 9 (No. 513035), 9 - 14 (No. 513036), spring-lever cutting attachment (No. 513310), cutting tips 3 - 6 (No. 513330), 6 - 20 (No. 513331), 20 - 75 (No. 513332), cutting burner guiding wagon, burner spanner (No. 510106), nylon safety goggles (No. 540621), 10 piece nozzle cleaning set (No. 510105)

Model	kg	No.
ROFLASH Set	4.2	513300



Exchange of the welding tip  
Can be used with all types of gas

Cutting oxygen valve with spring-lever  
Enables one-handed use for spray-free cutting, etc.

Fig. Similar



### ROFLASH Handle

Welding kit handle

#### KEY FEATURES

- The new monoblock valves enable the precise adjustment and accurate control of the flame
- Comfortable one-handed use with the v-formed valve arrangement

Model	g	No.
ROFLASH Handle	434	513010

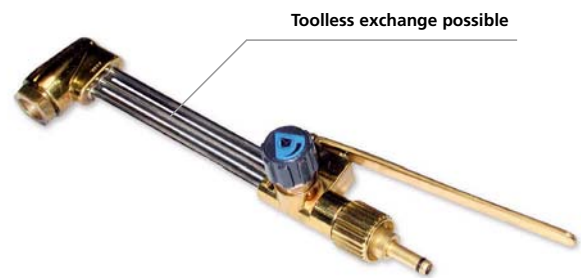


### ROFLASH Spring-lever Cutting Attachment

#### KEY FEATURES

- The solid torch nozzle is made from forged brass and can withstand the highest thermal demands and also enables use under extreme conditions, maintenance-free monoblock valve

Model	g	No.
ROFLASH spring-lever cutting attachment	582	513310
ROFLASH cutting tips 3 - 6 mm	97	513330
ROFLASH cutting tips 6 - 20 mm	97	513331
ROFLASH cutting tips 20 - 75 mm	98	513332



Toolless exchange possible

### ROFLASH Welding Attachments / Welding Tips



Model	g	No.
ROFLASH welding attachments 0.2 - 0.5 mm	96	513030
ROFLASH welding attachments 0.5 - 1.0 mm	96	513031
ROFLASH welding attachments 1.0 - 2.0 mm	104	513032
ROFLASH welding attachments 2.0 - 4.0 mm	117	513033
ROFLASH welding attachments 4.0 - 6.0 mm	128	513034
ROFLASH welding attachments 6.0 - 9.0 mm	148	513035
ROFLASH welding attachments 9.0 - 14.0 mm	171	513036



Model	g	No.
ROFLASH welding tips 0.2 - 0.5 mm	96	513040
ROFLASH welding tips 2.0 - 4.0 mm	126	513043
ROFLASH welding tips 4.0 - 6.0 mm	128	513044
ROFLASH welding tips 6.0 - 9.0 mm	147	513045
ROFLASH welding tips 9.0 - 14 mm	171	513046

# Bonding

## Three-Gas Welding

### RE 17 Three-gas System AMS 5/5

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



Including gas cylinders and dual-telescoping transport trolley!

The bottle colours shown are without obligation!

27-piece set (No. 35400) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 5 l (filled) (No. 35178), oxygen cylinder 5 l (filled) (No. 35188), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 263003700), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354), 5 m dual-hose package A / S (No. 35222), heating nozzle 3 - 100 mm (No. 35339), steel case (No. 35800)

Model	kg	No.
RE 17 Three-gas System AMS 5/5	50	<b>35400</b>

### RE 17 Three-gas System AMS 5 and 10

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



Including dual-telescoping transport trolley!

25-part set (No. 35403) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 3-100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 263003700), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

Model	kg	No.
RE 17 Three-gas System AMS 5 + 10	23	<b>35403</b>

### RE 17 Three-gas System AMS 10/10

Assembly, welding, cutting and brazing system  
Welding range 0.5 - 14 mm, Cutting range 3.0 - 50 mm



Including gas cylinders and dual-telescoping transport trolley!

The bottle colours shown are without obligation!

27-part set (No. 35401) includes: Handle with coupling nut (No. 35324), welding attachments 0.5 - 1 mm (No. 35325) / 1 - 2 mm (No. 35326) / 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329) / 9 - 14 mm (No. 35334), wing-lever cutting attachment (No. 35338), cutting tips 12 - 25 mm (No. 35341) / 25 - 50 mm (No. 35344), heating nozzle 3 - 100 mm (No. 35339), 5 m dual-hose package A / S (No. 35222), acetylene pressure reducer 1.5 bar (No. 35794), oxygen pressure reducer 10 bar (No. 35634), 2 each - protective rubber caps, red (No. 511428) / blue (No. 511427), 10 piece nozzle cleaning set (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), acetylene cylinder 10 l (filled) (No. 35179), oxygen cylinder 10 l (filled) (No. 35189), Maxigas 400 (No. 035570-A), gas regulating valve Maxigas (No. 263003700), hose adaptor Maxigas (No. 35491), steel case (No. 35800), dual-telescoping transport trolley (No. 35354)

Model	kg	No.
RE 17 Three-gas System AMS 10/10	66	<b>35401</b>
RE 17 as in 35401, cutting range 3.0 - 25 mm	65	<b>35798</b>



### RE 17 UNIVERSAL Pipe Welding Set

For welding, cutting, brazing and warming up  
Welding range: 0.5 - 14 mm, Cutting range: 3 - 100 mm



Set (No. 35479) includes: Handle with coupling nut (No. 35324), welding attachments 2 - 4 mm (No. 35327) / 4 - 6 mm (No. 35328) / 6 - 9 mm (No. 35329), flexible pipe-welding tips 2 - 4 mm (No. 35347) / 4 - 6 mm (No. 35348), wing-lever cutting attachment (No. 35338), Cutting tip 3 - 25 mm (No. 35341), Heating nozzle 3 - 100 mm (No. 35339), Nozzle cleaning set, 10 piece (No. 510105), torch spanner (No. 510106), safety igniter (No. 32077), replacement flints (No. 32088), steel case (No. 35800)



No. 35480



No. 35324

⊕	Nominal size	⚖	kg	No.
	RE 17 Pipe welding set		4.3	<b>35479</b>
	RE 17 Pipe welding set		4.8	<b>35480</b>
	As in set (No. 35479), but also including with welding attachments 0.5-1 mm (No. 35325) / 1-2 mm (No. 35326), 9-14 mm (No. 35334) / 25-50 mm (No. 35344), without flexible pipe-welding tips 2-4 mm (No. 35347) / 4-6 mm (No. 35348)			
	Steel case RE 17 (empty)		1.70	<b>35800</b>
	RE 17 handle with burner coupling nut		0.47	<b>35324</b>
	Coupling: oxygen G 1/4" R, gas G 3/8" L			



### RE 17 Welding Attachments

	Welding range mm	⚖	g	No.
Welding attachment	0.5 - 1		140	<b>35325</b>
Welding attachment	1 - 2		150	<b>35326</b>
Welding attachment	2 - 4		170	<b>35327</b>
Welding attachment	4 - 6		190	<b>35328</b>
Welding attachment	6 - 9		220	<b>35329</b>
Welding attachment	9 - 14		260	<b>35334</b>



### RE 17 Pipe Welding Attachment, Flexible

Pipe welding attachment, Flexible copper tips complete

Welding range mm	⚖	g	No.	Welding range mm	⚖	g	No.
				1 - 2		40	<b>35475</b>
2 - 4		140	<b>35347</b>	2 - 4		40	<b>35476</b>
4 - 6		150	<b>35348</b>	4 - 6		50	<b>35477</b>

Pipe welding attachment, front piece



Pipe welding attachment, complete



### RE 17 Wing-lever Cutting Attachment

Model	⚖	g	No.
Cutting attachment without tips		820	<b>35338</b>



### RE 17 Cutting Tips and Heating Nozzle

Model	Cutting range mm	⚖	g	No.
Cutting tip	12 - 25		10	<b>35341</b>
Cutting tip	25 - 50		20	<b>35344</b>
Cutting tip	50 - 100		20	<b>35345</b>
Heating nozzle	3 - 100		50	<b>35339</b>



No. 35338

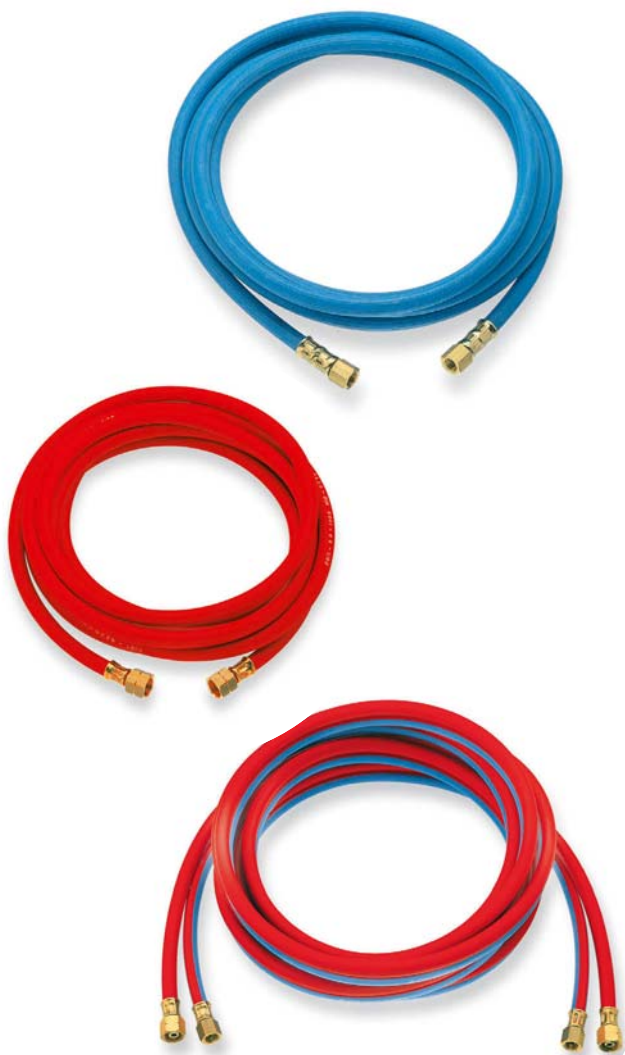
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No. 35345



No. 35339

# Bonding

## Accessories Soldering & Welding



### Oxy-Acetylene Hoses

Top quality in accordance with **DIN 8541**, with strong inlay, durable and flexible, rubber, mounted with sleeves and nuts



### Oxygen Hoses

L m	Inlet	Outlet	Internal Ø x wall thickness mm	kg	No.
2.5	G 1/4" R	G 1/4" R	6.0 x 3,5	0.5	<b>35210</b>
5	G 1/4" R	G 1/4" R	6.0 x 3.5	1.1	<b>33311</b>
10	G 1/4" R	G 1/4" R	6.0 x 3.5	1.9	<b>33314</b>

### Acetylene Hoses

L m	Inlet	Outlet	Internal Ø x wall thickness mm	kg	No.
2.5	G 3/8" L	G 3/8" L	6.0 x 3.5	0.5	<b>35203</b>
5	G 3/8" L	G 3/8" L	6.0 x 3.5	1.1	<b>33312</b>
10	G 3/8" L	G 3/8" L	6.0 x 3.5	1.9	<b>33315</b>

### Dual Hoses A/S

L m	Coupling Oxygen	Coupling Outlet	Internal Ø x wall thickness Oxygen / Acetylene	kg	No.
2.5	G 1/4" R	G 3/8" L	6.0 x 3.5	0.9	<b>35221</b>
5	G 1/4" R	G 3/8" L	6.0 x 3.5	2.0	<b>35222</b>
10	G 1/4" R	G 3/8" L	6.0 x 3.5	3.8	<b>35223</b>
40*	G 1/4" R	G 3/8" L	6.0 x 3.5	9.1	<b>35230</b>

\*40 m hose without sleeves and nuts



Included in delivery for steel cylinders without cap, protective bracket



The bottle colours shown are without obligation!

### Lightweight Steel Cylinders, filled

With cylinder valve, base and cap from 5 l, TÜV tested in accordance with TRGI

Model	Contents	Filling pressure bar	Height mm	Ø mm	kg	No.
Oxygen	2 l	200	420	110	4.6	<b>35635</b>
Oxygen	5 l	200	595	145	14.0	<b>35188</b>
Oxygen	10 l	200	980	145	17.0	<b>35189</b>
Acetylene	5 l	18	595	145	13.0	<b>35178</b>
Acetylene	10 l	18	980	145	23.0	<b>35179</b>



### Cylinder Transport Trolley

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

Model	kg	No.
Transport Trolley for 5 / 10 l acetylene / oxygen cylinders	8.9	<b>35354</b>
Conversion kit for adaption of Propane 0.5 kg / oxygen 5 l and 10 l cylinders		<b>35342</b>

### Cylinder Pressure Reducer

Rugged pressed brass construction with large pressure gauge according to **DIN 8549** (Ø 63 mm), with shut-off and safety valves, one-stage design according to **DIN 8546** with test mark



No. 35634



No. 35794

Cylinder contents bar	Working pressure bar	Inlet	Outlet		No.
Oxygen					
0 - 315 / 200	0 - 16 / 10	G 3/4"	G 1/4" R	1.4	<b>35634</b>
Acetylene					
0 - 40	0 - 2.5/1.5	G 3/4"	G 3/8" L	1.6	<b>35794</b>

### Blowback Prevention

Torch-mounted safety devices (flashback arrestors), type-tested, with flame trap, flow lock, non-return valve and dirt filter

Model	max. Operating pressure	Coupling-thread		No.
Handle-mounted, oxygen	25 bar	G 1/4" R	90	<b>540320</b>
Handle-mounted, acetylene	1.5 bar (Ace)	G 3/8" L	110	<b>540321</b>
	5 bar (propane/CNG)			
Reducer-mounted, oxygen	20 bar	G 1/4" R	150	<b>540360</b>
Reducer-mounted, acetylene	1.5 bar (Ace)	G 3/8" L	160	<b>540365</b>
	4 bar (propane/CNG)			
Reducer-mounted, oxygen	20 bar	G 1/4" R	120	<b>100000633</b>
Reducer-mounted, fuel gas	1.5 bar (Ace)	G 3/8" L	120	<b>100000631</b>
	5 bar (propane/CNG)			
Handle-mounted, oxygen	20 bar	G 1/4" R	100	<b>100000764</b>
Handle-mounted, fuel gas	1.5 bar (Ace)	G 3/8" L	100	<b>100000762</b>
	4 bar (propane/CNG)			



No. 540320



No. 540321



No. 540360



No. 540365



No. 100000633



No. 100000631



No. 100000764



No. 100000762

### Protective Guard for Pressure Reducer

Impact protection, rugged steel construction, mounts on connection coupling

Model	Colour		No.
For oxygen pressure reducer	blue	820	<b>35146</b>
For acetylene pressure reducer	yellow	820	<b>35140</b>



### Protective Rubber Cap

With slot, open

Model	Farbe		No.
For oxygen pressure reducer	blue	50	<b>511427</b>
For acetylene pressure reducer	red	50	<b>511428</b>



### Oxygen Refilling Bend

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

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



### Safety Igniters

Powerful spark, wear-free hard alloy friction surface

Model		No.
Safety Igniter with rolling file	60	<b>32077</b>
Replacement flints, tin with 5 pieces	15	<b>32088</b>



No. 32077



No. 32088



# Bonding

## Accessories Soldering & Welding



### Hand-held Welding Mirror

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



### Magnet Welding Mirror

Model		g	No.
With flexible metal tube / ball joint	450		<b>540855</b>
Spare steel mirror	50		<b>540851</b>



### Nozzle Cleaner

Model		g	No.
10 piece, in folding case	20		<b>510105</b>



### Torch Spanner

Model		g	No.
With 11 SW	210		<b>510106</b>



### Soldering Flux and Container for Hydrochloric Acid

Model		g	No.
With screw cap retaining band	40		<b>530250</b>



### Salmiakstone

Model	L x W x H	g	No.
Pressed	65 x 45 x 40 mm	15	<b>530310</b>



### Soapstone Marker

Model	L x W x H	g	No.
White, heat-resistant	100 x 10 x 10 mm	30	<b>561550</b>



No. 540620

No. 540622



No. 540640

### Welding Goggles DIN EN 166

With thermal glasses as per DIN EN 169






Model	Glass	g	No.
Nylon safety goggles	A 4	60	<b>540620</b>
	A 5	60	<b>540621</b>
Replacement glass (pair)	clear, non-splintering	60	<b>540622</b>
	A 4	30	<b>540625</b>
	A 5	10	<b>540626</b>
	clear, non-splintering	30	<b>540627</b>
Screw-ring safety goggles	A 4	90	<b>540640</b>
	A 5	90	<b>540641</b>
Replacement glass (Ø 50 mm)	A 4	30	<b>540675</b>
	A 5	10	<b>540676</b>

### ROVLIES® Cleaning Pads

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

#### KEY FEATURES

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

Model				No.
ROVLIES®	1(10)		80	<b>45268</b>
ROVLIES® counter display		36(10)	2,180	<b>045268D</b>







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### Internal Brushes for Copper Pipe





For fast cleaning of the soldering surface, rugged plastic handle

		No.			No.
mm	g		mm	g	
8	60	<b>854179</b>	16	120	<b>854184</b>
10	70	<b>854180</b>	18	120	<b>854185</b>
12	80	<b>854181</b>	22	140	<b>854186</b>
14	90	<b>854182</b>	28	140	<b>854187</b>
15	100	<b>854183</b>	35	160	<b>854188</b>




### External Brushes for Copper Pipe

For fast cleaning of the soldering surface, tough housing

		No.			No.
mm	g		mm	g	
8	80	<b>854189</b>	16	130	<b>854194</b>
10	90	<b>854190</b>	18	140	<b>854195</b>
12	100	<b>854191</b>	22	150	<b>854196</b>
14	110	<b>854192</b>	28	160	<b>854197</b>
15	120	<b>854193</b>	35	170	<b>854198</b>



### Hand Wire Brushes

Model	Numbers of rows		No.
Standard steel	3 rows	130	<b>561351</b>
Standard steel	4 rows	130	<b>561352</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

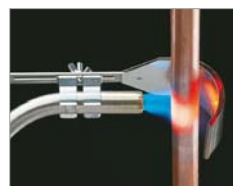
Thickness: 1.4 mm  
Weight: 1,000 g/m<sup>2</sup>




Model	L x W x H		No.
Welding Blanket	330 x 500 mm	300	<b>31050</b>

### Flame Reflectors

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



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

# Bonding

## Accessories Soldering & Welding

### Fitting Soft Solder to DIN EN

Standard type according to DIN EN 29 453	Solder composition in weight %	Melting range °C	Suitable for soft soldering in the plumbing industry			Recommended heat source
			Pipe Material	Fittings material	Recommended Flux according to DIN EN 29454	
<b>S -Sn97Cu3</b>	Sn 97 %, Cu 3 %	230 - 250°	Copper	Copper, gunmetal, brass	Part 1 - 3.1.1, 3.1.2, 2.1.2 or ROSOL 3	Cartridge burner, heat resistant soldering unit, Propane / induced-air burner, Acetylene / induced-air burner, Larger pipe diameters above 28 mm with propane / oxygen burner with dispersion nozzle
<b>S -Sn97Ag3</b>	Sn 96.7 %, Ag 3.3 %	221 - 240°	Copper	Copper, gunmetal, brass	Part 1 - 3.1.1, 3.1.2, 2.1.2 or ROSOL 1 S	




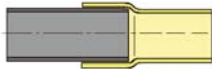
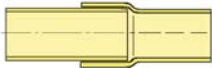

### Standard Solder according to DIN EN

Standard type according to DIN EN 1044	Solder composition in weight %	Melting range °C	Working temperature °C	Suitable for installation technology brazing			Recommended Flux according to DIN EN 29454	Recommended heat source
				Pipe Material	Fittings material	Flux		
<b>CP 203</b>	P 5.9 - 6.5 / Cu rest	710 - 880°	730°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	Cartridge torch with MAPP <sup>®1</sup> Gas, Propane / induced-air torch, Acetylene / induced-air torch, Larger pipe diameters above 28 mm with propane / oxygen torch with dispersion nozzle
<b>CP 105</b>	Ag 1.5 - 2.5 / P 5.9 - 6.5 / Cu rest	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	
<b>CP 104</b>	Ag 4.0 - 6.0 / P 5.7 - 6.3 / Cu rest	650 - 810°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	
<b>CP 102</b>	Ag 14.0 - 16.0 / P 4.7 - 5.3 / Cu rest	650 - 800°	710°	Copper	Copper Gunmetal Brass	without flux with flux	F-SH 1 or LP 5	
<b>AG 106</b>	Ag 33 - 35 / Cu 35 - 37 Sn 1.5 - 2.5 / Zn rest	630 - 730°	710°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	F-SH 1 or LP 5	
<b>AG 104</b>	Ag 44 - 46 / Cu 26 - 28 Sn 2.5 - 3.5 / Zn rest	640 - 680°	670°	Stahl Copper	Steel, Copper Gunmetal Brass	with flux (U = sheathed from 22 mm pipe-Ø)	F-SH 1 or LP 5	

4



### Soldered Joints

Material	Required Hard Solder	Melting Range	Working Temperature	Standard
<b>Copper-Copper</b> 	S 34 Cu / S 34 Cu U S 94 / S 94 XN / S1 S 2 / S 5 S 15	630 °C - 730 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 800 °C	710 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Copper-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN 1044
<b>Copper-Brass</b> 	S 94 / S 94 XN / S1 S 2 S 5 S 15	710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Brass-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	600 °C - 690 °C 595 °C - 630 °C	680 °C 610 °C	DIN EN 1044
<b>Brass-Brass</b> 	S 94 / S 94 XN S 1 (nicht genormt) S 2 / S 5 S 15	710 °C - 880 °C 710 °C - 880 °C 650 °C - 810 °C 650 °C - 810 °C	730 °C 730 °C 710 °C 710 °C	DIN EN 1044
<b>Carbon Steel-Carbon Steel</b> 	S 34 Cu / S 34 Cu U S 45 Cu / S 45 Cu U	630 °C - 730 °C 640 °C - 680 °C	710 °C 670 °C	DIN EN 1044

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


### Fittings Solders

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

DIN  
-Norm

### Fitting Solder 1 S

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


Solder wire Ø	Description	 g	No.
2 mm	250 g coil	270	<b>45252</b>
3 mm	250 g coil	270	<b>45250</b>



No. 45252

### Fitting Solder 3

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

Solder wire Ø	Description	 g	No.
2 mm	250 g coil	270	<b>45257</b>
3 mm	250 g coil	270	<b>45255</b>



No. 45257

DIN  
-Norm

### ROSOL Soldering Paste


Quality soft soldering flux according to **DIN EN ISO 9453** and **DIN EN 29454-1, 3.1.1.C, with DVGW test mark Reg.-No. DV-0101AT2247**, for joining copper pipes to copper, gunmetal and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 7, metal content 60% by weight, flux residues are 100% water soluble

DIN  
-Norm

### ROSOL 1 S

#### Fittings solder paste

Quality soft soldering flux, metal content: **S-Sn97Ag3**, only for use with fitting solder 1 S

Model	 g	No.
ROSOL 1 S in plastic bottle 250 g	270	<b>45220</b>



No. 45220




No. 45225

### ROSOL 3

#### Fittings solder paste


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

Model	 g	No.
ROSOL 3 in plastic bottle 250 g	270	<b>45225</b>

### Fittings Soft Solder Flux

According to **DIN EN 29454-1 3.1.1.C**, flux residues are 100 % water soluble, for joining copper pipes to copper, gunmetal, and brass fittings for hot and cold-water plumbing in accordance with DVGW worksheet GW 2 + GW 7, also suitable for general-purpose soldering work.

DIN  
-Norm

Model	 g	No.
Fittings Soft Solder Flux in plastic tube 35 ml	45	<b>45266</b>





### Hard Solder Rings S 2

High-quality safety solder material with silver-phosphorus content, guaranteed according to DIN EN 1044, CP 105

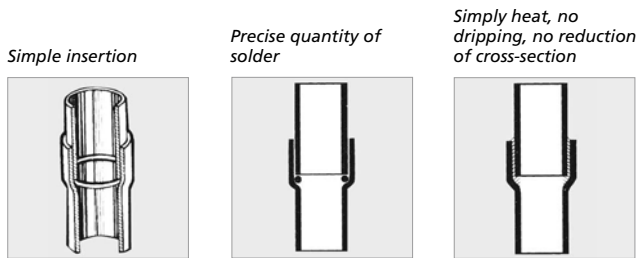
#### KEY FEATURES

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

#### TECHNICAL DATA

**Alloy (weight %):** Ag 1.5 - 2,5 / P 5.9 - 6.5 / Cu rest  
**Melting range:** 650 °C - 810 °C  
**Joinable materials:** Copper, gunmetal, brass, bronze  
**Use of flux with:** Gunmetal, brass, bronze with hard solder paste LP 5  
**Package size:** 250 g plastic bag

4



Outside Ø mm	approx. Content rings	g	No.
Hard solder rings S 2, Ø 12 mm	395	260	<b>40512</b>
Hard solder rings S 2, Ø 14 mm	268	260	<b>40514</b>
Hard solder rings S 2, Ø 15 mm	244	260	<b>40515</b>
Hard solder rings S 2, Ø 16 mm	228	260	<b>40516</b>
Hard solder rings S 2, Ø 18 mm	186	260	<b>40518</b>
Hard solder rings S 2, Ø 22 mm	106	260	<b>40522</b>
Hard solder rings S 2, Ø 28 mm	79	260	<b>40528</b>



### Hard Solder Paste LP 5

Flux for hand soldering at working temperatures above 600 °C, according to **DIN EN 1045 - FH 10, DVGW tested Reg.-No. DV-0101-AT2245**, for gas and water installations with copper pipes, recommended by DVGW in accordance with Worksheets GW 2 and GW 7, hard solders with silver content and usable with any basic materials of steel, copper and copper alloys, brass and gunmetal, working temperature range 550 °C – 800 °C, flux residues must be removed carefully

Description	g	No.
LP 5 in plastic bottle 160 g	180	<b>40500</b>



### Hard Solder Powder HKM

Flux for hard soldering at working temperatures above 800 °C, according to **DIN EN 1045 - FH 21**, working temperature 800 °C – 1,100 °C, for copper and copper alloys, brass, gunmetal, nickel silver, bronze, steel and galvanised steel, grey iron and malleable cast iron, for welding copper and brass in dry conditions, can be mixed with clean water to form a paste, flux residues must be removed carefully. Free of boric acid.

Description	g	No.
HKM in plastic bottle 160 g	180	<b>35611</b>



### Flux Brush

Description	Width mm	Length mm	g	No.
Flux Brush	13	140	20	<b>530261</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.

#### KEY FEATURES

- 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

#### TECHNICAL DATA

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

#### TECHNICAL DATA

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

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

#### TECHNICAL DATA

<b>Melting range:</b>	710 °C – 880 °C
<b>Working temperature:</b>	730 °C
<b>Joinable materials:</b>	Copper, gunmetal, brass, bronze
<b>Flux required with:</b>	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>
400 g blister	2 x 2	500	420	<b>1000000135</b>

**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>



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>

**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 2

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

#### TECHNICAL DATA

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

### 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

#### TECHNICAL DATA

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

### ROLOT® S 5

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

#### TECHNICAL DATA

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

### 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

#### TECHNICAL DATA

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



### 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

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

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

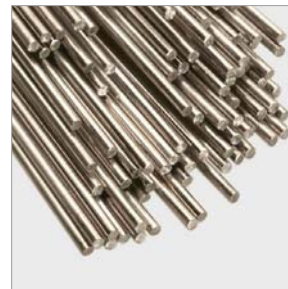
Contents	Square mm	Length mm	g	No.
1 kg carton	2 x 2	500	1,025	<b>40015</b>



### Silver Hard Solders Ag 106 S 34 Cu / S 34 Cu U flux-covered

**Free of cadmium**, quality silver hard solder **guaranteed according to DIN EN 1044**, plain (S 34 Cu) or flux-covered according to DIN EN 29454 F-SH 1 (S 34 Cu U), universal application areas for gap soldering, also for drinking water installations, heat-resistant up to 200 °C

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 33.0 – 35.0 / Cu 35.0 – 37.0 Sn 1.5 – 2.5 / Zn rest
<b>Melting range:</b>	630 °C – 730 °C
<b>Working temperature:</b>	710 °C
<b>Joinable materials:</b>	Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys
<b>Flux required:</b>	for S 34 Cu generally with hard solder paste LP 5

Contents	mm	g	S 34 No.	S 34 U No.
100 g plastic bag	2	110	<b>44910</b>	<b>44915</b>
250 g plastic bag	2	260	<b>44911</b>	<b>44916</b>
1000 g plastic bag	2	1,010	<b>44912</b>	<b>44917</b>

### Silver Hard Solders Ag 104 S 45 Cu / S 45 Cu U flux-covered

**Free of cadmium**, quality silver hard solder, **guaranteed according to DIN EN 1044**, plain (S 45 Cu) or flux-covered according to DIN EN 29454 F-SH 1 (S 45 Cu U), universal application areas for gap soldering, excluding drinking water installations, heat-resistant up to 200 °C

**Guaranteed according to DIN EN 1044!**



#### TECHNICAL DATA

<b>Alloy (weight %):</b>	Ag 44.0 – 46.0 / Cu 26.0 – 28.0 Sn 2.5 – 3.5 / Zn rest
<b>Melting range:</b>	640 °C – 680 °C
<b>Working temperature:</b>	670 °C
<b>Joinable materials:</b>	Steel, malleable cast iron, copper, gunmetal, copper and nickel alloys, stainless steel
<b>Flux required:</b>	for S 45 generally with hard solder paste LP 5

Contents	mm	g	S 45 No.	S 45 U No.
100 g plastic bag	2	110	<b>45050</b>	<b>45055</b>
250 g plastic bag	2	260	<b>45051</b>	<b>45056</b>
1000 g plastic bag	2	1,010	<b>45052</b>	<b>45057</b>



“Reliable and precise measurement results: the double valve system (TwinValve) of the RP 50 allows the self-test of the pump as well as a precise fine adjustment of pressure”





# Testing & Leak Detection

<b>Overview Testing Pumps</b>	174
<b>Testing of Water Lines &amp; Containers</b>	
Testing Pumps	175 - 177
<b>Testing of Gas &amp; Water Lines</b>	
Analogue Testing Device	178 - 179
<b>Testing of Waste Water Lines</b>	
Leakage Testing in Accordance with DIN EN 1610	180
<b>Leak Detection on Gas Lines</b>	
Leak Detection Spray	181
Leak Detection Unit	181



*Do you want to know more about our products? Please scan the QR-Code!*

# Testing & Leak Detection

## Overview Testing Pumps

up to 60 bar

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

Manual precision testing pump, 0 - 60 bar

- The classic testing pump: precise and safe
- Scaling pressure gauge 1 bar
- Scaling pressure gauge 0.1 bar expandable up to a maximum pressure of 16 bar
- Container: Steel Duramant® coated or stainless steel
- Volume: 12 l
- Weight: 8 kg

 175



5



up to 40 bar

### RP PRO III

Self-priming electrical testing pump, 0 - 40 bar

- Saves time and effort, automatic filling and testing
- Scaling pressure gauge 1 bar
- Liquid supply self-priming or using a pressure source
- Weight: 16 kg

 176



up to 30 bar

### RP 30

Manual testing pump, 0 - 30 bar

- Simple, light and handy, for all common uses in residential construction
- Scaling pressure gauge 1 bar
- Container: ABS-plastic
- Volume: 4.5 l
- Weight: 4.5 kg

 177



up to 25 bar

### TP 25

Manual testing pump, 0 - 25 bar

- Small and robust, for daily use at the building site
- Scaling pressure gauge 1 bar
- Container: Steel Duramant® coated
- Volume: 7 l
- Weight: 4,6 kg

 177



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

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

Adjustment of the pressure gauge to 0.1 bar is possible!



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

**Testing and pressure range:** 0 - 60 bar, with 1 bar steps  
0 - 860 psi, with 20 psi steps  
0 - 6 MPa, with 0.1 MPa steps

**Hub suction capacity:** approx. 45 ml / stroke

**Tank capacity:** 12 l

**Dimensions (L x W x H):** 720 x 170 x 260 mm

**Connection:** R 1/2"

**Container RP 50-S:** Steel, DURAMANT® coated

**Container RP 50-S INOX:** Stainless steel

##### Warp-resistant and lockable lever

Ergonomic handle serves as carrying grip too

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

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

##### Testing hose with steel mesh

Precise measurement

##### Weather and cold-resistant container

5 year rust-free guarantee - DURAMANT® coated

**INOX!**



No. 60203



No. 60200

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

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



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

#### ACCESSORIES

Model	kg	g	No.	Model	kg	g	No.
Maintenance package	0.1	1	<b>60201</b>	High pressure hose with 1/4"-1/2" connection	490	1	<b>R6112500</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 testing pump up to 40 bar

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

<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>	max. 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>	220 - 240 V / 50 HZ and 110 V / 50 - 60 HZ
<b>Performance:</b>	1.3 kW
<b>Container:</b>	ABS-plastic

5



#### Valve for pressure adjustment

Precise labelling on handle

#### Glycerine pressure gauge

Easy for the user to read during high dynamic alternating loads

#### Optimal weight distribution

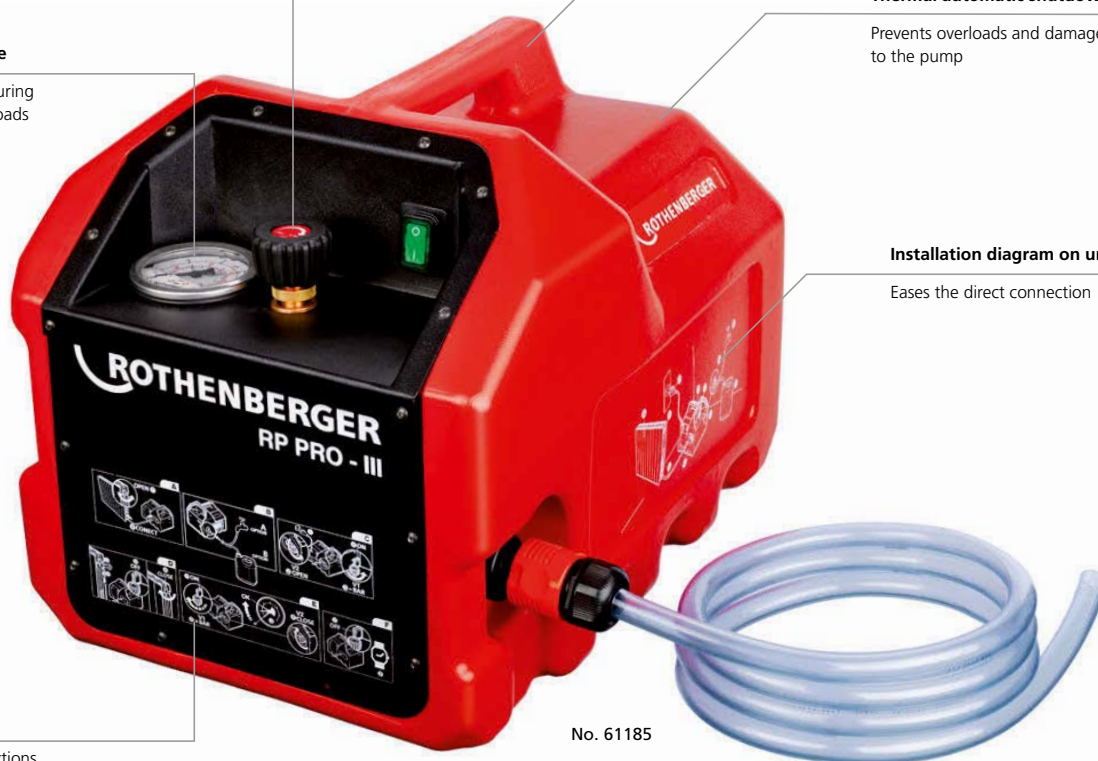
Comfortable to carry

#### Thermal automatic shutdown

Prevents overloads and damage to the pump

#### Installation diagram on unit

Eases the direct connection



#### Function Overview

Direct overview of the functions

Model	kg	110 V	220 V
Testing pump RP PRO III self-priming with power cable, high-pressure hose and 1/2" connection, filling hose	16.0	12110016	61185
Filling hose with adaptor	0.5		61001
Testing hose with R 1/2" connection	0.4	V12102000	
Extra pressure gauge	0.8		61187
Maintenance package RP PRO III in scope of delivery			61186





### TP 25

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

#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

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

#### TECHNICAL DATA

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



For the daily work on site



Model	Pressure range	kg		No.
TP 25 Testing Pump	up to 25 bar	4.6	1 4	<b>60250</b>
Maintenance package TP 25			1	<b>60251</b>

### RP 30

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

#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

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

#### TECHNICAL DATA

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



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



Model	Pressure range	kg		No.
Testing pump RP 30	up to 30 bar	4.5	1 4	<b>61130</b>
Testing hose		0.4	1	<b>R6112500</b>

# Testing & Leak Detection

## Testing of Gas & Water Lines

### ROTEST® GW 150/4

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



#### Product Profile

##### APPLICATION AREA

Analogue testing unit for the implementation of the following tests:

**Gas:** Load and leakage test for newly installed gas lines in accordance with DVGW - TRGI worksheet G600 (April 2008)

Leakage test from propane liquid gas lines / low-pressure liquid gas lines

Adjustment of the duct pressure on atmospheric burners and forced-air burners

Testing of the appliance connection pressure on gas appliances

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

##### KEY FEATURES

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

##### TECHNICAL DATA

**Pressure gauge:** 4 bar  
**Water column:** 150 mbar  
**Testing accuracy:** Water column 0.1 mbar (Reading accuracy in accordance with TRGI)  
 Pressure gauge 0.1 bar (Display range 0 - 4 bar)

5



**DVGW-TRGI / worksheet G600/April 2008 conforming!**



**Inspection glass**  
Water level control



**Legible scaling**

Continuous scaling up to 150 mbar

**Measurement chart in unit**

Testing times and testing pressure from lawmakers at a glance

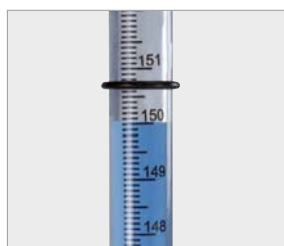
**Foam inlay**

High transport safety and protection of the components

**Compact measuring station**

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

Testing scale up to 150 mbar on transparent extending tube element



Transparent tube element with double o-ring seal



Model in combination with basic unit	kg	No.
with 5 test plugs and supply end cap (with No. 1-14, 16-17)	7.6	<b>61700</b>
with 5 test plugs without supply end cap (with No. 1-5, 7-14, 16-17)	7.3	<b>61701</b>

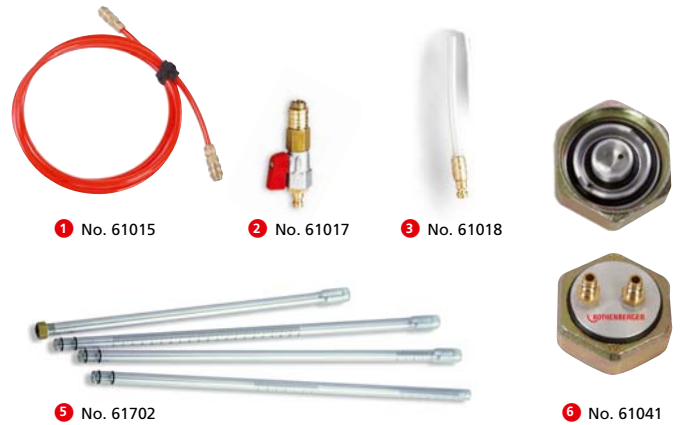
# Testing & Leak Detection

## Testing of Gas & Water lines

### Set Components

Description	ET	g	No.
Connecting hose	1	130	61015
Cut-off valve, gas	2	125	61017
Adaptor	3	10	61018
Rubber bellow	4	55	61014
Tube element, 4 piece	5	120	61702
Supply end cap	6	380	61041
Seal set	7	40	61030
Force Pump	8	500	61011
Spare manometer R 1/4"	9	75	61012
Double nipple for hose connection	10	100	H96591
Measurement fluid, blue	11	100	351257
Adaptor 1/2"		50	61067

4, 7 up to 11 without picture



1 No. 61015

2 No. 61017

3 No. 61018

5 No. 61702

6 No. 61041

### Gas Test Plug / Adaptor

Suitable for gas lines up to 1.5 bar

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.	g	No.
Conical shape with pneumatic connection					
Size 0	3/8 - 1/2"	15 - 18	12	45	351260
Size 1	1/2 - 1"	22 - 28	13	80	351261
Size 2	3/4 - 1.1/4"	35 - 42	14	125	351262
Size 3	1.1/4 - 2"	54 - 64	15	175	351263

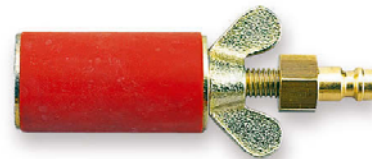
Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.	g	No.
Cylindrical shape with pneumatic connection					
Size 1	3/4"	22	16	60	351271
Size 2	1"	28	17	75	351272

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.	g	No.
Conical shape with hose coupling					
Size 0	3/8 - 1/2"	15 - 18	18	200	351220
Size 1	1/2 - 1"	22 - 28	19	300	351221
Size 2	3/4 - 1.1/4"	35 - 42	20	300	351222
Size 3	1.1/4 - 2"	54 - 64	21	400	351223

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.	g	No.
Conical shape with 2 ball valves					
Size 1	1/2 - 1"	22 - 28	22	260	351231
Size 2	3/4 - 1.1/4"	35 - 42	23	420	351232
Size 3	1.1/4 - 2"	54 - 64	24	700	351233

Model	Steel exterior pipe Ø inch	Copper exterior pipe Ø mm	Parts-No.	g	No.
Conical shape with 1 ball valve					
Size 0	3/8 - 1/2"	15 - 18	25	200	351225
Size 1	1/2 - 1"	22 - 28	26	350	351226
Size 2	3/4 - 1.1/4"	35 - 42	27	390	351227
Size 3	1.1/4 - 2"	54 - 64		600	351228

Model	Parts-No.	g	No.
With double plug valve - with hose snout			
Adaptor/cut-off valve with pn. connection	28	290	351265



5



# Testing & Leak Detection

## Testing of Waste Water Lines

### House Connection Test Set

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

Maximum operating pressure: 15 bar

Push rod length: 10 m

##### DIN EN 1610

**1.5 million km underground piping alone in Germany are waiting for testing** (Source: DWA)

A new field for certified HVAC craftsmen: The DIN EN 1610 requires leakage testing with water or air for all ground pipe no later than 2015 (varies per region)

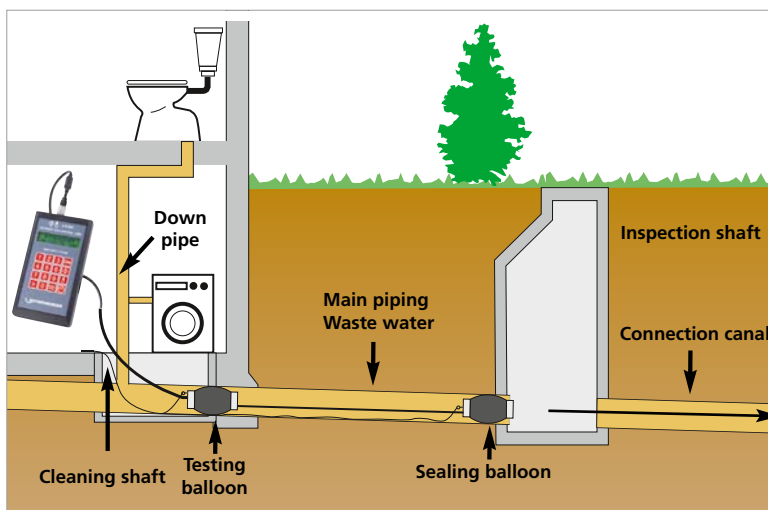


No. 61340

House connection sets in use



Connection example: House connection test set with ROTEST® GW Digital V2.3 USB



11-part House Connection Test Set (No. 61340) includes:

sealing balloon NW 75-150 (No. 61352), testing balloon NW 75-150 (No. 61359), filling hose (No. 61365), test valve, filling valve (No. 61367), push rod (No. 61380), holding rope (No. 61368), upright pump with pressure gauge (No. 61369), plastic case (No. 61370), cover (No. 91123), plastic case inlay for upright pump (No. 91122)

Model	kg	☐	No.
House Connection Test	7.8	1	<b>61340</b>

Ø Testing/Sealing balloon	Testing balloon No.	Sealing balloon No.
65 - 100	<b>61358</b>	-
75 - 150	<b>61359</b>	<b>61352</b>
90 - 250	<b>61360</b>	<b>61353</b>

### ROTEST®

Leak detection on gas lines

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

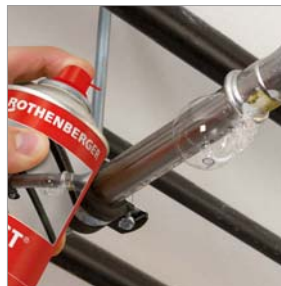
Detects gases (for example natural gas, inflammable gas, air)  
The leak detection spray is neutral against the most common inflammable gases and refrigerants. The only reaction is the building of foam

Model	Contents	g	kg	No.
ROTEST® leak detection spray	400 ml	470	1	65000
ROTEST® leak detection spray	400 ml	470	12	100000442

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



DVGW tested  
Reg.-Nr. NG-5170CL0063



### ROTEST® Electronic 3

Leak detection on gas lines

#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

**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

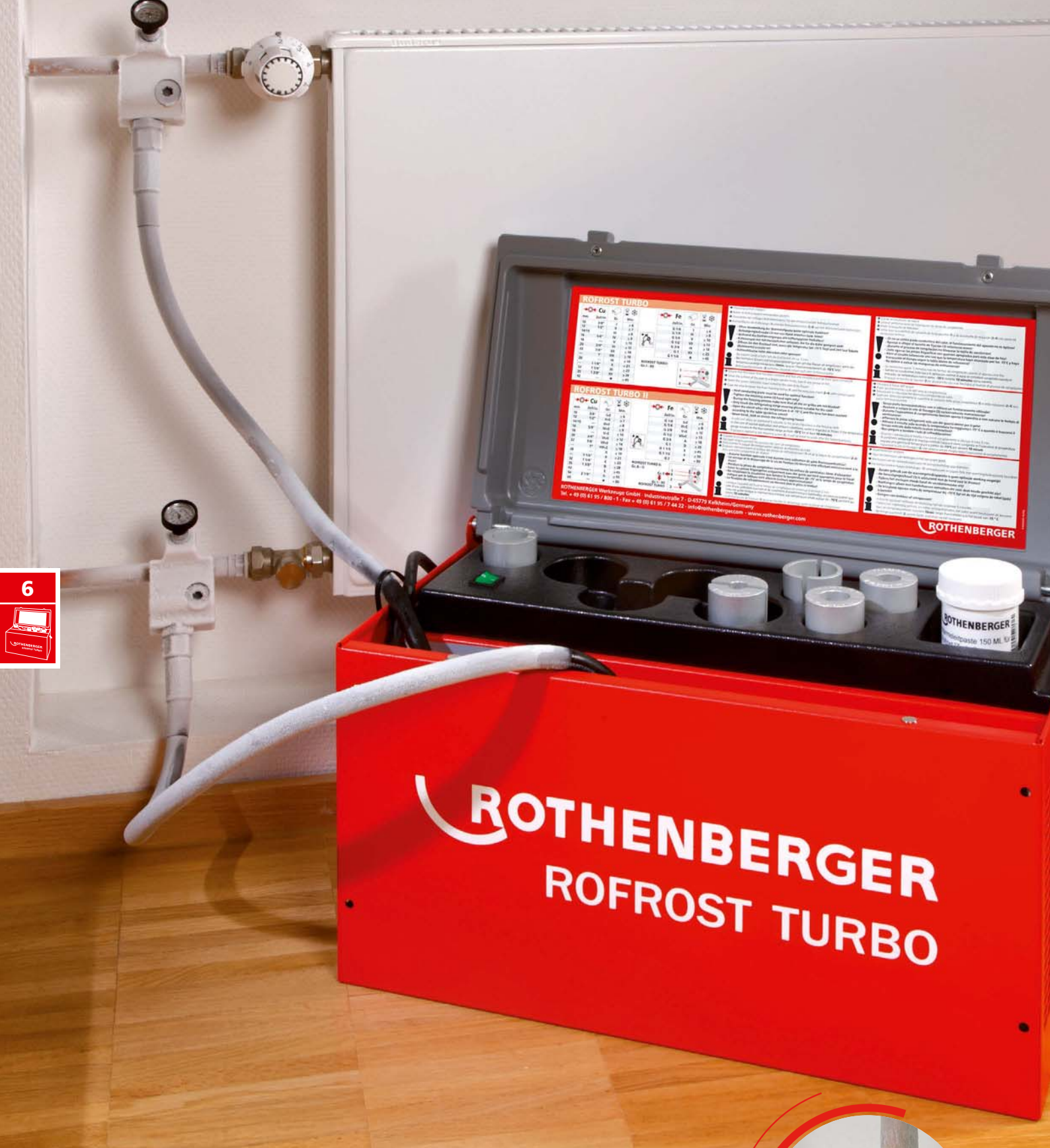


Finds leaks easily



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

Model	kg	No.
ROTEST® Electronic 3	1.5	66080



“ROFROST TURBO allows secure and rapid freezing for clean and effortless work”



# Freezing

## Freezing Electric

Pipe Freezing Systems

184 - 186

## Freezing with Gas

Pipe Freezing Systems

187



*Do you want to know more about our products? Please scan the QR-Code!*



# Freezing

## Freezing Electric

### ROFROST® TURBO 1.1/4"

Pipe freezing system for copper, steel, stainless steel and plastic composite pipes



#### Product Profile

##### APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installations

**Copper pipes:** Ø 10 - 42 mm      ROFROST® TURBO 1.1/4"  
 Ø 3/8 - 1.3/8"              ROFROST® TURBO 1.1/4"

**Steel pipes:**      Ø 1/4 - 1.1/4"      ROFROST® TURBO 1.1/4"

**Plastic pipes, as well as multi-layered composite pipes**

##### KEY FEATURES

- 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
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water



Temperature display easy to read and rotatable

Safe, controlled freezing and monitoring

**Simple and flexible use in all situations!**



Compact design

Portable use, optimal for service industry

Simple clamping system

For use even in confined spaces

For pipes with Ø 10 mm - 54 mm

Reduction inserts in various sizes



Model



230 Volt  
50/60 Hz

ROFROST® TURBO 1.1/4" with reduction inserts size I, II, III, V, VII, IX, XII (see ROFROST® reduction insert overview)  
 Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII

24.8

**62200**  
**62230**

**additional sets upon request**



### ROFROST® TURBO 2"

Pipe freezing system for copper, steel, stainless steel and plastic composite pipes



#### Product Profile

##### APPLICATION AREA

Maintenance, repair and expansion work in sanitary and heating installations

**Copper pipes:** Ø 10 - 54 mm      ROFROST® TURBO 2"  
 Ø 3/8 - 2.1/8"      ROFROST® TURBO 2"

**Steel pipes:** Ø 1/4 - 2"      ROFROST® TURBO 2"

**Plastic pipes, as well as multi-layered composite pipes**

##### KEY FEATURES

- 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
- The use of heat conductive paste guarantees an optimum icing. It prevents air pockets between the freezing clamps and pipe. The pipe does not need to be sprayed with water

#### Space requirements for freezing clamps ROFROST® TURBO 1.1/4"

A<sub>min</sub> = 27 mm  
 B<sub>min</sub> = 37 mm

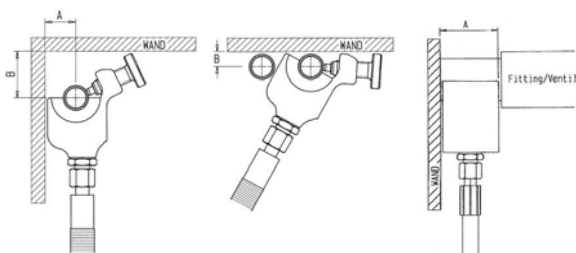
Use on vertical pipes in corners

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

Use on vertical pipes on walls

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

Use on pipes wall fitting / valve



#### Space requirements for freezing clamps ROFROST® TURBO 2"

A<sub>min</sub> = 37 mm  
 B<sub>min</sub> = 45 mm

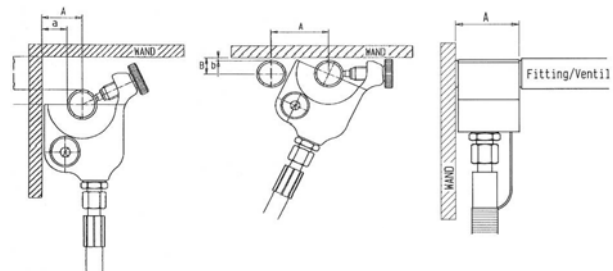
Use on vertical pipes in corners

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

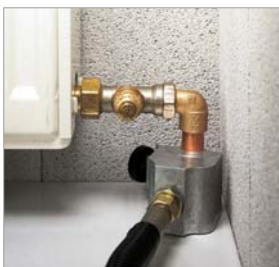
Use on vertical pipes on walls

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

Use on pipes wall fitting / valve



Excellent overall size for working close to walls or on floors



Can also be used with parallel running pipes and in confined spaces



Trouble-free use near walls, only 52 mm contact surface on pipe required



Anti-kink, diffusion proof mono-tube system with plastic capillary pipes guarantees high flexibility and uninterrupted operation



Model



230 Volt  
 50/60 Hz

ROFROST® TURBO 2" with reduction inserts size A, E, F, G (see ROFROST® reduction insert overview)	25.6	<b>62203</b>
ROFROST® TURBO 2" with reduction inserts size II, III, V, VII, A, E, F, G (see ROFROST® reduction insert overview)	25.8	<b>62206</b>
Expansion set for ROFROST® TURBO with reduction inserts size II, III, V, VII		<b>62230</b>

**additional sets upon request**



# Freezing

## Freezing Electric

### ROFROST® TURBO Reduction Inserts



6

#### ROFROST® TURBO 1.1/4"

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

#### ROFROST® TURBO 2"

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

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

### ROFROST® Heat Conductive Paste

Heat conductive paste enables fully automatic freezing without spraying!



No. 62291

For a perfect freezing result



Description	g	g	No.
ROFROST® Heat Conductive Paste	150 ml	130	1 <b>62291</b>

### ROFROST® Dry Ice Set

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

#### Product Profile

#### APPLICATION AREA

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

#### KEY FEATURES

- Flexible use, freezing possible without electricity!
- Because of the low temperature (up to -79° C) the dry ice enables a faster freezing as every other electrical freezing unit that uses refrigerant
- Piping up to 2" can be frozen with just one unit
- Freezer heads made out of extremely cold-resistant special plastic

#### TECHNICAL DATA

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

### ROFROST® Freezer Heads

Size	for Copper pipes		for Steel pipes		g	No.
	Ø mm	Ø inch	Ø inch	Ø inch		
1	10 - 12	1/2"	1/8"	60	<b>65035</b>	
2	14 - 15	-	1/4"	60	<b>65036</b>	
3	16 - 18	5/8"	3/8"	70	<b>65037</b>	
4	22	3/4 - 7/8"	1/2"	70	<b>65038</b>	
5	28	1.1/8"	3/4"	110	<b>65039</b>	

Set without carbon dioxide bottles!



Use carbon dioxide bottles only with stand pipes



Freezer Heads



Size	for Copper pipes		for Steel pipes		g	No.
	Ø mm	Ø inch	Ø inch	Ø inch		
6	35	1.3/8"	1"	110	<b>65040</b>	
7	42	1.5/8"	1.1/4"	210	<b>65041</b>	
8	-	-	1.1/2"	210	<b>65042</b>	
9	54	2.1/8"	-	250	<b>65043</b>	
10	60	-	2"	250	<b>65044</b>	

### ROFROST® Handy

The fast, portable freezing system for copper pipes Ø 15 - 28 mm and steel pipes 1/4 - 3/4"

#### Product Profile

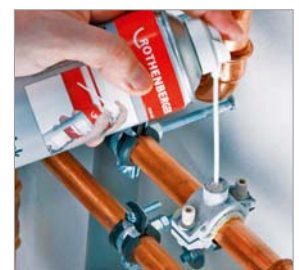
#### APPLICATION AREA

Pipe freezing system is ideally for quick repairs and small expansion tasks

#### KEY FEATURES

- Freezing is possible in the smallest spaces
- Space saving case

10-part set (No. 64020) includes: Quick Freeze freezing spray (No. 64001), Freezing head 1/4" (No. 64021), Freezing head 3/8" (No. 64022) Freezing head 1/2" (No.64023) Freezing head 3/4" (No. 64024), internal hexagonal screwdriver (No. 65046), Foam inlay (No. 64026), Plastic carrying case without inlay (No. 30898), Inlay for plastic carrying case (No. 62045), ROTHENBERGER fleece cloth (No. 93915)



Model	g	No.
ROFROST® Handy	2,400	<b>64020</b>
Quick Freeze Freezing Spray	500	<b>64001</b>



“ROSCOPE® i2000: user-friendly, thanks to an intuitive touchscreen. Images and videos can be processed and sent using an integral WiFi transmitter and the i2000 App”



# Inspection & Locating

<b>System Overview Video Inspection</b>	190 - 191
<b>Video Inspection</b>	
ROSCOPE® i2000 Overview	192 - 193
ROSCOPE® i2000 App	194
Inspection Module for ROSCOPE® i2000	195 - 196
Locating Module for ROSCOPE® i2000	197
ROCAM® Pipe Inspection Camera	198 - 200
Accessories for ROCAM® Pipe Inspection Camera	201



*Do you want to know more about our products? Please scan the QR-Code!*



# Inspection & Locating

## System Overview Video Inspection

### ROSCOPE® i2000

Modular system for inspection of pipes and hollow spaces

#### KEY FEATURES

- Photos and videos can be easily stored on the SD card
- Various modules for different pipe dimensions and cable lengths
- Module TEC and Module 25/16 have self-leveling pictures
- Module ROLOC PLUS for precise locating of the camera head



## Which ROSCOPE® system for which application area?



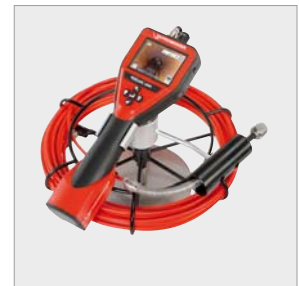
**1** **Module TEC**  
Cable length / range: 0.9 m  
Working range: hollow spaces  
Page 195



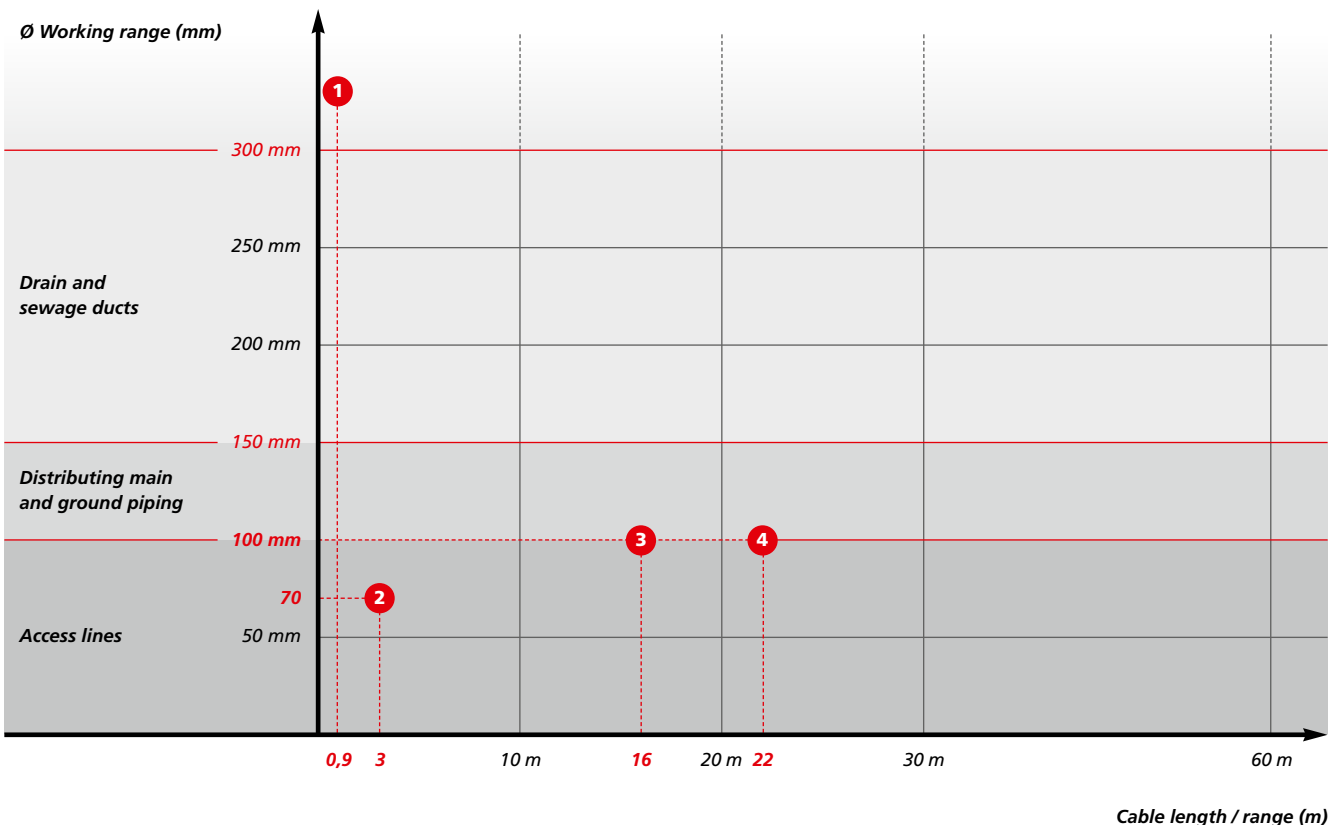
**2** **Module 20/3**  
Cable length / range: 3 m  
Working range: up to Ø 70 mm



**3** **Module 25/16**  
Cable length / range: 16 m  
Working range: up to Ø 100 mm  
Page 196



**4** **Module 25/22**  
Cable length / range: 22m  
Working range: up to Ø 100 mm  
Page 195



### ROCAM®

Camera for the inspection of pipes

#### KEY FEATURES

- Professional documentation with protocol file 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?



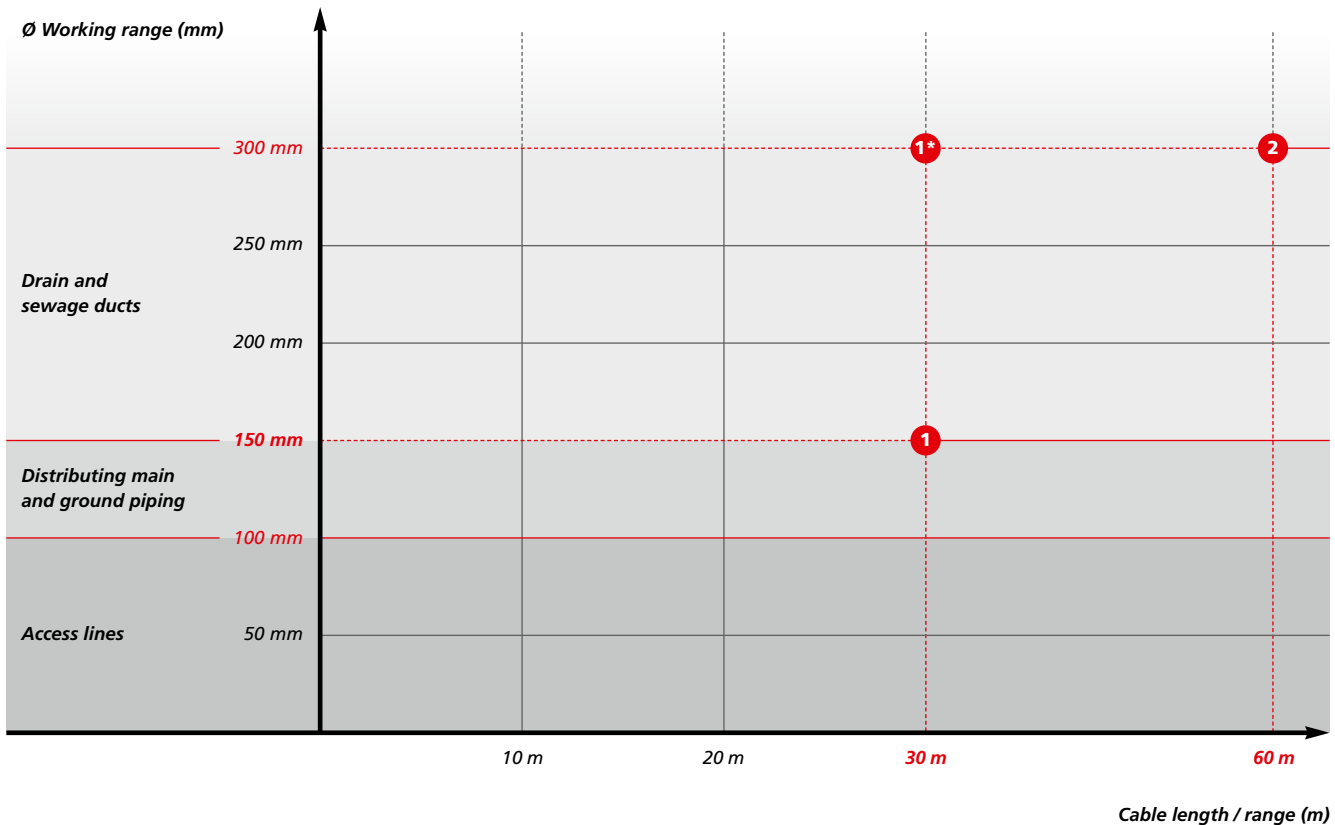
- 1** **ROCAM® 3 Multimedia**  
Cable length / range: 30 m  
Working range: up to Ø 150 mm  
(\*Can be optionally used with the SL-40 camera head up to Ø 300 mm)  
Page 198



- 2** **ROCAM® Plus**  
Cable length / range: 60 m  
Working range: up to Ø 300 mm  
Page 200



ROCAM® 3 Multimedia with removable control unit

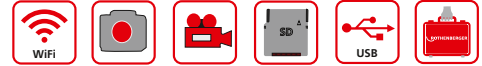


# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color)
<b>Video format:</b>	AVI
<b>Picture format:</b>	JPEG, 640 x 480 pixels
<b>Connection:</b>	Mini-USB, AV-Out, SD-card slot
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah

**Versatile and user-friendly!**

#### 3.5" Touchscreen

640 x 480 pixel resolution (JPEG)

#### Ergonomic handling

Function keys arranged closely together

#### Slip-free handle

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

#### Compatible connection

Previous ROTHENBERGER modules can be used

#### WiFi

Easy data transfer to mobile devices

#### SD-card slot

Memory space for audio, video and image data

#### Integrated microphone

#### Integrated speaker

For audio playback

#### Powerful Li-ion battery

For an extra long battery life and short charging times





### ROSCOPE® i2000 App

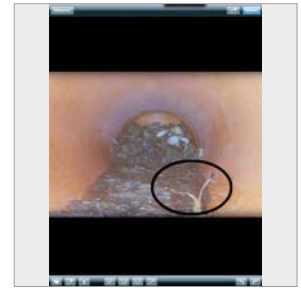
App for smartphone and tablet to edit and send recorded image data

#### APPLICATION ADVANTAGES

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



Transfer to mobile devices



Editing with the ROSCOPE® i2000 App

### For Inspection: MULTIVIEW

Modular concept for visual inspection of pipes, hollow spaces and pipes

#### KEY FEATURES

5 different modules for the ROSCOPE® i2000 basic unit

- With the Module Micro 5.5/1 you have access to the tightest spaces, for example in engine compartments
- Hollow space inspection with self-leveling picture with the Module TEC
- Inspection of pipes up to Ø 100 with Module 25/16 or 25/22
- Waterproof pipe module for pipe inspection in 90° bends from Ø 40 mm

#### Module 25/16



#### Module 25/22



#### Module 20/3



#### Module TEC



#### Module Micro 5.5/1



### For Locating: ROLOC PLUS

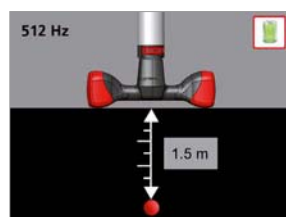
Positioning module for sondes

#### KEY FEATURES

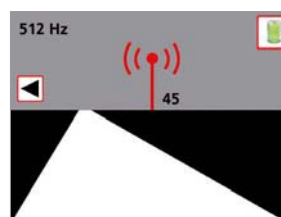
- The unit guides through the locating process reliably
- Minimises the effort needed for evacuations or locating damaged areas on the pipe with pin-point locating of the camera head
- Pin-point locating of the specific location with the depth measurement function



Camera head is 1.5 m deep



Target is right of the running direction. Correction of your direction to the right is necessary



# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000 App

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

#### Product Profile

##### APPLICATION ADVANTAGES

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

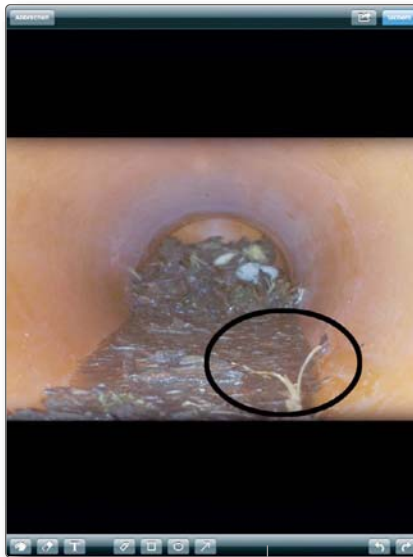
##### TECHNICAL DATA

**Compatibility:** iOS 5.1 or newer, Android 4.0 or even newer models  
**Size:** 4,1 MB

Live Image



Editing Display



Album



Album

Picture and Video Recording

Settings / Notes

Editing

Change to edit settings

- Color palette
- Pen and Rubber
- Text
- Right-angle, Circle, Arrow



Inspection of basin drains

**Available for iOS  
and Android!**

Self-leveling camera head



Inspection of hollow spaces



Camera head with high-performance LEDs



### ROSCOPE® i2000 Module TEC

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

#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color) (technical data about basic unit available on page 192)
<b>Camera head:</b>	Ø 17 mm, <b>self-leveling</b> and waterproof, with 4 LED lights
<b>Brightness:</b>	100 LUX (0.5 m)
<b>Cable length:</b>	0.9 m
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah
<b>Weight:</b>	0.9 kg

Scope of delivery ROSCOPE® i2000 Module TEC (No. 1500000696):  
ROSCOPE® i2000 basic unit, Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module TEC	1	<b>1500000696</b>
Module TEC (without basic unit)	1	<b>69601</b>
Extension TEC 1.8 m	1	<b>1500000010</b>
Set (hook, magnet, mirror)	1	<b>69615</b>
Module 20/3	1	<b>69385</b>
Module Micro 5.5/1	1	<b>69376</b>

**22 m long cable!**



Inspection of rain downpipes



Inspection from floor drains



### ROSCOPE® i2000 Module 25/22

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

#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color) (technical data about basic unit available on page 192)
<b>Camera head:</b>	Ø 25 mm, waterproof, with 8 LED lights
<b>Brightness:</b>	100 LUX (0.5 m)
<b>Cable length:</b>	22 m
<b>Cable diameter:</b>	5.5 mm
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah
<b>Weight:</b>	3.1 kg

Scope of delivery ROSCOPE® i2000 Module 25/22 (No. 1000000860):  
ROSCOPE® i2000 basic unit, Module 25/22, Module TEC, charger, plastic carrying case

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



# Inspection & Locating

## Video Inspection

### ROSCOPE® i2000 Module 25/16

High-performance camera for the inspection of pipes from Ø 50 up to 100 mm. With an integrated transmitter for the precise locating of the camera head.



#### Product Profile

##### KEY FEATURES

- Recording and playback of the inspection on video (AVI) or photo (JPEG)
- Extremely flexible camera head for 90° bends starting from Ø 50 mm
- Can be used with guide skid up to Ø 100 mm
- Self-leveling picture
- Integrated transmitter for the precise locating of the camera head
- ROSCOPE® i2000 basic unit can also be used as control unit for the ROLOC PLUS locating module

##### TECHNICAL DATA

<b>Display:</b>	3.5" Touchscreen (color) (technical data about basic unit available on page 192)
<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

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

#### WiFi

Easy data transfer to mobile devices

#### Integrated transmitter

For the precise locating of the camera head

#### Self-leveling camera head

Picture is always upright, no loss of orientation

#### 3.5" Touchscreen

640 x 480 pixel resolution (JPEG)

#### Battery compartment

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

#### Rubberized base

Stable stand without slipping and damaging the surface

#### Inspection of access line



#### Inspection of rain drainpipes



#### Guide skid for Module 25/16 and 25/22

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



No. 74629

Scope of delivery ROSCOPE® i2000 Module 25/16 (No. 100000842): ROSCOPE® i2000 basic unit, Module 25/16, Module TEC, charger, plastic carrying case

Model		No.
ROSCOPE® i2000 Module 25/16 + Module TEC	1	<b>100000842</b>
Module 25/16 (without basic unit)	1	<b>150000052</b>
Guide skid for Module 25/16 and 25/22	1	<b>74629</b>

### ROSCOPE® i2000 Module ROLOC PLUS

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

#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

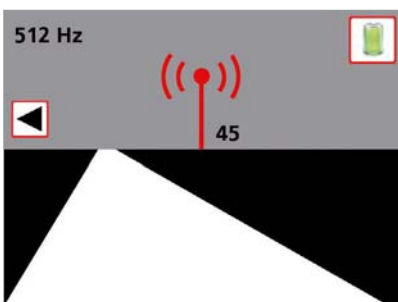
<b>Display:</b>	3.5" Touchscreen (color) (technical data about basic unit available on page 188)
<b>Frequencies:</b>	512 and 650 Hz, 33 kHz active/passive, 50/60 Hz passive
<b>Power supply:</b>	Li-ion battery 3.7 V / 4.2 Ah
<b>Dimensions:</b>	95 x 32 x 30 cm (operating mode) 67 x 32 x 9 (transportation mode)
<b>Weight:</b>	1.4 kg



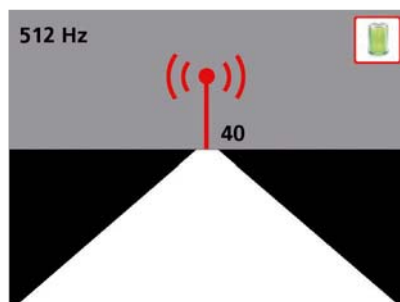
Scope of delivery ROSCOPE® i2000 Module ROLOC PLUS (No. 100000065): ROSCOPE® i2000 basic unit, Module ROLOC PLUS; Module TEC, charger, plastic carrying case

Model	☞	No.
ROSCOPE® i2000 Module ROLOC PLUS + Module TEC	1	<b>1000000861</b>
Module ROLOC PLUS (without basic unit i2000)	1	<b>1500000057</b>

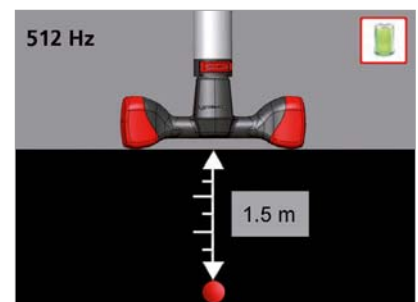
Target is right of the running direction. Correction of your direction to the right is necessary



Target is in the running direction. No correction is necessary



Depth measurement with a push of the button



Locating module is included with the ROSCOPE® i2000 basic unit!

Also for use with ROCAM® 3 multimedia

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

7



# Inspection & Locating

## Video Inspection

### ROCAM® 3 Multimedia

Inspection camera for pipes from Ø 70 up to 150 mm and/or from Ø 150 up to 300 mm. With integrated transmitter for the precise locating of the camera head

#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

<b>Display:</b>	10.4" TFT LCD colour display, removable
<b>Camera head:</b>	Ø 30 mm (standard) with 25 LED lights, Ø 40 mm (optional) with 36 LED lights, <b>self-leveling</b> and waterproof
<b>Brightness:</b>	175 LUX (0.5 m), camera head Ø 30 mm 666 LUX (0.5 m), camera head Ø 40 mm
<b>Cable length:</b>	30 m
<b>Cable diameter:</b>	7 mm
<b>Power supply:</b>	NiMH battery 12 V / 6 Ah
<b>Weight:</b>	18 kg

**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 30 mm	1500000118
ROCAM® 3 Multimedia 40 mm	1500000276

### Removable control unit

#### Makes working in tight spaces easier

- The camera base does not need to be near the user since all of the control elements such as recording, playback or LED regulation are integrated in the compact control unit
- Photos and videos of the inspection can be saved on the USB stick and immediately played back with just a push of a button
- The 10.4" TFT LCD colour display offers optimum conditions for a quick and simple analysis of the observations

ROCAM® 3 Multimedia with removable control unit



### ROCAM® Camera Heads

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

#### Product Profile

##### KEY FEATURES

###### Excellent brightness:

- The ROCAM® camera head Ø 30 mm has over 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 toolless exchange of the camera heads
- No burden from electrical connections

###### High flexibility and resistant:

- Flexible spring provides 90° curveability in pipes up to Ø 70 mm when enough stability is provided
- Pressure tight up to 3 bar with the stainless steel casing
- Scratch and impact resistant with the sapphire glass objective

##### KEY FEATURES

###### Mountable transmitter:

- Optional 33 kHz transmitter can be used to determine the length of the camera head (90° from Ø 70)
- In small pipe diameters the transmitter can also be used without the camera head to determine the course of the pipe without a visual inspection

##### TECHNICAL DATA

<b>Camera head:</b>	Ø 30 mm with 25 LED lights Ø 40 mm with 36 LED lights <b>self-leveling</b> and waterproof
<b>Brightness:</b>	175 LUX (0.5 m), camera head Ø 30 mm 666 LUX (0.5 m), camera head Ø 40 mm

7



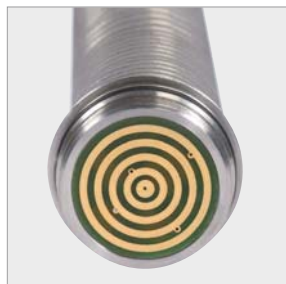
Model	No.
Camera head Ø 30 mm	1500000123
Camera head Ø 40 mm	1500000122

**Always an upright picture!**

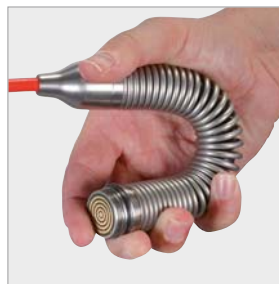
Excellent illumination



Pressure tight screw slip-ring connection



High flexibility and durability



Mountable transmitter



# Inspection & Locating

## Video Inspection

### ROCAM® Plus

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

- 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

##### KEY FEATURES

- For the documentation of the inspection on video
- Direct data exchange with laptop / PC, etc., possible

##### TECHNICAL DATA

<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 starting at 20 kg
<b>Weight:</b>	

#### 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



\*69740 and 69840

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



**Rolling Skids**

Recommended for distances from 30 m

**APPLICATION AREA**

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

**KEY FEATURES**

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



No. 69118

No. 69119

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

**Brush Attachments**

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

**APPLICATION AREA**

Brush attachment Ø 100 for use in pipe Ø 100 - 150 mm  
Brush attachment Ø 150 for use in pipe Ø 150 - 200 mm

**KEY FEATURES**

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



Brush attachment spiral feather (rear)

Brush attachment camera head (front)

\*Use with guide skid No. 69112 / 1500000817

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

**APPLICATION AREA**

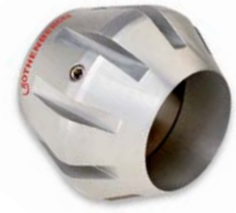
Guide skid for pipe diameters Ø 70 - 150 mm  
Guide skid with brush attachment for pipe diameters Ø 70 - 200 mm

**KEY FEATURES**

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



No. 69112 / 1500000817



No. 69111 / 1500000120

Model			No.
<b>For camera heads Ø 30 mm:</b>			
Guide skid for Ø 150 mm	200	1	<b>1500000120</b>
Guide skid for brush attachments	200	1	<b>1500000817</b>
<b>For camera heads Ø 40 mm:</b>			
Guide skid for Ø 200 mm	200	1	<b>69111</b>
Guide skid for brush attachments	200	1	<b>69112</b>

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

**KEY FEATURES**

- Extend the mobile operation spare battery
- No unintentional release of the battery, battery lock with click mechanism
- External battery charger, independent charging of the battery, higher mobility

**TECHNICAL DATA**

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



No. 69570



No. 69575

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>





"R 600: Professional pipe cleaning machines for working in the servicing area, in hospitals and in community facilities have proven themselves for decades"





# Flushing & Pipe Cleaning

- Flushing**
  - Flushing Compressor 204
  - Cleaning Chemicals 205
- Decalcifying**
  - Decalcifying Pumps 206 - 207
  - Decalcifying Chemicals 207
- Pipe Cleaning Manual**
  - Pipe and Drain Cleaning Units 208 - 210
- Pipe Cleaning Electric**
  - Manual Pipe and Drain Cleaning Machines 211
  - Sectional Drain Cleaning Machines 212 - 215
  - High Performance Drum Machine 216
  - Pipe & Sewer Cleaning Machines 217
  - Accessories Pipe Cleaning Electric 218 - 219
- Pipe Cleaning Spirals**
  - Spirals 220 - 221
- Drain Cleaning Tools**
  - Heads & Augers 222 - 226
  - Tool & Spiral Sets 227 - 228
  - Accessories Pipe Cleaning Spirals 229
- High Pressure Drain Cleaning**
  - High Pressure Drain Cleaners 230 - 232
  - High Pressure Cleaning Units 233 - 236
  - Accessories High Pressure Pipe Cleaning 237 - 239



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# Flushing & Pipe Cleaning

## Flushing

### ROPULS Flushing Compressor

For scouring and cleaning of heating systems and flushing of drinking water pipes according to EN 806 / DIN 1988-2



#### Product Profile

##### KEY FEATURES

- One Unit - three uses for safety and energy efficiency:  
Flushing of floor heating systems / heating circuits  
Flushing of drinking water pipes as per DIN 1988-2  
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

##### TECHNICAL DATA

<b>Pipe connection:</b>	R 1" Geka coupling
<b>Max. pipe diameter:</b>	DN 50 / 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>	1.5 kW
<b>Power supply:</b>	230 V - 50 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 regarding drinking water installations

**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	<b>1000000145</b>

### 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 constantly 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

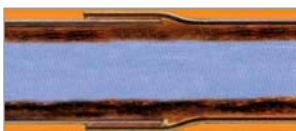


### Cleaning and Preservation with ROPULS ROCLEAN®

#### 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.



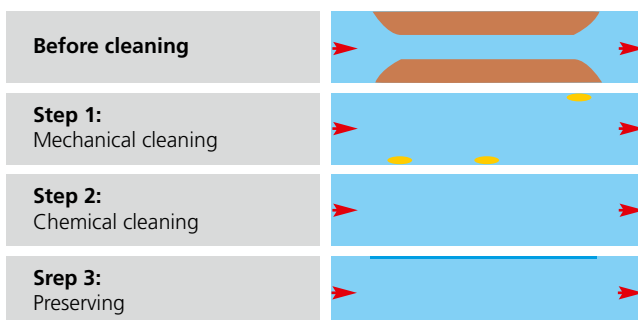
#### Disinfection of drinking water systems



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



#### Cleaning and preservation steps:



Description	Colour Code	kg	⊞	No.
ROCLEAN® injector		1.1	1	<b>100000190</b>
Pressure regulator 2 bar		0.3	1	<b>150000203</b>
<b>Chemical cleaning:</b>				
– Radiator heating systems	●	6.3	6	<b>150000200</b>
– Surface heating systems	●	6.3	6	<b>150000201</b>
Preservative	●	6.3	6	<b>150000202</b>
Disinfection	●	6.3	6	<b>150000157</b>

# Flushing & Pipe Cleaning

## Decalcifying

### ROCAL 20 / ROMATIC 20

Decalcifying pump with flow direction change



#### Product Profile

##### RANGE OF USE

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

##### KEY FEATURES

- 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
- Constant circulation of the decalcifying chemical prevents damage that can be caused by the development of gas during decalcification

#### TECHNICAL DATA

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

Automatic flow reversal!



Fig. ROCAL 20

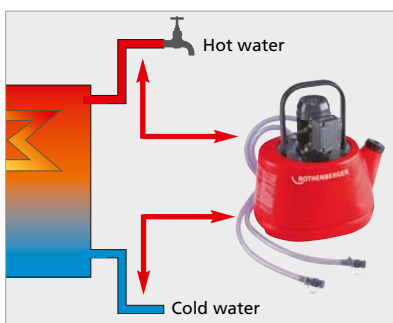


Fig. ROMATIC 20

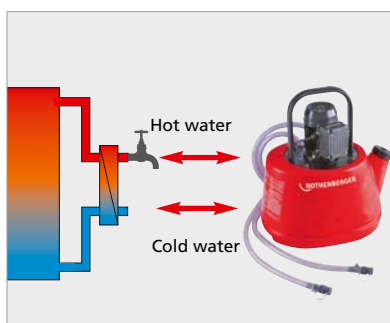


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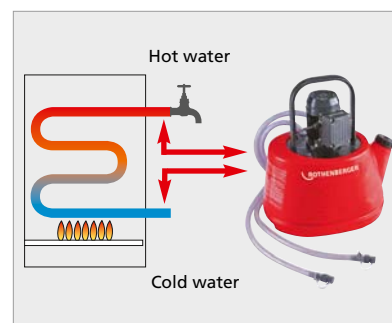
Decalcifying of drinking water storage tanks



Decalcifying of fresh water stations and external heat exchangers



Decalcifying of heat exchangers, water heaters or drinking water pipes



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

### ROCAL Acid Multi / Plus

Decalcifying chemical for use with ROCAL 20, ROMATIC 20

#### RANGE OF USE

##### ROCAL Acid Multi

For the safe decalcification of all common\* piping systems, heat exchangers, fresh water stations and water tanks

##### ROCAL Acid Plus

For strong calcifications and scale build-up. Only suitable for technical systems. Not suitable for drinking water pipes.

#### KEY FEATURES

- With 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

\*please see table below



	ROCAL Acid Multi	ROCAL Acid Plus
Copper	●	●
Steel	●	●
Stainless steel	●	○
Aluminium	●	○
Brase	●	○
Plastic	●	○

● suitable ○ unsuitable

### ROSOLAR PUMP / ROSOLAR PUMP PLUS

Solar filling pump

#### KEY FEATURES

- A powerful centrifugal pump for rapid filling and effective flushing out and ventilation of solar plant
- Optional: robust and heat resistant (up to 90°C) Impeller pump: small particles of solid materials are also conveyed without difficulty. Fitted with a pressure relief valve
- Heat resistant hoses (up to 100°C) allow safe filling and maintenance of solar plant
- A height-adjustable (76-110 cm) telescopic grip for space-saving storage, simple transport and good handling in tight cellars
- Well thought-through handling: the canister can easily be filled through the large opening. The shut-off valve in the bottom allows simple/uncomplicated emptying of the whole container

#### TECHNICAL DATA

<b>Dimensions ( H x B x T ):</b>	49 x 51 x 76 cm
<b>Container volumes:</b>	30 l
<b>Hoses:</b>	Length: 2 x 3 m Connections: 1/2" Heat resistant: up to 100°C

Description	No.
ROSOLAR PUMP (with centrifugal pump)	1500000135
ROSOLAR PUMP PLUS (with impeller pump)	1500000136

### Neutralizer Powder

Neutralizes ROCAL Acid Plus / ROCAL Acid Multi

#### RANGE OF USE

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

- 30 g per 1 l of water
- 300 g per 10 l of water



No. 61115

No. 61120

Description	kg	1	4	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	25	1		1500000914
Neutralizer powder	1	1	5	61115
Neutralizer powder	10	1	2	61120

Height-adjustable telescopic grip (76 - 110 cm)

Small and flexible as required

Heat resistant hoses (up to 100°C)

Safe working – also when servicing solar plant

Optional: impeller pump

Small particles of solid materials are also conveyed without difficulty

A dirt filter with sight glass

Filters residues out of the medium



# 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

**Quick – Compact – Handy!**

#### Product Profile

##### KEY FEATURES

- 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 power with the silicon sealing lip and single-cast main body

##### KEY FEATURES

- Simple handling with the perfect adaption an the drain, simple to use, with ergonomic formed components



**Short and long Adaptor included in scope of delivery!**



Adaptor wide  
No. 72073



Adaptor long  
No. 72071

Short adaptor



Long adaptor



Model	kg	g	No.
ROPUMP® SUPER PLUS with 2 Adaptors (long, short)	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>72073</b>

### ROPUMP®

Force pump cleaner according to the air-pump principle with water pressure



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

#### Product Profile

##### KEY FEATURES

- Small and handy
- Compact and effective

Model	kg	g	No.
ROPUMP® with flexible socket	500	1	<b>71991</b>



### ROSPI® H+E PLUS

#### Professional manual and electrical drain cleaning unit

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

#### Product Profile

##### KEY FEATURES

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

##### TECHNICAL DATA

**Range of use:** 20 - 50 mm  
**Spiral:** Ø 8 mm x 7.5 m

#### Ergonomic handle with soft grip inlay

Safe grip and operation even at high speed

#### Spiral lock with flexible spiral and incorporated bulb head auger

Removes dirt in hard-to-reach spaces

#### Closed plastic spiral container

Clean use and sturdy construction

#### Hexagonal bolt

For conventional power drills



#### Knurled screw, change without tools

Switch from manual to electrical use within seconds



#### Electrical operation with cordless drill



#### Manual operation



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>

For spare spirals see 229

# Flushing & Pipe Cleaning

## Pipe Cleaning Manual & Electric

### ROPOWER® HANDY

#### Manual drain cleaning unit, Ø 50 - 100 mm

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

#### KEY FEATURES

- Additional spiral cleaning effects with the use of a square spiral



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

Model	kg		No.
ROPOWER® HANDY complete	1.7	1	<b>71975</b>
ACCESSORIES			
Manual crank	0.4	1	<b>71976</b>
ROPOWER® PROFILE CABLE w/o 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

#### KEY FEATURES

- **Flexible use with a wide range of applications**  
For use with all ROTHENBERGER drain cleaning tools with 16 mm couplings
- **Cleaning unit with stand**  
Secure use
- **Plastic spiral drum**  
Corrosion-proof and impact-resistant



Set includes (No. 72003): Manual drain cleaner Type 3 S (No. 72003), spirals Ø 13 mm x 15 m (No. 72016), cross-blade cutter Ø 35 mm (No. 72176) and separating pin (No. 72100)

Model	kg		No.
Manual drain cleaner Type 3 S, complete	17.50	1	<b>72003</b>
Spare spiral Ø 13 mm x 15 m	7.00	1	<b>72016</b>
Cross-blade cutter Ø 35 mm	0.04	1	<b>72176</b>
Separating pin	0.01	1	<b>72100</b>

Further Ø 16 mm tools can be found on 222

### WC-BLITZ RO-3 Toilet Auger

#### KEY FEATURES

- **Flexible use even in hard-to-reach places**  
With tough cleaning bulb auger. Extendable handle and 1 m spiral length, Ø 1/2"
- **No damage to ceramic surfaces**  
Angle made out of plastic

#### Angle with plastic protection

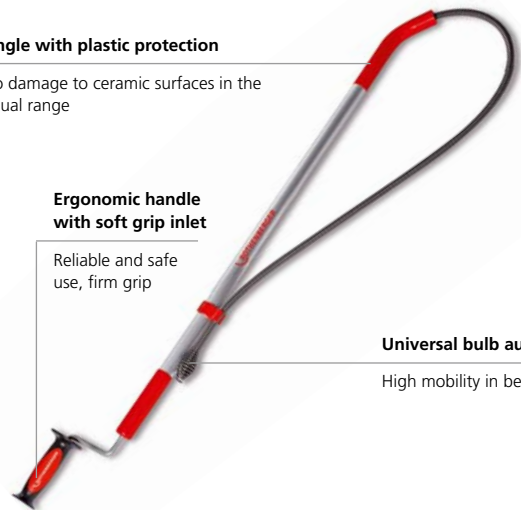
No damage to ceramic surfaces in the visual range

#### Ergonomic handle with soft grip inlet

Reliable and safe use, firm grip

#### Universal bulb auger

High mobility in bends



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

### ROSPI® R 36 Plus

#### Electrical drain cleaning unit, battery-powered or standard, Ø 20 - 75 mm

Ideal for small jobs in the kitchen, bathroom or toilet



#### KEY FEATURES

- **Clean use and sturdy construction**  
Closed plastic container for spiral, impact-resistant and crack-proof
- **Safe grip and operation even at high speed**  
Extra long handle with soft grip inlay

#### TECHNICAL DATA

<b>For pipes:</b>	Ø 20 - 75 mm
<b>Spirals:</b>	Ø 8 mm x 7.5 m (Standard) & Ø 10 mm x 7.5 m
<b>Operating time:</b>	1 hour
<b>Charging time:</b>	1 hour



No. 72520

Model	kg		No.
ROSPI® R 36 Plus 18 V battery version	6.6	1	<b>72520</b>
Spare high-performance battery	0.7	1	<b>72516</b>
ROSPI® R 36 Plus standard version	4.7	1	<b>72525</b>
Battery charger unit + AC adaptor	1.0	1	<b>72513</b>

For spare spirals see 229





### ROSPIMATIC

Electrical pipe and drain cleaning machine up to Ø 50 mm

Powerful and quick removal of tough obstructions in access lines with the one-of-a-kind spiral forward and reverse system without changing the rotational direction

#### Product Profile

##### KEY FEATURES

- Switch between forward and reverse under full-load without the need to change the motor rotational direction is possible, which makes obstruction removal faster
- The spiral drive can be combined with 3 different cleaning tools, more efficient operation
- Spiral locking mechanism with torque control enables an optimal reverse of the spiral
- Enclosed spiral container prevents contamination by reversal of the spiral
- The flexible ceramic protective hose prevents unwanted damage and scratches on high-quality ceramic

##### TECHNICAL DATA

<b>Application range:</b>	20 - 50 mm
<b>Spiral with inner-core &amp; Bulb auger:</b>	Ø 8 mm x 7.5 m
<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

Quick and comfortable switching between forward and reverse under full-load is possible

#### Locking knob with torque control

No crushing of the spiral (longer service life)



#### Removal of the obstruction

Spiral can be combined with 3 different pipe cleaning tools (accessories, retrofittable)

#### Electronic speed control

Optimal pipe cleaning results

#### With bulb-auger



#### With coupling for various tools



#### With flexible guide hose



Set (No. 72942) includes: blade cutter (No. 72764), cross-blade cutter (No. 72765), ball head cutter (No. 72766), separating pin (No. 72102)

Model		No.
ROSPIMATIC incl. 8 mm / 7.5 m spiral, 230 V	1	<b>78576</b>
Spiral 8 mm / 7.5 m with steel core	1	<b>72413</b>
Spiral 8 mm / 7.5 m with coupling and core	1	<b>72425</b>
Tool set (4 piece)	1	<b>72942</b>
ROSPIMATIC protective hose with cover	1	<b>72542</b>

#### Fast removal of obstructions



For additional accessories see 218

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### Powerful ROTHENBERGER Portable Machines for the Professional



#### Product Profile

#### SYSTEM CHARACTERISTICS FOR ALL PORTABLE MACHINES

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

#### CENTRE-LOCK jaw clamp system

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

#### 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

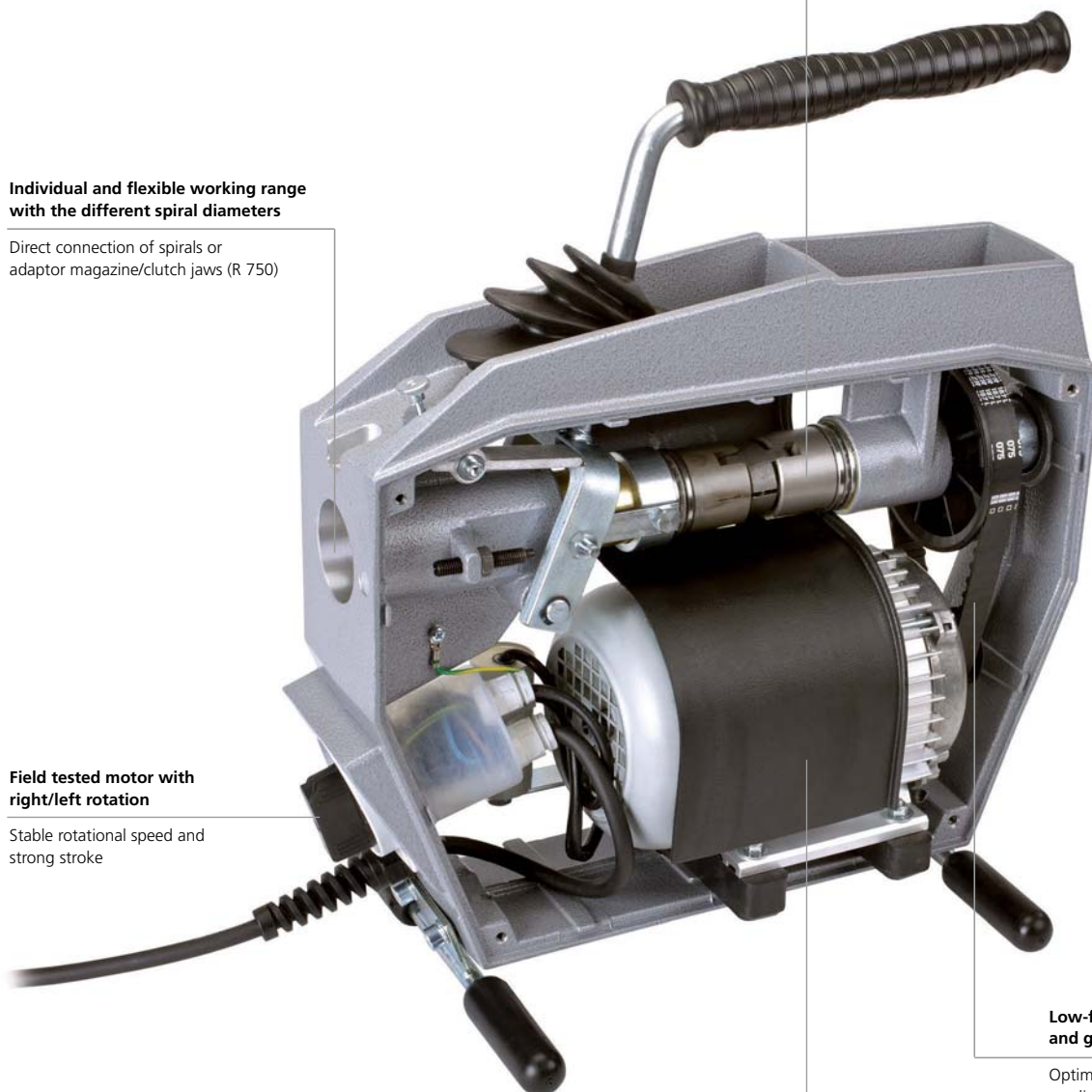
Stable rotational speed and strong stroke

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

Optimum force transmission and no slipping of the drive shaft

#### Noise suppression and protected from splash water per IP 44

Safe use



8



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

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




Please pay attention to system characteristics / advantages on pages 216/217!



Model		230 V	110/115 V
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R 550 including guide hose	16.0	<b>72686</b>	<b>72631</b>
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Tool sets and accessories starting on  218

### R 550

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

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

#### Product Profile

##### APPLICATION AREA

##### Especially light, compact and handy design:

Ideal for the universal service use by pipe obstructions in connecting pipes from wash basins, toilets, sewage pipes, floor drains and roof drainage

##### KEY FEATURES

- Extremely light
- Direct attachment of 16 mm spirals
- Optional Ø 8 and 10 mm with adaptor magazine possible
- Maximum working length 40 m, with Ø 16 mm S-spiral

##### TECHNICAL DATA


<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

8



Model		230 V	110/115 V
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R 600 including guide hose	20.9	<b>72687</b>	<b>72632</b>
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Tool sets and accessories starting on  218

### R 600

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For installation and maintenance work in hospitals and municipal facilities

#### Product Profile

##### APPLICATION AREA

##### Universal use both indoors and outdoors:

The powerful motor works reliably even against stubborn obstructions. A wide range of accessories is available

##### KEY FEATURES

- Direct up take 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

##### TECHNICAL DATA

<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

Please pay attention to system characteristics / advantages on pages 216/217

# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 650

#### Drain cleaning machine for pipe Ø 20 - 150 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### Product Profile

##### APPLICATION AREA

**Perfectly suited for rough use and in extreme working conditions:** Quiet operation and powerful cleaning action, even when cutting through roots or grinding out cement and lime deposits

##### KEY FEATURES

- 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

##### TECHNICAL DATA

<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



Drive lever can be fitted on the side  
Flexible use

Model		230 V	110/115 V
R 650 including guide hose	22.8	<b>72688</b>	<b>72633</b>
Tool sets and accessories starting on  218			

### R 750

#### Drain cleaning machine for pipe Ø 20 - 200 mm

For professional mobile drain cleaning. Compact, robust and powerful, even by the toughest pipe obstructions

#### Product Profile

##### APPLICATION AREA

**Perfectly suited for the cleaning of domestic connections and main pipes:** Quiet operation and powerful cleaning action. Usable for such as chain spinning, grinding and cutting roots

##### KEY FEATURES

- Drive lever can be rotated (180°), locked and used as a handle for easy wheeling
- Direct up take of 32 mm and 22 mm
- Optional Ø 16 mm with clutch jaw possible
- Maximum working length 70 m, with Ø 22 mm S-spirals

##### TECHNICAL DATA

<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



Full rubber transport wheels  
Comfortable transport, high mobility and a secure stand

Model		230 V	110/115 V
R 750 including guide hose	33.5	<b>72689</b>	<b>72634</b>
Tool sets and accessories starting on  218			



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### ROSPEED 3F

High-performance pipe cleaning innovation for pipes  
 Ø 50 - 125 mm, automatic spiral feed.  
 Ideal for use inside buildings



#### Product Profile

##### APPLICATION AREA

By return of the spiral, the pipe contamination stays in the drum unlike the sectional machines. That is why this unit is ideally suited use by HVAC professionals, for example, for in private homes, hospitals and clinics, gastronomy and hotels, schools and nursing homes, facility management and other public buildings

##### KEY FEATURES

- The unit can be used immediately
- Easy and comfortable handling with the automatic feed
- Clean and discrete use
- Clear controls

##### KEY FEATURES

- 3F – three functions in one unit:
  1. Scrubbing
  2. Pulsating
  3. Final cleaning
- Simple cleaning of the drum with, for example, a steam cleaner

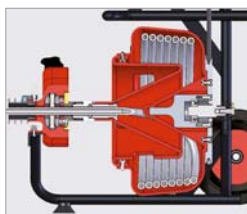
##### TECHNICAL DATA

**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



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



ATC- Automatic Torque Control –  
 One-of-a-kind automatic rpm  
 control protects spiral and motor!

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



Included in delivery

Model	kg	⊞	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>



# Flushing & Pipe Cleaning

## Pipe Cleaning Electric

### R 80

One-man professional machine for pipes Ø 50 - 250 mm

#### KEY FEATURES

- Small, compact design permits the machine to pass through doorways
- Portable and easy to navigate stairs
- Transports easily in any service vehicle, collapsible
- Ideal for manhole inspections through defined working height
- Fatigue-free clamping when working with large spiral diameters and lengths
- Integrated, spacious toolbox



#### TECHNICAL DATA

<b>For pipe diameters:</b>	Ø 50 - 250 mm
<b>For drain cleaning spirals:</b>	Ø 22 and 32 mm
<b>Max. working length:</b>	80 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals
<b>Rating:</b>	1.4 kW (1.9 HP) RH / LH rotation
<b>Weight:</b>	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	230 V / 50 Hz
R 80 basic machine	52.0 <b>72585</b>

### R 100 SP

One-man professional machine for pipes Ø 50 - 250 mm

#### KEY FEATURES

- Ideal for confined spaces such as skylights or ducts
- Portable and easy to navigate stairs
- Adjustable working heights, foldable
- Extendable supporting feet
- Transports easily in any service vehicle

#### TECHNICAL DATA

<b>For pipe diameters:</b>	Ø 50 - 250 mm
<b>For drain cleaning spirals:</b>	Ø 22 and 32 mm
<b>Max. working length:</b>	100 m with Ø 32 mm S-spirals 70 m with Ø 22 mm S-spirals
<b>Rating:</b>	1.4 kW (1.9 HP) RH / LH rotation
<b>Weight:</b>	57 kg



Includes: Basic machine, grease gun (No. 855156), Allen key (No. 321515), open-ended spanners (No. 310450)

Model	230 V / 50 Hz
R 100 SP basic machine	57.0 <b>72610</b>

### R 140 B

For municipal and industrial applications Ø 100 - 600 mm

#### KEY FEATURES

- Effortless conversion from spiral to rodding operation  
Working range from Ø 100 - 250 mm with 32 mm spirals  
Working range from Ø 150 - 600 mm with bar
- Petrol engine, independent from electric power supply
- Ideal for rodding work in rural area pipes
- Extremely powerful reversible drive
- 1 forward and 1 reverse gear
- Speed controlled by means of a manual throttle
- Manual slip clutch
- With quick-change couplings for rodding tools

#### TECHNICAL DATA

<b>For pipe diameters:</b>	Ø 100 - 600 mm
<b>For drain cleaning spirals:</b>	Ø 32 mm
<b>For rods:</b>	Ø 6 mm, 3/4"
<b>Max. working length:</b>	100 m with 32 mm-spirals 140 m with rod
<b>Rating:</b>	4.8 kW (6.6 HPS), petrol engine
<b>Motor:</b>	RH / LH rotation
<b>2 gear reversible drive speed:</b>	160 - 600 min <sup>-1</sup>
<b>Weight:</b>	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. 72325), spiral sawtooth cutter Ø 65 mm (No. 72329), 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	No.
R 140 B basic machine	97.00 <b>72970</b>
R 140 B with rod and tool set	108.50 <b>72971</b>

# Flushing & Pipe Cleaning

## Accessories Pipe Cleaning Electric



No. 72538



No. 72536



No. 72638



No. 72666



No. 72563

### Clutch Jaws

For machine type	For spirals Ø	kg	No.
<b>R 550</b> (from Serial No. 411542)	16 mm	0.1	<b>72538</b>
(up to Serial No. 411541)	16 mm	0.1	<b>72536</b>
<b>R 600/650</b> (from Serial No. 409001)	16 and 22 mm	0.3	<b>72638</b>
(up to Serial No. 409000)	16 and 22 mm	0.3	<b>72666</b>
<b>R 750</b>	22 and 32 mm	0.4	<b>72563</b>
<b>R 80/100 SP</b>	22 mm	0.4	<b>72561</b>
<b>R 80/100 SP</b>	32 mm	0.3	<b>72562</b>



No. 72511

No. 72511



No. 72514, No. 72515



### Adaptor Magazines

- Clean, safe storage of 8 and 10 mm spirals
- Impact-resistant container with clutch jaws and precision clutch

For machine type	for spirals Ø	max. spiral length	kg	No.
R 550	8 and 10 mm	10 m	1.3	<b>72511</b>
R 600/650	8 mm	10 m	1.8	<b>72514</b>
R 600/650	10 mm	10 m	1.8	<b>72515</b>



### Clutch Jaws for R 750

For machine type	For spirals Ø	kg	No.
R 750	16 mm	0.3	<b>72915</b>

8

Ensures safe, kink-free spiral feed



No. 72541



No. 72559

With precision quick coupling

### Spiral Guide Hoses

- Prevents contamination and damage

Model	For machine type	For spirals Ø	length	kg	No.
FS 16	R 550/ROSPEED 3F	16 mm	2 m	1.1	<b>72540</b>
FS 22	R 600/650	22 mm	4 m	2.8	<b>72541</b>
FS 32	R 750/80/100 SP	32 mm	4 m	4.1	<b>72559</b>



### Ceramic Protection Hose

- For the protection of ceramic
- With adjustable holding clamp

For spirals	length	kg	No.
Ø 8, 10, 16 mm	540 mm	0.4	<b>72705</b>

Ideal working height



### 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>

### Spiral Retrieving Device

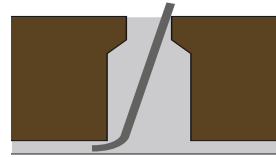
- Safe feeding / retrieving of spirals in downpipes
- Suitable for all Ø 22 and 32 mm open-wound spirals
- Suitable as pusher unit for difficult obstructions
- Also suitable as adaptor for third-party equipment without problems
- With water supply connection (two 1" threaded couplings)
- Socket for tripod stand



Model	kg	No.
Spiral Retrieving Device	3.7	72135

### Telescoping Guide Tubes

- No twisting: For safe spiral guidance in manholes and manhole covers



Description	Extended length m	Type	kg	No.
For spirals Ø 16, 22 mm	1.4 - 2.3	2 pieces	3.0	72130
For spirals Ø 22, 32 mm	1.9 - 4.3	3 pieces	10.0	72131

### Spiral Guide Gloves

- For safe grasping and guiding of cleaning spirals

#### Guide Gloves, leather:

- Full leather with short cuff
- Robust and comfortable, inner glove surface studded
- Only to be used with hygiene glove



Description	g	No.
Guide Gloves left, leather	190	72120
Guide Gloves right, leather	190	72121
Guide Gloves (pair), rubber	160	1500000439

### ROWONAL Care and Rust Remover

- For cleaning, preservation and protection of spirals, couplings and tools
- For cleaning, rust-removal and disinfection



No. 72142



No. 72140

Description	Contents	g	No.
Spray can	0.2 l	220	72142
Plastic canister	5.0 l	5,100	72140
Manual sprayer, empty	0.5 l	90	72141

### Separating Pin

- For disconnecting spirals and spiral tools

Model	g	No.
For spirals / tools with Ø 16 mm	20	72100
For spirals / tools with Ø 22 and 32 mm	30	72101
For spirals / tools with Ø 8 mm	15	72102



No. 72100

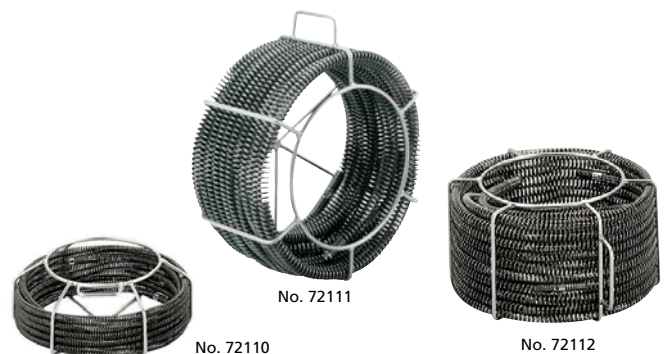


No. 72101

### Spiral Baskets

- Safe storage combined with convenient transport
- Perfectly suited for cleaning and preservation

Model	Spiral length max.	kg	No.
For spirals / tools with Ø 16 mm	34.5 m	1.3	72110
For spirals / tools with Ø 22 mm	22.5 m	1.6	72112
For spirals / tools with Ø 22, 32 mm	22.5 m	2.3	72111



No. 72110

No. 72111

No. 72112



# Flushing & Pipe Cleaning

## Pipe Cleaning Spirals

### ROTHENBERGER High-Performance Drain Cleaning Spirals

For the toughest demands during continuous operation

#### Product Profile

##### KEY FEATURES

- **Bevelled lead-ins on the T-groove coupling**  
Quick, trouble-free coupling even when wearing gloves
- **For the toughest demands even during continuous operation**  
Different wire gauge can be chosen depending on use, high material characteristics, perfected production process
- **Maximum spring tension with high elasticity and flexibility**  
Specially hardening process
- **Optimum high torque transmission**  
Tightly wound spiral with short pitch
- **Increased spiral tension when machine turns clockwise and depending on the resistance of the obstruction**  
Professional left-handed wound spiral

##### TECHNICAL DATA

**Manufactured from** quality spring steel, Type C DIN EN 10270-1  
Material No. 1.1200

**Specially hardened** and tempered

**Safety T-groove coupling system** with NIROSTA- pressure pin locking mechanism

**Spring mounted** NIROSTA pressure pin with NIROSTA spring

With Lock Ring!



#### Sufficient connecting coil

Spare couplings can be mounted easily



#### Various wire gauges

Flexible, depending on use

#### ROPOWER PROFILE CABLE

Additional cleaning effect with the squared profile



#### Plastic core

Spiral won't clog with dirt

#### Insertion taper

Simple coupling of spirals and tools



#### T-groove made of Nirosta steel

Long lasting and high functional safety with the high-quality coupling design



Spiral / Type	Short distance many bends	Long distance straight run	No clogging of the Spiral with dirt	Additional cleaning power
<b>Standard Spiral</b>	●	○	○	○
<b>SMK-Spiral</b>	●	○	●	○
<b>S-Spiral</b>	○	●	○	○
<b>S-SMK-Spiral</b>	○	●	●	○
<b>ROPOWER PROFILE</b>	○	●	●	●

○ not suitable ● suitable



### ROPOWER® PROFILE CABLE

Spiral with special galvanized wire shape

#### KEY FEATURES

- Squared spiral wire profile (DIN EN 10270-1)  
Additional cleaning effect on pipe wall
- Plastic core  
No clogging of the spiral with dirt
- Especially suitable for working over long distances



Profile edge

50% more cleaning power  
when used with the spiral tools

mm	Core	inch	L m	kg	No.
16	●	5/8"	2.3	1.3	<b>72490</b>

Safety T-groove couplings can be found on 229

### 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>

Safety T-groove couplings can be found on 229

### S-Spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling



mm	inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.5	E 8	3.00	<b>72428</b>
22	7/8"	4.5	5.0	E 10	4.18	<b>72443</b>
32	1.1/4"	4.5	6.0	E 11	6.80	<b>72453</b>

Safety T-groove couplings can be found on 229

### ROTHENBERGER Lock Ring

One-of-a-kind safety ring for the optimum transmission of the torque pressure onto the coupling with 100% surface pressure

#### KEY FEATURES

- Self locking connection of spiral and coupling:  
With increased stress on the spiral, the torque pressure on the spiral end is increased and is transferred with 100% surface coverage onto the coupling.
- Safety ring made out of flexible and self-binding material:  
With increased stress the ring will not slide, rather because of the 100% surface pressure, it adjusts itself to positively lock onto the coupling
- Optimum force transmission for professional pipe cleaning
- Increased safety
- Increased durability / service life of the spiral



### SMK-Spirals

- Flexible spiral, for cleaning jobs with short distances with a succession of pipe bends
- Additional protection of the spiral from clogging with the plastic core



mm	inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.0	C 8	1.24	<b>72433</b>
22	7/8"	4.5	4.5	C 10	4.64	<b>72442</b>
32	1.1/4"	4.5	5.0	C 11	7.63	<b>72452</b>

Safety T-groove couplings can be found on 229

### S-SMK-Spirals

- Very stable spiral with increased wire diameter for long distances and less bends
- High rigidity, suitable for demanding work, such as root cutting, milling
- Additional protection of the spiral from clogging with the plastic core



mm	inch	L m	Wire thickness Ø mm	R/K Type	kg	No.
16	5/8"	2.3	3.5	E 8	1.30	<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>

Safety T-groove couplings can be found on 229



### 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"

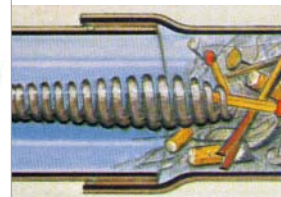
See the following pages for more information on professional tools in various versions and dimensions for loosening obstructions and cleaning drains

### Bulb Auger

223



The most common tool for cleaning pipes and drains with tight or multiple bends

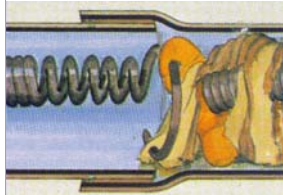


### Retrieving Auger

223



Special tool for retrieving objects from the pipe, e.g. textiles, spirals or tools

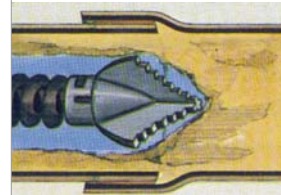


### Cross-blade Cutter, serrated

224



Special tool for opening up solidified pipe obstructions

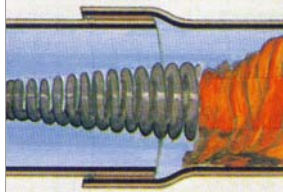


### Funnel Auger

223



Tool for removing, opening or retrieving obstructions caused by, e.g. textiles

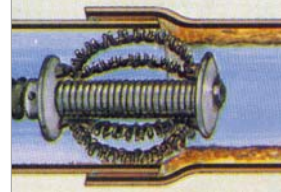


### Chain-spinning Head with Spikes

225



For concrete, cast iron and ceramic pipes. Intensive action. Without rings = for tight pipe bends, with 3 chains

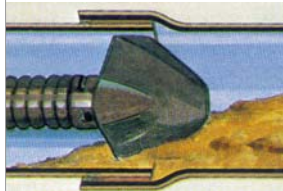


### Spade Head Cutter

224



Ideally suited for slit or sludge deposits in pipes, and as a follow-up tool

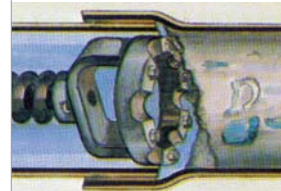


### Carbide-tipped Cutters

226



This carbide-tipped tool is used to remove the hardest obstructions such as cement, urine and water scale, etc.

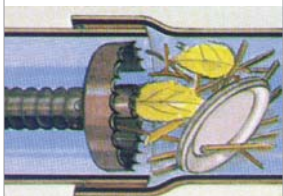


### Spiral Sawtooth Cutter

224



Special tool for chopping up small roots and other material that have become caught in the pipe

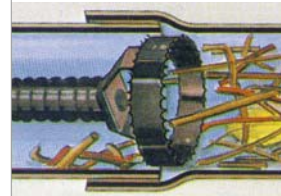


### Two-way Root Cutter

226






Special tool for cutting roots in both directions. Also suitable for solid materials



### Bulb Auger, long

- With the longer, more flexible range the bulb auger is considerably more flexible in curves. Pipe from Ø 40 mm






Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	28	500	40 - 75	220	<b>72158</b>
22 / 7/8"	40	500	50 - 100	464	<b>72208</b>
32 / 1.1/4"	50	500	75 - 250	818	<b>72323</b>

### 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>

### 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>

### 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>

### Drop-head Auger

- Ideal for particularly tight pipe bends, branches and small-diameter drain downpipes



Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	24	83	50 - 75	60	<b>72159</b>
22 / 7/8"	37	125	60 - 100	180	<b>72264</b>

# Flushing & Pipe Cleaning

## Drain Cleaning Tools

**Hardened spring steel blades!**






No. 72154



No. 72164

### Four-blade Cutter

- For cutting through and removing tough obstructions
- For the removal of sludge deposits
- Ideal with S-spirals




Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	40	40	50 - 75	30	<b>72154</b>
16 / 5/8"	30	40	50 - 75	20	<b>72164</b>



No. 72234

- Standard tool for removing grease and other soft deposits, e.g. soap accumulations

### Grease Cutter




Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	25	35	40 - 75	30	<b>72169</b>
16 / 5/8"	35	45	50 - 75	40	<b>72170</b>
16 / 5/8"	45	56	60 - 100	50	<b>72171</b>
22 / 7/8"	45	60	60 - 125	80	<b>72234</b>



No. 72261

### 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>




8



No. 72229

### 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>




- Used for textile or sludge obstructions!
- Hardened, break-proof, spring steel blades!
- Recommended for use with S or SMK spirals!



No. 72275

### Cross-blade Cutter, serrated

- Powerful combination tool for grinding up and removing solidified obstructions
- For coarse removal of incrustations
- As preparatory tool for chain spinning

Coupling mm / inch	 mm	 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>



### Chain-spinning Heads

#### Without ring, with smooth chain




##### KEY FEATURES

- For cleaning greasy and incrustated pipes
- Surface-preserving cleaning of ceramic and plastic pipes
- Without ring: improved manoeuvrability in bends



No. 72284

#### Chain-spinning Heads without ring and without spikes

Coupling mm / inch	 mm	 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>

Improved mobility!



No. 72289

### Chain-spinning Heads with Spikes

##### KEY FEATURES

- Intensive cleaning action
- Ideal for concrete and cast iron pipes
- Reduces the risk of renewed obstructions
- Perfectly suitable for down pipes
- **With ring:**  
for better centering in horizontal pipe runs
- **Without ring:**  
Improved mobility in bends






No. 72286

Ideal for final cleaning!

Better alignment in horizontal pipe position!




#### Chain-spinning Heads with ring and spikes

Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
16 / 5/8"	30	160	70 - 125	320	<b>72182</b>
22 / 7/8"	65	170	100 - 125	1,060	<b>72285</b>
22 / 7/8"	75	170	100 - 150	1,110	<b>72286</b>
32 / 1.1/4"	75	220	100 - 125	1,700	<b>72341</b>



No. 72278

#### Without ring, with 2 or 4 chains and spikes

Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
<b>Without ring, with 2 chains</b>					
16 / 5/8"	30	155	50 - 125	160	<b>72186</b>
22 / 7/8"	50	170	100 - 150	860	<b>72278</b>
32 / 1.1/4"	70	220	100 - 150	1,350	<b>72347</b>
<b>Without ring, with 4 chains</b>					
16 / 5/8"	40	155	75 - 125	280	<b>72188</b>
22 / 7/8"	60	170	100 - 150	880	<b>72299</b>
32 / 1.1/4"	80	220	100 - 200	1,460	<b>72348</b>



No. 72188

For better curve manoeuvrability!



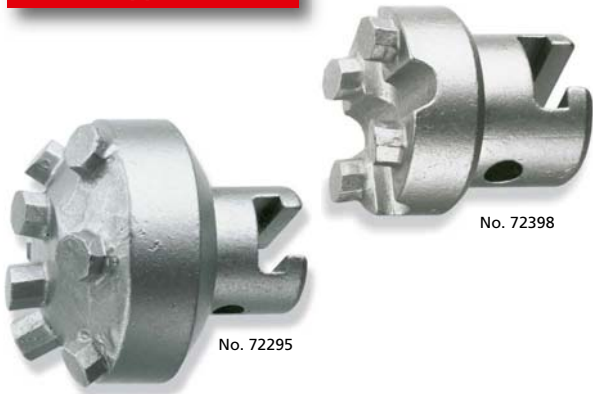
# Flushing & Pipe Cleaning



## Drain Cleaning Tools

### Carbide-tipped Cutters

- Carbide-tipped cutters for the hardest obstructions and incrustations such as cement deposits, urine and water scale and other hard deposits
- Recommended for use with S or SMK spirals

#### Carbide-tipped Cutters!






Coupling mm / inch	 mm	Form	Working range mm	 g	No.
16 / 5/8"	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>

### Serrated Forked Cutter

- Particularly suitable for sludge deposits and roots
- Hardened spring steel cutter with teeth on both sides, long service life



Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
22 / 7/8"	76	100	100 - 150	230	<b>72250</b>
22 / 7/8"	100	100	125 - 150		<b>72251</b>
32 / 1.1/4"	76	100	120 - 200	260	<b>72350</b>
32 / 1.1/4"	100	100	125 - 200		<b>72351</b>
Spare blade	76	-	-	90	<b>72258</b>
Spare blade	100	-	-	120	<b>72259</b>

8






### Two-way Root Cutter

- With hardened spring steel cutter for chopping up roots in both directions
- Recommended for use with S or SMK spirals
- Not suitable for use with plastic pipes

#### Replaceable blades!





Coupling mm / inch	 mm	 mm	Working range mm	 g	No.
22 / 7/8"	65	80	100 - 125	250	<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>

### Ball Head Cutter

- Perfectly suited for use in pipes with hard incrustations such as lime, urine scale, etc.
- Suitable for downpipes, its round shape ensures excellent curve mobility even at 90°



Coupling mm / inch	Working range mm	 mm	 g	No.
<b>4 Blade</b>				
16 / 5/8"	50 - 75	25	42	<b>72168</b>
16 / 5/8"	50 - 75	35	80	<b>72172</b>
16 / 5/8"	75 - 100	55	144	<b>72173</b>
22 / 7/8"	100 - 125	35	126	<b>72207</b>
22 / 7/8"	100 - 125	55	198	<b>72223</b>
22 / 7/8"	100 - 150	75	438	<b>72224</b>
22 / 7/8"	100 - 150	95	634	<b>72226</b>
32 / 1.1/4"	100 - 125	55	228	<b>72324</b>
32 / 1.1/4"	100 - 150	75	468	<b>72326</b>
<b>8 Blade</b>				
22 / 7/8"	125 - 150	90	1025	<b>72227</b>
22 / 7/8"	125 - 150	115	1225	<b>72228</b>
32 / 1.1/4"	125 - 200	95	1108	<b>72327</b>
32 / 1.1/4"	150 - 200	115	1256	<b>72328</b>



**With Lock Ring!**

# 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 gloves, left/right (No. 150000439), 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 gloves, left/right (No. 150000439), 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 gloves, left/right (No. 150000439), 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 spirals á 2.3 m)

5 x 22 mm spiral in basket (5 spirals á 4.5 m)

4 x 32 mm spiral in basket (4 spirals á 4.5 m)



### Tool Set S

Ø 16 mm, 5 pieces

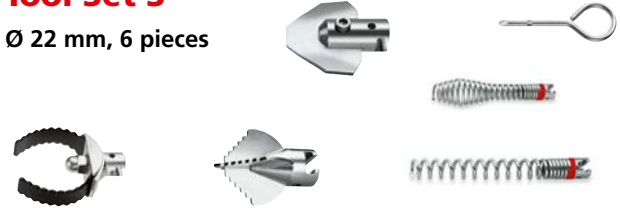


Set (No. 72937) includes: Separating pin 16 mm (No. 72100), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16 mm (No. 72169), cross-blade cutter 16 mm (No. 72175)

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>

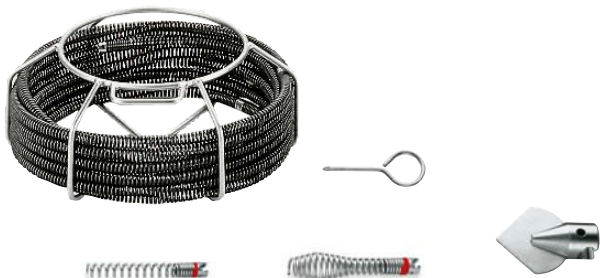
Model	R 550	R 600	R 650	R 750	📦	No.
16 mm Standard	○	○	○	●	1	<b>72060</b>
16 mm SMK	○	○	○	●	1	<b>72061</b>
16 mm S	○	○	○	●	1	<b>72062</b>
16 mm S-SMK	○	○	○	●	1	<b>72063</b>
22 mm Standard	-	○	○	○	1	<b>72040</b>
22 mm SMK	-	○	○	○	1	<b>72041</b>
22 mm S	-	○	○	○	1	<b>72042</b>
22 mm S-SMK	-	○	○	○	1	<b>72043</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



### 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 gloves, 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



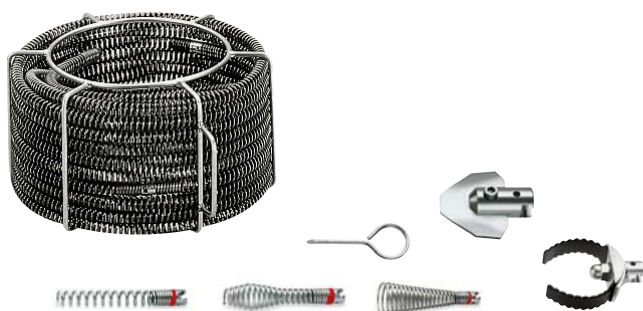
Set (No. 072956X) includes: Spiral basket 16 mm (No. 72110), 5 x 16 mm standard spirals (No. 72431), straight auger 16 mm (No. 72161), bulb auger 16 mm (No. 72163), blade cutter 16/25 mm (No. 72169), separating pin 16 mm (No. 72100), spiral basket 22 mm (No. 72112), 5 x 22 mm standard spiral (No. 72441), 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 gloves, 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 gloves, 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 gloves, left/right (No. 1500000439), ROWONAL spiral spray (No. 72142)

Description	Model	kg	No.
Standard 32 mm	with standard spirals	37.0	<b>072962X</b>

### Spirals 8 mm / 10 mm

For ROSPI® H+E PLUS, ROSPI® R 36 PLUS, ROSPIMATIC and adaptor magazine

#### KEY FEATURES

- Heavy duty spiral made out of special steel (DIN EN 10270-1) with integrated bulb auger (except No. 72421, 72423)
- Suitable for ROSPI H + E Plus, ROSPI 36 Plus, ROSPIMATIC as well as with adaptor R 550, R 600, R 650
- The wire diameter with an 8 mm spiral averages  $\varnothing$  2 mm, and with 10 mm spirals  $\varnothing$  2.5 mm
- Easy to use, even in tight bends, especially with 8 mm spirals also directly through sink strainers, crosses and drains without having to disassemble the drain or stench tap

mm	Wire $\varnothing$	Length	Type	Steel core	Use for for ROSPI®	kg	No.
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>
8	2 mm	10.0	-	-	R 8 - R 36	2.4	<b>72414</b>
8	2 mm	10.0	-	●	R 10 - R 36	3.0	<b>72415</b>
10	2.5 mm	10.0	C 5	-	R 10 - R 36	3.5	<b>72422</b>
10	2.5 mm	7.5	C 4	-	R 10 - R 36	2.9	<b>72420</b>
10	2.5 mm	7.5	C 4 - IC	●	R 10 - R 36		<b>72424</b>
10	2.5 mm	7.5	-	-	R 10 - R 36		<b>72421*</b>
10	2.5 mm	7.5	-	●	R 10 - R 36	2.9	<b>72423*</b>

\*with T-groove coupling



No. 72413



No. 72421 / No. 72423

### Reducing / Extension Pieces

For spirals with T-coupling

Within limits, tools with larger or smaller lead-ins can also be adapted



No. 72461



No. 72460

Description	negative	positive	g	No.
Extension piece	16 mm	22 mm	140	<b>72461</b>
Reducing piece	22 mm	16 mm	150	<b>72460</b>
Extension piece	22 mm	32 mm	320	<b>72463</b>
Reducing piece	32 mm	22 mm	330	<b>72462</b>

### Safety T-Couplings

Description	16 mm 5/8"	22 mm 7/8"	32 mm 7/8"
<b>for Standard and SMK spirals</b>			
positive	20 <b>72150</b>	40 <b>72210</b>	100 <b>72310</b>
negative	20 <b>72151</b>	40 <b>72211</b>	100 <b>72311</b>
<b>for S and S SMK spirals</b>			
positive	20 <b>72152</b>	40 <b>72212</b>	100 <b>72312</b>
negative	20 <b>72153</b>	40 <b>72213</b>	100 <b>72313</b>
<b>for ROPOWER profile cable</b>			
positive	20 <b>72156</b>	40	100
negative	20 <b>72157</b>	40	100

#### For repairing broken spirals!

for Standard and SMK spirals



No. 72210



No. 72211

for S and S SMK spirals



No. 72212



No. 72213



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### High-Pressure Drain Cleaner

Soiled pipes are flushed using the high-pressure system with up to 200 bar. At the start of cleaning, a cleaning hose is introduced into the pipe. Water is then flushed through the pipe at a pressure dependant on the level of soiling - until the pipe is completely clean.

For the removal of the obstructions and possible deposits there are a number of different nozzles that can be used eg. quattro 3-sided nozzle, the rotating nozzle or the grenade nozzle. Working with these special cleaning nozzles, in addition to water pressure, enables a quiet, quick and precise procedure.

Even the hardest incrustations are loosened and flushed away – without the need for chemicals. By controlling the high-pressure unit with the remote control, the operator can continue working without any interruption.

High-pressure cleaning is an efficient and cost-effective solution for obstructions in ground pipes, for soil and rain water as well as for pipes that transport grease, and for the removal of roots. This method is therefore used for land drainage, gutters, courtyard drainage, rain-water downpipes, rainwater canals, etc.

**Efficient and cost-effective solution for obstructions in ground pipes!**



8



HD 19/180B from the HD series



ROJET® 30/130 from the ROJET® series



ROJET® 40/100 from the ROJET® series



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### High-Pressure Drain Cleaner

High-quality professional unit Ø 40 – 200 mm working range

#### Product Profile

##### KEY FEATURES

- 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

#### TECHNICAL DATA

##### 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

<b>HD 11 / 90 for pipe:</b>	Ø 40 - 150 mm, max. 20 m
<b>HD 13 / 100 for pipe:</b>	Ø 40 - 150 mm, max. 20 m
<b>HD 17 / 190 for pipe:</b>	Ø 40 - 200 mm, max. 40 m
<b>HD 19 / 180B for pipe:</b>	Ø 40 - 200 mm, max. 40 m

### HD 11/90

Self-priming compact unit from Ø 40 – 150 mm up to 20 m length



Ø 150 mm



#### Product Profile

##### KEY FEATURES

- Compact and portable unit
- Ideal for fast operation in small pipe dimensions
- AC supplied, self-priming up to 2 m

##### TECHNICAL DATA

<b>Max. operating pressure:</b>	90 bar
<b>Electric motor:</b>	AC supply
<b>Pump delivery:</b>	11 l/min
<b>Rating:</b>	1.5 kW
<b>Max. working length:</b>	20 m
<b>Speed:</b>	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



#### Product Profile

##### KEY FEATURES

- Air-filled transport wheels, easy to navigate stairs
- AC supplied, self-priming up to 2 m

##### TECHNICAL DATA

<b>Max. operating pressure:</b>	100 bar
<b>Electric motor:</b>	AC supply
<b>Pump delivery:</b>	13 l/min
<b>Rating:</b>	2.3 kW
<b>Max. working length:</b>	20 m
<b>Speed:</b>	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



#### Product Profile

##### KEY FEATURES

- Three-phase motor, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

##### TECHNICAL DATA

<b>Max. operating pressure:</b> 190 bar	<b>Electric motor:</b> Three phase
<b>Pump delivery:</b> 17 l/min	<b>Rating:</b> 5.0 kW
<b>Max. working length:</b> 40 m	<b>Speed:</b> 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	No.
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!



#### Product Profile

##### KEY FEATURES

- Works with fuel, no voltage needed, self-priming up to 2 m
- Air-filled transport wheels, easy to navigate stairs

##### TECHNICAL DATA

<b>Max. operating pressure:</b> 180 bar	<b>Rating:</b> 8.1 kW
<b>Pump delivery:</b> 19 l/min	<b>Speed:</b> 1,800 min <sup>-1</sup>
<b>Max. working length:</b> 40 m	<b>Petrol engine:</b> Honda
<b>Tank capacity:</b> 6,5 l	<b>Consumption:</b> 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® High-Pressure Cleaning Units

#### Professional cleaning units

Innovative cleaning technology that is established on the market. User-friendly construction with an optimum ratio between power density and operational pressure for the best cleaning results. Available in many variations and versions

#### KEY FEATURES

- **Suitable for mounting in or on different vehicle types**  
Free vehicle choice
- **Prevents the pump from over speeding**  
Speed limiting
- **Drain cleaning for pipe diameters from 40 mm**  
Mobile hose reel for small pipe diameters available
- **Independent operation from vehicle engine**  
Low maintenance costs and service times, separate engine, no auxiliary drive required
- **Container design**  
ROJET can be installed in different vehicles at any time

#### KEY FEATURES

- **High service level**  
12-month warranty on motor, pump and hydraulics, guaranteed spare parts service due to series production. Clear differentiation of guarantees for cleaning unit and vehicle manufacturer.
- **Low maintenance, long service life of motor, pump and hydraulics**  
High-quality design, solid construction
- **Permits the use of a lance**  
E.g. for cleaning surfaces, exterior walls, courtyards, vehicles, etc., built-in pressure selection valve

### ROJET® 30/130

High-pressure cleaning unit for pipes from Ø 40 - 200 mm



#### Product Profile

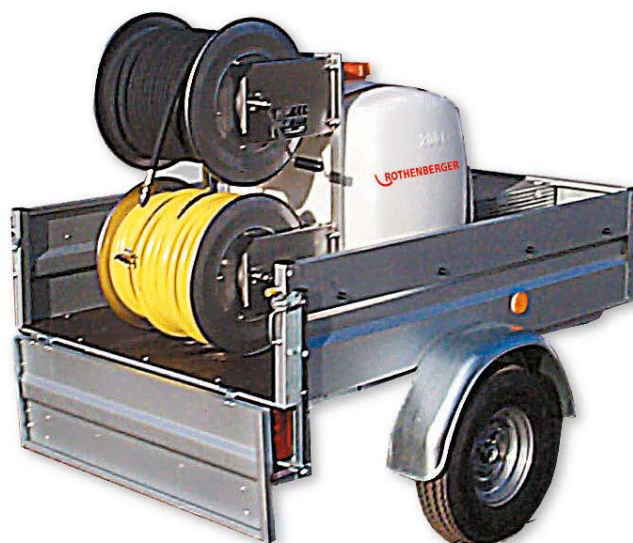
#### TECHNICAL DATA

<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

Includes (No. 76300): basic unit with trailer, standard nozzle with forward jetting (No. 76135)

Includes (No. 76462): nozzle holder (No. 76309), standard nozzle with forward jetting (No. 76135), grenade nozzle (No. 77631), rotating nozzle (No. 77621) and quattro nozzle (No. 77611)

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>
For other extras/optional equipment, please see the table on  236		



8

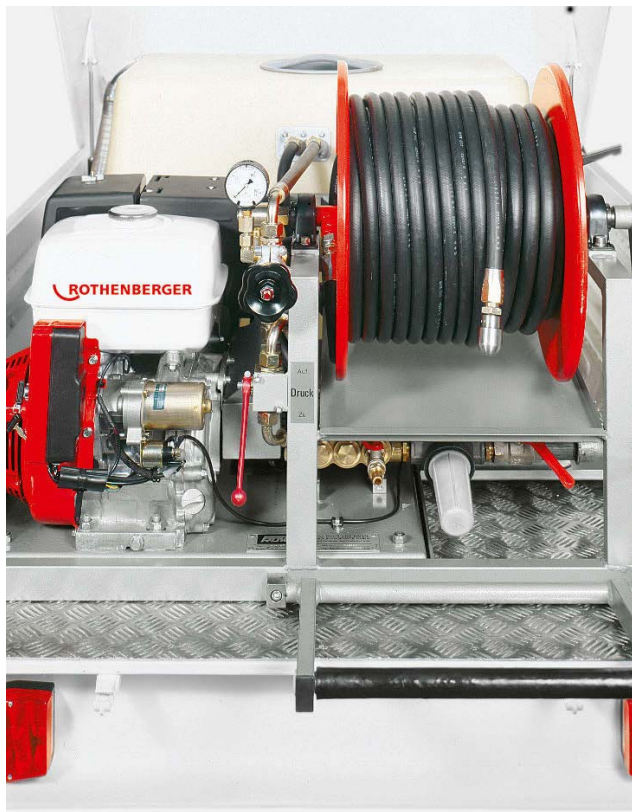


# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### ROJET® 40/100



High-pressure cleaning unit for pipes Ø 40 - 200 mm



#### Product Profile

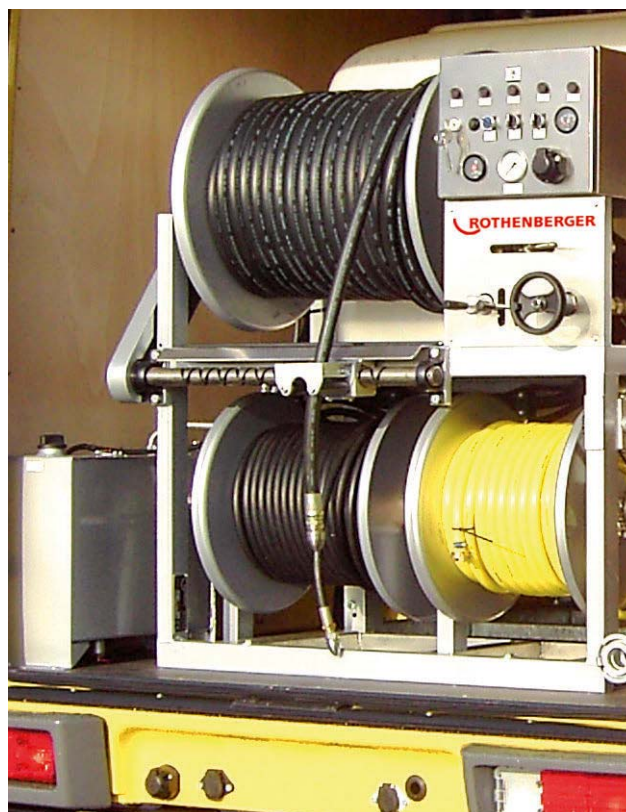
##### TECHNICAL DATA

<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		No.
ROJET® 40/100	200	<b>76100</b>
Nozzle set 40/100	6.5	<b>76463</b>
includes: nozzle holder (No. 76309), standard nozzle with forward jetting (No. 76141), grenade nozzle (No. 77632), rotary nozzle (No. 77622), Quattro nozzle (No. 77612)		
For other extras/optional equipment, please see the table on  236		

### ROJET® 130/160



High-pressure drain cleaning unit for professional use up to Ø 500 mm



#### Product Profile

##### TECHNICAL DATA

<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		No.
ROJET® 130/160	900	<b>76485</b>
For other extras/optional equipment, please see the table on  236		



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning

### ROJET® 50/120 – 60/140 – 85/160 – 100/160 – 100/200 Basic and Comfort

#### Product Profile

##### KEY FEATURES

- **Maintenance friendly, long service life of motor, pump and hydraulics**  
High-quality design, solid construction
- **Use with cleaning lance**  
E.g. for cleaning surfaces, exterior walls, courtyards, vehicles, etc. Built-in pressure selection valve
- 5 different performance versions
- Individual drive unit
- Galvanised main frame
- Easy to use
- Cost-saving building block system

##### TECHNICAL DATA

- Main frame:** Profiled steel, hot-galvanised, partially coated reel supports, fitted
- Motor:** Petrol engine 15 KW / 17 KW, diesel engine 37 KW / 42 KW, E-Start, automatic speed control
- Pump:** 3-plunger pump, delivery 50-100 l/min at 120-200 bar
- Starter battery:** 12 Volt / 36 Ah
- High-pressure reel:** Hydraulic reel gear
- High-pressure hose:** 50/120 - 85/160 DN 12, length: 80 m, 100/150 and 100/200 DN 16, length: 80 m
- Filling reel:** Manual and hydraulic (optional)
- Filling hose:** DN 19, length: 50 m
- Water tank:** Plastic, ROJET 50/120 and 60/140, capacity 400 litres, ROJET 85/160 - 100/200, capacity 800 litres, other sizes available
- Equipment:** Run-dry protection, instrument panel with ignition switch, operating hours counter, fuel gauge and engine control lamps. water level indicator with acoustic signal, automatic diesel level indicator, manual hose guide, water filter with cut-off cock, safety valve with unloader function 3-way pressure selector tap, glycerine pressure gauge, cover of the drive unit is made of aluminium-corrugated sheet metal continuous speed and pressure adjustment, additional filling possibilities using C-coupling, water level indicator over plexi-glass tube, 1 standard nozzle.



Model	kg	No.
ROJET® 50/120 Basic	420	<b>76540</b>
ROJET® 60/140 Basic	440	<b>76541</b>
ROJET® 85/160 Basic	800	<b>76542</b>
ROJET® 100/160 Basic	810	<b>76543</b>
ROJET® 100/200 Basic	810	<b>76544</b>



Model	kg	No.
ROJET® 50/120 Comfort	450	<b>76320</b>
ROJET® 60/140 Comfort	470	<b>76321</b>
ROJET® 85/160 Comfort	820	<b>76322</b>
ROJET® 100/160 Comfort	830	<b>76323</b>
ROJET® 100/200 Comfort	830	<b>76324</b>



# Flushing & Pipe Cleaning

## High-Pressure Drain Cleaning



8

### ROJET®

#### Optional equipment

Remote control and other optional equipment is available, please see table below!

ROJET®		30/130	40/100	50/120 60/140	85/160 100/160 100/200	130/160
	No.					
<b>Water tank</b>						
800 litres	76220	n/a	●	●*	S	S
1,000 litres	76221	n/a	●	●*	●	●
<b>Remote control</b>						
Cable, 6-functions	76226	n/a	n/a	●	●	
Radio, 6-functions	76302	n/a	n/a	●	●	●
Cable, Radio	76331	n/a	n/a	●	●	●
<b>Working spot lights</b>						
Base frame	76232	n/a	n/a	●	●	●
Base frame:	Necessary when wheelhouse distance is less than 1.2 meters					
Aluminium floor	76228					
<b>Autom. filling stop</b>	76210	n/a	●	●	●	●

Explanation: n/a = not applicable, ● = additional charge, S = standard, F = possible without additional charge  
\* Only for ROJET 50/120 long version (Type L)

### Standard Nozzle

Made of VA steel

Suitable for the removal of obstructions or for flushing pipes and drains

**All-purpose standard nozzle:  
versatile – flexible – hard-working!**



Model	Coupling	Ø x L mm	kg	No.
For ROJET® 30/130	R 1/2"	30 x 50	0.12	<b>76135</b>
For ROJET® 40/100	R 1/2"	30 x 50	0.12	<b>76141</b>
For ROJET® 50/120	R 1/2"	30 x 50	0.12	<b>76137</b>
For ROJET® 60/140	R 1/2"	30 x 50	0.12	<b>77606</b>
For ROJET® 85/160	R 1/2"	30 x 50	0.12	<b>76152</b>
For ROJET® 130/150	R 1/2"	30 x 50	0.12	<b>76488</b>
For ROJET® 130/150	R 3/4"	40 x 60	0.16	<b>76406</b>

### Rotating Nozzle

Made of VA steel

High-performance rotating nozzle that is especially suited for use in greasy pipes, for all-round cleaning before TV camera inspection for the removal of light deposits and roots

It is also often used for basic cleaning before reconditioning

- 4 different jet angles  
(propulsion part 25° / pipe 90°, 75° and 60°)
- All-round use
- Guarantees maximum cleaning performance



Model	Coupling	Ø x L mm	kg	No.
For ROJET® 30/130	R 1/2"	30 x 50	0.55	<b>77621</b>
For ROJET® 40/100	R 1/2"	30 x 50	0.55	<b>77622</b>
For ROJET® 50/120	R 1/2"	30 x 50	0.55	<b>77623</b>
For ROJET® 60/140	R 1/2"	30 x 50	0.55	<b>77626</b>
For ROJET® 85/160	R 1/2"	30 x 50	0.55	<b>77624</b>
For ROJET® 100/150	R 1/2"	30 x 50	0.55	<b>77566</b>
For ROJET® 130/150	R 1/2"	30 x 50	0.55	<b>76492</b>
For ROJET® 130/150	R 3/4"	40 x 110	0.72	<b>76427</b>

### Quattro 3-sided Nozzle

Made of VA steel

Support the quick removal of tough obstructions through ripping, cutting and drilling. Additionally, it can be used in cleaning away pipe pressing residues

- Nozzle with 3-sided point
- With 4 forward-facing high-pressure jets. (M5 grub screws)



Model	Coupling	Ø x L mm	kg	No.
For ROJET® 30/130	R 1/2"	30 x 50	0.11	<b>77611</b>
For ROJET® 40/100	R 1/2"	30 x 50	0.11	<b>77612</b>
For ROJET® 50/120	R 1/2"	30 x 50	0.11	<b>77613</b>
For ROJET® 60/140	R 1/2"	30 x 50	0.11	<b>77616</b>
For ROJET® 85/160	R 1/2"	30 x 50	0.11	<b>77614</b>
For ROJET® 100/150	R 1/2"	30 x 50	0.11	<b>77565</b>
For ROJET® 100/200	R 1/2"	30 x 50	0.11	<b>77530</b>
For ROJET® 130/150	R 1/2"	30 x 50	0.11	<b>76489</b>
For ROJET® 130/150	R 3/4"	40 x 70	0.14	<b>76410</b>

### Grenade Nozzle with Traction Jet

Made of VA steel

Cleaning nozzle with a high cleaning efficiency for professional use in drains with a maximum diameter of 300 mm.

- Optimised water flow, flexible, with high power traction



Model	Coupling	Ø x L mm	kg	No.
For ROJET® 30/130	R 1/2"	60 x 95	0.136	<b>77631</b>
For ROJET® 40/100	R 1/2"	60 x 95	0.136	<b>77632</b>
For ROJET® 50/120	R 1/2"	60 x 95	0.136	<b>77633</b>
For ROJET® 60/140	R 1/2"	60 x 95	0.136	<b>77636</b>
For ROJET® 85/160	R 1/2"	60 x 95	0.136	<b>77634</b>
For ROJET® 100/200	R 1/2"	60 x 95	0.136	<b>76172</b>
For ROJET® 130/150	R 1/2"	60 x 95	0.136	<b>76490</b>
For ROJET® 85/160R 3/4" - R 1/2"	R 1/2"	70 x 105	0.177	<b>76193</b>
For ROJET® 100/200R 3/4" - R 1/2"	R 1/2"	70 x 105	0.177	<b>76179</b>
For ROJET® 130/150R 3/4" - R 1/2"	R 1/2"	70 x 105	0.177	<b>76416</b>



# Flushing & Pipe Cleaning

## Accessories High-Pressure Drain Cleaning

### Flat Nozzle

Made of VA steel

The wedged-shaped flat nozzles main purpose is for bottom cleaning and the removal of sand and debris. Furthermore, the flat nozzle is excellent for negotiating large passages and transporting heavy residue

- Utmost traction, light jetting effect (approx. 2")
- Demonstrative cleaning performance
- Optimum nozzle alignment (M 6 grub screws)



Model	Coupling	Ø x L mm	kg	No.
For ROJET® 30/130	R 1/2"	70 x 120	2.95	<b>76170</b>
For ROJET® 40/100	R 1/2"	70 x 120	2.95	<b>76157</b>
For ROJET® 50/120	R 1/2"	70 x 120	2.95	<b>77643</b>
For ROJET® 60/140	R 1/2"	70 x 120	2.95	<b>76233</b>
For ROJET® 85/160	R 1/2"	70 x 120	2.95	<b>77644</b>
For ROJET® 100/150	R 1/2"	70 x 120	2.95	<b>76234</b>
For ROJET® 100/200	R 1/2"	70 x 120	2.95	<b>76161</b>
For ROJET® 130/160	R 1/2"	70 x 120	2.95	<b>76235</b>
For ROJET® 130/160	R 3/4"	100 x 160	3.84	<b>76236</b>

### Rotor Trench Nozzle

Made of VA steel

Suitable for the removal of hard deposits and tough roots, high torsion with the turbine drive

- Multiple uses
- Best cleaning results



Model	Coupling	kg	No.
Rotor trench nozzle ROJET® 50/120	R 3/4-R 1/2"	3.4	<b>76453</b>
Rotor trench nozzle ROJET® 60/140	R 3/4-R 1/2"	3.6	<b>77666</b>

8

### Nozzle Assortment

Professional nozzle sets for ROJET

The nozzle assortment that is arranged for the professional, ensures a wide range of use and guarantees effective cleaning



Example for ROJET 40/100. Satz No. 76463

Model	Coupling	kg	No.
For ROJET® 30/130	R 1/2"	5.10	<b>76462</b>
For ROJET® 40/100	R 1/2"	5.10	<b>76463</b>
For ROJET® 50/120	R 1/2"	5.10	<b>76464</b>
For ROJET® 60/140	R 1/2"	5.10	<b>77650</b>
For ROJET® 85/160	R 1/2"	5.10	<b>76465</b>
For ROJET® 100/150	R 1/2"	5.10	<b>76466</b>
For ROJET® 100/200	R 1/2"	5.10	<b>76470</b>
For ROJET® 130/160	R 1/2"	5.10	<b>76495</b>
For ROJET® 130/160	R 3/4"	6.63	<b>76467</b>
Nozzle holder	50 x 370	1.28	<b>76309</b>
for nozzle assortment with 5 x 1/2"			

### High-pressure Cleaning Lance

The built-in ROJET® pressure selection valve enables use with a cleaning lance

- Complete with R 1/2" threaded coupling
- Flat jet nozzle insert for channel, surface and component cleaning. Included in delivery



Model	kg	No.
For ROJET® 40/100 - 50/120 - 30/130	0.28	<b>76187</b>
For ROJET® 85/160	3.10	<b>76189</b>
For ROJET® 100/200	3.20	<b>76166</b>

For ROJET® drain cleaning units please see 233

### High-Pressure Hose

- Highly flexible
- Complete with couplings



Nominal diameter mm	Coupling	L m	kg	No.
8	R1/4"	40	9.4	<b>72820</b>
13	R1/2"	50	20.0	<b>76130</b>
13	R1/2"	80	52.0	<b>76131</b>
16	R1/2"	80	67.0	<b>76119</b>

### Suction Injector

Extends the ROJET's range of use and helps to minimise costs.  
Can be operated without a separate pump

- Suitable for all ROJET® versions
- R 1/2" hose coupling
- High suction performance



Perfectly suited for the suction cleaning of silted channels, drains, grease separators, etc.!



Model	kg	No.
HD-Coupling R1/2". with 6 m spiral hose	5.50	<b>76191</b>

### Deflector Rollers

The use of deflector rollers reduces the wear and tear of high-pressure hoses and therefore extends the service life and helps to minimise costs



No. 77500



No. 77501

Model	kg	No.
For bottom manhole edge	6.2	<b>77500</b>
For bottom manhole edge	5.0	<b>77501</b>

### Hose Reel, mobile

The mobility and range of use of the ROJET® is increased when the hose reel is used. Can easily be used without the help of a second person

- Includes professional cleaning nozzles
- Suitable for all ROJET® versions
- Inlet R 1/2"



No. 76118

Set (No. 76118) includes: Hose reel with manual crank, shut-off valve and swivel joint, 40 m high-pressure hose DN 8 with coupling R 1/4" (No. 72820), drain cleaning nozzle R 1/4" (No. 76055)

Model	kg	No.
Hose reel, complete with hose	26.5	<b>76118</b>
Hose reel, inlet 1/2" with hose	17.0	<b>76160</b>
40 m high-pressure hose DN 8, R 1/4" coupling	9.40	<b>72820</b>
Drain cleaning nozzle R 1/4", without forward jetting	0.04	<b>76055</b>
Drain cleaning nozzle R 1/4", with forward jetting	0.04	<b>76065</b>
Rotating nozzle R 1/4", 45°	0.08	<b>77506</b>





“The innovative ROWELD® product programme offers tailor-made and economic customer solutions”







# ROWELD® Plastic Pipe Welding

<b>Cutting</b>	
Cutting / Chamfering Tool	242 - 243
Orbital Circular Saw / Pipe Cutter	244
<b>Socket Welding</b>	
Socket Welding Unit / Heating Plates	245 - 247
<b>Hot Gas Welding</b>	
Hot Gas Welding Unit	248
<b>Electro-Fusion Welding</b>	
Electro-Fusion Welding Unit	249 - 251
<b>Butt Welding</b>	
ROWELD® P 110	252 - 253
ROWELD® P 160 SANILINE	254 - 255
ROWELD® P 250 A	256 - 257
Overview Hydraulic System	258 - 259
Workshop Machines	260
<b>Manual Welding Extruder</b>	261



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# Plastic Pipe Welding

## Cutting

### ROCUT® 110 / ROCUT® 160

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



#### Product Profile

##### APPLICATION AREA

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

##### KEY FEATURES

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

##### KEY FEATURES

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

##### TECHNICAL DATA

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



No. 55035

ROCUT® 110 Set (No. 55035) / (No. 55037) includes: ROCUT® 110 (No. 55020), internal deburrer (No. 55018), clamping set 50, 75 and 110 mm, with standard cutter blade shaft and cutter blade insert (No. 55029), cutter wheel (No. 54950) (for sound-insulated pipes), plastic carrying case (No. 55016), with Set (No. 55037) is No. 55029 not included



No. 55063

ROCUT® 160 Set (No. 55063) includes: ROCUT® 160 (No. 55030), internal deburrer (No. 55018), 2 clamping sets, cutter blade shaft with copying and, HM cutter blade insert (No. 55019), plastic carrying case (No. 55017)



9



Handheld operation



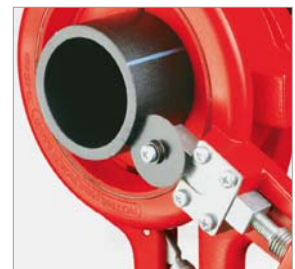
Clamping in a parallel vice



ROCUT® 160 with cutter blade



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



Model	Working range Ø mm	kg	No.
ROCUT® 110 set	50, 75, 110	3.9	<b>55035</b>
ROCUT® 110 set for sound-insulated pipes	58, 78, 110	3.9	<b>55037</b>

Model	Working range Ø mm	kg	No.
ROCUT® 160 set	110, 125, 160	5.6	<b>55063</b>

#### ACCESSORIES

Model	g	No.
Cutter blade for internal deburrer	10	<b>21652</b>
Plastic carrying case for ROCUT® 110	850	<b>55016</b>
Plastic carrying case for ROCUT® 160	1,400	<b>55017</b>
Internal deburrer with blade	150	<b>55018</b>

You'll find clamping jaw sets on 243



### ROCUT® 110

#### Basic unit Ø 32 - 110 mm

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



No. 55020

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



Model	mm	g	No.
Basic unit ROCUT® 110	110	2,450	<b>55020</b>
Clamping set*	100	110	<b>55048</b>
Clamping set*	90	150	<b>55021</b>
Clamping set*	80	170	<b>55047</b>
Clamping set*	78	180	<b>55062</b>
Clamping set*	75	210	<b>55022</b>
Clamping set*	63	220	<b>55023</b>
Clamping set*	58	230	<b>55013</b>
Clamping set*	56	270	<b>55024</b>
Clamping set*	50	290	<b>55025</b>
Clamping set*	40	300	<b>55027</b>
Clamping set*	32	330	<b>55026</b>

\* Clamping set (1 set = 2 semi-circular segments)

### ROCUT® 160

#### Basic unit Ø 110 - 160 mm

Cutter blade shaft with automatic copying and cutter blade (No. 5.5019), for use with clamping sets Ø 110 - 140 mm, without internal deburrer



No. 55030

ROCUT® 160 with cutter blade



Model	mm	g	No.
Basic unit ROCUT® 160	160	3,450	<b>55030</b>
Clamping set*	140	180	<b>55031</b>
Clamping set*	125	250	<b>55032</b>
Clamping set*	110	310	<b>55033</b>

\* Clamping set (1 set = 2 semi-circular segments)

### HM Cutter Blade Inserts

#### ROCUT® 110 and ROCUT® 160



No. 54960

No. 54961

With automatic copying



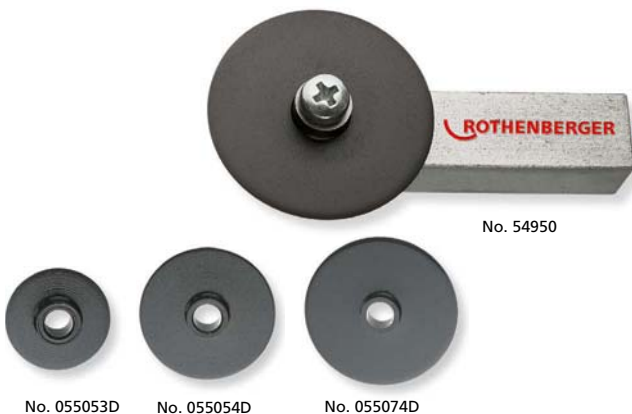
No. 55029

No. 55019

Model	Cutting depth mm	g	No.
Cutter blade shaft with Automatic copying and HM cutter blade inserts	7.5	110	<b>54960</b>
Cutter blade shaft with Automatic copying and HM cutter blade inserts	12.5	120	<b>54961</b>
Spare HM cutter blade insert for Cutting and chamfering 15°	7.5	10	<b>55029</b>
Spare HM cutter blade insert for Cutting and chamfering 15°	12.5	20	<b>55019</b>

### Cutter Wheels

#### ROCUT® 110 and ROCUT® 160



No. 54950

No. 055053D

No. 055054D

No. 055074D

Model	Cutting depth mm	g	No.
Cutter blade shaft with Cutter wheel (No. 55074)	16.0	130	<b>54950</b>
Spare cutter wheels (2 pcs.)	8.6	10	<b>055053D</b>
Spare cutter wheels (3 pcs.)	13.0	20	<b>055054D</b>
Spare cutter wheels (2 pcs.)	16.0	20	<b>055074D</b>



# Plastic Pipe Welding

## Cutting

### ROCUT® UKS 160 / 355

High-performance orbital circular saw Ø 160 - 355 mm



#### Product Profile

#### APPLICATION AREA

For cutting of plastic pipes made of PE, PP and PVC  
For use on the building site or in the workshop

#### KEY FEATURES

- Right-angled cuts with no misalignment
- Efficient and economical operation with high cutting speed
- Safe operation with saw blade guard
- Optimum pipe centering

#### TECHNICAL DATA

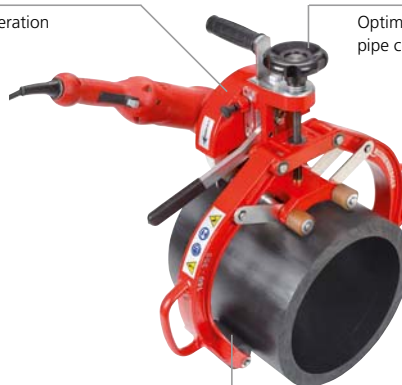
<b>Voltage:</b>	230 V 50 / 60 Hz
<b>Power:</b>	1,750 W
<b>Outer pipe diameters:</b>	160 mm - 355 mm
<b>Wall thickness pipe:</b>	8 mm - 40 mm

Saw blade guard

Safe operation

Central clamping

Optimum pipe centering



No. 55505

Rubberised guide rollers

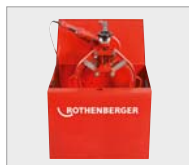
Right-angled cuts with no misalignment



Four rubberised clamping & guide rollers ensure right-angled cuts with no misalignment

Secure clamping and optimum pipe centering are guaranteed by the central trapezoidal clamping device

Transport box without saw  
No. 1200000526



Model	kg	No.
ROCUT®UKS 160 / 355, complete with HM saw blade (No. 55505), without transport box	12.9	<b>1000000532</b>
Spare HM saw blade 180 x 30 mm with spacer	0.6	<b>55505</b>
Transport box 700 x 350 x 500 mm	16.8	<b>1200000526</b>

### ROCUT® XL

Pipe cutter for pipes Ø 125 - 315 mm

#### Product Profile

#### APPLICATION AREA

For cutting-off pipes in trenches, for making repairs or extensions

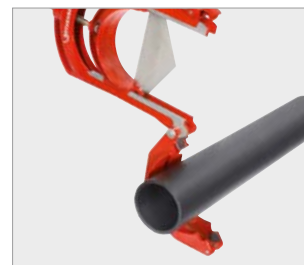
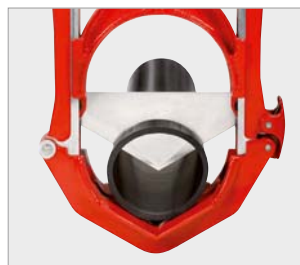
#### KEY FEATURES

- Can be easily adjusted anywhere at the pipe
- Robust blade made of stainless steel



An optimised cutting angle for easier pipe cutting

The lower clamp can be folded out completely. Therefore ROCUT XL can be used at any desired position of the pipe



#### Replacement blade

Scope of delivery: 1 replacement blade + fastening screws

Description	mm	Inch	Wall thickness	No.
ROCUT XL 125	up to 125 mm	up to 4"	max. 11.4 mm	<b>1500000789</b>
ROCUT XL 225	up to 225 mm	up to 8"	max. 18 mm	<b>1500000790</b>
ROCUT XL 315	up to 315 mm	up to 12"	max. 18 mm	<b>1500000792</b>

Model	kg	No.
For ROCUT XL 125	0.3	<b>1500000793</b>
For ROCUT XL 225	0.7	<b>1500000794</b>
For ROCUT XL 315	2.1	<b>1500000795</b>



### ROWELD® P 125

Socket welding unit for use with heating spigots and heating sockets for Ø 16 - 125 mm, as well as adaptor plates for butt welding

#### Product Profile

#### APPLICATION AREA

With three simultaneously usable welding combinations for free-handed working or workbench assembly using table mounting clamp

#### KEY FEATURES

- Process reliability with the temperature control according to DVS, CEN and ISO standards
- With high-quality non-stick Teflon coating, long service life and manufactured according to DVS regulations
- Electronic temperature control and monitoring, as well as prevention against unintentional temperature adjustment
- Saves time and money with quick-exchange system for heating plates
- Optimum temperature distribution over the entire working area
- 4 holes for mounting of heating spigots and heating sockets



No. 55321

Heating spigots / Heating sockets



Adaptor plate



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	<b>55321</b>
P 125 Set	1,300	63 - 125	electronically	17.05	<b>55546</b>

#### Heating Spigots / Heating Sockets

Model	kg	No.	Model	kg	No.
16	0.06	<b>55585</b>	40	0.26	<b>55592</b>
17	0.06	<b>55586</b>	50	0.37	<b>55593</b>
18	0.08	<b>55587</b>	63	0.60	<b>55594</b>
19	0.08	<b>55588</b>	75	0.89	<b>55595</b>
20	0.08	<b>55589</b>	90	1.33	<b>55596</b>
25	0.10	<b>55590</b>	110	2.07	<b>55597</b>
32	0.17	<b>55591</b>	125	2.33	<b>55598</b>

### ROWELD® HE Heating Plates

Heating plates for butt welding of PE, PP, PVDF and PB pipes and fittings with Ø 20 - 250 mm

#### Product Profile

#### APPLICATION AREA

Plastic pipe heating plates for free-handed working or workbench assembly using table mounting clamp

#### KEY FEATURES

- Long service life and manufactured according to DVS regulations
- Process reliability with the temperature control according to DVS, CEN and ISO standards
- Electronic temperature control and monitoring as well as prevention against unintentional temperature adjustment
- Save time and money with quick-exchange system for heating plates



Power watts	Heating element Ø mm	Control Model	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
500	120/45°	electronically	1.80	<b>55518</b>	<b>55517</b>
800	200	electronically	3.25	<b>55316</b>	<b>55851</b>
1,500	300	electronically	5.35	<b>55317</b>	<b>55854</b>
Table mounting clamp			0.45	<b>55524</b>	<b>55524</b>

#### ACCESSORIES

Model	kg	No.	Model	kg	No.
Table mounting clamp for P 125	0.45	<b>55524</b>	Floor stand for ROWELD® P 125	0.44	<b>55539</b>
Adaptor plate for butt welding ROWELD® P 125 Ø 160 mm (1 set = 2 pcs) non-stick Teflon coating	1.15	<b>55536</b>			

# Plastic Pipe Welding

## Socket Welding

### ROWELD® P 63 S-6 Sword

Socket welding unit Ø 20 - 63 mm



#### Product Profile

##### APPLICATION AREA

Socket welding unit for use with heating spigots and heating sockets Ø 20 - 63 mm with three simultaneously usable combinations for welding sockets, pipes and fittings up to Ø 63 mm

##### KEY FEATURES

- Increased flexibility and combination options for every day use
- Long service life and according to DVS regulations
- All important information at a glance
- Safe operation with the temperature control as per DVS regulations

##### KEY FEATURES

- Light and handy for fatigue-free use
- Simple to use even in confined spaces
- Floor stand is available at all times

##### TECHNICAL DATA

<b>Power:</b>	800 W
<b>Model:</b>	Thermostatic or electronically controlled
<b>Pipe diameter:</b>	For sockets, pipes and fittings from Ø 20 - 63 mm
<b>Voltage:</b>	230 V, 50 / 60 Hz 110 / 115 V, 50 / 60 Hz

#### 3 holes for mounting heating spigots and heating bushes

Increased flexibility and combination options for every day use

#### Heating spigots and heating bushes (Ø 20 - 63 mm) with high quality PTFE-anti-stick-covering

Long service life and according to DVS regulations

#### Isolator prevents heat transport to the case

Efficient heat protection

#### Control lamps for controls and intervals

All important information at a glance

#### Temperature selector switch for electronic temperature control and monitoring

Process safety thanks to temperature control according to DVS

#### Automatic overheating protection

Unit safety

#### Heating plate with an especially narrow sword form

Simple to use even in confined spaces

#### Unit has an integrated and retractable floor stand

Floor stand is always available when needed



# Plastic Pipe Welding

## Socket Welding

### ROWELD® P 63 S-6 Sword Set

P-63 S-6 Sets include: Heating spigots, allen key size 6 (No. 321216), socket-head screws and table mounting clamp in plastic carrying case

**Electronically controlled for a constant temperature!**



Fig. P 63 S-6, thermostatically controlled



Fig. P 63 S-6, electronically controlled

Model	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	<b>053892X</b>	<b>053894X</b>
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	thermostatic	5.30	<b>053893X</b>	<b>053889X</b>
P 63 S-6 set	20, 25, 32	800	electronically	4.30	<b>053890X</b>	<b>053886X</b>
P 63 S-6 set	20, 25, 32, 40, 50, 63	800	electronically	5.30	<b>053891X</b>	<b>053887X</b>
P 63 S-6 single unit		800	thermostatic	1.78	<b>053897X</b>	
P 63 S-6 single unit		800	electronically	1.78	<b>053896X</b>	

#### P 63 S-6 set thermostatically controlled



#### Secure workbench operation, integrated holder for the table mounting clamp



### Heating Spigots & Sockets (Form A) for P 63 S-6

With high-quality non-stick Teflon coating with a long service life and manufactured according to DVS regulations

Working range Ø mm	g	No.
20	80	<b>53511</b>
25	100	<b>53512</b>
32	170	<b>53513</b>

Working range Ø mm	g	No.
40	260	<b>53514</b>
50	370	<b>53515</b>
63	600	<b>53516</b>



# Plastic Pipe Welding

## Hot Gas Welding

### ROWELD® Quick S / WG 1600 E



#### Product Profile

##### APPLICATION AREA

Processing of roofing materials. Welding of sheets, films, tents, in boat building, refuse dump construction. Shrinking of fittings and sleeves in the electrical industry. Repair and processing of plastic parts in automobile repair shops. Hot air welding, shaping and shrinking of thermoplastics in the workshop or on building sites

##### KEY FEATURES

- Suitable for continuous operation
- Light, handy and robust
- Welding temperature up to 700° C, continuously adjustable
- Clip-on speed nozzles, no screws
- Easy fitting of the nozzles in all working applications

##### KEY FEATURES

- Service-friendly: Heater assembly easily replaceable
- Ideal for stationary use in the workshop, powerful, light (700 g) and handy hot gas welding unit (WG 1600 E)
- Active device protection for a long service life. In case of an air supply failure, a safety circuit reduces the heating power and switches it off completely after 30 seconds (WG 1600 E)

##### TECHNICAL DATA

**Air requirement:** 80 - 250 l / min  
We recommend the air compressor V 26, (No. 53378) for the WG 1600 E

**Heating element:** heating element with electronic temperature control



No. 55760



No. 55780

Model	kg	230 V 50 / 60 Hz
ROWELD® Quick S complete with 5 mm tubular nozzle (No. 55769)	1.4	<b>55760</b>

Model	g	230 V 50 / 60 Hz
ROWELD® WG 1600 E complete with 5 mm tubular nozzle (No. 55769)	700	<b>55780</b>

### Nozzles and Accessories for Quick S and WG 1600E



Model	Part-No.	mm	g	No.
Universal tubular nozzle	1	5.0	40	<b>55769</b>
Wide slot nozzle, angled	2	20.0	50	<b>55778</b>
Wide slot nozzle	3	40.0	60	<b>55779</b>
Speed nozzle for round welding rod	4	3.0	20	<b>55773</b>
Speed nozzle for round welding rod		4.0	20	<b>55774</b>
Speed nozzle for round welding rod		5.0	20	<b>55775</b>
Triangular speed nozzle for profiled welding rod	5	5.0	20	<b>55776</b>
Triangular speed nozzle for profiled welding rod		7.5	20	<b>55777</b>
Tacking nozzle	6	20	20	<b>55772</b>
Shrinkage reflector	7	60		<b>55783</b>

Model	Part-No.	g	No.
Pressure roller, 45 mm for overlap welding of sheets	8	210	<b>55816</b>
Universal scraper set for preparing welded seams (consisting of handle, triangular, heart and multi-shaped blades)	9	210	<b>53380</b>
Phillips screwdriver for nozzle mounting	10	40	<b>73152</b>
Heating plate 1,500 Watt	11	80	<b>55800</b>
Spare carbon (1set = 2 pcs.) for Quick S		10	<b>55793</b>
Reinforced plastic pipe 3 m (f. WG 1600 E)	12	350	<b>55782</b>
Steel case for ROWELD® HG 1600 E		4,400	<b>55799</b>



# Plastic Pipe Welding

## Electro-Fusion Welding

### ROWELD® ROFUSE Sani 160

Universal electro-fusion welding unit for drainage pipe with welding sockets up to Ø 160 mm



#### Product Profile

##### APPLICATION AREA

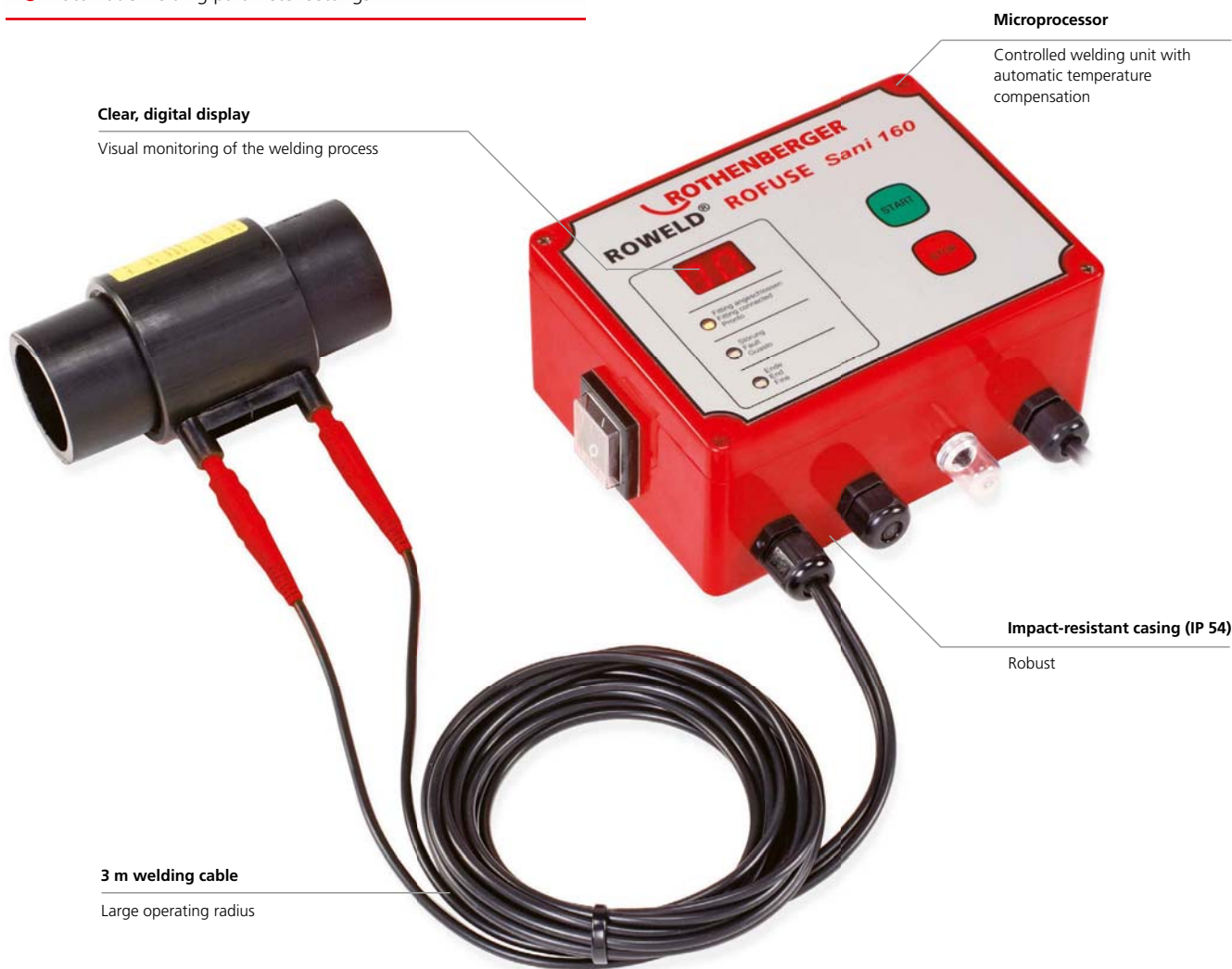
Universal electro-fusion welding unit for PE and PP drainage pipe fittings, for 230 V fittings. For the following makes: Geberit, Akatherm-EUR, Coes, Valsir, WAVIN-Duo, Aquatherm and Vulcathene-Euro

##### KEY FEATURES

- Microprocessor-controlled welding unit with automatic temperature compensation of the welding time
- Visual monitoring of the welding process
- Large operating radius
- Robust and impact resistant casing (IP 54)
- Automatic welding parameter settings

##### TECHNICAL DATA

<b>Input Voltage:</b>	230 V
<b>Tolerance:</b>	180 V - 280 V
<b>Frequency:</b>	40 Hz - 70 Hz
<b>Output voltage:</b>	230 V
<b>Protection class:</b>	IP 54
<b>Temperature range:</b>	-5 °C up to + 40 °C
<b>Max. Output current:</b>	5 A
<b>Weight:</b>	1.4 kg
<b>Dimensions:</b>	120 x 160 x 77 mm
<b>Welding cable:</b>	3 m



**Clear, digital display**

Visual monitoring of the welding process

**Microprocessor**

Controlled welding unit with automatic temperature compensation

**Impact-resistant casing (IP 54)**

Robust

**3 m welding cable**

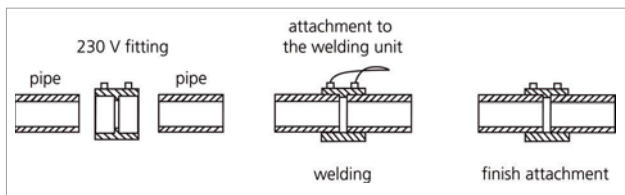
Large operating radius



Carrying bag



Easy to transport



Model kg No.

ROWELD® ROFUSE Sani 160 with carrying bag 1.4 54230

# Plastic Pipe Welding

## Electro-Fusion Welding

### ROWELD® ROFUSE

Universal electro-fusion welding unit Ø 1,200 mm  
ROFUSE basic and ROFUSE II up to Ø 315 mm



#### Product Profile

##### APPLICATION AREA

For PE- and PP fittings from < 48 V, up to Ø 1,200 mm

##### KEY FEATURES

- 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 with Rofuse Print+, serial port with the ROFUSE basic 48 V
- Welding monitoring system

##### ROWELD® ROFUSE / ROFUSE+

- Display 4 x 20, characters with 5 mm font size and LED illumination

##### TECHNICAL DATA

<b>Input voltage:</b>	230 V
<b>Frequency:</b>	50 Hz - 60 Hz
<b>Output voltage:</b>	8 V - 48 V
<b>Protection rating:</b>	IP 54
<b>Barcode scanner:</b>	Yes
<b>Logging:</b>	<b>ROFUSE/ROFUSE+:</b> No
	<b>ROFUSE 48 V basic:</b> 500 records
	<b>ROFUSE Print+:</b> 10.000 records
	<b>ROFUSE II:</b> 300 records

##### ROWELD® ROFUSE Print+:

- Automatic logging for 10.000 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

##### GPS

Precise locating of the fitting  
in case of damage

##### USB Port

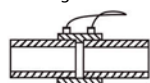
Data transfer over a  
USB stick and output  
of data as a PDF



< 48 V Fitting



Connection to  
welding machine



Completed joint

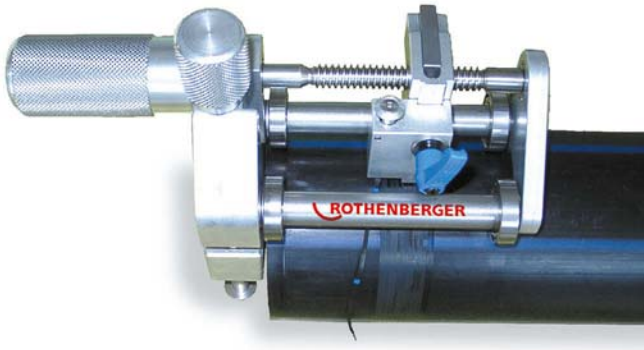


110V versions on request

Description	Frequency	Input voltage	kg	No.
ROWELD® ROFUSE basic 48 V2	40 - 70 Hz	180 - 280 V	16.0	<b>150000856</b>
ROWELD® ROFUSE II	45 - 55 Hz	210 - 250 V	25.0	<b>355000016</b>
ROWELD® ROFUSE V2	40 - 70 Hz	180 - 280 V	16.0	<b>150000857</b>
ROWELD® ROFUSE+ V2	40 - 70 Hz	180 - 280 V	16.0	<b>150000858</b>
ROWELD® ROFUSE Print+ V2	40 - 70 Hz	180 - 280 V	16.0	<b>150000859</b>
ROWELD® ROFUSE Print+ GPS V2	40 - 70 Hz	180 - 280 V	16.0	<b>150000881</b>
Aluminium transport case (not for ROFUSE II)			3.1	<b>54054</b>

### Peeling device for electric socket welding

For secure, quick preparation of the pipe, in transport case.



Description	Ø Model	No.
Size I	32 - 110 mm	<b>53240</b>
Size II	110 - 500 mm	<b>53250</b>

### Clamping device for electric socket welding

For alignment and fixation of the pipe before and during the welding cycle.

#### Double clamp short

For alignment and fixation of the pipe before and during the welding cycle.

Description	Ø	No.
Double clamp adjustable	32 mm	<b>53251</b>
Double clamp adjustable	40 mm	<b>53252</b>
Double clamp adjustable	50 mm	<b>53253</b>
Double clamp adjustable	63 mm	<b>53254</b>
Double clamp short	75 mm	<b>53255</b>
Double clamp short	90 mm	<b>53256</b>
Double clamp short	110 mm	<b>53257</b>
Double clamp short	125 mm	<b>53258</b>
Double clamp short	140 mm	<b>53259</b>
Double clamp short	160 mm	<b>53260</b>
Double clamp short	180 mm	<b>53261</b>
Double clamp short	200 mm	<b>53262</b>
Double clamp short	225 mm	<b>53263</b>

### Squeezing device

- **Mechanical:**

Range of use from Ø 32 - Ø 63 mm.  
To avoid damage to the squeezed area, distance plates can be adjusted on the side.

- **Hydraulic:**

Range of use from Ø 75 - Ø 225 mm.  
Functions as mentioned above.  
With this unit you can reform squeezed pipes with the help of the rounding shells.



Description	Ø Working range	No.
Squeezing device mechanical	32 - 63 mm	<b>53200</b>
Squeezing device hydraulic	75 - 180 mm	<b>53210</b>
Squeezing device hydraulic	160 - 225 mm	<b>53220</b>

### Quad clamps

For manufacturing standard connections with rod shaped material Ø 63 - 225 mm.

### Rounded clamps

For fixation of the welding depth and for rounding PE pipes after squeezing.

Description	Ø	No.
Quad clamp	75 mm	<b>53272</b>
Quad clamp	90 mm	<b>53273</b>
Quad clamp	110 mm	<b>53274</b>
Quad clamp	125 mm	<b>53275</b>
Quad clamp	140 mm	<b>53276</b>
Quad clamp	160 mm	<b>53277</b>
Quad clamp	180 mm	<b>53278</b>
Quad clamp	200 mm	<b>53279</b>
Quad clamp	225 mm	<b>53280</b>
Rounded clamp	25 mm	<b>53281</b>
Rounded clamp	32 mm	<b>53282</b>
Rounded clamp	40 mm	<b>53283</b>
Rounded clamp	50 mm	<b>53284</b>
Rounded clamp	63 mm	<b>53285</b>



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 110

Plastic pipe welding machine Ø 20 - 110 mm



#### Product Profile

##### APPLICATION AREA

For butt welding of pipes and fittings made of PE, PP, PB and PVDF. Particularly suited for installation work and for work in confined spaces - also in pipe networks

##### KEY FEATURES

- Production of segmented bends possible
- Precise pressure adjustment
- Single and double-sided trimming possible

##### KEY FEATURES

- Production of pipe and fitting joints
- Secure hold and simple axial pipe alignment

##### TECHNICAL DATA

**Pipe diameter:** Ø 20 - 90 mm (SDR 41 - SDR 7.25)  
Ø 20 - 110 mm (SDR 41 - SDR 11)

**Weight:** 8.5 kg

**Size:** 450 mm total length

Narrow basic clamping elements can be used

Segmented bends can be produced

Wide aluminium reducer clamp inserts (Ø 20 - 90 mm) for pipes and pipe joints

Secure hold and simple axial pipe alignment

Mechanical stop adjustable from both sides

Single and double-sided trimming possible

Angles of the wide basic clamping elements adjustable on both sides (15° each)

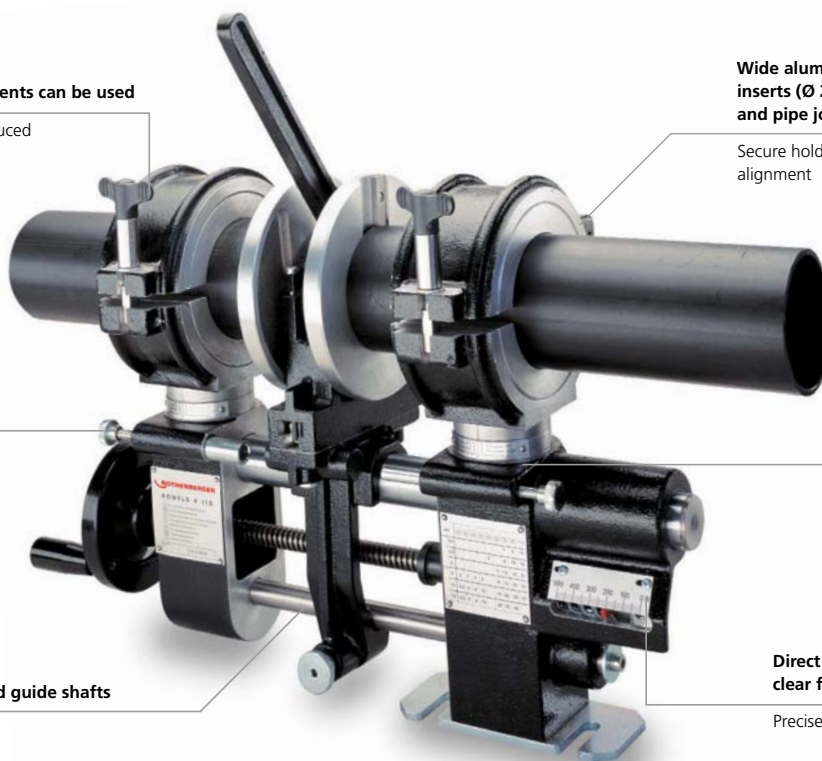
Segmented bends can be produced

Hardened, chrome-plated guide shafts

Absolutely warp-resistant

Direct force transmission and clear force scale

Precise pressure adjustment



9



Rectangular heating element



Joints between fittings and pipes with narrow and wide clamping elements



By adjusting the basic clamping element angles on both sides (15° each side) segmented bends can be produced



Scope of delivery (No. 55844): Basic machine (No. 55787) with table mounting brackets, manual trimmer unit (No. 55826), electronically controlled heating plates, basic clamping set R/R (No. 55807) (Ø 110 mm) and basic clamping set R/F, left (No. 55808) (Ø 110 mm), reducer clamping inserts R/R and R/F for Ø 40 - 90 mm, assembly tools, table mounting clamp (No. 55524), transport box (No. 55832)



Model	Working range Ø mm	Temperature control	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
ROWELD® P 110 complete	40, 50, 56, 63, 75, 90, 110	electronically	43	<b>55844</b>	<b>55924</b>

### ROWELD® P 110 Basic Machine

Model	kg	No.
ROWELD® P 110 basic machine with table mounting bracket	6.8	<b>55787</b>



### Basic Clamping Set 110 mm

Model	kg	No.
For wide/pipe joints (1 set = 2 clamps)	2.5	<b>55807</b>
For narrow/fitting joints, left (1 clamp)	1.0	<b>55808</b>
For narrow/fitting joints, right (1 clamp)	1.0	<b>55809</b>



### Reducer Clamping Inserts Wide

Each set includes 4 aluminium half-shells

mm	kg	No.	mm	kg	No.
20	1.9	<b>55318</b>	56	1.6	<b>55122</b>
25	1.9	<b>55126</b>	63	1.4	<b>55121</b>
32	1.8	<b>55125</b>	75	1.6	<b>55120</b>
40	1.7	<b>55124</b>	90	1.1	<b>55119</b>
50	1.7	<b>55123</b>			



### Reducer Clamping Inserts Narrow

Each set includes 4 metal half-shells

mm	kg	No.	mm	kg	No.
20	0.6	<b>55319</b>	56	0.5	<b>55130</b>
25	0.6	<b>55134</b>	63	0.5	<b>55129</b>
32	0.5	<b>55133</b>	75	0.4	<b>55128</b>
40	0.5	<b>55132</b>	90	0.3	<b>55127</b>
50	0.5	<b>55131</b>			



### Manual Trimmer Unit

Model	kg	No.
With machine holder	1.90	<b>55826</b>
Spare blade (1 set = 2 blades)	0.05	<b>55152</b>



### Heating Plate

With non-stick Teflon coating, 180 x 130 mm, 800 Watt

Model	kg	230 V 50/60 Hz	110/115 V 50/60 Hz
Electronically controlled	2.6	<b>55324</b>	<b>55918</b>
Table clamp	0.7	<b>55524</b>	<b>55524</b>



### Flange Adaptor Clamping Unit

For centred welding of flanges

Model	kg	No.
Flange adaptor clamping unit	1.50	<b>55199</b>
Steel carrying case (540 x 345 x 355 mm)	14.20	<b>55832</b>
Allen key SW 6	0.03	<b>321216</b>
Allen key SW 8	0.05	<b>321218</b>



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 160 SANILINE

Plastic sanitary pipe welding machine from Ø 40 - 160 mm



#### Product Profile

##### APPLICATION AREA

For butt welding of PP, PB and PVDF pipes and fittings, especially suitable for 45° branches and tight elbows. For use on building sites or in the workshop

##### KEY FEATURES

- Versatile for difficult situations with the removable heating plates
- Secure clamping of pipes, fittings, tight 45° branches and 90° elbows
- Protects against unintentional starting and derailing of the trimmer unit
- Precise pressure adjustment

##### KEY FEATURES

- Minimum drag force
- 40% higher stability with simultaneously optimised force distribution
- All common sanitary installation fittings can be clamped

##### TECHNICAL DATA

<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

#### Multi-faceted options for clamping

All commonly used moulded bodies installed in a sanitary installation can be clamped

#### Anti-slip Ø 40 - 140 mm reduction clamping inserts with clamping force regulation

Secure mounting of pipes, moulded bodies, tight 45° forks and 90° bends

The pressure applied can be adjusted separately on both sides

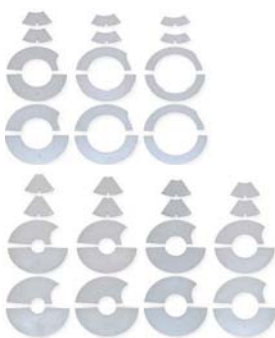
One-sided and two-sided milling is possible

Direct force transmission and a clearly arranged force scale

Precise force adjustment



Saniline special edition with Folding trolley (No. 54401)



Trimmer attachment (No. 54040) (special accessories)



Basic clamping set (No. 54082) (special accessories)



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	Temperature control	kg	230 V 50 Hz	110/115 V 50 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 160 SANILINE Basic Machine

Basic machine includes: Trimmer unit (1,050 W), heating plate (800 W), basic clamp set Ø160mm pipe supports Ø 160 mm

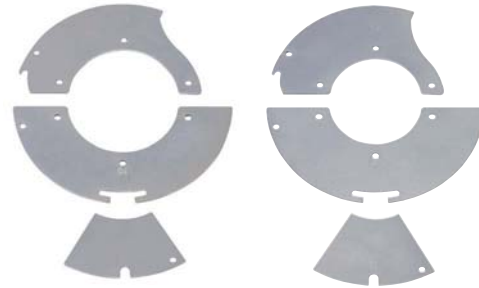


Model	kg	230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 160 SANILINE Basic machine	34.4	<b>54005</b>	<b>54006</b>

### Reducer Clamping Inserts

Set includes: Reducer inserts (4 half-shells), pipe supports

Nominal size	kg	No.	Nominal size	kg	No.
40	1.6	<b>54083</b>	90	1.6	<b>54088</b>
50	1.6	<b>54084</b>	110	1.7	<b>54089</b>
56	1.6	<b>54085</b>	125	1.5	<b>54090</b>
63	1.6	<b>54086</b>	140	1.5	<b>54091</b>
75	1.6	<b>54087</b>			



### Trimmer Adaptor (special accessories)

Ø 40 - 75 mm for trimming 45° branches, replaceable blades

Model	kg	No.
Trimmer attachment for 45° branches Ø 40 - 75 mm	0.63	<b>54040</b>



### Basic Clamping Set (special accessories)

For outer clamping position, especially for welding pressure pipes, includes 2 basic clamps, left and right, up to Ø 160 mm

Model	kg	No.
Basic clamping set Ø 160 mm	5.3	<b>54082</b>



### ROWELD® P 160 SANILINE Conversion Kit

Converting existing ROWELD® P 160 SANILINE with universal clamp system

Set (No. 54080) includes: Basic clamping set Ø 160 mm left and right, (No. 54082) as well as two reducer clamping sets (left and right) for the diameters 40, 50, 63, 75, 90, 110 and 125 mm

Model	Working range Ø mm	kg	No.
Conversion Kit	40, 50, 63, 75, 90 110, 125, 160	11.20	<b>54080</b>
Trolley and transport sub-frame		11.30	<b>54015</b>
Folding trolley		20.00	<b>56051</b>
Steel case for reducer inserts		2.32	<b>54020</b>
Open-ended spanner SW 17 DIN 894		0.05	<b>310411</b>
Trimmer unit blades 75 mm (Set = 2 blades)		0.10	<b>55685</b>
Blades 35 mm for trimmer adaptor		0.01	<b>55686</b>
Heating plate 230 V / 115 V / 110 V		1.92	<b>55316 / 55851</b>
Trimmer blade, carbide 75 mm Set = 2 blades		0.05	<b>55684</b>



No. 54080

No. 54015



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 250 A

Plastic pipe welding machine Ø 40 - 250 mm



#### Product Profile

##### APPLICATION AREA

For use on building sites and in the workshop. Particularly suited for sanitary installations, drain pipe laying as well as chimney reconditioning with PVDF liners

##### KEY FEATURES

- Versatile for difficult situations with the removable heating plates
- Protects against unintentional starting and derailing of the trimmer unit
- Single and double-sided trimming possible
- Warp-resistant for minimum drag and low pressure transfer loss

##### KEY FEATURES

- Precise welding pressure adjustments on the clear force scale
- Reliable, warp-resistant transfer of the welding pressure
- Stable working table always available

##### TECHNICAL DATA

<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>	450 W
<b>Heating plate:</b>	1,200 W

#### Electric, high-torque safety trimmer unit (450 watt) locks into place in the working position

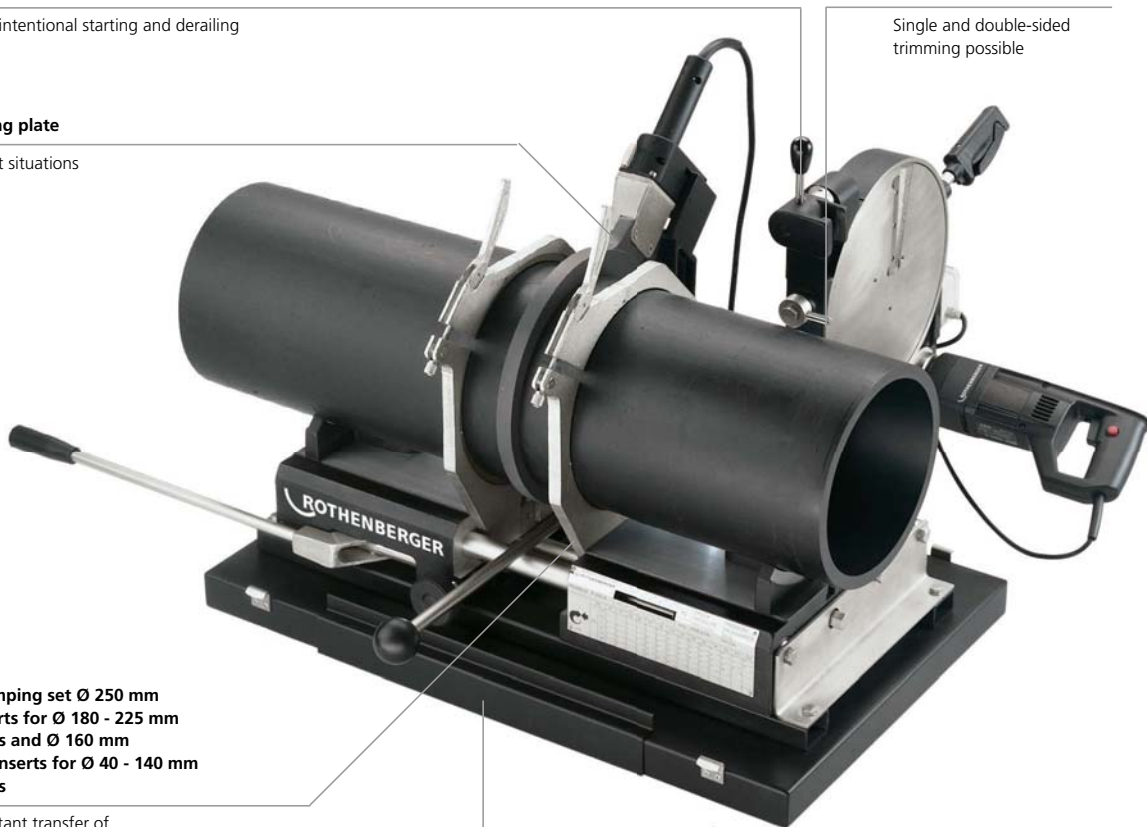
Protects against unintentional starting and derailing of the trimmer unit

#### Mechanical stop adjustable from both sides

Single and double-sided trimming possible

#### Removable heating plate

Versatile for difficult situations



#### Rugged basic clamping set Ø 250 mm with reducer inserts for Ø 180 - 225 mm plus pipe supports and Ø 160 mm set with reducer inserts for Ø 40 - 140 mm plus pipe supports

Reliable, warp-resistant transfer of the welding pressure

#### Mounted machine carriage is smooth running, hardened, chrome-plated ball lining driven in guide shaft

Warp-resistant, for minimum drag force and low loss of pressure transfer

9



Model	Working range Ø mm	Temperature control	kg	230 V 50 Hz	110/115 V 50 Hz
ROWELD® P 250 A Set	40, 50, 56, 63, 75, 90, 110, 125, 160, 180, 200, 225, 250	electronic	131.0	<b>55795</b>	<b>55796</b>
ROWELD® P 250 A basic machine			36.1	<b>55768</b>	<b>55738</b>



### ROWELD® P 250 A Set

#### Basic machine with trimmer unit

Set includes: holder for heating plate, electronically adjustable heating plate, basic clamping set Ø 160 mm and 250 mm support fork inserts Ø 160 mm and 250 mm, reducer inserts and support fork inserts from Ø 40 - 140 mm and Ø 180 - 225 mm, installation tools, steel transport box 800 x 520 x 765 mm (LxVxH) and steel carrying case for reducer and support fork inserts



### Basic Clamping Set

Set includes: 2 basic clamps and 2 support forks

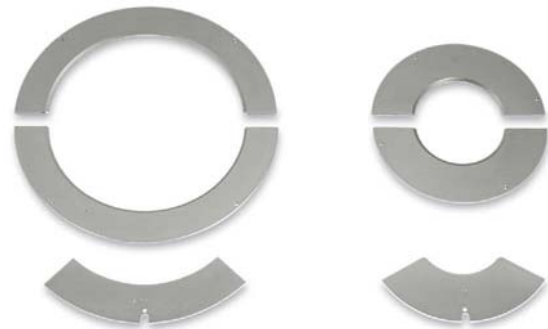
mm	kg	No.	mm	kg	No.
160	7.25	<b>55742</b>	250	10.10	<b>55717</b>



### Reducer Clamping Insert Set

Each set consists of: Pipe clamping inserts (4 metal half-shells) and support fork inserts (2 metal half-shells) for basic clamping set (No. 55742)

mm	kg	No.	mm	kg	No.
32	1.89	<b>55753</b>	110	1.26	<b>55746</b>
40	1.89	<b>55752</b>	114	1.20	<b>55745</b>
50	1.81	<b>55751</b>	125	1.06	<b>55744</b>
56	1.83	<b>55750</b>	140	0.80	<b>55743</b>
63	1.75	<b>55749</b>	180	2.46	<b>55721</b>
75	1.68	<b>55748</b>	200	2.03	<b>55718</b>
90	1.50	<b>55747</b>	225	1.41	<b>55719</b>



### Heating Plate

Non-stick Teflon coating. Ø 300 mm, 1,500 Watt

Model	kg	230 V		110 V / 115 V	
		50 / 60 Hz		50 / 60 Hz	
Electronically controlled	5.35	<b>55317</b>	<b>55854</b>		
Spare knife (1 set = 2 piece)	0.10			<b>55163</b>	
Allen key size 8	0.20	<b>321218</b>	<b>321218</b>		
Transport box, protective cover red	25.00	<b>55759</b>	<b>55759</b>		
Steel carrying case	2.82	<b>54020</b>	<b>54020</b>		






No. 55317 / No. 55854

# Plastic Pipe Welding

## Butt Welding

### ROWELD® hydraulic concept "Made in Germany"

The ROWELD® hydraulic unit is available in a **professional** and **premium** version. The premium hydraulic unit is divided into **Premium** and **Premium CNC** capacities.

<b>Everything at a glance...</b>			
	<b>Type Professional</b>	<b>Type Premium</b>	<b>Type Premium CNC</b>
Temperature control	●	●	●
Pressure reading analogue	●	—	—
Pressure reading digital	—	●	●
Pressure hold function	●	●	●
Logging system	—	●	●
Position sensor	—	—	●
Automatic parameter calculation	—	—	●
CNC-control	—	—	●
Touch screen	—	●	●
Colour display 3.5"	—	●	●
Menu language	—	●	●
Multi-lingual	—	●	●
USB port	—	●	●

### ROWELD® type Professional

Hydraulic butt welding machine Ø 40 - 1200 mm. Selection of components with a long service life ensures a low maintenance, robust and reliable operating mode

#### Product Profile

##### APPLICATION AREA

For heating element butt welding of PE, PP and PVDF pipes and moulded bodies. For use on the building site, in pipe trenches, on pipe bridges and in workshops. The ROWELD® Hydraulic type Professional with infinite pressure adjustment, an easily legible manometer and pressure reservoir for welding according to DVS and other internationally valid guidelines and standards.

##### WORKING RANGE

Description	ø mm	ø Inch
P 160 B / P 5 B	40 - 160 mm	1.1/4" - 5"
P 200 B	63 - 200 mm	
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"
P 800 B	500 - 800 mm	
P 1200 B / P 48 B	710 - 1200 mm	28 - 48"



Set P 355 B  
No. 100000383



### ROWELD® type Premium

Hydraulic butt welding machine Ø 90 - 630 mm.  
The Premium Hydraulic System guides the user  
step-by-step through the welding process.  
All parameters are documented automatically

#### Product Profile

##### APPLICATION AREA

The ROWELD® Hydraulic Premium with an integrated logging module for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

##### WORKING RANGE

Description	ø mm	ø Inch
P 250 B / P 8 B	90 - 250 mm	5 - 8"
P 355 B / P 12 B	90 - 355 mm	5 - 12"
P 500 B / P 18 B	200 - 500 mm	8 - 18"
P 630 B / P 24 B	315 - 630 mm	12 - 24"



##### TECHNICAL DATA

**Automatic logging:** 10,000 logs  
**Data output:** USB interface  
**Languages:** DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, further languages available upon request  
**Welding monitoring:** Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions in accordance to DVS  
**Logging:** in accordance to DVS  
**Welding standards:** DVS, further standards available upon request, manual entry of welding parameters is possible



Set P 355 B  
No. 100000562

### ROWELD® type Premium CNC

Hydraulic butt-welding machine Ø 90 - 630 mm.  
The Premium CNC System enables a nearly fully  
automated operation. All parameters are documented  
automatically

#### Product Profile

##### APPLICATION AREA

The ROWELD® Hydraulic Premium CNC with integrated CNC control and touch screen panel for the quick and reliable saving of the welding parameters in accordance with DVS and other applicable international guidelines and standards. Data transfer via USB interface

##### WORKING RANGE

Description	ø mm	ø Inch
P 250 B SA / P 8 B SA	90 - 250 mm	5 - 8"
P 250 B VA / P 8 B VA	90 - 250 mm	5 - 8"
P 355 B SA / P 12 B SA	90 - 355 mm	5 - 12"
P 500 B SA / P 18 B SA	200 - 500 mm	8 - 18"
P 630 B SA / P 24 B SA	315 - 630 mm	12 - 24"

SA = semi-automatic  
VA = fully automatic



Set P 355 B  
No. 100000563

##### TECHNICAL DATA

**Automatic logging:** 10,000 logs  
**Data output:** USB interface  
**Languages:** DE, EN, FR, ES, NL, PT, DK, SE, NO, FI, PL, TR, HU, SL, SK, RU, BG, further languages available upon request  
**Welding monitoring:** Optically with colour indication for welding pressure, welding temperature, welding times, as well as acoustical and optical for user actions in accordance to DVS  
**Logging:** in accordance to DVS  
**Welding standards:** DVS, further standards available upon request, manual entry of welding parameters is possible  
**With CNC Funktion:** During the welding process, all movements are performed by the machine, including dragging resistance and bead development measurement. Automatic extending heading element enables a fully-automatic welding process (optional, not available for all machines)



# Plastic Pipe Welding

## Butt Welding

### ROWELD® P 315 W / P 315 W CNC

Heating plate butt welding machine Ø 90 - 315 mm



#### Product Profile

##### APPLICATION AREA

- High-performance butt welding machine for single and serial production in the workshop
- For butt welding of PE, PP and PVDF pipes and fittings from
- Universal machine for pipe/pipe, pipe/fitting, pre-sealing strip welding
- Perfect for the prefabrication of pipe elbow segments and T-pieces

##### TECHNICAL DATA

Electrical Hydraulic unit:	400 W 230 V / 400 V, 50/60 Hz
Electrical Trimmer unit:	700 W
Heating plate:	3,000 W, 400 V, 50/60 Hz
Weight:	<b>P 315 W complete:</b> 523 kg <b>P 315 W Basic:</b> 385 kg <b>P 315 W CNC complete:</b> 523 kg <b>P 315 W CNC Basic:</b> 385 kg



Fig. ROWELD® P 315 W CNC

### ROWELD® P 630 W

Plastic pipe welding machine Ø 315 - 630 mm



#### Product Profile

##### APPLICATION AREA

For plastic pipe welding of PE and PP pipes.

##### KEY FEATURES

- Reliable, warp-resistant transfer of the welding force and exact control of the welding pressure
- Long-lasting heating plate according to DVS, CEN and ISO guidelines
- Workshop welding machine, et.al with rotatable tools for the manufacture of pipe elbows on each side up to 22.5°, as well as the possibility of series production of segments

##### TECHNICAL DATA

Electric-hydraulic unit:	2,250 W 400 V, 50/60 Hz
Electric trimmer unit:	3 kW 400 V, 50/60 Hz
Heating plate:	14 kW 400 V, 50/60 Hz

9



#### Long-lasting heating plate in accordance with DVS, CEN and ISO guidelines

Electronically controlled heating plate with high-quality, non-stick coating, can be positioned hydraulically

#### Exact control of the welding force

Hydraulic unit for continuous use with higher pressure consistency, no pressure loss during welding



### ROWELD® Manual welding extruder with integrated air supply

For welding containers, installations and pipeline construction in workshop and building site operation

#### Product Profile

##### WORKING RANGE

Description	Ø welding wire	Range of use
ROWELD® D2/20	3 mm	2 - 10 mm
ROWELD® D4/15 Aero Basic	3 mm, 4 mm	4 - 15 mm
ROWELD® D4/15 Aero	3 mm, 4 mm	4 - 15 mm
ROWELD® D8/30 Aero	3 mm, 4 mm	8 - 30 mm

##### TECHNICAL DATA

Description	Welding material	Welding performance	Power consumption	Temperature display	360° rotatable Pre-warming
ROWELD® D2/10	PE, PP, PVDF, PVC, PVC-C	Ø 3 mm, 0.6 kg/h	Pre-warming fan: 2.3 kW Heating belt 75 W	digital	
ROWELD® D4/15 Aero Basic	PE, PP, PVDF	Ø 3 mm, 1.1 kg/h	2.7 kW		•
	PE, PP, PVDF	Ø 4 mm, 1.8 kg/h	2.7 kW		
ROWELD® D4/15 Aero	PE, PP, PVDF	Ø 3 mm, 1.1 kg/h	3.4 kW	digital	•
	PE, PP, PVDF	Ø 4 mm, 1.8 kg/h	3.4 kW	digital	
ROWELD® D8/30 Aero	PE, PP, PVDF	Ø 3 mm, 1.8 kg/h	3.4 kW	digital	•
	PE, PP, PVDF	Ø 4 mm, 3.2 kg/h	3.4 kW	digital	



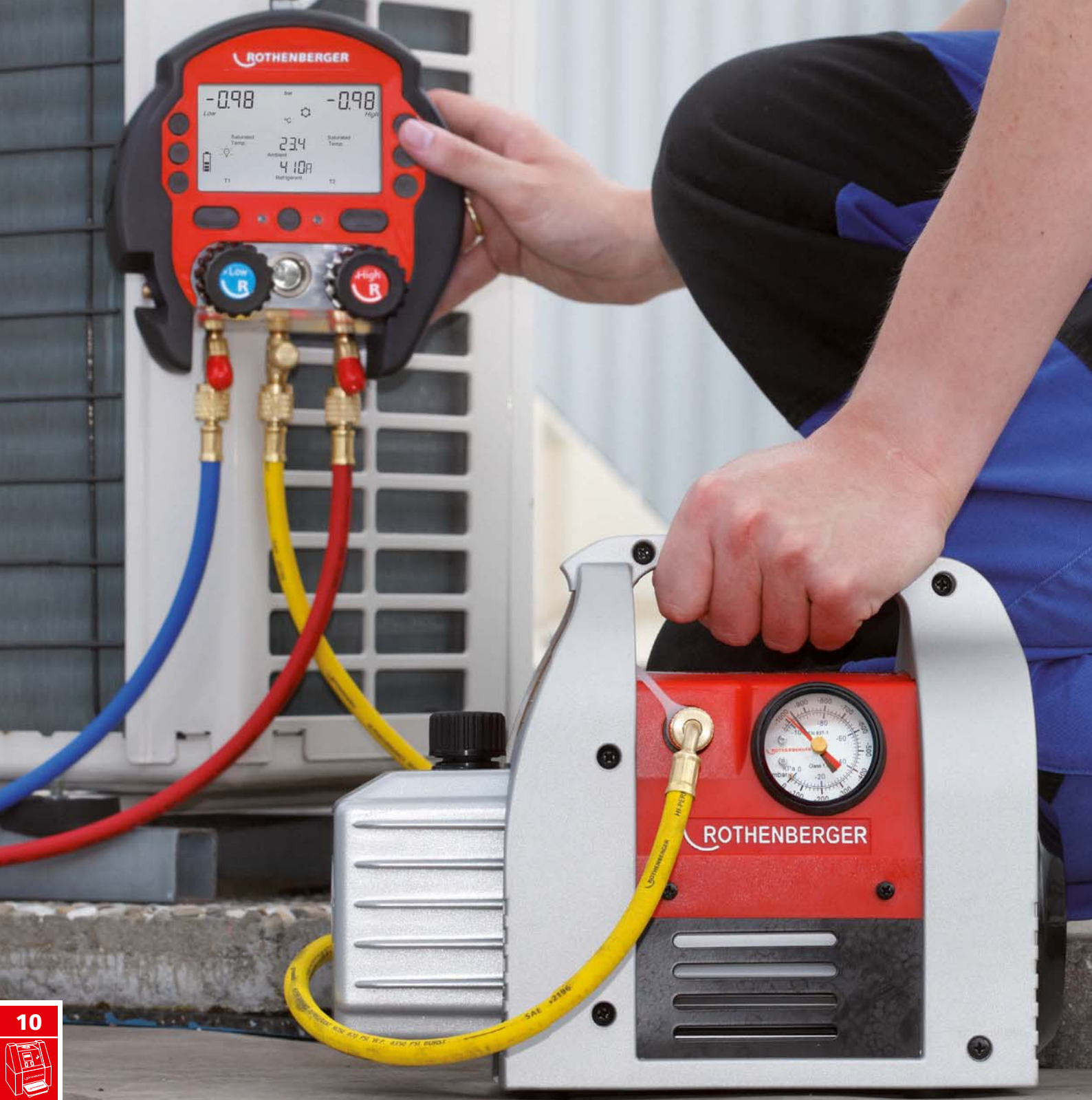
ROWELD® D4/ 15 Aero  
No. 55503

Sturdy drive  
long-lasting

### ROWELD® Manual welding extruder

Scope of delivery: 1 welding shoe, 1 set air jets, 1 unit stand, tool set

Description	kg	Voltage	Frequency	No.
ROWELD® D 2 / 10	3.4	230 V	50 / 60 Hz	<b>55504</b>
ROWELD® D 4 / 15 Aero Basic	4.8	230 V	50 / 60 Hz	<b>55502</b>
ROWELD® D 4 / 15 Aero	5.5	230 V	50 / 60 Hz	<b>55503</b>
ROWELD® D 8 / 30 Aero	7.8	230 V	50 / 60 Hz	<b>55506</b>



“ROCOOL 600 - For commissioning, maintenance work and documentation of refrigeration systems of all kinds – An absolute all-rounder due to the unique modular system”



# Refrigeration & Air-Conditioning Technology

<b>Complete Solutions</b>	
Commissioning and Maintenance	264 - 265
Evacuation and Charging	266
<b>Refrigeration Circuit Control</b>	
Digital Manifold	267
Analogue Manifold	268
Pressure Hose	269
Tool Set	269
<b>Leak Testing &amp; Locating</b>	
Nitrogen Set	270
Leak Detection Device	271
<b>Evacuation</b>	
Vacuum Pumps	272 - 273
<b>Recovery &amp; Filling</b>	
Refrigerant Recovery Device	274 - 275
Recycling Bottles, Refrigerant	276
Refrigerant Scale	277
<b>Accessories</b>	
Cleaning, Tools, Adaptors	278 - 279
<b>Instructions for the Use of Refrigerants</b>	280
<b>Conversion Table Pressure, Temperature</b>	281



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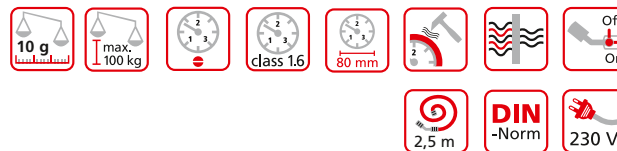
# Refrigeration & Air-Conditioning Technology

## Complete Solutions

### ROKLIMA® MULTI 4F

#### Fully automatic commissioning and maintenance of air-conditioning units and heat pumps

The innovative unit enables safe and comfortable operation on refrigeration systems. With simple menu navigation, **4 functions (4F)** are automatically controlled



R410A R22 R134a R407C R404A

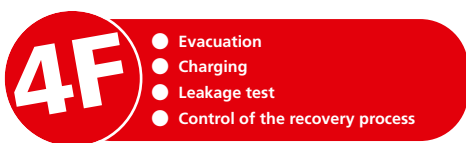
#### Product Profile

##### KEY FEATURES

- Pressure resistance up to 80 bar guarantees full use with heat pumps
- Everything you need within reach
- Simple menu guidance guarantees appropriate use
- Fully-automatic gives time for parallel work
- Safe transport

##### TECHNICAL DATA

<b>Weight:</b>	17 kg
<b>Final Vacuum:</b>	1 x 10 <sup>-2</sup> mbar
<b>Scale range:</b>	up to 100 kg
<b>Resolution:</b>	10 g
<b>Pressure hose length:</b>	2,500 mm
<b>Pump rating:</b>	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

#### Integrated high vacuum pump with 42 l/min suction performance

For evacuation of the system in accordance with **DIN 8975**

#### 3 different pressure gauges "Pulse-free", class 1.6, 80 mm

Universal use on air-conditioning units with all common refrigerants and operation in the high pressure range with R410A

#### 2 pressure hoses (2,500 mm) from the series "Plus" with ball valve

Safe and comfortable operation with refrigerants without the risk of refrigerant loss

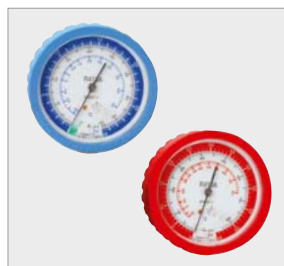
#### Plastic capillary hose

Safe, leak-free filling due to shut-off valve

#### Pull-out precision digital scale up to 100 kg

Secure stand for large and small containers

#### Shock-resistant low pressure and high pressure gauges for various refrigerants



#### Secure storage of all accessories



#### Pressure hoses: 2.5 m long with shut-off valve



#### Bottle adaptor No. 173204 / 05 for scale and 1/4" reducing pieces

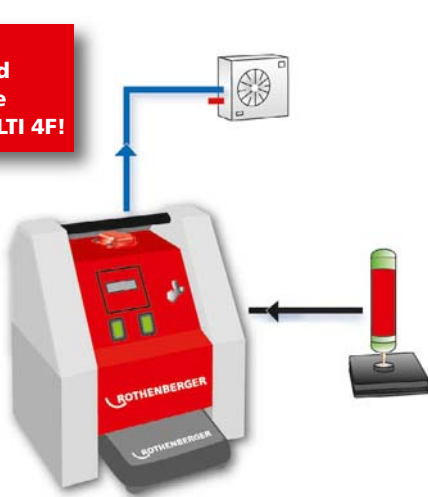




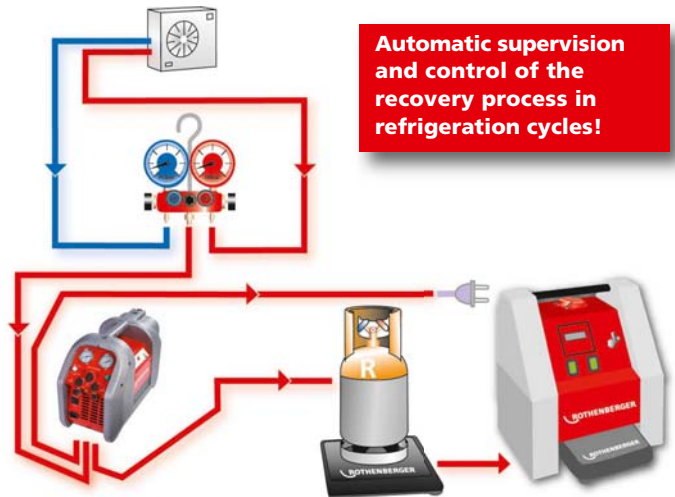
# Refrigeration & Air-Conditioning Technology

## Complete Solutions

**Automatic evacuation and filling with the ROKLIMA® MULTI 4F!**



**Automatic supervision and control of the recovery process in refrigeration cycles!**



ROKLIMA® MULTI 4F in use (evacuation and charging)



Scope of delivery (No. 100000138) includes: 2-stage vacuum pump, 2 low pressure gauges, 1 high pressure gauge R410A, 2 pressure hoses with ball valve à 2,500 mm, 2 bottle connection adaptors (1/4" SAE No. 173205, 5/16" SAE No. 173204), 2 reducing pieces 1/4" SAE - 5/16" SAE (No. 170016), precision digital scale up to 100 kg, automatic control, vacuum and pressure switch, mineral oil (No. 169200)

Model	kg	Box	No.
ROKLIMA® MULTI 4F	17.0	1	<b>100000138</b>
Reducer pieces 1/4" SAE F - 5/16" SAE M	0.1	1	<b>170016</b>

**Secure storage of Accessories:**  
pressure hoses bottle adaptor,  
plastic capillary hose



**Precision scale up to 100 kg**  
Resolution: 10 g  
Accuracy ± 1%



**Ergonomic, Compact**



**Light**



# Refrigeration & Air-Conditioning Technology

## Complete Solutions



### ROCADDY 120 / ROCADDY 120 Digital

Universal sets for evacuation and charging



#### Product Profile

##### KEY FEATURES

- Everything you need within reach
- Flexible use with the individual use of the tools
- Easy to transport

##### TECHNICAL DATA

- Electric digital scale ROSCALE 120 with a weight capacity of 120 kg and a measuring accuracy per measurement of 5 g
- 2-stage vacuum pump ROAIRVAC 1.5 with integrated vacuum meter and solenoid valve, as well as a pump rating of 42 l/min
- Digital manifold (with ROCADDY 120 Digital) for the automatic calculation of superheat and subcool. 77 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



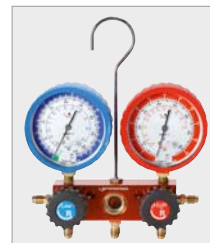
#### 2-stage high vacuum pump

For evacuation and removal of all moisture residue in refrigeration systems during installation per DIN 8975

#### 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)



#### ROCOOL 600

Automatic calculation of superheat and subcool. Optionally upgradable through attachment of a vacuum probe and a reading out function (with ROCADDY 120 Digital)

#### 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 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. 089401), 2x 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. 173205), bottle connection 5/16" (No. 173204) mineral oil (0.4 l), Tube Cutter 35 (No. 70027), Minicut II Pro (No. 70402), transport case (No. 169051)

ROCADDY 120 Digital includes: 2-stage vacuum pump ROAIRVAC 1.5 (No. 170061) with vacuum gauge and solenoid valve, 1x digital manifold ROCOOL 600 (No. 1000000569), 1x clamping thermometer (No. 1000000540), pressure hose set 1/4" SAE 1.500 mm with ball valve for R22, R134a, R407C (No. 1500000028), ROSCALE 120 (No. 173004), 1x 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. 173205), 1x bottle connection 5/16" (No. 173204) mineral oil (0.4 l), Tube Cutter 35 (No. 70027) Minicut II Pro (No. 70402), transport case (No. 169051)

Model	Performance	kg	No.		
R410A	R22	R134a	R407C	R404A	
ROCADDY 120	42 l / min	19	1000000057		
with 2 analogue manifolds					

Model	Performance	kg	No.		
R410A	R22	R134a	R407C	R404A	R507
ROCADDY 120 Digital	42 l / min	18	1000000058		
with digital manifold					

### ROCOOL 600

For commissioning, maintenance work and documentation of refrigeration systems of all kinds



#### Product Profile

##### KEY FEATURES

- Modular system: The basic device can be fitted with the optional Red Box incl. the Data Viewer software for reading out or recording data on a PC. Additionally there is an optional external Pirani vacuum probe for precise vacuum readings
- More than 70 refrigerants incl. R744 (sub-critical) are stored in the device. New refrigerants can be added later using the update function
- Simultaneous calculation of superheat and subcool
- The documentation software Data Viewer generates an automatic report based on the data recorded. Ideal for handing out to the customer (client)
- An external Pirani vacuum probe allows reading of the vacuum where the most precise measurement is possible: directly at the refrigeration system

##### TECHNICAL DATA

<b>Pressure display:</b>	bar, psi, Kpa, MPa
<b>Temperature display:</b>	°C, °F
<b>Vacuum display:</b>	Micron, mbar, mmHg, Pa, mTorr
<b>Power source:</b>	9 V battery, 550 mAh
<b>Screen size:</b>	4.1/3" / 11 cm
<b>Pressure measurement range:</b>	-1 up to 60 bar
<b>Precision (at 22°C):</b>	± 0,5 % fs
<b>Temperature measurement range:</b>	-50°C to +200°C
<b>Working temperature:</b>	-10°C to +50°C
<b>Connections:</b>	4x ¼" SAE
<b>Max. recording time:</b>	12h (device), 96h (red box)

An absolute all-rounder due to the unique modular system!

#### Large screen

All important data at a single glance. Strong backlight for dark environment

#### Connection for the temperature sensor T1

For automatic measurement of superheat data

#### Connection for the external vacuum probe

For very precise measurement of the vacuum level directly at the refrigeration system

#### Pressure sensors "Made in Germany"

Precise measurement from -1 to 60 bar

#### T-connection with Schrader valve ¼" SAE

3-way function: Evacuation and filling without changing a hose

#### Y-connections ¼" SAE

A connection and sealing plug in one. Simple transport of hoses when not in operation

Set (No. 100000569) includes: ROCOOL 600, 1 temperature sensor  
 Set (No. 100000570) includes: ROCOOL 600, 2 temperature sensors, carry case  
 Set (No. 100000572) includes: ROCOOL 600, 2 temperature sensors, red box and data viewer software, carry case

Model	No.
Set with 1 temperature sensor (in the blister)	100000569
Set with 2 temperature sensors (in the case)	100000570
Set with 2 temperature sensors, red box, data viewer software (in the case)	100000572

#### Connection for the temperature sensor T2

For automatic measurement of subcool data

#### Green and red LEDs

An optical signal is displayed once an adequate vacuum level is reached or leakage in the system and also a warning of overpressure



#### Connection of the Red Box

To record data for up to 96 hours and independent read out of data at a PC

Temperature sensor for a pipe diameter of up to Ø 32 mm



External vacuum probe for very precise measurement of the vacuum



Scope of delivery (No. 100000539): Red box, data viewer software, connection cable, external power supply

Model	No.
Red box, software, connection cable, external power supply	100000539
Temperature sensor	100000540
Vac Probe	100000541



# Refrigeration & Air-Conditioning Technology

## Refrigeration Circuit Control

### Analogue Manifolds

2- and 4-way manifolds



Pressure gauge Ø 80 mm, with pulse-dampening class 1.6

Easy-to-read, high precision display

Large hand valve with colour coding

Light, secure and precise opening and closing of the diaphragm valve, maintenance free

Valve sets



Pressure gauge with shock-proof rubber protector

Protects against damage

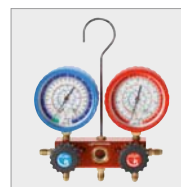
Valve body made of aluminium with gauge glass

Sturdy despite low weight

Manifold Blister



2-way manifold



Model	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

Model	No.
Blue rubber protector for manifold	<b>170545</b>
Red rubber protector for manifold	<b>170546</b>
Valve sets 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



No. 170602

Pressure hose with ball valve "Plus" (only for 170602 and 170608)

No loss of refrigerant

Sets include: Manifold, pressure gauge with Ø 80 mm, "Pulse-free", class 1.6, 3 x 1,500 mm pressure hoses, plastic carrying case

Model	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 carry case	1.4	<b>171505</b>		

### 3-piece Pressure Hose Sets

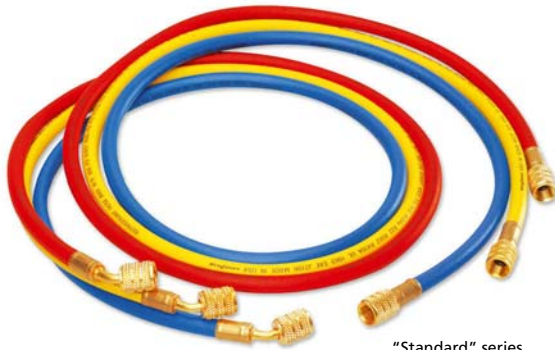
Available in "Standard" and "Plus"



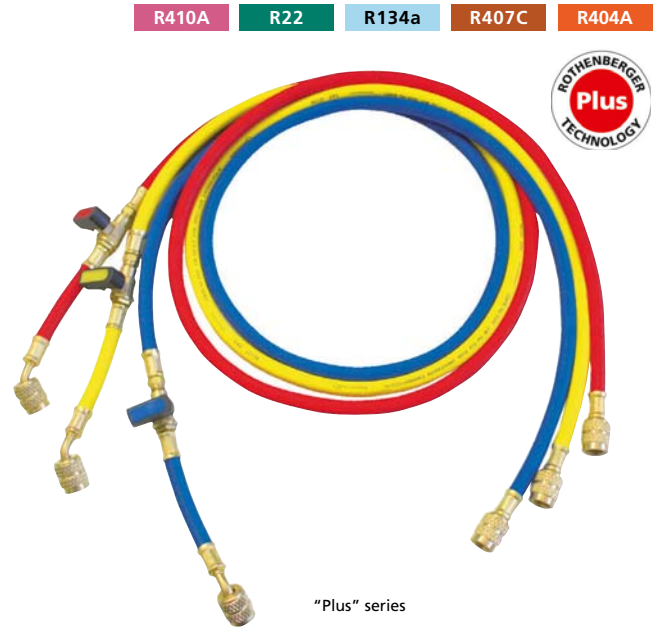
#### Product Profile

##### KEY FEATURES

- No confusion and safe use with the colour coding (blue, red, yellow)
- Teflon seal with up to 10x longer service life compared to neoprene seal
- Working pressure 60 bar / burst pressure 300 bar. This is an 8 % better pressure resistance as previously



"Standard" series



"Plus" series

#### Pressure hose from the series "Standard"

Model	Connection	L mm	⊠	No.
Vacuum Hose	3/8" SAE	1,500	1	<b>150000032</b>
<b>R22</b>	<b>R134a</b>	<b>R407C</b>	<b>R404A</b>	
Set of 3 pressure hoses	1/4" SAE	1,500	1	<b>150000024</b>
Pressure hose yellow	1/4" SAE	1,500	1	<b>150000025</b>
<b>R410A</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	<b>150000026</b>
Pressure hose yellow	5/16" SAE	1,500	1	<b>150000027</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>150000028</b>
Pressure hose yellow	1/4" SAE	1,500	1	<b>150000029</b>
<b>R410A</b>				
Set of 3 pressure hoses	5/16" SAE	1,500	1	<b>150000030</b>
Pressure hose yellow	5/16" SAE	1,500	1	<b>150000031</b>

### Tool Set Climate I + II

#### Practical tool set with all tools required

For installation and maintenance of air-conditioning units and heat pumps

#### Product Profile

##### APPLICATION AREA

- Monitor temperature and pressure
- Quality hoses with high bursting pressure
- Pipe cutter for all pipe cross-sections from 3 - 35 mm (1/8" - 1.1/8")
- Measurement of ambient and ventilator air temperature
- Clean, kink-free bending of all common pipe cross-sections
- Optimum flaring connections for all types of air-conditioners

Set Climate I (No. 170604) includes: 2-way manifold (No. 170501), set of pressure hoses standard 1/4" SAE, Tube Cutter 35 C (No. 070027C), minicut pipe cutter (No.070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", universal flaring tool (No. 222601), plastic case

Set Climate II (No. 170605) includes: 2-way manifold (No. 170518), set of pressure hoses standard 5/16" SAE, Tube Cutter 35 C (No. 070027C), minicut pipe cutter (No.070401C), thermometer, set of bending springs 3/8" - 1/2" - 5/8", Reeling Flaring Tool (No. 222402), plastic case

Model	kg	⊠	No.
Tool Set Climate I	2.3	1	<b>170604</b>
Tool set Climate II	2.4	1	<b>170605</b>

**R22** **R134a** **R407C** **R404A**



The ideal introduction into a whole new area of business!



No. 170604



# Refrigeration & Air-Conditioning Technology

## Leak Testing & Locating

### Nitrogen Set

Multiple uses for refrigeration systems



#### Product Profile

##### APPLICATION AREA

- 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



Fine scaled 1.0 pressure gauge

Precise reading of the testing pressure

No. 259060

5/16" SAE adaptor for connecting to R410 units



Bottle adaptor for connecting 950 cm<sup>3</sup> bottles



Set (No. 259060) includes: pressure reducing valve, connection hose, bottle adaptor, pressure gauge, nitrogen bottle and plastic case

Model	No.
Nitrogen set with bottle (950 cm <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>



### RO-LEAK

Electronic leak detection device for locating leaks in refrigeration systems (3 g/a)



R410A R22 R134a R407C R404A R507A

#### Product Profile

##### KEY FEATURES

- 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

##### TECHNICAL DATA

**Leak status:** LED display  
**Sensor length:** 30 cm  
**Leak detection rate:** 3 g/a within 3 seconds  
**Weight:** 280 g  
**Working temperature:** - 10 up to + 49°C  
**Voltage:** 2.4 V

#### Heated pentode

Durable and highly sensitive sensor tip with a leak detection rate of 3 g/a within 3 seconds

#### Audio signal

Comfortable use

#### 30 cm long, flexible sensor

Easy access in hard-to-reach places

#### 7 LEDs

Simple determination of the refrigerant concentrate with the coloured shading

#### 7 different sensitivity levels

Exact and fast location of the leak

#### RESET - button

Adjusts to the sensor tip zero point setting for simple leak location



No. 87305

Scope of delivery (No. 87305) 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>



Suitable for all common CFC, HFC and HCFC!

10



RO-LEAK in use



# Refrigeration & Air-Conditioning Technology

## Evacuation

### ROAIRVAC

#### Two-stage vacuum pump

For evacuation in accordance with **DIN 8975** with vacuum gauge and solenoid valve



#### Product Profile

##### KEY FEATURES

- Solenoid check valve to protect the refrigeration system from oil contamination during power outage
- Vacuum gauge with integrated drag indicator enables simple and quick control of the evacuation process
- Protects the integrated components with the light and high quality casing
- Gas ballast valve for reduction of water vapour in the oil container
- Special filter reduces oil mist on exhaust vent

##### KEY FEATURES

- Gauge-glass enables easy oil-stand monitoring
- Fast filling of oil without spilling, no special funnel is necessary
- Easy access to the oil drain plug makes emptying quick
- Thermal switch protects the unit from the motor overheating
- Standard 1/4" SAE connection, as well as 5/16" SAE and 3/8" SAE adaptor included in delivery
- Removable cable prevents cable damage



1/4" SAE standard connection with adaptors for 5/16" SAE and 3/8" SAE



Optimal positioned viewing glass and oil drains for simple draining of the oil



Practical: operating instructions always within view





### ROAIRVAC Serie

Two-stage rotary vane pump for evacuation  
in accordance with DIN 8975

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 m <sup>3</sup> /h	3.0 CFM / 85 l/min / 5.1 m <sup>3</sup> /h	6.0 CFM / 170 l/min / 10.2 m <sup>3</sup> /h	9.0 CFM / 255 l/min / 15.3 m <sup>3</sup> /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



ROAIRVAC 1.5 (42 l/min)



ROAIRVAC 3.0 (85 l/min)



ROAIRVAC 6.0 (170 l/min)

Mineral oil is included in all pump deliveries



ROAIRVAC 9.0 (255 l/min)



ROAIRVAC - vacuum pump in use with the digital manifold ROCOOL 600



Scope of delivery ROAIRVAC: Vacuum pump with 1/4", 5/16" SAE and 3/8" SAE connections, plastic bottle with mineral oil

Model	Performance	kg	No.
ROAIRVAC 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>



# Refrigeration & Air-Conditioning Technology

## Recovery & Filling

### ROREC

#### Refrigerant recovery device

Compact, portable device for recovery and recycling refrigerants of all kinds



#### Product Profile

##### KEY FEATURES

- 4-pole motor guarantees the durability of the machine
- Low noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Maintenance-free operation through the oil-free compressor
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing

##### TECHNICAL DATA

<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>	490 x 244 x 353 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

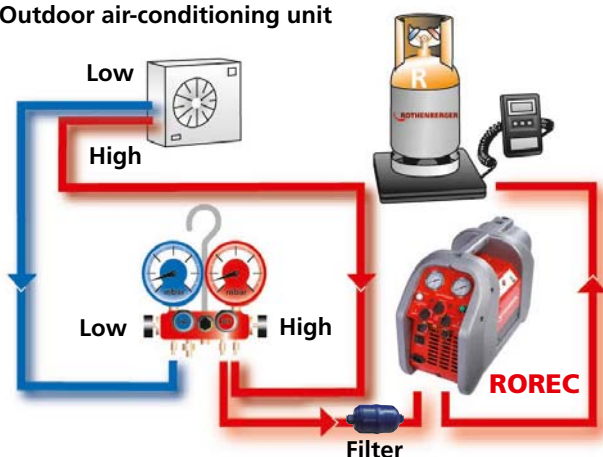


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## Recovery of Refrigerant

#### Exemplary: Outdoor air-conditioning unit



Simple and precise reading with the glycol filled pressure gauge



Practical storage compartment for accessories on the back



Model	Connected Load	kg	No.	
ROREC	370 W	17.0	1	168605
Filter		0.12	1	168713

### ROREC PRO

#### Refrigerant recovery device

Compact, portable device for recovery of halogenated refrigerants of every kind



#### Product Profile

##### KEY FEATURES

- Maintenance free operation with the oil-free 2-piston compressor
- 4-pole motor guarantees the durability of the machine
- Automatic shut-off after the evacuation process is finished
- Low-noise and vibration emission thanks to the compact design
- Intuitive handling makes it simple and safe to use
- Emptying of the device in order to work with different refrigerants with the PURGE function
- Simple transport and use with the light and compact plastic casing

##### TECHNICAL DATA

<b>Suitable for:</b>	all refrigerants type CFC-HCFC-HFC
<b>Capacity:</b>	gaseous: 0.52 kg / min fluid: 3.70 kg / min Push/Pull: 9.95 kg / min
<b>Electrical Data:</b>	230 V / 50 - 60Hz
<b>Power:</b>	730 W
<b>High pressure switch:</b>	38.5 bar
<b>Dimensions:</b>	490 x 244 x 353 mm
<b>Weight:</b>	19 kg

### Also ideal for large facilities!

#### Control lamp

When green: Process is over - unit will turn off automatically  
When red: The system pressure is too high - unit will turn off automatically

#### Simple use

Controlled dosage of the refrigerant supply

#### PURGE function

Emptying of refrigerant residue in the unit (self-cleaning mode)

#### Removable cable

Prevents cable damage

#### Oil-free 2-piston compressor

Very high suction performance with 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 on the back



ROREC PRO in use



Model	Connected Load	kg		No.
ROREC PRO	730 W	19.0	1	168606
Filter		0.12	1	168713



# Refrigeration & Air-Conditioning Technology

## Recovery & Filling

### Refrigerant Recycling Bottles

Empty, welded press gas bottles for collection of used refrigerant, volume: 14.5 litre, maximum filled weight: 10 kg, double connection valve for gaseous and fluid removal with dip pipe for standing bottle. With 2-way fill / disposal valve, bottle label and complete ADR papers. Colour is without obligation. Collection and disposal only possible in Germany

2-way fill/disposal valve

Liquid and gaseous removal possible



Bottle includes complete refrigerant recycling

No rent, no separate disposal costs (only in Germany)

Clear labelling on the bottle ("max 10 kg")

Prevents overfilling, no danger of explosion due to increase of temperature

Model	Ø mm	Height mm	No.
Recycling bottle 1/4" SAE	230	510	<b>170952</b>

including complete refrigerant recycling

### Refrigerant for Air-conditioning Units

Non-chlorinated refrigerant of the HFC group in practical 40 bar steel bottles (bursting pressure: 165 bar) TÜV seal No. 0036-043/03D and TPED accepted as per 99/36/CE



Standardised SAE thread on all bottle valves

Universal application

Refillable bottles

Full flexibility for the user



#### Product Profile

##### KEY FEATURES

- Light and practical for use on building-sites
- 1 and 2 litre steel bottles, rent-free and easy disposal
- Flat base for increased standing stability
- Ease of clean up after removing of the valve

Model		No.
<b>R407C</b>	Refrigerant R407C in cardboard packaging	
1   steel bottle 1/4" SAE	1 12	<b>170913</b>
2   steel bottle 1/4" SAE	1 6	<b>170931</b>
<b>R410A</b>	Refrigerant R410A in cardboard packaging	
1   steel bottle 5/16" SAE	1 12	<b>170912</b>
2   steel bottle 5/16" SAE	1 6	<b>170932</b>

10



### ROSCALE 120

#### Electronic refrigerant scale

Precise, easy to handle refrigerant scale for filling and evacuation processes with a maximal weight capacity of 120 kg



#### Product Profile

##### KEY FEATURES

- Resolution of 5 g enables very precise filling
- Weight capacity sufficient for all common refrigerant bottles
- Cable connection enables comfortable use in every situation
- Bottle adaptor for connecting small refrigerant bottles (1 l and 2 l bottles)
- Refrigerant bottles of all sizes have enough space
- Large LCD display for comfortable reading of the result
- Simple use

##### TECHNICAL DATA

<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 up to +49° C / 14 up to +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



#### Large rubberised weighing platform

All sizes of refrigerant bottles have enough space

#### 1/4" SAE bottle adaptor

For connecting small 1 and 2 l refrigerant bottles

#### Large LCD display

For comfortable reading of the results

#### Three operating keys

Simple use

#### Cable connection

Enables comfortable use in every situation

#### Weight capacity of 120 kg

Weight capacity is sufficient for all common refrigerant bottles



Scope of delivery: ROSCALE 120, 9 V battery, carrying case

Model	kg	No.
ROSCALE 120	3.28	173004



ROSCALE 120 in carrying case

# Refrigeration & Air-Conditioning Technology

## Accessories

### SANIFRESH

Disinfecting and deodorising cleaning spray



#### Product Profile

##### KEY FEATURES

- Removes the threat of disease and allergies  
Practical and ecologically friendly solution for removing mites, dust, bacteria and spores
- Spray is applied directly to affected surface
- Economical spray can with spray nozzle and spray tube
- Removes unpleasant odours. Pleasant mint smell

Model		Volume	No.
Sanifresh (contains 12 bottles)	1 1(12)	400 ml	<b>85800</b>

### Bottle Connection and Adaptors

For refrigerant bottles

For use with new refrigerant bottles on existing equipment



No. 170950

No. 173204, No. 173205

No. 259007

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>89501</b>
Adaptor, 3/8" SAE M - 1/4" SAE F connection	<b>89503</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 5/8" pipe lines **according to DIN EN 378-2 : 2012-08**



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**Fix with torque wrench urgently necessary!**



**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

Model		No.
Torque wrench set, 7 piece	3.5	<b>175001</b>



### Adjustable Wrench

Chrome vanadium steel, drop forged, chrome-plated and polished

#### Product Profile

##### KEY FEATURES

- Precise operation: Smooth-running and robust roller with minimum play in the sliding guides

Size inch	 mm	Clamping width up to mm	 g	No.
6"	160	20	100	<b>70441</b>
8"	210	25	220	<b>70442</b>
10"	250	29	390	<b>70443</b>
12"	300	34	660	<b>70444</b>
15"	380	44	1,170	<b>70445</b>



### Schrader Valve Tool

#### Product Profile

##### KEY FEATURES

- For exchanging the Schrader valve on air-conditioners under pressure, without having to recover the unit
- For safe and easy change of spring insert of the Schrader Valve Tool
- With safety thread for risk-free use with R410A



Model	No.
Schrader Valve Tool in plastic carrying case	<b>87800</b>



### Plate Fin Comb

#### Product Profile

##### KEY FEATURES

- 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	<b>224500</b>



# Refrigeration & Air-Conditioning Technology

## General instructions for the use of Refrigerants

### Refrigerant data from CFC-alternative refrigerants

Refrigerant	Composition	ODP	GWP	Temperature glide
R22 (HFC-CFC refrigerant)	CHCLF2	0.05	1,700	–
R134a (HFC chlorine-free refrigerant)	CF3CH2F	0	1,300	–
R32 (HFC chlorine-free refrigerant)	CH2F2	0	580	–
R404A (HFC chlorine-free blends)	52% R143a, 44% R125, 4% R134a	0	3,750	–
R507 (HFC chlorine-free blends)	50% R143a, 50% R125	0	3,800	–
R407C (HFC chlorine-free blends)	23% R32, 25% R125, 52% R134a	0	1,610	7.5K
R410A (HFC chlorine-free blends)	50% R32, 50% R125	0	1,890	0.2K

ODP = Ozone Depletion Potential (degree in which the ozone layer is destroyed)

GWP = Global Warming Potential (degree in which it contributes to the greenhouse effect)

### Instructions for safe and proper use of the refrigerants:

#### Refrigerant:

- Wear protective gloves and safety goggles
- Do not let refrigerant come in contact with skin
- Do not inhale high concentrations of vapours  
(Lack of oxygen causes a narcotic effect and is a danger to life)
- Do not smoke around refrigerant
- Working place / room must be thoroughly aired, if necessary extracted

#### Refrigerant bottles:

- Secure against accidents, do not throw
- Do not expose to direct sunlight and do not place near radiators or other heat sources
- Do not use open flame
- Do not disassemble or remove valves
- Damaged bottles need to be properly returned
- Close empty containers

#### Air-conditioners:

- Air-conditioner leaks need to be repaired immediately
- Do not allow refrigerant to leak while filling or doing maintenance work
- In high concentrations (for example pipe burst), leave the room and do not enter again until it has been properly ventilated
- Only do brazing work together with protective nitrogen gas and only in well ventilated areas

10



### Flare connections

Normal flare size in accordance with JIS B8607:2008

Flare outer diameter in relationship to the pipe diameter

Pipe outer diameter mm / inch	Metric	Wall thickness mm / inch	Flare outer diameter with R22-, R134a-, R404-, R407C air-conditioners	Flare outer diameter with R410A air-conditioners
6 mm	–	1 mm	8.5 mm	9.1 mm
8 mm	–	1 mm	11.1 mm	11.1 mm
10 mm	–	1 mm	13.6 mm	13.2 mm
12 mm	–	1 mm	15.3 mm	16.5 mm
16 mm	–	1 mm	19.5 mm	19.2 mm
18 mm	–	1 mm	22.0 mm	22.7 mm
1/4"	6.35 mm	0.35"	9.0 mm	9.1 mm
5/16"	7.94 mm	0.35"	11.0 mm	11.1 mm
3/8"	9.52 mm	0.35"	13.0 mm	13.2 mm
1/2"	12.70 mm	0.35"	16.2 mm	16.6 mm
5/8"	15.88 mm	0.35"	19.4 mm	19.7 mm
3/4"	19.05 mm	0.35"	23.3 mm	24.0 mm



# Refrigeration & Air-Conditioning Technology

## Conversion Table Pressure, Temperature

### Conversion table pressure

mbar	Micron	TORR	mm HG Vacuum
10	7,516	7.5	752
5	3,759	3.6	756
2	1,503	1.5	758
1	752	0.75	759
0.5	376	0.36	
0.4	300	0.30	
0.3	225	0.23	
0.2	150	0.15	
0.1	75	0.08	
0.09	68		
0.07	53		
0.06	45		
0.05	38		
0.04	30		
0.03	22		
0.02	15		
0.01	8		

### Conversion table temperature

Conversion from °C in °F: °C x 1.8 + 32 = °F

Conversion from °F in °C: (°F-32) : 1.8 = °C

°C	°F	°C	°F	°F	°C	°F	°C
100	212	30	86	212	100	70	21
95	203	25	77	200	93	60	16
90	194	20	68	190	88	50	10
85	185	15	59	180	82	40	4
80	176	10	50	170	77	30	-1
75	167	4	39	160	71	20	-7
70	158	0	32	150	66	10	-12
65	149	-10	14	140	60	0	-18
60	140	-20	-4	130	54	-10	-23
55	131	-30	-22	120	49	-20	-29
50	122	-40	-40	110	43	-30	-34
45	113	-50	-58	100	38	-40	-40
40	104	-60	-76	90	32	-50	-46
35	95	-73	-101	80	27	-60	-51
						-112	-80
						-460	-273

10



### Common threads

UNF-Thread	SAE-Thread	Outer diameter (max. mm)	Internal diameter (min mm)	Lodes per inch	Increment (mm)
7/16" - 20	1/4"	11.079	9.738	20	1.270
1/2" - 20	5/16"	12.667	11.328	20	1.270
5/8" - 18	3/8"	15.839	14.348	18	1.411
3/4" - 16	1/2"	19.012	17.330	16	1.588
7/8" - 14	-	22.184	20.262	14	1.814
7/8" - 14	5/8"	22.184	20.262	14	1.814
1" - 14	3/4"	25.357	23.437	14	1.814
11/16" - 14	-	26.947	25.024	14	1.814
11/8" - 12	-	28.529	26.284	12	2.117
11/4" - 12	7/8"	31.704	29.459	12	2.117
13/8" - 12	-	34.877	32.634	12	2.117
11/2" - 12	1	38.052	35.809	12	2.117



11  




"The ROGRIP Curve-Shape-Design for the perfect grip: safe connection thanks to the 3-point grip allows an ergonomic safe work"





# General-Purpose Tools

## Pliers

Water Pump Pliers	284 - 288
Corner Pipe Wrenches	289
One Handed Pipe Wrenches, Chain Pipe Wrenches	290 - 291
Fittings Wrenches	292
Grip Pliers, Strap & Fittings Wrenches	293

## Installation Wrenches

UNI Stepped Key Set, Express Spanner	294
Bolt Driver, Sanitary Four Way	295
Installation Tools, Valve Key	296
Open-Ended / Hinged Ratchet Wrenches	297 - 299

## Screwdrivers

300 - 301

## Installation Aids

Spirit Levels, Cartridge Extractor Set	302
Tap Reseating Tool	303
Basin Nut Wrench, Bolt Cutter	304 - 305
Power Edge Cutter	306
Allen Key Sets, Screw Extraction Sets	307

## Cutting Discs

Cutting & Grinding Discs	308
--------------------------	-----

## Drill Bits

Twist Drill Bits, Flat Center Bits	309
Chassis Punch, Stepped Drill Bits	310
Sheet Metal Cone Bits, Hole Saws	311 - 312

## Hammers, Chisels, Punches

313

## Vices

Parallel Vices, Pipe Vices	314
----------------------------	-----

## Workbenches

Tripod Uni Workbench, Universal Workbench	315
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## General Aids & Tool Bags

316 - 317



Do you want to know more about our products? Please scan the QR-Code!



# General-Purpose Tools

## Pliers

### ROGRIP M

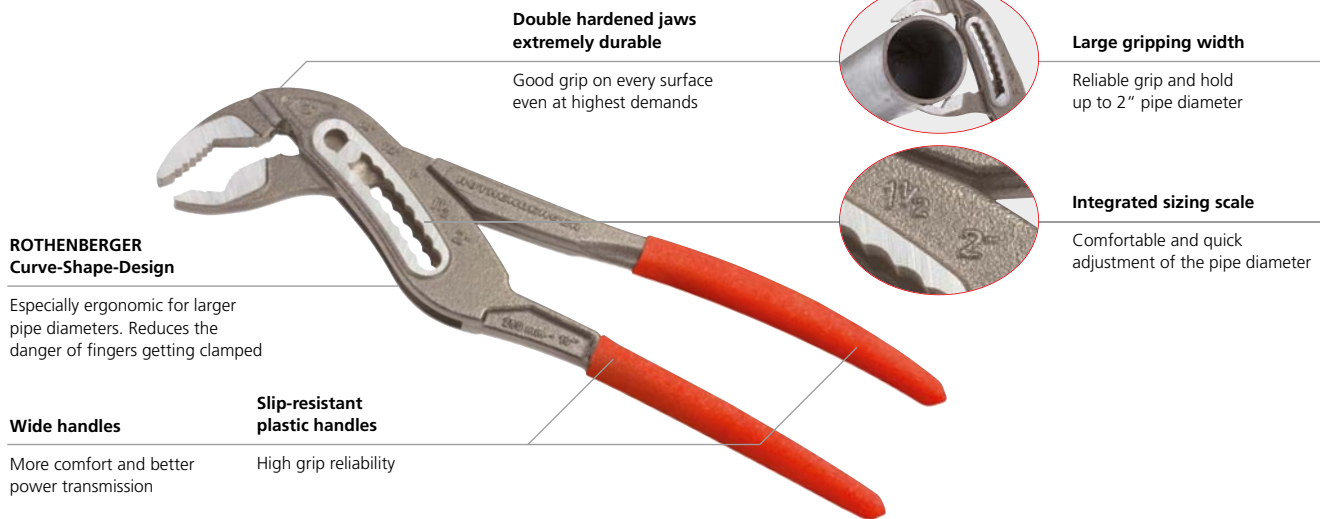
Quickly adjustable water pump plier

#### KEY FEATURES

- 30% more gripping capacity: 10" pliers up to 2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- Wide handles for more comfort and better power transmission
- 10 point size adjustments

#### TECHNICAL DATA

**Chrome vanadium steel** tempered, drop forged with heavy-duty box joint  
**Polished head and joint**  
**Double hardened jaws**, extremely durable



**ROTHENBERGER Curve-Shape-Design**

Especially ergonomic for larger pipe diameters. Reduces the danger of fingers getting clamped

**Wide handles**

More comfort and better power transmission

**Slip-resistant plastic handles**

High grip reliability

Model	No.
ROGRIP M 7", Ø 1.1/4" / 43 mm	1000000215
ROGRIP M 10", Ø 2" / 60 mm	1000000216

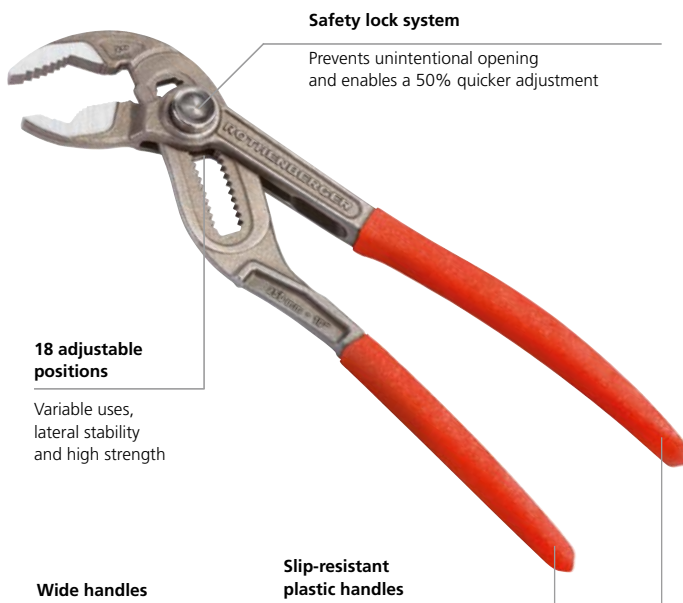
**ROTHENBERGER Curve-Shape-Design – especially ergonomic!**

### ROGRIP F

Quickly adjustable automatic water pump plier

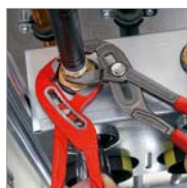
#### KEY FEATURES

- 30% more gripping capacity: 10" pliers up to 2" pipe diameter
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic for large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- Safety lock system: prevents unintentional opening and enables a 50% quicker adjustment
- 18 point size adjustments



**Curve-Shape-Design: especially ergonomic**

*3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 2"*



L	L	max. inch	max. mm	g			No.
inch	mm						
7"	175	1.1/4"	43	280	1	6	1000000213
10"	240	2"	60	460	1	6	1000000214

**30% more gripping capacity!\***

\* than previous model



### ROGRIP S

#### Quickly adjustable water pump plier

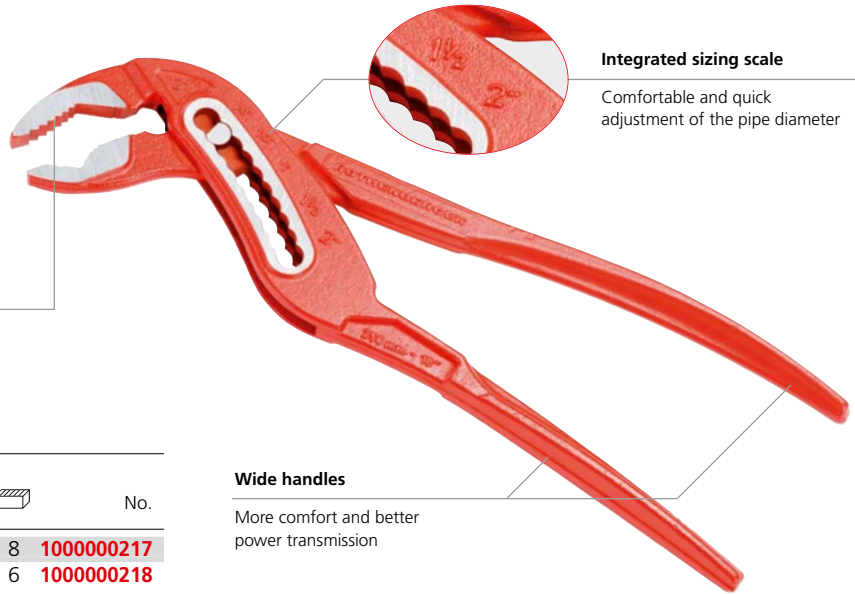
- Characteristics like ROGRIP M

Curve-Shape-Design: especially ergonomic with large pipe Ø



**Double hardened jaws extremely durable**

Good grip on every surface even for hardest demands



**Integrated sizing scale**

Comfortable and quick adjustment of the pipe diameter

**Wide handles**

More comfort and better power transmission

L	L	max. inch	max. mm	g			No.
inch	mm						
7"	175	1.1/4"	43	290	1	8	1000000217
10"	240	2"	60	480	1	6	1000000218

### ROGRIP XL

#### Quickly adjustable water pump plier

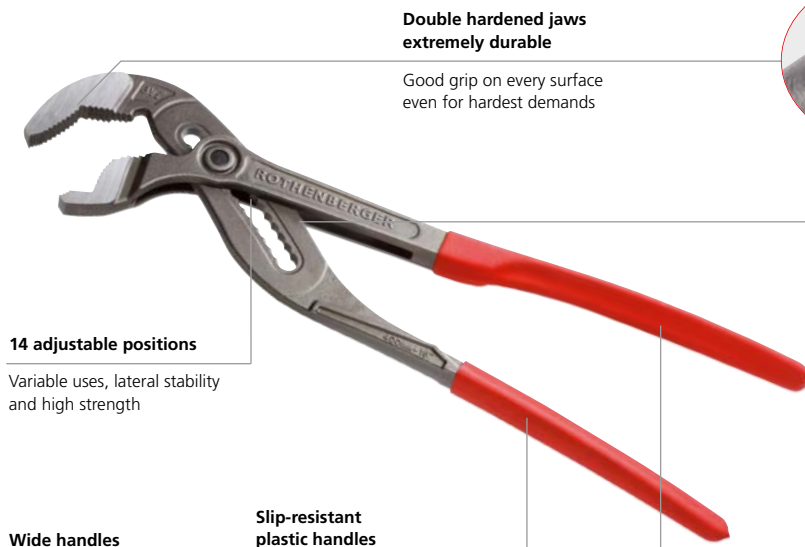
##### KEY FEATURES

- 16" pliers up to 3.1/2" pipe diameters
- 3-point grip: reliable clamping and perfect grip up to the maximal pipe diameter
- ROTHENBERGER Curve-Shape-Design: especially ergonomic by large pipe diameters. Reduces the danger of fingers getting clamped
- Wide handle for more comfort and better transmission of power
- 14 point size adjustment

##### TECHNICAL DATA

**Chrome vanadium steel** tempered, drop forged with heavy-duty box joint  
**Polished head and joint**  
**Double hardened jaws**, extremely durable

**Enormous gripping width of 3.1/2" – reliable grip during application**



**Double hardened jaws extremely durable**

Good grip on every surface even for hardest demands

**14 adjustable positions**

Variable uses, lateral stability and high strength



**Large gripping width**

Reliable grip and hold up to 3.1/2" pipe diameter

**ROTHENBERGER Curve-Shape-Design**

Especially ergonomic with larger pipe diameters. Reduces the danger of fingers getting clamped

**Wide handles**

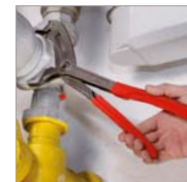
More comfort and better power transmission

**Slip-resistant plastic handles**

High grip reliability

**ROTHENBERGER Curve-Shape-Design – especially ergonomic!**

Curve-Shape-Design: especially ergonomic



3-point grip over the middle for reliable clamping. Perfect grip on pipes up to Ø 3.1/2"



L	L	max. inch	max. mm	g			No.
inch	mm						
16"	440	3.1/2"	102	1400	1	1	1000000328



# General-Purpose Tools

## Pliers

### Water Pump Pliers SP

Complies with DIN 5231 D, with heavy-duty box joint, chrome vanadium steel, drop forged, tempered, polished head and joint



#### Product Profile

##### KEY FEATURES

- Ideal for hard-to-reach places with the longer, thinner pliers head with measurements favourable for corners
- Optimum grip for reliable hold of pipes, flat objects, squared and hexagonal screws
- Long service life through induction hardened teeth
- Variable use: 7 size settings
- Non-slip even on smooth surfaces
- Safe use with the crush and pinch protection

##### TECHNICAL DATA

Complies with DIN 5231 D  
 Heavy-duty box-joint  
 Abrasion-resistant surface protection with the epoxy-powder coating  
 Chrome vanadium steel  
 Drop forged, tempered  
 Polished head and joint

#### Asymmetrical gripping surface

Optimum grip with the rhombus-shaped gripping surface

#### Measurements favourable for corners

Ideal for hard-to-reach places

#### Self-clamping jaws

non-slip even on smooth pipes

#### Induction hardened teeth

Long service life and high wear resistance

#### Ergonomically shaped anti-slip legs

Reliable hold

#### 7 size settings (10" and 12"), solid and durable

Variable use

#### Crush and clamp guard

Safe use

11

#### Optimum grip



No. 070528D

L inch	L mm	⊙ max. inch	⊙ max. mm	⚖ g	📦 1	📦 6	No.
7"	175	1"	34	150	1	6	<b>70527</b>
10"	250	1.1/4"	43	290	1	6	<b>70528</b>
12"	300	1.1/2"	48	460	1	6	<b>70529</b>
10" Counter display					1(12)		<b>070528D</b>



No. 70527

No. 70528

No. 70529

### Water Pump Pliers Type SPK



#### KEY FEATURES

- Features similar to type SP, additionally with plastic covered handles

Increased safety:  
Plastic covered handles!



inch	mm	max. inch	max. mm	g		No.
7"	175	1"	34	165	1 6	<b>70521</b>
10"	250	1.1/4"	43	315	1 6	<b>70522</b>
12"	300	1.1/2"	48	475	1 6	<b>70523</b>
10" Counter display				1(12)		<b>070522D</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**



#### KEY FEATURES

- 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



inch	mm	max. inch	max. mm	g		No.
9.1/2"	245	1.1/2"	48	330	6	<b>70591</b>
12"	300	2"	60	560	6	<b>70592</b>
16"	420	4"	114	1,150	6	<b>70593</b>



# General-Purpose Tools

## Pliers

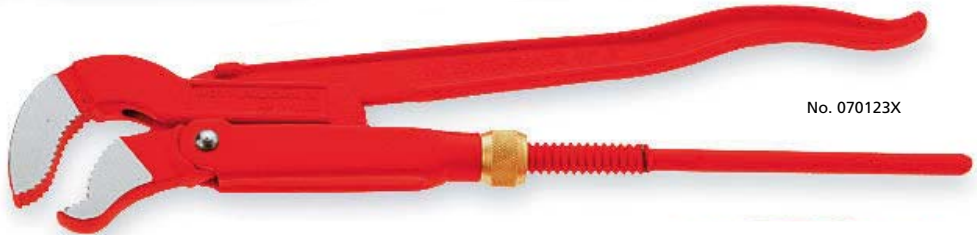
### Sets for Professionals

Practice-oriented set of pipe wrenches and pipe cutter



No. 070124X

Safe grip by staggered gear tooth system



No. 070123X

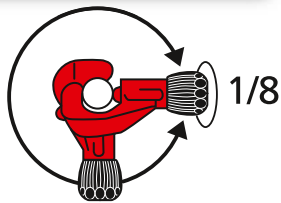


No. 070122X



No. 402311 (optional)

Constant, tight working radius of 123 mm!



For further information see 10



No. 70027

Optimum grip by rhombusform



No. 70528

11

**3-part set (No. 070130X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), 2" (No. 070124X)

**4-part set (No. 070135X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

**3-part set (No. 070140X)** includes:  
Pipe wrench 1" (No. 070122X), 1.1/2" (No. 070123X), W/P pliers 10" (No. 70528)

Model	kg		No.
Set 1 - 1.1/2" - 2"	5.0	1	<b>070130X</b>
Set 1 - 1.1/2" + Wapu SP 10 + TC 35	3.1	1	<b>070135X</b>
Set 1 - 1.1/2" + Wapu SP 10"	2.7	1	<b>070140X</b>
Tool bag "Trendy"	1.8	1	<b>402311</b>

### ACCESSORIES



Description	g		No.
Spare cutter wheel for TC 35 CU	100	1(5)	<b>070017D</b>



### Corner Pipe Wrench 45° "SUPER S"

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Self-clamping: 3-point clamping ensures reliable and firm grip even on smooth pipes
- Reliable grip and non-slip with teeth set against turning direction, induction hardened
- Double-T profile jaws, ideal for clamping different material forms, enables universal application



inch	mm	max. inch	max. mm	g		No.
1/2"	22	10"	250	400	1 18	070121X
1"	34	12"	300	810	1 18	070122X
1.1/2"	48	16"	420	1.440	1 16	070123X

inch	mm	max. inch	max. mm	g		No.
2"	60	20"	540	2.440	1 10	070124X
3"	89	24"	640	3.400	1 6	70125

### Corner Pipe Wrench 45°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 45° angled



inch	mm	max. inch	max. mm	g		No.
1/2"	22	10"	250	370	1 8	070131X
1"	34	12"	300	740	1 6	070132X

inch	mm	max. inch	max. mm	g		No.
1.1/2"	48	16"	420	1.340	1	070133X
2"	60	20"	540	2.400	1	070134X

### Pipe Wrench 90°

Chrome vanadium steel, drop forged, tempered, with reinforced sleeve, polished jaws and a favourable size for corners

#### KEY FEATURES

- Favourable size for corners
- Thin muzzle with thin jaws, 90° angled



inch	mm	max. inch	max. mm	g		No.
1"	34	12"	300	740	1 8	070110X
1.1/2"	48	16"	420	1.340	1 6	070111X
2"	60	20"	540	2.400	1 6	070112X

inch	mm	max. inch	max. mm	g		No.
3"	89	24"	640	3.400	1	70113
4"	114	36"	750	5.600	1	70114



# General-Purpose Tools

## Pliers

### One Handed Pipe Wrench "HEAVY DUTY"

#### KEY FEATURES

- One-handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of 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	L	Ø	Ø	kg		No.	No.	No.
inch	mm	inch	mm			pliers	hook	jaws
8"	200	1/2"	22	0.40	4	70150	70200	70190
10"	250	1.1/2"	48	0.78	4	70151	70201	70191
12"	300	2"	60	1.25	4	70152	70202	70192
14"	350	2"	60	1.68	4	70153	70203	70193
18"	450	2.1/2"	73	2.67	2	70154	70204	70194
24"	600	3"	89	4.32	1	70155	70205	70195
36"	900	5"	141	7.92	1	70156	70206	70196
48"	1200	6"	168	15.80	1	70157	70207	70197

### One Handed Pipe Wrench "ALUDUR"

#### KEY FEATURES

- Features similar to **HEAVY DUTY**
- **Weight savings of approx. 40%:** extremely light, high strength aluminium alloy
- Wearing parts replaceable: hook and heel jaw can be purchased separately



US-Norm GGG-W-651  
Type I Class B!

L	L	Ø	Ø	kg		No.	No.	No.
inch	mm	inch	mm			pliers	hook	jaws
10"	250	1.1/2"	48	0.48	4	70159	70201	70191
14"	350	2"	60	0.99	4	70160	70203	70192
18"	450	2.1/2"	73	1.63	2	70161	70204	70194
24"	600	3"	89	2.51	1	70162	70205	70195
36"	900	5"	141	5.00	1	70163	70206	70196
48"	1200	6"	168	8.42	1	70164	70207	70197

### One Handed Pipe Wrench "STILLSON"

#### KEY FEATURES

- Features similar to **HEAVY DUTY**
- Hardened adjustment nut presses onto the handle during use and prevents undesired readjustment
- Optimised double-spring construction guarantees quick and firm self-clamping, ensuring secure hold even on smooth pipes



US-Norm GGG-W-651  
Type I Class B!

L	L	Ø	Ø	kg		No.	No.
inch	mm	inch	mm			pliers	hook
8"	200	3/4"	27	0.28	1 4	70350	70374
10"	250	1"	34	0.59	1 4	70351	70375
12"	300	1.1/4"	43	0.79	1 4	70352	70376
14"	350	1.1/2"	48	1.04	1 4	70353	70377
18"	450	2"	60	1.82	1 2	70354	70378
24"	600	2.1/2"	73	3.08	1 1	70355	70379
36"	900	3.1/2"	102	5.69	1 1	70356	70380

11



### One Handed Pipe Wrench "OFFSET PATTERN HEAVY DUTY"



#### KEY FEATURES

- Offset wrench head is ideal for working in confined spaces (e.g. near to the wall)
- One handed ratchet-like use, self-clamping, spring-supported hook
- Quick preset of pipe Ø using scale on hook
- Wearing parts replaceable: hook and heel jaw can be purchased separately

					No. pliers	No. hook	No. jaws	
	inch	mm	g					
10"	250	1.1/2"	48	750	4	<b>70166</b>	<b>70201</b>	<b>70191</b>
14"	350	2"	60	1,460	4	<b>70167</b>	<b>70203</b>	<b>70192</b>



### One Handed Corner Pipe Wrench 90°



#### KEY FEATURES

- Features similar to "HEAVY DUTY"
- **Weight savings of approx. 40%:** extremely light, high strength aluminium alloy

					No. pliers	No. hook	No. jaws	
	inch	mm	g					
14"	350	2"	60	890	1	<b>70115</b>	<b>70203</b>	<b>70192</b>
18"	450	2.1/2"	73	1,490	1	<b>70116</b>	<b>70204</b>	<b>70194</b>



### Chain Pipe Wrench 4" R/L



#### KEY FEATURES

- Profile handle made of drop forged chrome vanadium steel, polished head with hardened special tooth system, powerful chain made of tempered special steel
- Double-sided teeth surface set against the turning direction for use in both directions without re-inserting

					No.	
	max. inch	max. mm	inch	mm	g	
4"	115	12"	300	780	1	<b>70235</b>



### Chain Pipe Wrench "HEAVY DUTY"



Very robust model for the toughest conditions, proven in pipeline construction, jaws and handle are forged, jaws are replaceable

#### KEY FEATURES

- Strong chain made of tempered special steel – fits every cross-section
- Double-sided tooth system for ratchet-like use, for right and left-handed operation

			jaws width		No. pliers	No. jaws
	max. inch	max. mm	mm	kg		
1.1/2"	48	38	350	1.4	<b>70242</b>	<b>70571</b>
2.1/2"	73	52	690	3.5	<b>70243</b>	<b>70572</b>
4"	114	63	940	6.7	<b>70244</b>	<b>70573</b>
6"	168	78	1,120	12.6	<b>70245</b>	<b>70574</b>
8"	220	80	1,280	17.2	<b>70246</b>	<b>70575</b>
12"	324	84	1,630	24.2	<b>70247</b>	<b>70576</b>



Model		No.
	kg	
Spare chain HEAVY DUTY 1 1/2"	0.80	<b>70262</b>
Spare chain HEAVY DUTY 2 1/2"	0.95	<b>70263</b>
Spare chain HEAVY DUTY 4"	1.40	<b>70264</b>
Spare chain HEAVY DUTY 6"	2.80	<b>70265</b>
Spare chain HEAVY DUTY 8"	3.40	<b>70266</b>
Spare chain HEAVY DUTY 12"	5.10	<b>70267</b>

# General-Purpose Tools

## Pliers

### Fittings Wrench 90°

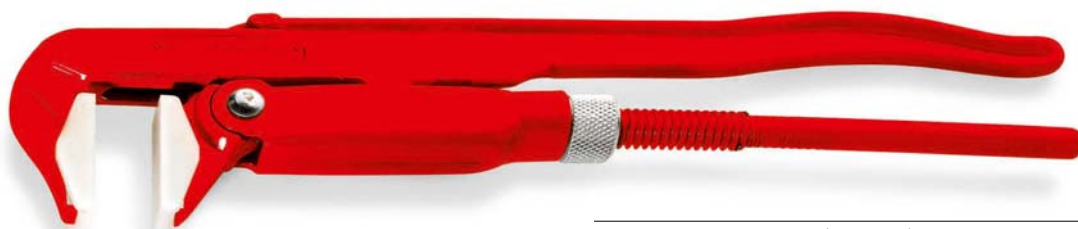
Special chrome vanadium steel, steel forged

#### KEY FEATURES

- Plastic jaws guarantee a secure and gentle grip especially for chrome-plated fittings and polished surfaces
- High-quality DURAMANT surface coating



Plastic jaws, gentle grip!



max. inch	max. mm	inch	mm	g			No.
1"	35	14"	356	740	1	6	<b>70545</b>
Plastic jaws				10			<b>70548</b>

### Fitting Key

Steel forged, burnished, smooth jaws for protection of fittings and delicate or polished surfaces



No. 350850



No. 350900

Model	L 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>

### SANIGRIP/SANIGRIP PL

#### Valve plier PL

Special chrome vanadium steel, drop forged, chrome-plated, 4 adjustable sizes at joint, with toothed grip jaws. SANIGRIP PL designed with plastic jaws to protect fittings

#### KEY FEATURES

- Secure and gentle grip on valuable fittings without damaging polished surfaces
- Optimum grip is ideal for plastic screw joints up to  $\varnothing$  62 mm (siphon)



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>
Plastic jaws (pair) for SANIGRIP PL					10	<b>70417</b>

11



### Sealing Grip Pliers

Chrome vanadium steel, nickel-plated, tempered, hardened jaws

- Ideal for climate, heating and sanitary installations
- For clamping thin-walled copper pipes  $\varnothing$  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  $\varnothing$  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>



### EASYGRIP

#### Automatic strap wrench for plastic pipes $\varnothing$ 20 - 160 mm (3/4" - 6")

The indispensable tool for socket welding large diameter plastic pipes




#### KEY FEATURES

- No damage to pipe surface with the centred prismatic support
- Secure grip with special non-slip nylon strap



Centred prismatic support

No damage to the pipe surface

Model	 mm	 inch	 kg	No.
EASYGRIP	20-160	3/4"	1.0	<b>55075</b>
Spare strap EASYGRIP			0.1	<b>55076</b>



Non-slip special nylon strap

Secure grip






### Strap and Fittings Wrench

Made of aluminium special alloy, with replaceable nylon strap

#### KEY FEATURES

- Safe to use on chrome-plated fittings without damaging polished surfaces
- Use in the automotive industry (oil filter changes)



 inch	 mm	 inch	 mm	 kg	No.
3"	89	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

### UNI Stepped Key Set

For installation and removal of heating valve nipples, tank connectors and short tap extensions. Chrome vanadium steel, hardened, nickelplated, square drive 1/2"

#### Product Profile

#### KEY FEATURES

- Universally applicable: cam, internal hexagonal and 12-edged driver, size 3/8 - 1/2 - 3/4 - 1" and other sizes in between
- No canting of nipples and screw connections with the special stepped key design
- Combination key allows installation and removal of heating nipples, tank connections and short tap extensions
- 1/2" Ratchet makes installations quick and easy



No. 73298



No. 73280

#### 1/2" ratchet

Fast and easy installation



No. 27180

Model	g	mm	cm	No.
Set: UNI Stepped Key and Ratchet	670	1	12	<b>73297</b>
UNI Stepped Key	120	1		<b>73298</b>
Gas Stepped Key	80	1		<b>73280</b>
1/2" ratchet	440	1		<b>27180</b>



### Express Spanner

Chrome vanadium steel, drop forged, chrome-plated



No. 73299

#### KEY FEATURES

#### Express Spanner

- Ideal for hard-to-reach screws
- Quick installation of sink fittings and corner valves
- Hanger bolt M10, middle piece with internal screw thread
- Easy loosening of the hanger bolt with integrated ball seat
- When the internal hexagonal screw is loosened, the hanger bolt can be moved on the spanner axle (longer lever)

#### Ring Ratchet Express Spanner

- With the smallest of ratchet angles, fine-toothed, R/L switchable, 12-edged, flat offset



### Ring Ratchet Express Spanner



No. 73293

Spanner width	for hanger bolts		L mm	g	No.
	Size	mm			
Wrench size 10 x muzzle size 13	M 8	220	250	<b>73290</b>	
Wrench size 17 x muzzle size 19	M10	220	250	<b>73299</b>	
Wrench size 17 x muzzle size 19	M12	220	250	<b>73291</b>	
Wrench size 19 x ring size 17	M10	260	390	<b>73293</b>	

# General-Purpose Tools

## Installation Wrenches

### Bolt Driver

Bolt driver M6, M8, M10, M12 with 1/2" ratchet connector

#### KEY FEATURES

- Without damage to the screw thread, for express and hanger bolts
- Easy loosening of the screw with the integrated ball seat

Simple installation



4-part set (No. 26164) includes: Bolt Driver M6 (No. 26160), M8 (No. 26161), M10 (No. 26162), M12 (No. 26163), steel carrying case



Model	mm	g	No.
Set M6 - M8 - M10 - M12		650	<b>26164</b>
Bolt driver M 6	35	70	<b>26160</b>
Bolt driver M 8	40	90	<b>26161</b>
Bolt driver M 10	45	100	<b>26162</b>
Bolt driver M 12	50	120	<b>26163</b>

### Sanitary Four Way Key

Chrome Vanadium Special steel

#### KEY FEATURES

- Four external hexagonal 3/8", 1/2", 3/4", 1" up to 100 mm and installation/ removal of heating valves and tank connectors
- 3 inner threads M8, M10 and M12 for hanger bolts

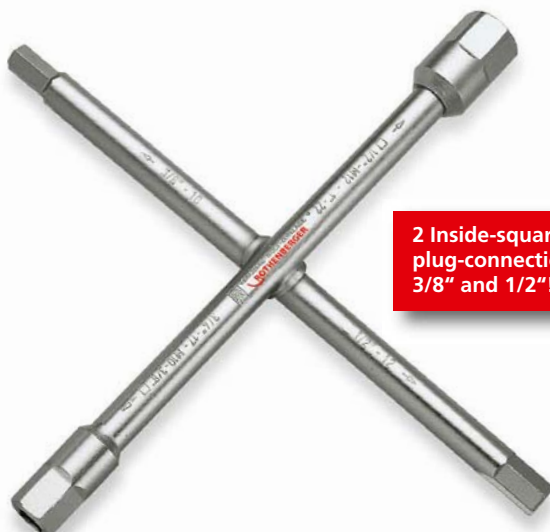
### Sanitary Four Way Key

Chrome Vanadium Special steel

#### KEY FEATURES

**Multi-functional combined key:**

- Four external hexagonal 3/8", 1/2", 3/4", 1" for short tap, extensions, installation and removal of heating valves and tank connectors
- 3 inner threads M8, M10 and M6 for hanger bolts (wash basin fittings)



Model	Dimensions mm	g	No.
Sanitary Four Way Key with 10 functions	220 x 220	610	<b>351043</b>



Model	Dimensions mm	g	No.
Sanitary Four Way Key multifunctional	200 x 200	530	<b>351044</b>

11



# General-Purpose Tools

## Installation Wrenches

### ROFIX SANISET Profi

Installation tool



No. 73201



No. 73200



No. 73202

**1 tool for 5 uses!**

User-friendly combination set for installation of basins, toilets and drains

#### KEY FEATURES

- Bolt Driver Tool for M8 and M10 enables easy use in all positions
- Seat for the 9 mm and 13 mm extensions, as well as the RO-QUICK 2 adaptor with the Bolt Driver Tool
- Ease of use with the RO-QUICK 2 adaptor for the most common drains in bath tubs and basins



Set (No. 73200) includes: Bolt driver tool (No. 73201), RO-QUICK 2 adaptor (No. 73206), extension 9 mm (No. 73210), 13 mm (No. 73213), steel carrying case (No. 26410)

Set (No. 73202) like Set (No.73200), in addition extensions size 10, size 11, size 12 and size 14

Model	with extension mm	g	No.
ROFIX SANISET Profi	9-10-11-12-13-14	1,500	<b>73202</b>
ROFIX SANISET	9-13	900	<b>73200</b>
<b>Bolt Driver tool</b>			
M8/M10	215	120	<b>73201</b>
RO-QUICK 2-Adaptor	90	40	<b>73206</b>
Special extension size 9	185	50	<b>73210</b>
Special extension size 10	185	50	<b>73209</b>
Special extension size 11	185	50	<b>73208</b>
Special extension size 12	185	50	<b>73212</b>
Special extension size 13	185	50	<b>73213</b>
Special extension size 14	185	50	<b>73214</b>

### RO-QUICK

Valve key

Release valve holder and key for eccentric and standard valves



No. 70413



No. 70414



#### KEY FEATURES

- Quick and problem-free use by the installation of bathtubs, basins and sinks
- Can be used from the bottom up
- With 2 facing, spring mounted locking cams, as well as holder with T-handle
- Adaptor with star handle for showers, bathtubs (optional accessory)
- Torque-proof immediately on insertion

**No damage to chrome-plated parts!**

Model	L mm	g	No.
RO-QUICK Set			<b>70439</b>
RO-QUICK Valve Key	120	300	<b>70414</b>
Adaptor	75	70	<b>70413</b>

11







### ROCLICK

#### Combined open-ended / hinged ratchet wrench

Chrome vanadium steel, polished and high shine chrome-plated

#### KEY FEATURES

- Moveable ring ratchet allows for use even in tight spaces
- Precise work with the fine-running ratchet (72 teeth)

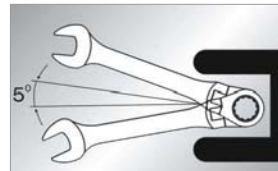
Small operating radius of only 5°!



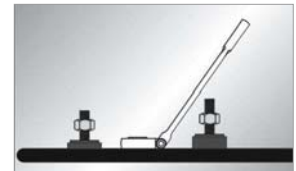
Fig. ROCLICK wrench set



Small 5° operating radius



Adjustable inclination angle



7-part set (No. 70490) includes: ROCLICK combined spanner 8 - 10 - 11 - 13 - 14 - 17 - 19 mm, plastic case

Model	g	kg	No.	
ROCLICK spanner set, 7 pieces	1,150	1	12	<b>70490</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 5/8" pipe lines **according to DIN EN 378-2 : 2012-08**

DIN  
-Norm



Fix with torque urgently necessary!

8 piece set (No. 1750.01) includes: spanner wrench sizes 17, 22, 24, 26, 27, 29 mm, torque wrench, carrying bag

Model	kg	No.
Torque wrench set, 7 piece	3.5	<b>175001</b>

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

### ROTURN

#### Combined ring / open-ended spanner

Chrome vanadium steel, polished and high shine chrome-plated



#### KEY FEATURES

- Loosening of up to 70% of damaged hexagonal screws with hexagonal open end and ridged profile
- Ergonomically optimised: Pressure on the flat side of spanner makes work easier



Protects the hand



8 part set (No. 70475) includes: ROTURN 10 - 11 - 13 - 14 - 16 - 17 - 19 - 22 mm, in plastic case

Model	kg	No.		
ROTURN spanner set, 8 pieces	1.7	1	12	<b>70475</b>



# General-Purpose Tools

## Installation Wrenches

### ROCLICK Key

Chrome vanadium, head black atramentized



#### KEY FEATURES

- With the spring mechanism – the harder the pressure, the more firmer the grip
- Self-ratcheting effect when turning back
- Fast extraction and loosening of screws
- Suitable especially for screws on pipes, cables and rods



Model	Key width mm	L mm	g	No.
ROCLICK Key 10	10	134	80	<b>70420</b>
ROCLICK Key 11	11	137	80	<b>70419</b>
ROCLICK Key 12	12	137	80	<b>70421</b>
ROCLICK Key 13	13	137	90	<b>70422</b>
ROCLICK Key 14	14	140	90	<b>70423</b>

Model	Key width mm	L mm	g	No.
ROCLICK Key 16	16	184	130	<b>70424</b>
ROCLICK Key 17	17	184	140	<b>70425</b>
ROCLICK Key 19	19	188	188	<b>70426</b>
ROCLICK Key 21	21	230	230	<b>70427</b>
ROCLICK Key 24	24	240	240	<b>70418</b>

### Ring Spanner

Chrome vanadium steel, drop forged, chrome-plated



#### KEY FEATURES

- Ideal for hard-to-reach screws with the finely toothed R/L switchable ratchet
- 12-edged, flat offset, robust and indestructible

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	Box	No.
Spanner Set 7 pieces		3,500	1	<b>70281</b>
10 x 11	200	120	1 36	<b>70270</b>
12 x 14	230	200	1 36	<b>70271</b>
13 x 17	250	280	1 36	<b>70272</b>

Model	L mm	g	Box	No.
15 x 16	260	320	1 36	<b>70273</b>
19 x 22	310	440	1 36	<b>70274</b>
24 x 27	360	700	1 36	<b>70276</b>
30 x 32	410	990	1 36	<b>70277</b>

### Adjustable Wrench

Chrome vanadium steel, drop forged, chrome-plated and polished



#### KEY FEATURES

- Precise operation: Smooth-running and robust roller with minimum play in the sliding guides



Size inch	L mm	Clamping width up to mm	g	No.
4"	120	16	80	<b>70440</b>
6"	160	20	100	<b>70441</b>
8"	210	25	220	<b>70442</b>

Size inch	L mm	Clamping width up to mm	g	No.
10"	250	29	390	<b>70443</b>
12"	300	34	660	<b>70444</b>
15"	380	44	1,170	<b>70445</b>

11



# General-Purpose Tools

## Installation Wrenches

### One Handed Type R

The ideal multi-function spanner with ratchet function – for almost all bolt and nut applications up to a size of 42 mm (1.1/4")

#### KEY FEATURES

- Self-clamping even on smooth pipes, bolts, shafts and broken off head of hexagonal screws

Enormous leverage!



L	L	Clamping width	Clamping width		No.
mm	inch	mm	inch	g	
160	6"	SW 9 - 17	1/8" - 3/8"	80	<b>70220</b>
200	8"	SW 14 - 28	1/4" - 3/4"	200	<b>70221</b>

L	L	Clamping width	Clamping width		No.
mm	inch	mm	inch	g	
255	10"	SW 16 - 33	3/8" - 1"	340	<b>70222</b>
310	12"	SW 22 - 42	1/2" - 1.1/4"	520	<b>70223</b>

### Double-End Box Wrench Set

Chrome vanadium steel, chrome-plated DIN 838

10-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32 mm

12-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



### Open-Ended Wrench Set

Chrome vanadium steel, chrome-plated DIN 3113

8-piece

8x8, 9x9, 10x10, 11x11, 13x13, 14x14, 17x17, 19x19 mm



Model	No.
Double-end box wrench set 10-piece	<b>849064</b>
Double-end box wrench set 12-piece	<b>849065</b>

Model	No.
Open-ended wrench set 8-piece	<b>849554</b>

### Double-end Box Wrench Set

Chrome vanadium steel, chrome-plated DIN 3110

10-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 24x27, 30x32

12-piece

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm



Model	No.
Double-end box wrench set 10-piece	<b>849334</b>
Double-end box wrench set 12-piece	<b>849335</b>
6 x 7 mm	<b>849285</b>
8 x 9 mm	<b>849289</b>
10 x 11 mm	<b>849293</b>
12 x 13 mm	<b>849299</b>
14 x 15 mm	<b>849303</b>

Model	No.
16 x 17 mm	<b>849306</b>
18 x 19 mm	<b>849308</b>
20 x 22 mm	<b>849311</b>
21 x 23 mm	<b>849313</b>
24 x 27 mm	<b>849317</b>
25 x 28 mm	<b>849319</b>
30 x 32 mm	<b>849323</b>

# General-Purpose Tools

## Screwdrivers

**EUROLINE®**

Screwdrivers



### Product Profile

#### KEY FEATURES

- 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

#### CHARACTERISTICS

- Blade made of chrome vanadium steel with high-torque and hardness, matt chrome-plated
- Hardened, burnished tip with high durability for reliable force transmission even for tightly secured screws
- Guaranteed perfect seat on screw head, long service life even with long term use
- Handle made of high-quality plastic, grip-friendly AS knob form

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
Slot	3,5 x 75 mm 4 x 100 mm	3,5 x 75 mm 4 x 100 mm
Phillips	5,5 x 125 mm 6,5 x 150 mm	5,5 x 125 mm 4 x 100 mm
Pozidriv	PZ 1 x 100 mm PZ 2 x 125 mm	
		PH 1 x 100 mm PH 2 x 125 mm

### Slot Screwdriver



Slot



### Phillips Screwdriver



Phillips



### Pozidriv Screwdriver



Pozidriv



Tip design

Width x Length mm	Model	g	No.
4.0 x 100	Slot	45	<b>73103</b>
5.5 x 125	Slot	84	<b>73131</b>
6.5 x 150	Slot	128	<b>73133</b>
PH 1 x 100	Phillips	80	<b>73152</b>
PH 2 x 125	Phillips	98	<b>73153</b>
PZ 1 x 100	Pozidriv	80	<b>73161</b>
PZ 2 x 125	Pozidriv	98	<b>73162</b>

### ROBIT

#### 10-piece bit set

With magnet holder and front tip



Model	No.
ROBIT bit set (10-piece)	<b>73670</b>

11



### EUROLINE® IMPAKT

Screwdriver with continuous, strengthened blade

#### Product Profile

#### KEY FEATURES

- One-piece, strengthened blade with metal cap allows directed hammer blows, for example loosening stuck screws

Set (No. 73575) includes:

- 5,5 x 100 mm
- 6,5 x 125 mm
- 8 x 150 mm
- PH 1 x 80 mm
- PH 2 x 100 mm



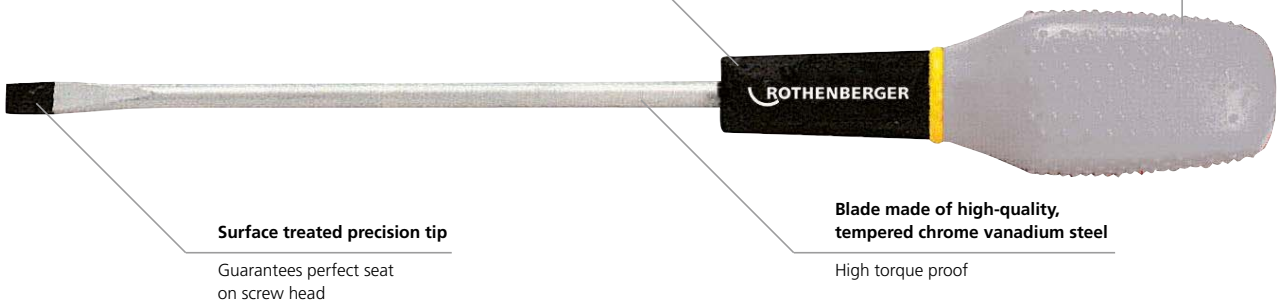
2 tools in 1!

Colour coding for different tips

Quick differentiation

Handle made of high-quality plastic, grip-friendly AS knob form

High force transmission



Surface treated precision tip

Guarantees perfect seat on screw head

Blade made of high-quality, tempered chrome vanadium steel

High torque proof

Constant strengthened blade with metal cap



5-piece set (No. 73575) includes: Slot screwdriver 55 x 100 (No. 73565), 6,5 x 125 (No. 73566), 8 x 150 (No. 73567), Phillips PH 1 x 80 mm 1 (No. 73536), PH 2 x 100 mm (No. 73537)

Model	g	No.
EUROLINE® IMPAKT Set 5 pieces	950	73575

### VDE Screwdriver Set

Blades made of chrome vanadium molybdenum steel, thoroughly hardened, extrusion-coated blade insulation tightly joined with handle, 1,000 Volt



1000 V



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	323126



# General-Purpose Tools

## Installation Aids

### ROCHECK

#### Spirit level for angled valves

For exact vertical and horizontal alignment of fittings

##### KEY FEATURES

- With horizontal and head levels
- One side with 1/2" external screw thread

Precise Installation!



### ROCHECK

#### Spirit level for standard distances

Accurate installations with installation gauge for fittings, with horizontal and vertical levels, unbreakable

##### KEY FEATURES

- For standard distances: 97 - 120 - 153 - 160 - 170 - 200 - 210 mm

Exact Adjustment!

Exact installation by assembling jig for braces



4-part set (No. 70667) includes: Spirit level for angled valves 200 mm (No. 70661), Spirit level for standard distances 300 mm (No. 70665), 1 flexible ruler 2 m (No. 252100), steel carrying case (No. 24022)

Model	g	No.
ROCHECK Set in steel case	2.260	<b>70667</b>
ROCHECK spirit level for angled valves 200 mm	220	<b>70661</b>
ROCHECK spirit level for standard distances 300 mm	260	<b>70665</b>

### Cartridge Extractor Set

Simple extraction of cartridges in taps



##### KEY FEATURES

- Simple extraction of cartridges in taps
- 4 adaptors with hook, threaded rod, screw or rivet adaptor for cartridges made before 1979, starting in 1979 and MOEM cartridges, as well as extraction tools

#### Simple use:

Screw the appropriate cartridge extractor on the threaded rod, attach to the cartridge, guide the cartridge body and counter piece over the thread rod, rotate the t-handle and pull the cartridge out of its seat.

Set (No. 854390) includes: T-handle (No. 854380), screw 12 x 92 (No. 854381), turning handle (No. 854382), threaded rod M10 x 130 (No. 854383), cartridge body 32 x 131 (No. 854384), cartridge extractor with thread (No. 854385), cartridge extractor with hook (No. 854386), cartridge extractor 20 x 45 (No. 854387), counter piece (No. 854388), steel carrying case

Model	kg	No.
9-part set	1.25	<b>854390</b>

11

### RODOKIT Set

#### Tap reseating tool

For accurate reshaping of worn tap seats from leaky spigots

#### KEY FEATURES

- Smooth, precise and centred chip removal with the special cutter with three milling cams
- Cone adaptor with multi-trapezoidal thread for various valve threads

Set (No. 70980) includes: Basic tool, thread adaptor size 1, 2, 3, 4, cone adaptor, cutter Ø 12-15-16-18 mm

Model	g	No.
RODOKIT Set	1.170	<b>70980</b>
RODOKIT Basic Tool	230	<b>70981</b>
Cone adaptor	100	<b>70992</b>

Dimensions	g	Cutter	Adaptor
12 mm	10	<b>70982</b>	<b>70986</b>
15 mm	10	<b>70983</b>	<b>70987</b>
16 mm	10	<b>70984</b>	<b>70988</b>
18 mm	10	<b>70985</b>	<b>70989</b>



With rust-free steel cutter for high-quality armature!



### Tap Reseating Tool

For exact re-cutting of worn tap seats from leaky spigots

#### Product Profile

#### KEY FEATURES

- Fast and simple use with exact re-cutting of worn tap seats
- Cylindrical stepped threaded adaptor that is suitable for all conventional fittings
- Adjustable cutting pressure using spring and regulating screw enable precise work
- Exchangeable cutter is always ready for use

Model	inch	g	No.
Basic Tool with cutter 3/8"-1/2"-3/4"-1" in Box	3/8" - 1"	350	<b>70970</b>
Basic Tool with cutter 3/8"-1/2"-3/4"-1"	3/8" - 1"	980	<b>70974</b>
and each with 3 seals in steel compartment			
Basic Tool with cutter 1/4"-3/8"-1/2"-3/4"-1"	1/4" - 1"	1.060	<b>70972</b>
and each with 3 seals in steel box			
Basic Tool without cutter		250	<b>70950</b>
Water-tap valve seat cutter			<b>70951</b>
Spare cutter	1/4"	10	<b>70976</b>
Spare cutter	3/8"	10	<b>70954</b>
Spare cutter	1/2"	10	<b>70955</b>
Spare cutter	3/4"	20	<b>70956</b>
Spare cutter	1"	30	<b>70957</b>



# General-Purpose Tools

## Installation Aids

### Standard Spirit Level



Six-ring spirit level for applying 1% and 2% gradients!

10 year warranty!



#### KEY FEATURES

- Deformation-free aluminium rectangular profile, anodised
- Imprinted, centred centimetre scale
- Shock and weather proof
- Horizontal and vertical levels, non-breakable, permanently aligned in carrier
- Measuring accuracy in normal position  $0.029^\circ = 0.5 \text{ mm} / \text{m}$

L mm	g	No.
300	190	<b>255030</b>
400	260	<b>255040</b>
500	320	<b>255050</b>
600	340	<b>255060</b>
800	520	<b>255080</b>
1,000	640	<b>255100</b>
1,200	820	<b>255120</b>

### ROMATIC and Ruler

Measuring tape



#### KEY FEATURES

- Easy handling
- Automatic tape rewind
- With set/stop button that can be used as marker for repeated measurements



Model	Measuring length m	Tape width mm	g	No.
ROMATIC	3	16	120	<b>77396</b>
ROMATIC	5	19	230	<b>77397</b>
Flexible ruler	2		100	<b>252100</b>

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, very tough

#### KEY FEATURES

- Optimum force transmission with the T-handle
- Rotatable claw for right and left-handed rotation



Clamping range mm	inch	L mm	g	No.
10 - 32	3/8" - 1.1/4"	235	475	1 40 <b>70228</b>

11





### 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 mm	g	No.
mm	inch			
10 - 32	3/8" - 1.1/4"	275 - 455	710	<b>70225</b>
20 - 48	3/4" - 1.7/8"	290 - 470	740	<b>70226</b>
32 - 63	1.1/4" - 2.1/2"	290 - 470	780	<b>70227</b>

### 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 inch	L mm	Sheet thickness mm	g	No.
10"	250	1.0	450	<b>71095</b>

### Tower Pincers / Concreter's Nippers

Special forged steel, slim head, polished, long plastic covered handles



L inch	L mm	Clamping width mm	g	No.
9"	225	22	330	<b>70118</b>
10"	250	26	440	<b>70119</b>

### Basin Nut Wrench

Special chrome vanadium steel, drop forged, coated with adjustment screw



Model	L mm	g	No.
Basin Nut Wrench	270	580	<b>351050</b>

### ROBOLT Bolt Cutter

Effortless cutting of construction steel up to 1300 N/mm<sup>2</sup> (HRC 40), gate steel, concrete steel types I, II, III, IV, pre-stressed concrete steel and steel wire



L mm	L inch	Cutting performance Ø mm		g	No. Robot	No. head
		490 N/mm <sup>2</sup>	1300 N/mm <sup>2</sup>			
300	12"	5 mm - 3/16"	4 mm - 5/32"	0.75	<b>75010</b>	<b>75020</b>
350	14"	7 mm - 1/4"	5 mm - 3/16"	0.98	<b>75011</b>	<b>75021</b>
450	18"	8 mm - 5/16"	6 mm - 1/4"	1.60	<b>75012</b>	<b>75022</b>
600	24"	10 mm - 3/8"	8 mm - 5/10"	2.63	<b>75013</b>	<b>75023</b>
750	30"	13 mm - 1/2"	9 mm - 11/32"	4.00	<b>75014</b>	<b>75024</b>
900	36"	16 mm - 5/8"	10 mm - 3/8"	6.24	<b>75015</b>	<b>75025</b>
1,050	42"	19 mm - 3/4"	11 mm - 7/16"	9.39	<b>75016</b>	<b>75026</b>

### 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 inch	L mm	Clamping width mm	g	No.
10"	250	32	570	<b>70252</b>



# General-Purpose Tools

## Installation Aids

### Combination Pliers

For hard and soft wire, special tool steel, oil hardened, special slim form, chrome-plated head, zero-play joint and heavily insulated handles

DIN  
-Norm

VDE  
approved



L mm	Model	g	No.
180	DIN 5244	250	324559

### Edge Cutter

For hard and soft wire, special tool steel, oil hardened, Swedish style, chrome-plated head, zero-play joint with heavily insulated handles

DIN  
-Norm

VDE  
approved



L mm	Model	g	No.
160	DIN 5238B	210	324577

### Insulation Stripper

Special tool steel, oil hardened, chrome-plated, zero-play joint, heavily insulated handles, with adjustment screw and opening spring

VDE  
approved



L mm	max mm	g	No.
165	5	160	324800

### Power Edge Cutter

For piano wire, hard and soft wire, powerful, special tool steel, oil hardened, chrome-plated head, zero-play joint, with heavily insulated handles

DIN  
-Norm

VDE  
approved



L mm	Model	g	No.
180	DIN 5238A	250	324588

### Long Nose 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

DIN  
-Norm

VDE  
approved



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

DIN  
-Norm

VDE  
approved



L mm	Model	g	No.
200	DIN 5236D	200	324739


11



### 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**



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 diameter and above
2. Insert boring stud (no deformation of the drilled workpiece)
3. Attach boring nut and turn with spanner, do not tilt
4. Use special guide bushes for sunken or protruding rupture points



#### Instructions for screw extraction

For rough-running threads, spray on solution or apply heat. Boring studs are made of high-quality material, therefore they do not twist or heat up

### Screw Extraction Sets

Packaged in handy plastic box with spiral drills, guide bushes, boring studs and boring nuts


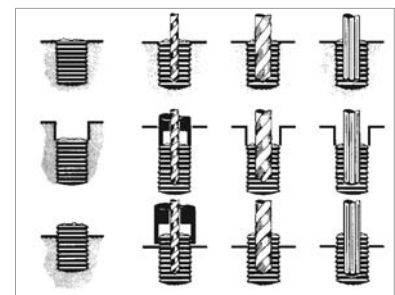
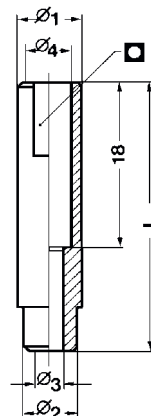


Set	Set contains complete for	Contains piece	 g	No.
Size 1	M 5 - M 12	21 pieces	450	<b>71310</b>
Size 2	M 5 - M 16	25 pieces	580	<b>71311</b>



Fig. Screw Extraction Set, 25 pieces



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>

# General-Purpose Tools

## Cutting Discs

### Cutting Disc Assortment

For burr-free and quick cutting of stainless steel, steel, cast iron and stone

Description	No.	Alloyed and unalloyed steel	High strength steel	Tool steel	Rust- and acid-resistant steel	Edged steel profiles	Steel panel	Welded joints	Edged stainless steel profiles	Cast	Aluminium alloying	Copper	Brass / Bronze
Cutting disc INOX Profi Plus (115 x 1 x 22)	071533D	●	●	●	●	●	●	●	●	○	●	●	●
Cutting disc INOX Profi Plus (125 x 1 x 22)	071534D	●	●	●	●	●	●	●	●	○	●	●	●
Grinding/Cutting disc INOX Safe Cut (115 x 2 / 1 x 22)	071551D	●	●	●	●	●	●	●	●	●	●	●	●
Grinding/Cutting disc INOX Safe Cut (125 x 2 / 1 x 22)	071552D	●	●	●	●	●	●	●	●	●	●	●	●
Grinding/Cutting disc INOX 2 in 1 (115 x 2,5 x 22)	071553D	●	●	●	●	●	●	●	●	●	○	○	○
Grinding/Cutting disc INOX 2 in 1 (125 x 2,5 x 22)	071554D	●	●	●	●	●	●	●	●	●	○	○	○

●● = very well suited ● = well suited ○ = partially suited

### INOX PROFI PLUS

#### Grinding / cutting discs for stainless steel (1 mm)

For thin sheet metal (e.g. in body work, tank equipment and container construction), steel cable, thin-walled profiles and pipes made of stainless steel and NE metals, composite materials (GFK), high-temperature materials

- This very thin wheel enables a one-of-a-kind clean cut with a minimum of effort in a short amount of time
- Millimetre accurate use, vibration-free operation without thermal blue discolouration or burr formation (burr-free)

Model	Dimensions mm	g	g	g	No.
Profi Plus box 115	115 x 1.0 x 22	350	1(10)	25	071533D
Profi Plus box 125	125 x 1.0 x 22	450	1(10)	25	071534D



### SAFE CUT

#### Cut-off disc for steel and stainless steel

- One-of-a-kind conical form that prevents the cut-off wheel from getting jammed in the workpiece and avoids the dangerous "Kick-Back"-Effect
- The profiles tapers from a 2 mm outside thickness to 1 mm on the inside, thus the cutting behaviour is optimised
- Comfortable, simple cutting with absolute peace-of-mind

Model	Dimensions mm	g	g	No.
Safe Cut box 115	115 x 2/1 x 22	350	1(10)	071551D
Safe Cut box 125	125 x 2/1 x 22	450	1(10)	071552D



### 2 IN 1

#### Cut-off and grinding disc for steel and stainless steel

- Fast cutting and side grinding in one step
- For cutting at a comfortable speed
- Instant (without changing wheel) deburring, chamfering and grinding
- The lateral load is certified (CN 12413)

Model	Dimensions mm	g	g	No.
2in1 box 115	115 x 2,5 x 22	550	1(10)	071553D
2in1 box 125	125 x 2,5 x 22	650	1(10)	071554D



2 in 1!



Follow all manufacturers instructions



Don't rough down



Follow work safety measures



Do not use defective grinding/cutting discs



### PROFI PLUS

#### Twist drill set DIN 338 Type N

HSS rolled, all drill diameters in 0.5 mm diameter steps



No. 817000

Model	Drill range mm	Number drills	g	No.
In steel box	1.0 - 10.0	19 pc.	710	<b>817000</b>
In steel box	1.0 - 13.0	25 pc.	1400	<b>817003</b>
In round box	1.0 - 10.0	19 pc.	465	<b>816990</b>

mm	No.	mm	No.
1.0	<b>817012</b>	6.5	<b>817067</b>
1.5	<b>817017</b>	7.0	<b>817072</b>
2.0	<b>817022</b>	7.5	<b>817077</b>
2.5	<b>817027</b>	8.0	<b>817082</b>
3.0	<b>817032</b>	9.0	<b>817092</b>
3.5	<b>817037</b>	9.5	<b>817097</b>
4.0	<b>817042</b>	10.0	<b>817102</b>
4.5	<b>817047</b>	10.5	<b>817104</b>
5.0	<b>817052</b>	11.0	<b>817106</b>
5.5	<b>817057</b>	11.5	<b>817108</b>
6.0	<b>817062</b>	12.0	<b>817110</b>

### HM-Stone Drill

High-performance drill made with carbide



mm	No.	mm	No.
4	<b>112040</b>	9	<b>112049</b>
5	<b>112042</b>	10	<b>112050</b>
6	<b>112044</b>	12	<b>112052</b>
7	<b>112046</b>	13	<b>112053</b>
8	<b>112047</b>	14	<b>112054</b>

### Flat Center Bit

For precise drilling depth



mm	No.	mm	No.
10	<b>464010</b>	28	<b>464028</b>
12	<b>464012</b>	32	<b>464032</b>
14	<b>464014</b>	35	<b>464035</b>
16	<b>464016</b>	38	<b>464038</b>
18	<b>464018</b>	40	<b>464040</b>
20	<b>464020</b>	Extension	<b>463610</b>
25	<b>464025</b>	6 x 300 mm	



# General-Purpose Tools

## Drill Bits

### Chassis Punch

Chassis Punch for uniform deformation-free punching of sheets, steel sheets, V2A sheets, copper and aluminium



#### KEY FEATURES

- 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 129 (from Ø 152 mm)

Extremely durable

Optimum support due to 3-point cut

Clean cutting process



Fig. Chassis Punch

mm	Through - size	g	No.
28.3	PG21	220	<b>21828</b>
32		260	<b>021832X</b>
34		260	<b>21834</b>
35		270	<b>21835</b>
36		270	<b>21836</b>
38		370	<b>21838</b>

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>
Spare screw M10 x 1.0 for Ø 16-38 mm		<b>21902</b>
Spare screw M12 x 1.5 for Ø 39-50 mm		<b>21903</b>
Spare screw M16 x 1.5 for Ø 51-65 mm		<b>21904</b>

### UNIDRILL®

#### HSS stepped drill bit

In one step, sheets can be centred, spot drilled, drilled and deburred



No. 21313



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>






### UNIDRILL®

#### HSS sheet metal cone bit

Step-less and burr-free drilling of holes without deformation, suitable for even the thinnest of sheets, no pre-drilling, can be re-polished, with spot drilling tip for size 3 and above

3-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>




Burr-free drilling



### HSS Bimetal Hole Saws


Suitable for carbon steel (up to 700 N/mm<sup>2</sup> strength), non-ferrous and light metals, plastics, plaster, light construction, fibre, plywood and wood processing

Sets include: Hole Saw Set in plastic case, adaptor holder A1 (No. 114161) and A2 (No. 114162) with center drill, plastic case

Hole Saw Sets	 kg	No.
19 - 22 - 29 - 38 - 44 - 57 mm	1.27	<b>114201</b>
19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm	1.70	<b>114202</b>

### Adaptor Holder

For HSS Bimetal hole saws with center drill

Type	for Hole saw	Adaptor	 g	No.
A1	up to 30 mm	12 mm - hex	75	<b>114161</b>
A2	32 up to 152 mm	12 mm - hex	230	<b>114162</b>
Spare center drill, HSS		6.35 mm	20	<b>114171</b>
Extension 300 mm				<b>114175</b>



No. 114201



No. 114161




No. 114162




No. 114171



### HSS Bimetal Hole Saws

 mm	for use with holder	No.
14	A1	<b>114014</b>
16	A1	<b>114016</b>
17	A1	<b>114017</b>
19	A1	<b>114019</b>
22	A1	<b>114022</b>
25	A1	<b>114025</b>
28	A1	<b>114028</b>
29	A1	<b>114029</b>
30	A1	<b>114030</b>
32	A2	<b>114032</b>
33	A2	<b>114033</b>
35	A2	<b>114035</b>
36	A2	<b>114036</b>
37	A2	<b>114037</b>
38	A2	<b>114038</b>
40	A2	<b>114040</b>
41	A2	<b>114041</b>
43	A2	<b>114043</b>
44	A2	<b>114044</b>
46	A2	<b>114046</b>
48	A2	<b>114048</b>

 mm	for use with holder	No.
51	A2	<b>114051</b>
52	A2	<b>114052</b>
54	A2	<b>114054</b>
57	A2	<b>114057</b>
60	A2	<b>114060</b>
65	A2	<b>114065</b>
64	A2	<b>114064</b>
67	A2	<b>114067</b>
70	A2	<b>114070</b>
79	A2	<b>114079</b>
83	A2	<b>114083</b>
89	A2	<b>114089</b>
92	A2	<b>114092</b>
98	A2	<b>114098</b>
102	A2	<b>114102</b>
105	A2	<b>114105</b>
111	A2	<b>114111</b>
114	A2	<b>114114</b>
127	A2	<b>114127</b>



# General-Purpose Tools

## Drill Bits

### UNICUT HM

Carbide-tipped hole saws for cutting circular holes  
 Ø 16 - 140 mm (5/8 - 5.1/2") without impact



#### Product Profile

#### APPLICATION AREA

For stationary and free-hand cutting of circular holes. For iron, steel, V2A - V4A, cast, copper, bronze, aluminium, zinc, plastic, fibre-glass, chipboard and wood, light construction plaster boards without impact

#### KEY FEATURES

- For use even in high-speed hand drills and stand-mounted drilling machines due to anti-slip shaft
- Positive cutting angle for good chip removal
- Includes adaptor holder and replaceable HSS-Co5 centring drill up to 4 mm sheet thickness, cutting depth 10 mm



### UNICUT HM

Hole saw set



Fig. UNICUT HM hole saw set



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>
Spare centering pin HSS 6 mm		<b>21394</b>
Spare centering pin HSS 8 mm		<b>21395</b>

11



mm	inch	g	No.	mm	inch	g	No.
16	5/8"	100	<b>21316</b>	30		140	<b>21330</b>
17		110	<b>21317</b>	31		180	<b>21331</b>
18		110	<b>21318</b>	32	1.1/4"	180	<b>21332</b>
19	3/4"	120	<b>21319</b>	33		180	<b>21333</b>
20		120	<b>21320</b>	34		180	<b>21334</b>
21		120	<b>21321</b>	35	1.3/8"	190	<b>21335</b>
22	7/8"	120	<b>21322</b>	36		190	<b>21336</b>
23		140	<b>21323</b>	37		190	<b>21337</b>
24		140	<b>21324</b>	38	1.1/2"	190	<b>21338</b>
25	1"	120	<b>21325</b>	39		190	<b>21339</b>
26		130	<b>21326</b>	40		200	<b>21340</b>
27		130	<b>21327</b>	41	1.5/8"	200	<b>21341</b>
28	~1.1/8"	130	<b>21328</b>	42		200	<b>21342</b>
29		140	<b>21329</b>	43		210	<b>21343</b>

mm	inch	g	No.	mm	inch	g	No.
44		210	<b>21344</b>	70	2.3/4"	390	<b>21370</b>
45	~1.3/4"	210	<b>21345</b>	75	3"	400	<b>21375</b>
46		210	<b>21346</b>	80	~3.1/8"	420	<b>21380</b>
47		210	<b>21347</b>	85	~3.3/8"	450	<b>21385</b>
48	~1.7/8"	220	<b>21348</b>	90	~3.9/16"	550	<b>21386</b>
49		230	<b>21349</b>	95	3.3/4"	580	<b>21387</b>
50		250	<b>21350</b>	100	4"	590	<b>21388</b>
51	2"	260	<b>21351</b>	110	4.3/8"	700	<b>21389</b>
52		270	<b>21352</b>	120	4.3/4"	830	<b>21390</b>
53		270	<b>21353</b>	130	5.1/8"	880	<b>21391</b>
54	2.1/8"	280	<b>21354</b>	140	5.1/2"	880	<b>21392</b>
55		280	<b>21355</b>				
60	2.3/8"	360	<b>21360</b>				
65	2.5/8"	390	<b>21365</b>				





## Hammers, Chisels, Pin Punches

### Fitter's Hammer

Complies with **DIN 1041**, hickory wooden handle, head secured by sealed shaft

**DIN**  
-Norm





Head weight 	Total weight 	No.
300	470	<b>322823</b>
400	590	<b>322824</b>
500	670	<b>322825</b>
800	1,180	<b>322827</b>
1000	1,210	<b>322828</b>

### Lump Hammer

Complies with **DIN 6475**, hickory wooden handle, head secured by sealed shaft

**DIN**  
-Norm



Head weight 	Total weight 	No.
1000	1,170	<b>322921</b>
1250	1,380	<b>322922</b>
1500	1,670	<b>322923</b>
2000	2,250	<b>322924</b>

### Centre Punch

Tip and cone polished, shaft: octagonal, complies with **DIN 7250**. Chrome vanadium steel, air-hardened and forged

**DIN**  
-Norm



Cone tip 	mm	Shaft 	g	No.
4	120	10	50	<b>77279</b>

### Pin Punch Set, 6 pieces



**6-piece set** (No. 77297) includes: pin punches, 1 per size 150 x 10 x Ø 3, Ø 4, Ø 5, Ø 6 mm, 2 pin punches 150 x 12 x Ø 7, Ø 8 mm

Model 	g	No.
Pin Punch Set	550	<b>77297</b>

### Chisel

Safety tempered impact head prevents splintering off the chisel head

- Silver lacquered tip
- Chrome manganese silicon steel



No. 77050





No. 77072



No. 77164



No. 25811

Model	Length mm	Shaft mm	Cutting Width mm	without hand protection		with hand protection	
					No.		No.
Mason Chisel, flat	300	16	22	470	<b>77033</b>	560	<b>77050</b>
Mason Chisel, pointed	300	16	–	455	<b>77072</b>	545	<b>77090</b>
Electrician Chisel	250	8	13	95	<b>77164</b>		
Slotted Chisel	235	26 x 7	26	245	<b>25811</b>	345	<b>25810</b>

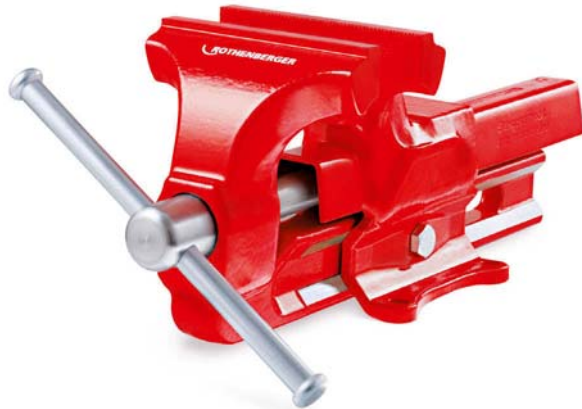
# General-Purpose Tools

## Vices

### Parallel Vice

With forged and hardened pipe jaws, steel forged underneath the parallel vice jaws

- Non-breakable
- Protected, powerful spindle with trapezoidal thread
- Re-adjustable double-sided guide
- Anvil base for levelling and compressing work



Jaw width mm	Clamping width mm	Clamping depth mm	for pipes inch	for pipes mm	kg	No.
120	125	65	3/8 - 1.1/2"	16 - 55	8.7	<b>070705X</b>
140	150	80	3/4 - 2"	27 - 70	15.6	<b>070735X</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



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	7.9	<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>

### Chain Pipe Vice

Tough, powerful design with V-shaped support, bending device, pipe support, wear-resistant jaws are forged and hardened, powerful chain, quick fastening due to offset lever and pre-tensioning screw, simple conversion to other pipe diameters, extremely robust powder epoxy coating

- V-shaped pipe supports with teeth and bridge prevent undesired bending during clamping
- Exchangeable jaws

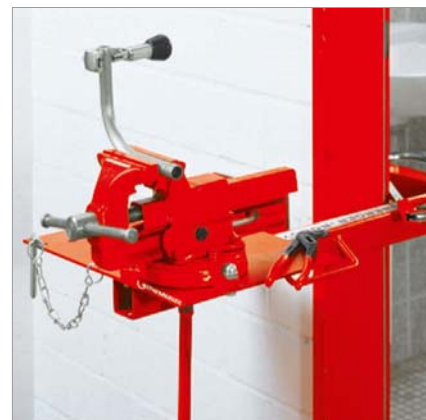


For pipes / inch	for pipes / mm	kg	No.
1/8 - 2 1/2"	10 - 76	3.8	<b>70713</b>
Spare jaw		0.7	<b>70734</b>
Spare chain		0.5	<b>70731</b>
1/8 - 4"	10 - 114	6.2	<b>70714</b>
Spare jaw		0.8	<b>70721</b>
Spare chain		0.6	<b>70732</b>
1/8 - 6"	10 - 165	9.3	<b>70715</b>
Spare jaw		0.9	<b>70722</b>
Spare chain		1.3	<b>70733</b>

### ROBOY® Clamping Workbench

For on-site repair and service work

- Portable, handy and practical workbench with the smallest dimensions
- Mountable on door frames or walls: Prevents floor damage and saves space
- Pressure plate is coated with rubber to protect against damage
- Spindle with trapezoidal thread for quick adjustment
- With height-adjustable support pipe for additional stability



Parallel Vice (No. 70705X) and rotatable table not included

Model	Dimensions / mm	kg	No.
ROBOY®	650 x 400	14.9	<b>70700</b>

### 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  $\varnothing$  3/8" - 1/2" - 3/4"  
**without integrated chain vice**
- Bending of pipes  $\varnothing$  3/8" - 1/2" - 3/4"
- Universal vice attachments applicable for pipe vice (No. 70710) and chain pipe vices (No. 70713, 70714, 70715)



No. 70752



No. 70740



No. 70751

### 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.
Tripod universal workbench with chain vice	16.0	<b>70752</b>
Tripod universal workbench without chain vice	15.3	<b>70751</b>
Tool 1/8" - 2"	21.0	<b>70740</b>

### Telescopic Workbench

- Stable, collapsible steel tube frame with the smallest dimensions
- Portable, handy and practical
- With tough beech wood plate for an optimal work surface  
Steel edges all around: ideal for vice machining
- Individually removable supporting legs for working steps with ease



Model	Size mm	kg	No.
Telescopic workbench	700 x 450 x 30	17.4	<b>070699X</b>

### Universal Workbench

- Stable and tough, easy to transport: collapsible tubular frame
- Optimum work surface: work plate made of processed beech wood
- Model "Pipe-fitter" Steel edges all around: ideal for vice machining



Model	Size mm	kg	No.
Installer	1200 x 550 x 835	30	<b>070690X</b>
Pipe-fitter	1000 x 700 x 835	32	<b>70696</b>
Pipe-fitter	1200 x 750 x 835	38	<b>70698</b>



# General-Purpose Tools

## General Aids & Tool Bags

### Hemp Dispenser with Roll / Teflon Sealing Tape



No. 70623



No. 855360

Model		No.
Roll 40 g / 40 m	1	<b>70623</b>
12 m on plastic bobbin	1	<b>855360</b>

### All-purpose Marker

Writes on tile and glass



### Carpenter Pencil



Model		No.
All-purpose Marker	1	<b>856911</b>
Carpenter pencil	1	<b>856907</b>

### Cable Knife

Blade made of hardened steel



### Cutter Knife



Model		No.
Cable knife with wooden handle, riveted	1	<b>355600</b>
Cutter knife incl. 4 blades, 18mm	1	<b>1500000087</b>
Blades for cutter knife (10 piece)	1	<b>1500000088</b>

### 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	<b>402310</b>

### 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	<b>402317</b>
Tool bag "Heavy Duty" small (410 x 230 x 300 mm)	1	<b>402316</b>

### Tool Bags

#### Tool Bag "Trendy"

- Lots of storage room for all your tools
- Keeps things organized, thanks to the many compartments



Volume: approx. 42 l

### Tool Bags

#### Toolbox "Trendy"

- Quick access to tools with the open bag
- Reinforced side walls provide stability
- Carrying comfort with the sturdy carrying handle and adjustable shoulder strap



Volume: approx. 11 l

### Tool Bags

#### Shoulder Toolbox "Trendy"

- Very light, handy bag for the most important tools
- Small pockets on the side keep things in view



Volume: approx. 8 l

Model		No.
Tool bag "Trendy" (380 x 300 x 370 mm)	1	<b>402311</b>
Tool bag "Trendy" (230x 230 x 210 mm)	1	<b>402309</b>

Model		No.
Shoulder toolbox "Trendy" (250 x 220 x 140 mm)	1	<b>402308</b>

11



### Service Case 40 parts

High-quality hard protective service case with all round edge protection, solid and hardened aluminium frame and ergonomic handle

- 2 tool boards with 4 sides for adding tools
- 1 bottom case for modular arrangement
- 1 document case in cover
- Dimension: 470 x 200 x 360 mm



Set (No. 1000000420) includes: TUBE CUTTER 35 DURAMAG (6 - 35 mm), Telescopic Basin Nut Wrench (10 - 32 mm), Saw Bow ROBO Super (SW 300), 10x Hand saw blade BI-METAL HSSE 4 Plus (300 mm), corner pipe wrench Super "S" (1.1/2"), Wapu SP (10"), Express Spanner (M10, with 17 x 19), Screwdriver Set EUROLINE (2 x PH, 4 x Slot), aluminium spirit level (400 mm), carpenter pencil (graphite, 240 mm), Cutter Knife, Hammer with hickory wooden handle (300 g), Electrician Chisel, flat (250 x 8 mm, square), Double-end Box Wrench (6 - 32 mm, 12 pcs.), Service Case

Model		No.
Service Case, 40 piece	1	1000000420

### Service Case 67 parts

High-quality hard protective service case with all round edge protection, solid and hardened aluminium frame and ergonomic handle

- 2 tool boards with 4 sides for adding tools
- 1 bottom case for modular arrangement
- 1 document case in cover
- Dimension: 470 x 200 x 360 mm

Tested in continuous operation up to 25 kg



Set (No. 1000000430) includes: Bricklayer's Chisel, Hole Punch (32 mm), One-handed Pipe Wrench STILLSON (14"), corner pipe wrench Super "S" (1"), Adjustable Wrench (6", with up to 29 mm), Ratchet Spanner open (ROCKCLICK, 13 mm and 17 mm), ROGRIP "S" (7", 10"), ROCUT TC (6 - 42 mm), carpenter pencil (graphite, 240 mm), wooden ruler (2 m), Cutter Knife, measuring tape ROMATIC (3 m), aluminium spirit level (400 mm), Screwdriver Set EUROLINE (2 x PH, 4 x Slot), Basin Nut Wrench (3/8 - 1"), Express Spanner (M10, with 17 x 19), MINICUT I Pro (3 - 16mm), TUBE CUTTER 35 DURAMAG (6 - 35 mm), Saw Bow ROBO Super (SW 300), 10x Hand saw blade BI-METAL HSSE 4 Plus (300 mm), Hammer with hickory wooden handle (300 g), Ratchet 1/2", R/L, Uni small saw, PUK, adjustable, with blade (190 / 310 mm), 12x Saw Blade for PUK saw (metal, 150 mm / 32Zp), Allen Key Set, fold-up (7 pcs., 2.5 - 10 mm), PLASTICUT (50 mm), Basin Nut Wrench (10 - 32 mm), Tap Extension Key with 12 x 17, Combination Pliers (180 mm), scraper (40 mm), Edge Cutter (160 mm), Combination Spanner Set (8 - 22, 8 pcs.), Service Case

Model		No.
Service Case, 67 piece	1	1000000430

### Apprentice Set

Tough installation toolbox completely equipped with all the tools the craftsman needs

- Extensive and practical tool assortment
- Case made of galvanized steel
- Dimension: 530 x 200 x 200 mm

Set (No. 19166) includes: Water pump wrench type "SP" 10", corner pipe wrench Super "S" (1"), ALU-spirit level, anodized. (500 mm), hacksaw frame (300 mm), 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, ROGRIP F (10"), Sanitary Four Way Key, installer toolbox

Model		No.
Apprentice set, 50 piece	1	19166
Installer toolbox	1	402312



# Table of Contents

## Application

### Installation

1



#### Cutting

Cutting Metal Manual.....	10 - 17
Cutting Plastic / MSR Manual.....	18 - 21
Sawing Manual .....	22
Sawing Electric .....	23 - 26
Deburing, Chamfering, & Calibration.....	27 - 29

2



#### RODIA® Diamond Core Drilling & Cutting

System Overview Diamond Core Drilling.....	32
Hand-Operated Drilling .....	33 - 34
Hand-Operated and Stationary Wet Drilling.....	35 - 43
RODIA® Diamond Drill Bits .....	44 - 48
Accessories for Hand-Operated & Stationary Drilling.....	49 - 52
Extraction Systems .....	53

3



#### Bending

Manual .....	56 - 63
Manual Hydraulic .....	64 - 65
Electric Hydraulic .....	66 - 67
Electric .....	68 - 70
Bending Tables.....	70 - 73

4



#### Bonding

Expanding, Extracting, Flaring .....	76 - 97
Pressing .....	98 - 113
Threading .....	114 - 135
Soldering & Welding .....	136 - 171

### Service & Maintenance

5



#### Testing & Leak Detection

Overview Testing Pumps .....	174
Testing of Water Lines & Containers .....	175 - 177
Testing of Gas & Water Lines .....	178 - 179
Testing of Waste Water Lines .....	180
Leak Detection on Gas Lines .....	181

6



#### Freezing

Freezing Electric.....	184 - 186
Freezing with Gas .....	187

7



#### Inspection & Locating

System Overview Video Inspection .....	190 - 191
Video Inspection .....	192 - 201

12

Cu  
PVC  
MSR  
INOX

### Service & Maintenance

8



#### Flushing & Pipe Cleaning

Flushing .....	204 - 205
Decalcifying .....	206 - 207
Pipe Cleaning Manual .....	208 - 210
Pipe Cleaning Electric .....	211 - 219
Pipe Cleaning Spirals .....	220 - 221
Drain Cleaning Tools .....	222 - 229
High Pressure Drain Cleaning .....	230 - 239

### ROWELD®

9



#### Plastic Pipe Welding

Cutting .....	242 - 244
Socket Welding.....	245 - 247
Hot Gas Welding .....	248
Electro-Fusion Welding .....	249 - 251
Butt Welding .....	252 - 257
Overview Hydraulic System .....	258 - 259
Workshop Machines .....	260
Manual welding extruder .....	261

### ACR

10



#### Refrigeration & Air-Conditioning Technology

Complete Solutions .....	264 - 266
Refrigeration Circuit Control .....	267 - 269
Leak Testing & Location .....	270 - 271
Evacuation .....	272 - 273
Evacuation & Filling .....	274 - 277
Accessories .....	278 - 279
Instructions for the use of Refrigerants.....	280
Conversion Table Pressure, Temperature .....	280 - 281

### General-Purpose Tools

11



#### General-Purpose Tools

Pliers .....	284 - 293
Installation Wrenches .....	294 - 299
Screwdrivers .....	300 - 301
Installations Aids .....	302 - 307
Cutting Discs .....	308
Drill Bits .....	309 - 312
Hammers, Chisels, Punches .....	313
Vices .....	314
Workbenches .....	315
General Aids & Tools Bags .....	316 - 317

12

Cu  
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MSR  
INOX

# Table of Contents

## Alphabetical

Item	Page	Item	Page
<b>A</b>		<b>B</b>	
Accessories for ROWELD® Quick S and WG 1600 E	248	Ball head cutter	226
Accessories ROWELD® P 110	253	Band saw blades for PORTACUT 185 BSR / BSP	23
Accessories ROWELD® P 160 SANILINE	255	Basic clamping set 110 mm	253
Accessories ROWELD® P 250 A	257	Basic clamping sets	255, 257
Accessories HD 11/90 – HD13/100 – 17/190 – 19/180 B	232	Basin nut wrench	304
Accessories HD 11/90, 13/100, 17/190, 19/180	232	Basin nut wrench	305
Accessories high-pressure pipe cleaning	237 – 239	Battery and Charger ROCAM® 3 Multimedia	201
Accessories high-pressure pipe cleaning	237 – 239	Battery and Charger ROCAM® Plus	201
Accessories pipe cleaning electric	218 – 219	Bender, electric	68 – 69
Accessories pipe cleaning electric	218	Bender, electro-hydraulic	66 – 67
Accessories ROWELD® P 110	253	Bender, manual hydraulic	64 – 65
Accessories ROWELD® P 160 SANILINE	255	Bender, one handed	56 – 57
Accessories ROWELD® P 250 A	257	Bender, two handed	60
Accessories soldering & welding	162 – 171	Bending formers	70
Accessories soldering & welding	162 – 171	Bending pliers	59 – 60
Acetylene brazing torch	148	Bending spray	61
Acetylene hoses	162	Bending springs	61
Adaptor	27	Blowback prevention	163
Adaptor / Cut-off valve	179	Bolt cutter	305
Adaptor holder	311	Bolt driver	295
Adaptor magazines	218	Bottle connection and adaptors	278
Adjustable wrench	279, 298	Brazing & soft soldering	138 – 161
AIRAC® brazing torch	148	Brazing cartridges	138 – 139
AIRAC® safety handle	148	Brazing equipment	156 – 160
AIRAC® set	148	Brush attachments	201
Air-conditioning tools	277, 278 – 279	Brushes	165
AIRPROP®	146	Bulb auger, long	223
Allen key	307	Bulb auger, short	223
Allen key set	307	Butt welding machine	258 – 261
Allen key with cross handle	307		
ALLGAS 2000 PS 0.5 / 2 basic	158	<b>C</b>	
ALLGAS 2000 PS 0.5 / 2 basic	156	C 200 Supergas	143
ALLGAS 2000 Set	155	Cable knife	316
ALLGAS 2000 welding tips	156	Calculation examples for bending	71 – 73
ALLGAS Mobile Pro	157	Carbide-tipped cutters	226
All-purpose marker	316	Care and rust remover spray ROWONAL	219
ALUDUR	290	Carpenters pencil	316
Analogue manifolds	268	Cartridge extractor set	302
Apprentice Set	317	Cartridges brazing & soft soldering	138 – 143
Automatic Ratchet Telescopic Pipe Cutter	13	Centering pin	52



Item	Page	Item	Page
Centre punch	313	<b>D</b>	
Ceramic protection hose	218	Deburrer	27 – 29
Chain pipe cutter	13	Deburrer adaptor I / II	27
Chain pipe wrench "HEAVY DUTY"	291	Decalcifying	206 – 207
Chain pipe wrench 4" R/L	291	Decalcifying pump	206
Chain-spinning heads	225	Deflector rollers	239
Chain-spinning heads with spikes	225	Detection devices	181, 197
Chamfering and deburring tools	28	Diamond drill bits	44 – 48
Chamfering tool	29	Diamond drilling machines	33 – 35
Chassis punch	310	Diamond drilling system	37 – 43
Chisel	313	Die head adaptor	115
Circular saw ROCUT® UKS 160 / 355	244	Die head adaptor	122
Clamping device for electric socket welding	251	Die heads, threading dies (overview)	122
Cleaning lance	238	Digital manifold	267
Cleaning machines	211 – 217	Disposable gas cartridges	142 – 143
Cleaning pads	165	Double clamp short	251
Cleaning spray SANIFRESH	278	Double flaring press DB 10	94
Clutch jaws for R 550 – R 750, R 80 / 100 SP	218	Double-end box wrench set	299
Clutch jaws for R 750	218	Double-end box wrench set	299
COLLINS CLASSIC 22 / RHINO 4"	130	Drain cleaning tools	227 – 228
COLLINS CLASSIC 22 A	131	Draw-bending	70
COLLINS RHINO 4" Set	131	Drill	309 – 312
COMBI KIT Expander / tee-extractor	90	Drill and extraction paste	93
Combination pliers	306	Drill bits overview	44
Compressors for flushing	204 – 205	Drill stands RODIACUT® 170 PRO C / 170 PRO D	39
Concrete fixing sets	50	Drill stands RODIACUT® 270 PRO C / 270 PRO D	41
Conversion table pressure, temperature	281	Drill stands RODIACUT® 400 PRO D	43
Copper rings 1.1/4"	50	Drilling (Overview: hand-operated and stationary)	36
Copper tube bending springs	61	Drilling machines	33 – 35
Core drilling machines	33 – 43	Drilling system	37 – 39
Corner pipe wrench 45°	289	Drop-head auger	223
Cross-blade cutter, serrated	224	Dry and wet drill bits	46 – 48
Cut-off and grinding disc "2 in 1"	308	Dry drilling machines (hand-operated)	33
Cutter knife	316	Dry drilling systems (hand-operated and stationary)	37 – 43
Cutter wheels for ROCUT® 110, ROCUT® 160	243	Dual hoses A/S	162
Cutter wheels for tube cutter	17	DURAMANT PRO universal drill bits	48
Cutting and chamfering tool	242 – 243	DX-High Speed Plus universal drill bits	46
Cutting discs	308	<b>E</b>	
Cutting fluid, cutting oil	125	EASY FIRE	141
Cylinder pressure reducer	163	EASYGRIP	293
Cylinder transport trolley	162		

# Table of Contents

## Alphabetical

Item	Page	Item	Page
Edge cutter	306	Flux brush	168
Electric soft soldering unit	153 – 154	Foot switch	133
Electro-fusion welding unit	249 – 251	Force pump cleaner	208
Electro-hydraulic Expander pistol H1	88	Four-blade cutter	224
Electro-hydraulic Expander pistol H2	88	Freezing unit	184 – 187
ENORM 4"	16	Funnel auger	223
EUROLINE® IMPAKT screwdriver	301		
EUROLINE® screwdriver	300	<b>G</b>	
EVERCOOL	93	Galvano drill bit sets	49
Expander	76 – 93	Gas cartridges	142 – 143
EXPANDER A0	82	Gas soldering and welding torch	155 – 156
Expander adaptor type S	83	Gas test plug / adaptor	179
Expander head type S	83	GRATFIX HSS / UNIGRAT	28
Expander pistols H1 and H2	88	Grease cutter	224
Expander, electro-hydraulic	100 – 104	Grenade nozzle with traction jet	237
Expander, manual	76 – 83	Grip pliers	292 – 293
Express spanner	294	Grooved water pump pliers CL	287
Extensions	52	Guide shoe	63, 69
Extensions (drill bits)	52		
Extensions (torch)	151	<b>H</b>	
External brushes for copper pipe	165	H 600	87
Extraction rotor "RODIADUST"	52	Hammer	313
Extractor cam pincer	93	Hand Roll Groover 1 – 12"	134
Extractor support	93	Hand saws	22
		Hand wire brushes	165
<b>F</b>		Hand-held welding mirror	164
Feed unit	43	Hard solder paste	168
Fitters hammer	313	Hard solder powder HKM	168
Fitting key	292	Hard solder rings S 2	168
Fittings soft solder flux	167	Hard solders	169 – 171
Fittings soft solders to DIN EN	167	HD 11 / 90	231
Fittings solders	167	HD 13 / 100	231
Fittings wrench 90°	292	HD 17 / 190	232
Flame reflectors	165	HD 19 / 180 B	232
Flange adaptor clamping unit	253	Heating plate	253, 257
Flanged riveted expander heads	83	Heating spigots / heating sockets	245, 247
Flaring and bending set	96	HEAVY DUTY	290
Flaring press	94	Hemp dispenser	316
Flaring tools	95 – 96	High Speed Plus natural stone drill bits	45
Flat center bit	309	High-performance die heads	132
Flat nozzle	238	High-performance pipe cleaner	216
Flexible pipe welding attachments	156	High-pressure car installations	233, 236
Flushing compressors	204 – 205	High-pressure cleaning lance	238
Flux	167	High-pressure drain cleaner	231

Item	Page	Item	Page
High-pressure drain cleaning	233 – 236	<b>M</b>	
High-pressure drain cleaning systems	230 – 239	Magnet welding mirror	164
High-pressure hose	239	Manifolds	267 – 268
HM-cutter blade inserts	243	Manifolds sets	276
HM-stone drill	309	Manual and electrical drain cleaning unit	209
Hole saws	311 – 312	Manual drain cleaner type 3 S	210
Hose reel, mobile	239	Manual trimmer unit	253
Hoses	162	MAPP® Gas	142
Hot gas welding	248	Masonry fixing sets	50
House connection test set	180	Maxigas 400	143
HSS bimetal hole saws	311	Measuring tape	304
HSS sheet metal cone bit	311	Metal saw frame	22
HSS special conical drill	93	MINI MAX	12
HSS stepped drill bit	310	MINIBEND	60
HSSE 4 Plus hand saw blade	22	MINICUT 2000	12
Hydraulic expander system H 600	87	MINICUT I PRO / II PRO	12
<b>I</b>		Module 20 / 3	193
Igniters	163	Module 25 / 22	193
INOX PROFI PLUS	308	Module 25 / 16	193
INOX SUPER 1.1/4" und 2"	16	Module Micro 5.5 / 1	193
INOX TUBE CUTTER	15	Module TEC	193
INOX TUBE CUTTER 30 PRO	14	Monoblock aluminium cylinder	142
INOX TUBE CUTTER 35 / 42 PRO	15	MSR internal bending springs	61
Inspection cameras	190 – 200	MULTI 300 propane soft soldering kit	150
Installation tools	284 – 317	MULTI MOBILE Set	149
Installation wrenches	294 – 299	MULTIBEND	59
Insulation stripper	306	Multigas 300	143
Interchangeable press jaws compact	105	MULTIVIEW	193
Internal bending springs	61	<b>N</b>	
Internal brushes for copper pipe	165	Neutralizer powder	207
<b>J</b>		NIPPEL MAX	133
Jacket pipe cutter	20	Nipple chuck	133
<b>L</b>		Nitrogen set	270
Leak detection device	271	Nozzle cleaner	164
Leak detection on gas	181	Nozzle sets for ROJET	238
Leak detection spray	181	Nozzles and accessories for Quick S and WG 1600E	248
Lightweight steel cylinder	152	Nozzles high-pressure pipe cleaning	237 – 238
Lock ring	221	<b>O</b>	
Long nose pliers, angled	306	OFFSET PATTERN HEAVY DUTY	291
Long nose pliers, straight	306	One handed bending	56 – 58
Lump hammer	313	One handed corner pipe wrench 90°	291
		One handed pipe wrench	290 – 291

# Table of Contents

## Alphabetical

Item	Page	Item	Page
One handed pipe wrench "ALUDUR"	290	Plastic pipe shears	18 – 19
One handed pipe wrench "HEAVY DUTY"	290	Plastic pipe welding machine	252 – 257
One handed pipe wrench		PLASTICUT PVC	21
"OFFSet PATTERN HEAVY DUTY"	291	Plate fin comb	279
One handed pipe wrench "STILLSON"	290	Pliers	284 – 293
One handed type R	299	Portable machines	212 – 215
Open-ended / hinged ratchet wrench	297	PORTACUT 185 BSR / BSP	23
Open-ended wrench set	299	Power bender	68-70
Orbital circular saw	244	Power edge cutter	306
Oxy-acetylene hoses	162	POWER FIRE Compact	140
Oxygen hoses	162	Power threader	118 – 121
Oxygen refilling bend	163	Pozidriv screwdriver	300
		Precision die heads	122, 128, 132
		Precision threading dies	122, 128, 132
		Press jaws	105 – 113
		Press jaws compact	105
		Press jaws standard	106
		Press jaws standard sets	107
		Press machines	100 – 104
		Pressing collars standard	106
		Pressure hose	269
		PRISMACUT	44
		Professional Plier sets	288
		PROFI PLUS	309
		Propane gas cartridges	143
		Propane handles	152
		Propane high-performance torches	146 – 147
		Propane hose failure protection	152
		Propane hoses	152
		Propane lightweight steel cylinder	152
		Propane regulators	152
		Propane soft soldering kit	150
		Propane surface-heating torch	151
		Propane torches	146 – 147
		Protective guard for pressure reducer	163
		Protective rubber cap	163
		Pull-bending	72
		<b>Q</b>	
		Quad clamps	251
		Quattro 3-sided nozzle	237
		Quick clamping column	49
		Quick Freeze freezing spray	187
<b>P</b>			
Pads	165		
Parallel vice	314		
Peeling device for electric socket welding	251		
Phillips screwdriver	300		
Pin punch set, 6 pieces	313		
Pipe and sonde locating device	197		
Pipe clamp for SUPERTRONIC®	118 – 121		
Pipe cleaner	208		
Pipe cleaning augers and heads	222 – 226		
Pipe cleaning manual	208 – 210		
Pipe cleaning nozzles	237 – 238		
Pipe cleaning spirals	220 – 221		
Pipe cleaning units and machines	208 – 215		
Pipe cutter	244		
Pipe cutter	23		
Pipe freezing unit	184 – 187		
Pipe inspection cameras	190 – 201		
Pipe roughing wrench 3/8 – 2"	133		
Pipe saw	24		
Pipe saw blades	26		
Pipe supporting column	133		
Pipe vice	314		
Pipe vice	314		
Pipe welding grip pliers	293		
Pipe wrench 90°	289		
Pipe wrench sets	288		
Plastic pipe chamfering unit	28		
Plastic pipe chamfering unit	28		
Plastic pipe cutter	18 – 21		

# Table of Contents

## Alphabetical

Item	Page	Item	Page
<b>R</b>			
R 100 SP	217	ROBEND® H+W PLUS	62
R 140 B	217	ROBEND® H+W PLUS bender	63
R 550	214	ROBEND® H+W PLUS bending sets	63
R 600	214	ROBIT	300
R 650	215	ROBO Mini	22
R 750	215	ROBO Super	22
R 80	217	ROBOLT ROBOLT bolt cutter	305
Ratchet Arm SUPER CUT	117	ROBOY® clamping workbench	314
Ratchet pipe deburrer	28	ROBULL Typ E / ROBULL MSR Typ E	64
Ratchet pipe deburrer 1/4 – 2"	28	ROBULL Typ E / ROBULL MSR Typ E bending segments	65
Ratchet telescopic pipe cutter	13, 15, 20	ROBULL Typ ME / ROBULL MSR Typ ME	66
Ratchet threader	114	ROBULL Typ ME / ROBULL MSR Typ ME bending segments	67
Ratchet wrench	297	ROCADDY 120 / ROCADDY 120 Digital	266
RE 17 Cutting tips and heating nozzle	161	ROCAL 20 / ROMATIC 20	206
RE 17 Pipe welding attachment, flexible	161	ROCAL Acid Multi / Plus	207
RE 17 Three-gas system	160	ROCAM® 3 Multimedia	198 – 199
RE 17 UNIVERSAL pipe welding set	161	ROCAM® accessories	201
RE 17 Welding attachments	161	ROCAM® camera heads	199
RE 17 Wing-lever cutting attachment	161	ROCAM® EXPANDER Power Torque	76
Reducer clamping inserts for ROWELD®	253, 257	ROCAM® EXPANDER Power Torque sets	77
Reducing / extension pieces for spirals	229	ROCAM® MINI MODULE 1.4	200
Reduction inserts ROFROST®	186	ROCAM® PE-X EXPANDER Power Torque	77
Reeling flaring tool	96	ROCAM® Plus	200 – 201
Refilling adaptor	152	ROCAM® rolling skids	201
Refrigerant for air-conditioning units	276	ROCAM® systems	191, 198 – 200
Refrigerant recovery device	274 – 275	ROCHECK	302
Refrigerant recycling bottles	276	ROCLEAN	205
Refrigerant scale, electronic	277	ROCLICK combined wrench	297
Refrigeration & air-conditioning technology	264 – 281	ROCLICK spanner	298
Refrigeration & air-conditioning technology complete solutions	264 – 266	ROCOLT HANDY PIEZO	144 – 145
Refrigeration & air-conditioning tool sets	277, 286 – 287	ROCOOL 600	267
Replacement flints	163	ROCUT®	18
Reseating tool	303	ROCUT® 110 / ROCUT® 160	242 – 243
Retrieving auger	223	ROCUT® TC 26 / TC 32 PS 26 / PS 42 S / PS 35 S	19
Ring ratchet express spanner	294	ROCUT® TC 50 / TC 75 Professional	19
Ring spanner	298	ROCUT® TC 63 Professional	19
Riveted expander heads H2	88	ROCUT® UKS 160 / 355	244
ROAIRVAC	272 – 273	ROCUT® XL	244
ROBEND® 3000	68	RODIA CLEANER 1400	53
ROBEND® 3000 bending formers	70	RODIA DRY CLEANER 1200	53
ROBEND® 3000 sets	69	RODIACUT® 130 PRO	37
		RODIACUT® 170 PRO C / 170 PRO D	38 – 39
		RODIACUT® 270 PRO C / 270 PRO D	40 – 41

# Table of Contents

## Alphabetical

Item	Page	Item	Page
RODIACUT® 400 PRO D	40 – 43	ROLOCK EXPANDER power torque	78
RODIACUT® modular system	36	ROLOCK EXPANDER power torque sets	79
RODIADRILL 1800 DRY	33	ROLOT® hard solders	169 – 171
RODIADRILL Ceramic / Ceramic ECO	34 – 35	ROLUB anti-block special guide shoe	63
RODIADUST	52	ROMATIC	304
RODIA-VAC	49	ROMATIC 20	206
RODOKIT set	303	ROMAX® 3000	102 – 103
ROFIRE®	140 – 141	ROMAX® AC ECO	104
ROFIRE® PIEZO	141	ROMAX® Compact	100
ROFIX adaptor	122	ROMAX® Compact set basic I	101
ROFIX SANI set profi	296	ROMAX® EXPANDER AC ECO MAXI	84
ROFLAME PIEZO 1.800 °C	140	ROMAX® Expander Compact	85
ROFLARE REVOLVER	95	ROMAX® Expander Compact basic sets	86
ROFLASH	159	ROMAX® press machines	100 – 104
ROFLASH Handle	159	RONOL®	123
ROFLASH spring-lever cutting attachment	159	RONOL® SYN	123
ROFLASH welding attachments / welding tips	159	ROOFING set	151
ROFROST® dry ice set	187	ROPOWER® 50 R	124 – 125
ROFROST® freezer heads	187	ROPOWER® HANDY	210
ROFROST® Handy	187	ROPOWER® PROFILE Cable	221
ROFROST® heat conductive paste	186	ROPULS flushing compressor	204
ROFROST® TURBO 1.1/4"	184	ROPULS ROCLEAN	205
ROFROST® TURBO 2"	185	ROPULS ROCLEAN (cleaning and preservation)	205
ROFROST® TURBO reduction inserts	186	ROPUMP®	208
ROGRAT-MSR deburrer and chamfering tool	29	ROPUMP® SUPER PLUS	208
ROGRAT-MSR system – manual chamfering attachments	29	RO-QUICK	296
ROGRIP F	284	ROREC	274
ROGRIP M	284	ROREC PRO	275
ROGRIP S	285	ROSCALE 120	277
ROGRIP XL	285	ROSCOPE® i2000	192, 194 – 197
ROGROOVER 1 – 6"	134	ROSCOPE® i2000 Module 25/16	196
ROGROOVER 2 – 12"	135	ROSCOPE® i2000 Module 25/22	195
ROJET® 130/160	234	ROSCOPE® i2000 Module TEC	195
ROJET® 30/130	233	ROSCOPE® system	192, 194 – 197
ROJET® 40/100	234	ROSLICE®	14
ROJET® 50/120 – 60/140 – 85/160 – 100/160 – 100/200		ROSOL soldering paste 1S und 3	167
Basic und Comfort	235	ROSOLAR PUMP / ROSOLAR PUMP PLUS	207
ROJET® optional equipment	236	ROSPEED 3F	216
ROKLIMA® MULTI 4F	264 – 265	ROSPI® H+E PLUS	209
RO-LEAK	271	ROSPI® R 36 Plus	210
Rolling groover	134 – 135	ROSPIMATIC	211
Rolling skids	201	ROSPIMATIC, adaptor magazine	229
ROLOC PLUS	193, 197	Rotary vane pump	273
ROLOCK expander heads	81	Rotating nozzle	237

Item	Page	Item	Page
ROTEST®	181	ROWELD® Quick S / WG 1600 E	248
ROTEST® Electronic 3	181	ROWELD® ROFUSE	250
ROTEST® GW 150 / 4	178	ROWELD® ROFUSE Sani 160	249
ROTEST® GW 150 / 4 set components	179	ROWONAL care and rust remover	219
ROTEST® GW DIGITAL V2.3 USB	180	ROXY 400 L	158
ROTEST® GW DIGITAL V2.3 USB set components	181	RP 30	177
ROTEST® leak detection spray	181	RP 50-S / RP 50-S INOX	175
ROTHERM 2000	153	RP PRO III	176
ROTHERM 2000 soft soldering set	154	Ruler	304
ROTIGER VARIO Electronic	24		
Rotor trench nozzle	238	<b>S</b>	
ROTORQUE AIRCON / REFRIGERATION	97	SAFE CUT	308
ROTRAC 28 / 42	11	Safety foot switch	133
ROTURN Ring / open-ended spanner	297	Safety igniters	163
Rounded clamps	251	Safety propane handles	152
ROVLIES® cleaning pads	165	Safety saw frame	22
ROWELD® HE heating plates	245	Safety T-couplings	229
ROWELD® manual welding extruder with integrated air supply	261	Salmiakstone	164
ROWELD® P 110	252	SANI KIT	116 – 117
ROWELD® P 110 basic machine	253	SANIFRESH	278
ROWELD® P 1200 B Professional	258	SANIGRIP / SANIGRIP PL	292
ROWELD® P 125	245	Sanitary four way key	295
ROWELD® P 125 set (form A)	245	Saw blades	26
ROWELD® P 160 B Professional	258	Saws	22 – 26
ROWELD® P 160 SANILINE	254	Schrader valve tool	279
ROWELD® P 160 SANILINE basic machine	255	Screw extractors	307
ROWELD® P 250 A	256	Screwdriver set	300
ROWELD® P 250 B Professional / Premium / Premium CNC SA / VA	258 – 259	Screwdrivers	300 – 301
ROWELD® P 315 W / P 315 W CNC	258 – 259	SDS-plus hammer drill	50
ROWELD® P 500 B Professional / Premium / Premium CNC SA	258 – 259	Sealing grip pliers	293
ROWELD® P 63 S-6 Sword	246 – 247	Separating pin	219
ROWELD® P 630 B Professional / Premium / Premium CNC SA	258 – 259	Serrated forked cutter	226
ROWELD® P 630 W	260	Service case	317
ROWELD® P 800 B Professional	258	Sewer cleaning machines	217
ROWELD® P200 B Professional	258	Sheet metal cone bit	311
ROWELD® P355 B Professional / Premium / Premium CNC SA	258 – 259	Sheet metal crimping pliers	305
ROWELD® Premium	259	Silver hard solders	171
ROWELD® Premium CNC	259	Slot screwdriver	300
ROWELD® Professional	258	Small saw frame	22
		SMK-spirals	221
		Soapstone marker	164
		Socket welding unit	245 – 247
		Soft solder flux	167
		Soft soldering	155 – 161

# Table of Contents

## Alphabetical

Item	Page	Item	Page
Soft soldering iron	150	Suction injector	239
Soft soldering unit	138 – 143, 150 – 152	SUPER 1.1/4" und 2"	16
Soft solders and accessories	167	SUPER CUT	114
Solar filling pump	207	SUPER CUT ratchet arm	117
Soldering flux and container for hydrochloric acid	164	SUPER CUT sets	115
Soldering paste	167	SUPER FIRE 3	138 – 139
Soldering paste ROSOL	167	SUPER S corner pipe wrench	289
Solders	167 – 171	SUPERTRONIC® 1250	118 – 119
Space Welding	44	SUPERTRONIC® 2 SE / 3 SE / 4 SE	126 – 127
Spade head cutter	224	SUPERTRONIC® 2000	120 – 121
Spare extractor hooks	92	Support plates for centering pin	52
Spare extractor hooks	92	Surface-heating torch	151
Spare stainless steel blade	19	Surface-heating torch heads	151
Special diamond drills for tiles and natural stone	50	System overview diamond core drilling machines	32
Special pipe saw blades	26	System overview die heads and threading dies	128
Special pipe saw blades	26	System overview die heads and threading dies	128
Special saw blades	26	System overview drill bits	44
SPEED STAR DX	47	System overview hydraulic systems	258
Spiral baskets	219	System overview pipe cleaning augers	222
Spiral guide gloves	219	System overview pipe cleaning machines	213
Spiral guide hoses	218	System overview press jaws	107 – 113
Spiral retrieving device	219	System overview pressing technology	98 – 99
Spiral sawtooth cutter	224	System overview soldering and welding	136 – 137
Spirals & tool sets	227 – 228	System overview video inspection	190 – 191
Spirals for ROSPI® H+E PLUS, ROSPI® R 36 PLUS	229		
Spirit level	302, 304	<b>T</b>	
Spirit level for angled valves	302	Tap reseating tool	303
Spirit level for standard distances	302	T-couplings	229
Squeezing device	251	Tee-extractor	92
S-SMK-spirals	221	Tee-extractor ratchet	93
S-spirals	221	Tee-extractor sets	91
Stainless steel pipe cutter	16	Teflon sealing tape	316
Standard bender	59	Telescopic basin nut wrench	305
Standard bender 180°	60	Telescopic pipe cutter	13
Standard expander head	80	Telescopic pipe cutter	21
Standard gas-welding equipment	155 – 158	Telescopic workbench	315
Standard spirals	221	Telescoping Guide Tubes	219
Steel pipe cutter	16	Testing and detection units	178 – 179, 182
STEP-EXPANDER A1	84	Testing balloon	180
Stepped key set	294	Testing pump	175 – 177
STILLSON	290	Thread interfaces	51
Straight auger	223	Threaders	114
Strap and fittings wrench	293	Threading machines	124 – 127, 130 – 132
Strap and fittings wrench	293	Three-gas system	160



Item	Page	Item	Page
Tiger saws	24 – 26	Universal electronic saw	25
Tool bags	316	Universal flaring tool	96
Tool carrying case	117	Universal grip wrench	305
Tool set climate	269	Universal HSS bimetal / HM TIGER SAW BLADES	26
Torch spanner	164	Universal internal & external deburrer	27
Torque wrench	97	Universal ROTIGER VARIO Electronic	25
Torque wrench set	97, 278, 297	Universal workbench	315
Torque wrench set	97, 278, 297		
Tower pincers / concreter's nippers	305	<b>V</b>	
Tower pincers / concreter's nippers	305	Vacuum pump	49
TP 25	177	Vacuum pump ROAIRVAC	272 – 273
Transport frame	125 – 127	Vacuum pump RODIA-VAC	49
TRENNBOY 300	23	Vacuum sets	49
Tripod stand	218	Valve plier PL	292
Tripod uni workbench	315	VDE Screwdriver Set	301
TUBE BENDER	56	Vices	314
TUBE BENDER bending segments	56	Video inspection system overview	190 – 191
TUBE BENDER MAXI	57		
TUBE BENDER MAXI bending segments	57	<b>W</b>	
TUBE BENDER MAXI MSR bending segments	58	Water extraction systems	52
TUBE BENDER MAXI MSR-set	58	Water pump pliers	284 – 289
Tube cutter	10 – 17	Water pump pliers Typ SP	286
TUBE CUTTER 30 PRO / 50	13	Water pump pliers Typ SPK	287
TUBE CUTTER 35 / 42 PRO	10	Water suction unit	53
TUBE CUTTER 35 DURAMAG®	11	Water suction unit	53
TUBE CUTTER 35 MSR, 42 PRO MSR, 42 PRO PVC	21	Water supply	51
TUBE CUTTER 67 / 125 / 168 PL Automatic	20	Water supply	51
Tube cutter for copper & steel	12 – 14	WC-BLITZ RO-3 toilet auger	210
Tube cutter for MSR	21	Welding blanket	165
Tube cutter for plastic	20 – 21	Welding goggles	164
Tube cutter for stainless steel (INOX) & steel	14	Welding mirror	164
TURBOPROP	147	Wet and dry drill bits	46 – 48
Twist drill set	309	Wet and dry extraction unit	53
Two-way root cutter	226	Wet cutting drill bits	45
		Wet drilling machines	34 – 35
<b>U</b>		Wet drilling systems	37 – 43
UNI small saw "PUK"	22	Wire brushes	165
UNI small saw PUK	22	Workbench	315
UNI stepped key set	294	Working Unit 1/8 – 2"	315
UNICUT HM	312	Workshop plastic pipe welding machine	
UNIDRILL Automatic 28 / 42	93	and accessories	252 – 257
UNIDRILL HSS sheet metal cone bit	311	Workshop screwdriver sets	300
UNIDRILL HSS stepped drill bit	310		
UNIGRAT	28		

# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
<b>0</b>		015220X	107, 109 – 113	015329X	108 – 113	015582X	108 – 113	070089D	16, 17
011180X	90	015222X	107	015330X	107, 109 – 113	015583X	108 – 113	070110X	289
011186X	90	015223X	107			021832X	310	070111X	289
011194X	90	015224X	107	015331X	107, 109 – 113	023020X	57	070112X	289
014800X	105	015225X	107	015333X	107, 109 – 113	023021X	57	070121X	289
015016L	86	015226X	107	015334X	107, 109 – 113	023022X	57	070122X	289
015020R	101	015227X	107			023090X	57	070123X	289
015060X	107	015230X	108 – 113	015335X	107, 109 – 113	023091X	57	070124X	289
015062X	107	015231X	108 – 113			025700X	69	070130X	288
015063X	107	015232X	108 – 113	015336X	107, 109 – 113	025703X	69	070131X	289
015068X	107	015233X	108 – 113	015337X	107, 109 – 113	025705X	69	070132X	289
015072X	107	015234X	108 – 113	015338X	107, 109 – 113	025709X	69	070133X	289
015080X	107	015235X	108	015339X	107, 109 – 113	025710X	69	070134X	289
015081X	107	015236X	108			025711X	69	070135X	288
015101X	107, 109 – 113	015237X	108	015351X	108 – 113	025740X	69	070140X	288
015102X	107, 109 – 113	015238X	108	015352X	108 – 113	025750X	69	070188D	17, 21
015103X	107, 109 – 113	015251X	108	015353X	108 – 113	030955X	151	070522D	287
015104X	107, 109 – 113	015252X	108	015355X	108 – 113	035510-A/B	143	070528D	286
015105X	107, 109 – 113	015253X	108	015357X	108 – 113	035546-A/B/-C	143	070690X	315
015106X	107, 109 – 113	015254X	108	015358X	108 – 113	035551-A	142	070699X	315
015107X	107, 109 – 113	015255X	108	015362X	108 – 113	035551-B	142	070705X	314
015108X	107, 109 – 113	015256X	108	015364X	108 – 113	035551-C	142	070735X	314
015151X	107, 109 – 113	015260X	107, 109 – 113	015366X	108 – 113	035570-A/B	143	070780X	115
015152X	107, 109 – 113	015261X	107, 109 – 113	015367X	108 – 113	035648X	139	070781X	115
015153X	107	015262X	107, 109 – 113	015368X	108 – 113	035780X	158	070790X	115
015154X	107, 109 – 113	015263X	107, 109 – 113	015370X	107, 109 – 113	035900-A/B	143	070821X	122
015155X	107, 109 – 113	015264X	107, 109 – 113	015371X	107, 109 – 113	040094A	169	070822X	122
015161X	108 – 113	015265X	107, 109 – 113	015374X	107, 109 – 113	040097X	169	070823X	122
015162X	108 – 113	015269X	107, 109 – 113	015376X	107, 109 – 113	045268D	165	070824X	122
015163X	108 – 113	015271X	108 – 113	015377X	107, 109 – 113	053886X	247	070825X	122
015164X	108 – 113	015277X	108 – 113	015378X	107, 109 – 113	053887X	247	070826X	122
015180X	108 – 113	015280X	108 – 113	015379X	107, 109 – 113	053889X	247	070831X	122
015181X	108 – 113	015281X	108 – 113	015380X	107, 109 – 113	053890X	247	070832X	122
015182X	108 – 113	015282X	108 – 113	015385X	108 – 113	053891X	247	070833X	122
015183X	108 – 113	015283X	108 – 113	015389X	108 – 113	053892X	247	070834X	122
015211X	107, 109 – 113	015284X	108 – 113	015391X	108 – 113	053893X	247	070835X	122
015212X	107, 109 – 113	015292X	108	015393H	108 – 113	053894X	247	070836X	122
015213X	107, 109 – 113	015293X	108	015393X	108 – 113	053896X	247	070840X	117
015214X	107, 109 – 113	015294X	108	015394X	108	053897X	247	070842X	122
015215X	107, 109 – 113	015302X	108 – 113	015395X	108 – 113	055053D	17, 243	070843X	122
015216X	107, 109 – 113	015304X	108 – 113	015396X	108	055054D	17, 243	070849X	122
015217X	107, 109 – 113	015306X	108 – 113	015397X	108	055074D	17, 243	070850X	122
015218X	107, 109 – 113	015307X	108 – 113	015398X	108 – 113	056370X	129	070869X	122
015219X	107	015308X	108 – 113	015399X	108 – 113	056371X	125, 129	070870X	122
		015311X	108 – 113	015401X	108 – 113			070891X	115
		015312X	108 – 113	015530X	108 – 113	057950X	64	070892X	115
		015313X	108 – 113	015531X	108 – 113	057961X	64	070907X	122
		015314X	109 – 113	015532X	108 – 113	057966X	64	070908X	122
		015315X	108 – 113	015533X	108 – 113	057969X	66	070912X	122
		015317X	108 – 113	015534X	108 – 113	057972X	66	070913X	122
		015318X	108 – 113	015580X	108 – 113	057973X	66	070914X	122
		015321X	108 – 113	015581X	108 – 113	070007D	11, 17	070915X	122
		015322X	108 – 113			070017D	12, 13, 17, 288	070916X	122
		015323X	108 – 113					070917X	122
		015325X	108 – 113			070027(C)	17	070918X	122
		015327X	108 – 113			070027C	11	070919X	122
		015328X	108 – 113			070027DB	11	070920X	122
						070028D	17, 21	070921X	122
						070031D	20	070945X	122
						070046D	16, 17	070946X	122
						070051D	16, 17	071533D	308
						070056D	14, 15, 17	071534D	308
						070057D	13, 17	071551D	308
						070061D	16, 17	071552D	308
						070088D	16, 17	071553D	308

# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
071554D	308	11376	83	12458	81	14832	108 – 113	15850	103
072070X	208	11380	83	12459	81	14833	108 – 113	15855	103
072185F	225	11400	82	12462	81	14834	108 – 113	19077	216
072945X	228	11955	83	12463	81	14836	108 – 113	19166	317
072955X	228	11958	83	12500	79	14837	108 – 113	19320	49
072956X	228	11962	83	12503	79	14838	108 – 113		
072962X	228	11968	83	12505	79	14842	108 – 113		
072967X	228	11975	89	12509	79	14843	108 – 113	21300	312
088840D	14	11978	83	12511	79	14844	108 – 113	21305	310
088841D	14	12000	76	12517	79	14845	108 – 113	21306	310
088842D	14	12001	88	12518	79	14846	108 – 113	21307	310
		12002	88	12521	79	14847	108 – 113	21313	310
		12005	77	12522	79	14848	108 – 113	21316	312
<b>1</b>		12013	87	12524	79	14849	105	21317	312
11004	82	12017	88	12526	79	14852	108	21318	312
11006	27	12018	88	12535	79	14853	108	21319	312
11007	83, 88, 89	12078	88	12536	79	14854	108	21320	312
11008	80	12080	88	12537	79	14855	108	21321	312
11010	80	12097	88, 89	12538	79	14863	107, 109 – 113	21322	312
11012	80	12300	77	12541	79	14864	107, 109 – 113	21323	312
11014	80	12302	77	12601	90	14865	107, 109 – 113	21324	312
11015	80	12303	77	12602	90	14866	107, 109 – 113	21325	312
11016	80	12304	77	12604	90	14867	107, 109 – 113	21326	312
11018	80	12305	77	12605	90	14868	107, 109 – 113	21327	312
11020	80	12309	77	13002	87	14869	105	21328	312
11022	80	12310	77	13100	87	14879	105	21329	312
11028	80	12311	77	14000	29	14882	108 – 113	21330	312
11032	80	12317	77	14005	29	14883	108 – 113	21331	312
11035	80	12318	77	14102	29	14884	108 – 113	21332	312
11038	80	12320	77	14104	29	14885	108 – 113	21333	312
11040	80	12321	77	14106	29	14886	108 – 113	21334	312
11042	80	12322	77	14107	29	14895	105	21341	312
11044	27	12323	77	14111	29	15016	86, 101	21342	312
11045	27	12324	77	14112	29	15017	86, 101	21343	312
11052	80	12326	77	14113	29	15020	101	21344	312
11053	80	12327	77	14114	29	15022	101	21345	312
11054	80	12328	77	14115	29	15023	101	21346	312
11055	80	12335	77	14117	29	15024	101	21347	312
11056	80	12336	77	14121	29	15032	101	21348	312
11057	80	12337	77	14122	29	15033	101	21349	312
11058	80	12338	77	14123	29	15037	86, 101	21350	312
11059	80	12339	77	14124	29	15093	105	21351	312
11062	80	12341	77	14126	29	15094	105	21352	312
11063	80	12400	78	14132	29	15418	86, 101	21353	312
11078	84	12408	81	14133	29	15705	104	21354	312
11086	84	12410	81	14134	29	15714	86	21355	312
11087	84	12412	81	14136	29	15715	86	21360	312
11089	84	12414	81	14137	29	15716	86	21365	312
11093	84	12415	81	14230	29	15730	104	21370	312
11323	83	12416	81	14250	29	15740	104	21375	312
11325	83	12418	81	14260	29	15750	104	21380	312
11328	83	12420	81	14270	29	15760	104	21385	312
11332	83	12422	81	14707	107	15800	103	21386	312
11334	83	12428	81		109 – 113	15810	103	21387	312
11335	83	12432	81	14708	107, 109 – 113	15811	103	21388	312
11336	83	12435	81		109 – 113	15812	103	21389	312
11338	83	12438	81	14709	107, 109 – 113	15816	103	21390	312
11340	83	12440	81		109 – 113	15840	103	21391	312
11342	83	12442	81	14820	101	15845	103	21392	312
11345	83	12452	81	14822	108 – 113				
11346	83	12453	81	14823	108 – 113				
11348	83	12454	81	14824	108 – 113				
11358	83	12455	81	14825	108 – 113				
11362	83	12456	81	14826	108 – 113				
11364	83	12457	81	14830	101				

## 2



# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
21394	312	22170	93	24501	63	25615	70	31094	147
21395	312	22172	93	24502	63	25616	70	31989	152
21500	20	22210	92	24503	63	25618	70	32045	151
21505	20	22212	92	24504	63	25619	70	32051	151
21541	311	22214	92	24505	63	25620	70	32063	151
21542	311	22215	92	24508	63	25622	70	32075	150
21543	311	22216	92	24510	63	25625	70	32077	150, 163
21545	311	22218	92	24512	63	25626	70	32081	152, 163
21549	93, 311	22222	92	24514	63	25628	70	32088	150
21575	93	22228	92	24515	63	25652	70	32098	150
21583	93	22235	92	24516	63	25684	70	32099	150
21651	28	22242	92	24518	63	25685	70	32201	152
21652	13, 15, 17 28, 242	22246	92	24519	63	25743	69	32207	152
21653	28	22254	92	24522	63	25745	69	32223	152
21654	28	22260	92	24551	63	25748	69	33079	152
21655	28	22261	92	24552	63	25760	69	33310	152
21660	28	22263	92	25075	63	25810	313	33311	162
21801	310	22264	92	25076	63	25811	313	33312	162
21828	310	22265	92	25078	63	26001	94	33314	162
21834	310	22266	92	25120	61, 63	26002	94	33315	162
21835	310	22267	92	25130	60	26003	94	35011	140
21836	310	22268	92	25131	60	26004	94	35012	140
21838	310	22270	92	25132	60	26005	94	35013	140
21902	310	23002	57	25133	60	26010	94	35014	140
21903	310	23003	57, 58	25134	60	26011	94	35015	140
21904	310	23004	57	25135	60	26013	94	35016	140
22010	92	23005	57, 58	25136	60	26015	94	35022	148
22012	92	23006	57	25137	60	26016	94	35023	148
22014	92	23007	57	25140	60	26017	94	35024	148
22015	92	23008	57	25142	60	26020	96	35110	148
22016	92	23009	58	25150	60	26160	295	35140	163
22018	92	23010	57	25151	60	26161	295	35146	163
22022	92	23011	57	25181	61	26162	295	35178	162
22028	92	23012	57	25182	61	26163	295	35179	162
22032	92	23013	57	25183	61	26164	295	35188	162
22035	92	23014	57	25185	61	27180	294	35189	162
22038	92	23015	57	25186	61	27181	93	35199	163
22042	92	23047	57	25187	61	<b>3</b>		35203	162
22050	92	23050	58	25188	61	30101	148, 152	35210	162
22054	92	23051	58	25190	61	30102	148, 152	35221	162
22060	92	23052	58	25308	63	30103	148	35222	162
22061	92	23053	58	25310	63	30813	140	35223	162
22062	92	23065	58	25312	63	30913	146	35230	162
22063	92	23076	58	25313	63	30914	146	35300	155
22064	92	23080	58	25314	63	30914	146	35303	155
22065	92	23083	58	25315	63	30915	146	35304	155
22066	92	23095	58	25316	63	30916	146	35305	155, 156
22068	92	23097	57	25318	63	30922	146	35306	155, 156
22080	93	24001	56	25319	63	30925	152	35307	155, 156
22081	93	24002	56	25320	63	30927	152	35308	155, 156
22100	91	24003	56	25322	63	30954	151	35309	155, 156
22101	91	24004	56	25401	59	30957	151	35311	155, 156
22102	91	24005	56	25402	59	31031	147	35312	155, 156
22103	91	24006	56	25403	59	31032	147	35313	155, 156
22109	91	24007	56	25404	59	31035	147	35314	155, 156
22111	91	24008	56	25405	59	31036	147	35315	155, 156
22121	91	24008	56	25406	59	31037	147	35324	161
22124	91	24010	56	25441	61	31042	165	35325	161
22126	91	24025	56	25442	61	31043	165	35326	161
22127	91	24048	56	25443	61	31050	165	35327	161
22135	91	24049	56	25444	61	31081	152	35328	161
22153	93	24131	56	25445	61	31090	147	35329	161
22157	93	24132	56	25446	61	31091	146	35334	161
22158	93	24133	56	25612	70	31092	146	35338	161
		24134	56	25614	70	31093	148	35339	161
		24500	63						

# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
35341	161	40094	169	53252	251	55019	243	55589	245	
35342	162	40095	169	53253	251	55020	243	55590	245	
35344	161	40102	169	53254	251	55021	243	55591	245	
35345	161	40202	170	53255	251	55022	243	55592	245	
35347	161	40212	170	53256	251	55023	243	55593	245	
35348	161	40213	170	53257	251	55024	243	55594	245	
35354	162	40500	168	53258	251	55025	243	55595	245	
35378	145	40502	170	53259	251	55026	243	55596	245	
35390	145	40512	168	53260	251	55027	243	55597	245	
35395	145	40514	168	53261	251	55029	243	55598	245	
35397	145	40515	168	53262	251	55030	243	55684	255	
35398	145	40516	168	53263	251	55031	243	55685	255	
35399	145	40518	168	53272	251	55032	243	55686	255	
35400	160	40522	168	53273	251	55033	243	55717	257	
35401	160	40528	168	53274	251	55035	242	55718	257	
35403	160	44910	171	53275	251	55037	242	55719	257	
35419	140	44911	171	53276	251	55047	243	55721	257	
35424	140	44912	171	53277	251	55048	243	55738	256	
35428	141	44915	171	53278	251	55050	28	55742	257	
35429	141	44916	171	53279	251	55051	28	55743	257	
35432	139	44917	171	53280	251	55058	28	55744	257	
35436	139	45050	171	53281	251	55062	243	55745	257	
35475	161	45052	171	53282	251	55063	242	55746	257	
35476	161	45055	171	53283	251	55075	293	55747	257	
35477	161	45056	171	53284	251	55076	293	55748	257	
35479	161	45057	171	53285	251	55119	253	55749	257	
35480	161	45220	167	53380	248	55120	253	55750	257	
35486	150	45225	167	53511	247	55121	253	55751	257	
35487	150	45250	167	53512	247	55122	253	55752	257	
35488	150	45252	167	53513	247	55123	253	55753	257	
35489	150	45255	167	53514	247	55124	253	55759	257	
35490	139	45257	167	53515	247	55125	253	55760	248	
35506	141	45266	167	53516	247	55126	253	55768	256	
35530	150	45268	165	54000	254	55127	253	55769	248	
35552	141	<b>5</b>		54001	254	55128	253	55772	248	
35553	141			54004	254	55129	253	55773	248	
35556	141	50260	26	54005	255	55130	253	55774	248	
35580	158	50261	26	54006	255	55131	253	55775	248	
35585	158	50263	26	54015	255	55132	253	55776	248	
35611	168	50264	26	54020	255, 257	55133	253	55777	248	
35629	156	50265	26	54040	255	55134	253	55778	248	
35634	163	50266	26	54054	250	55152	253	55779	248	
35635	162	50301	25	54080	255	55163	257	55780	248	
35636	152	50302	25	54082	255	55199	253	55782	248	
35651	158	50305	24	54083	255	55316	245, 255	55783	248	
35655	156	50306	24	54084	255	55317	245, 257	55787	253	
35695	158	50311	24	54085	255	55318	253	55793	248	
35696	158	50312	24	54086	255	55319	253	55795	256	
35697	158	52000	18, 19	54087	255	55321	245	55796	256	
35698	157	52005	19	54088	255	55324	253	55799	248	
35712	158	52010	19	54089	255	55502	261	55800	248	
35713	158	52011	19	54090	255	55503	261	55807	253	
35750	157	52015	19	54091	255	55504	261	55808	253	
35785	158	52016	19	54230	249	55505	244	55809	253	
35794	163	52030	19	54950	243	55506	261	55816	248	
35798	160	52031	19	54960	243	55517	245	55826	253	
35800	161	52040	19	54961	243	55518	245	55832	253	
35925	152	52041	19	55005	19	55524	245, 253	55844	252	
36700	154	52042	19	55006	19	55536	245	55851	245, 255	
36702	154	53200	251	55007	19	55539	245	55854	245, 257	
36715	154	53210	251	55013	243	55546	245	55918	253	
<b>4</b>		53220	251	55015	19	55585	245	55924	252	
		53240	251	55016	242	55586	245	56001	129	
	40005	170	53250	251	55017	242	55587	245	56002	129
	40015	171	53251	251	55018	242	55588	245	56003	129

# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
56005	129	56186	129	56710	23	57988	65, 67	61359	180
56006	129	56187	129	56711	23	57989	65, 67	61360	180
56007	129	56188	129	56717	23	57990	65, 67	61700	178
56008	129	56189	129	56718	23	57991	65, 67	61701	178
56009	129	56190	129	57005	131	58002	65, 67	61702	179
56010	129	56191	129	57010	131	58004	65, 67	62200	184
56011	129	56198	127	57011	131	58010	65, 67	62203	185
56012	129	56199	127	57015	132	58011	65, 67	62206	185
56013	129	56200	127	57016	132	58012	65, 67	62211	186
56014	129	56235	129	57017	132	58013	65, 67	62212	186
56032	129	56236	129	57018	132	58014	65, 67	62213	186
56045	125	56237	129	57019	132	58015	65, 67	62214	186
56047	133	56238	129	57020	132	58016	65, 67	62215	186
56049	125	56250	127	57021	132	58020	65, 67	62216	186
56050	125	56253	127	57022	132	58021	65, 67	62217	186
56051	125	56254	127	57024	132	58022	65, 67	62219	186
56051	255	56255	127	57025	132	58023	65, 67	62221	186
56052	129	56266	129	57030	132	58182	64, 218	62224	186
56053	129	56268	129	57031	132	58185	65	62226	186
56056	133	56269	129	57032	132	58206	65	62227	186
56057	125	56271	129	57033	132	58520	23	62230	184, 185
56060	133	56288	129	57034	132	58527	23	62231	186
56061	133	56289	129	57035	132	58528	23	62232	186
56062	133	56291	129	57036	132	58529	23	62233	186
56063	133	56294	129	57037	132	59000	21	62234	186
56064	133	56295	129	57038	132	59001	21	62235	186
56065	133	56296	129	57039	132	59035	21	62236	186
56076	129	56310	129	57041	132	59042	21	62237	186
56077	129	56315	129	57042	132	59050	21	62291	186
56081	129	56335	131, 133	57043	132	<b>6</b>		64001	187
56082	129	56351	129	57044	132	60200	175	64020	187
56083	129	56352	129	57045	132	60201	175	65000	181
56085	129	56353	129	57046	132	60203	175	65008	123
56088	129	56355	129	57050	127	60250	177	65010	123
56095	129	56358	129	57055	132	60251	177	65013	123
56096	129	56369	129	57056	132	60999	175	65015	123
56097	129	56372	129	57057	132	61001	176	65030	187
56098	129	56373	129	57058	132	61002	176	65035	187
56104	129	56374	129	57060	132	61011	179	65036	187
56110	129	56379	129	57061	132	61012	179	65037	187
56111	129	56380	129	57062	132	61014	179	65038	187
56112	129	56465	127	57063	132	61015	179	65039	187
56114	129	56475	127	57070	131	61017	179	65040	187
56118	129	56488	125, 127	57071	131	61018	179	65041	187
56120	127	56500	133	57082	132	61030	179	65042	187
56121	129	56501	133	57100	131	61041	179	65043	187
56122	129	56504	134	57105	131	61067	179	65044	187
56125	127	56505	134	57110	131	61100	206	66080	181
56133	129	56506	134	57111	131	61105	207	69111	201
56135	129	56507	134	57132	132	61106	207	69112	201
56150	127	56508	134	57133	132	61110	207	69113	201
56153	129	56509	134	57134	132	61115	207	69117	201
56156	129	56510	134	57135	132	61120	207	69118	201
56161	129	56511	134	57900	64	61130	177	69119	201
56162	129	56512	134	57915	66	61185	176	69376	195
56163	129	56514	134	57921	65, 67	61186	176	69385	195
56164	129	56521	134	57922	65, 67	61187	176	69570	201
56165	129	56522	134	57923	65, 67	61190	206	69575	201
56166	129	56523	134	57979	65, 67	61316	175	69601	195
56175	127	56602	23	57981	65, 67	61340	180	69603	195
56180	129	56603	23	57982	65, 67	61352	180	69615	195
56181	129	56604	23	57983	65, 67	61353	180	69725	200
56183	129	56605	23	57985	65, 67	61358	180	69740	200
56184	129	56607	23	57986	65, 67			69825	200
56185	129	56608	23	57987	65, 67			69840	200



# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
<b>7</b>		70163	290	70351	290	70698	315	71290	307
		70164	290	70352	290	70700	314	71291	307
70006	17	70166	291	70353	290	70710	314	71292	307
70010	11, 17	70167	291	70354	290	70711	314	71293	307
70011	11, 17	70190	290	70355	290	70712	314	71294	307
70015	12, 17	70191	290, 291	70356	290	70713	314	71295	307
70023	17	70192	290, 291	70374	290	70714	314	71296	307
70027	11	70193	290	70375	290	70715	314	71297	307
70029	11, 17	70194	290, 291	70376	290	70721	314	71298	307
70030	13, 17	70195	290	70377	290	70722	314	71299	307
70031	17, 20	70196	290	70378	290	70731	314	71300	307
70032	17, 20	70197	290	70379	290	70732	314	71301	307
70033	17, 20	70200	290	70380	290	70733	314	71302	307
70040	16, 17	70201	290, 291	70401	12, 17	70734	314	71303	307
70041	12, 13, 14, 17	70202	290	70402	12, 17	70740	315	71304	307
70042	13	70203	290, 291	70413	296	70751	134, 315	71305	307
70045	16, 17	70204	290, 291	70414	296	70752	315	71310	307
70047	17	70205	290	70415	292	70950	303	71311	307
70048	16, 17	70206	290	70416	292	70951	303	71450	119
70052	17	70207	290	70417	292	70954	303	71451	119
70053	16, 17	70220	299	70418	298	70955	303	71453	119
70055	11, 15, 17	70221	299	70419	298	70956	303	71454	119
70060	16, 17	70222	299	70420	298	70957	303	71470	119
70063	17	70223	299	70421	298	70970	303	71975	210
70064	16, 17	70225	305	70422	298	70972	303	71976	210
70065	13, 17	70226	305	70423	298	70974	303	71991	208
70067	17	70227	305	70424	298	70976	303	72003	210
70068	17	70228	304	70425	298	70980	303	72005	209
70070	11, 15, 17	70235	291	70426	298	70981	303	72016	210
70072	11, 17, 21	70240	293	70427	298	70982	303	72040	227
70074	125	70241	293	70439	296	70983	303	72041	227
70080	11, 17	70242	291	70440	298	70984	303	72042	227
70081	17	70243	291	70441	279, 298	70985	303	72043	227
70086	16, 17	70244	291	70442	279, 298	70986	303	72060	227
70087	16, 17	70245	291	70443	279, 298	70987	303	72061	227
70105	12, 17	70246	291	70444	279, 298	70988	303	72062	227
70108	11, 17, 21	70247	291	70445	279, 298	70989	303	72063	227
70109	11, 17, 21	70250	293	70475	297	70992	303	72071	208
70113	289	70252	305	70490	297	71019	13, 17	72072	208
70114	289	70257	293	70521	287	71085	14, 17	72073	208
70115	291	70262	291	70522	287	71095	305	72090	209
70116	291	70263	291	70523	287	71206	22	72095	209
70118	305	70264	291	70527	286	71213	22	72100	210, 219
70119	305	70265	291	70528	286	71215	22	72101	219
70125	289	70266	291	70529	286	71216	22	72102	219
70142	13, 17	70267	291	70545	292	71217	22	72110	219
70149	13, 17	70268	293	70548	292	71222	22	72111	219
70150	290	70269	293	70571	291	71250	121	72112	219
70151	290	70270	298	70572	291	71251	121	72120	219
70152	290	70271	298	70573	291	71256	121	72121	219
70153	290	70272	298	70574	291	71257	121	72130	219
70154	290	70273	298	70575	291	71258	121	72131	219
70155	290	70274	298	70576	291	71259	121	72135	219
70156	290	70276	298	70591	287	71271	122	72140	219
70157	290	70277	298	70592	287	71272	117	72141	219
70159	290	70281	298	70593	287	71279	119	72142	219
70160	290	70285	13, 17	70600	117	71281	307	72150	229
70161	290	70286	13, 17	70623	316	71282	307	72151	229
70162	290	70289	28	70661	302	71283	307	72152	229
		70296	28	70665	302	71284	307	72153	229
		70301	307	70667	302	71285	307	72154	224
		70302	307	70670	314	71286	307	72156	229
		70340	15, 17	70671	314	71287	307	72157	229
		70341	15, 17	70672	314	71288	307	72158	223
		70350	290	70696	315	71289	307	72159	223

# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
72161	223	72321	223	72533	227	73670	300	76309	238
72162	223	72322	223	72536	218	74629	195, 196	76320	235
72163	223	72323	223	72538	218	75010	305	76321	235
72164	224	72324	226	72540	218	75011	305	76322	235
72165	223	72325	223	72541	218	75012	305	76323	235
72166	224	72326	226	72542	211	75013	305	76324	235
72168	226	72327	226	72559	218	75014	305	76331	236
72169	224	72328	226	72561	218	75015	305	76406	237
72170	224	72329	224	72562	218	75016	305	76410	237
72171	224	72341	225	72563	218	75020	305	76416	237
72172	226	72347	225	72585	217	75021	305	76427	237
72173	226	72348	225	72610	217	75022	305	76453	238
72175	224	72350	226	72631	214	75023	305	76462	233, 238
72176	210, 224	72351	226	72632	214	75024	305	76463	234, 238
72177	224	72360	224	72633	215	75025	305	76464	238
72178	224	72363	223	72634	215	75026	305	76465	238
72182	225	72365	226	72638	218	76008	231	76466	238
72185	225	72366	226	72666	218	76020	231	76467	238
72186	225	72367	226	72686	214	76053	232	76470	238
72187	225	72374	224	72687	214	76055	239	76485	234
72188	225	72375	224	72688	215	76063	232	76488	237
72191	226	72376	224	72689	215	76065	232, 239	76489	237
72193	226	72377	224	72705	218	76066	232	76490	237
72203	223	72392	226	72810	232	76067	232	76492	237
72207	226	72396	226	72812	232	76068	232	76495	238
72208	223	72398	226	72820	232, 239	76070	232	76540	235
72210	229	72412	229	72915	218	76073	232	76541	235
72211	229	72413	211, 229	72918	216	76082	232	76542	235
72212	229	72414	229	72936	227	76088	232	76543	235
72213	229	72415	229	72937	227	76089	232	76544	235
72221	223	72420	229	72938	227	76090	232	77033	313
72222	223	72421	229	72939	227	76100	234	77050	313
72223	226	72422	229	72940	227	76118	239	77072	313
72224	226	72423	229	72941	227	76119	239	77090	313
72226	226	72424	229	72942	211	76130	239	77164	313
72227	226	72425	211	72960	216	76131	239	77279	313
72228	226	72428	221	72970	217	76135	237	77297	313
72229	224	72431	221	72971	217	76137	237	77396	304
72234	224	72433	221	73103	300	76141	237	77397	304
72250	226	72435	221	73131	300	76152	237	77500	239
72251	226	72441	221	73133	300	76157	238	77501	239
72258	226	72442	221	73152	248, 300	76160	239	77503	232
72259	226	72443	221	73153	300	76161	238	77506	232, 239
72261	224	72444	221	73161	300	76166	238	77530	237
72263	223	72451	221	73162	300	76170	238	77565	237
72264	223	72452	221	73200	296	76172	237	77566	237
72265	226	72453	221	73201	296	76179	237	77606	237
72266	226	72455	221	73202	296	76187	238	77611	237
72270	226	72460	229	73206	296	76189	238	77612	237
72271	226	72461	229	73208	296	76191	239	77613	237
72275	224	72462	229	73209	296	76193	237	77614	237
72276	224	72463	229	73210	296	76200	236	77616	237
72277	224	72490	221	73212	296	76210	236	77621	237
72278	225	72494	210	73213	296	76220	236	77622	237
72284	225	72511	218	73214	296	76221	236	77623	237
72285	225	72513	210	73280	294	76226	236	77624	237
72286	225	72514	218	73290	294	76228	236	77626	237
72289	225	72515	218	73291	294	76232	236	77631	237
72291	226	72516	210	73293	294	76233	238	77632	237
72295	226	72520	210	73297	294	76234	238	77633	237
72299	225	72522	229	73298	294	76235	238	77634	237
72310	229	72525	210	73299	294	76236	238	77636	237
72311	229	72530	227	73570	300	76300	233	77643	238
72312	229	72531	227	73571	300	76301	233	77644	238
72313	229	72532	227	73575	301	76302	236	77650	238



No.	Page	No.	Page	No.	Page	No.	Page	No.	Page	
77666	238	114102	311	255050	304	351263	179	520867	150	
78551	210	114105	311	255060	304	351265	179	<b>53</b>		
78576	211	114111	311	255080	304	351271	179		530250	164
<b>8</b>		114114	311	255100	304	351272	179		530261	168
	80679	17	114127	311	255120	304	355600	316	530310	164
85800	278	114161	311	259007	270, 278	<b>40</b>				
87305	271	114162	311	259008	270		402308	316	<b>54</b>	
87309	271	114171	311	259010	270	402309	316	540320		163
87800	279	114175	311	259060	270	402310	316	540321	163	
88812	14	114201	311	<b>30</b>		402311	288, 316	540360	163	
88815	14	114202	311		300013	22	402312	317	540365	163
88818	14	<b>16</b>		<b>31</b>		402316	316	540620	164	
88822	14		168605		274	310411	255	402317	316	540621
89501	278	168606	275	<b>32</b>		<b>46</b>		540622	164	
89503	278	168713	274, 275		321216		253	462212	59	540625
<b>11</b>		169200	273	321218	253, 257	462215	59	540626	164	
	111429	50	<b>17</b>		321300	307	462218	59	540627	164
111449	50	170016		265, 278	321523	307	462222	59	540640	164
112040	309	170061	273	321524	307	463610	309	540641	164	
112042	309	170062	273	321525	307	464010	309	540675	164	
112044	309	170063	273	321526	307	464012	309	540676	164	
112046	309	170064	273	321528	307	464014	309	540850	164	
112047	309	170501	268	321528	307	464016	309	540851	164	
112049	309	170502	268	321529	307	464018	309	540855	164	
112050	309	170508	268	321530	307	464020	309	<b>56</b>		
112052	309	170518	268	322823	313	464025	309		561351	165
112053	309	170545	268	322824	313	464028	309	561352	165	
112054	309	170546	268	322825	313	464032	309	561550	164	
114014	311	170547	268	322827	313	464035	309	<b>81</b>		
114016	311	170600	268	322828	313	464038	309		816990	309
114017	311	170601	268	322921	313	464040	309	817000	309	
114019	311	170602	268	322922	313	<b>51</b>		817003	309	
114022	311	170604	269	322923	313		510105	164	817012	309
114025	311	170605	269	322924	313	510106	164	817017	309	
114028	311	170606	268	323126	301	511427	163	817022	309	
114029	311	170607	268	324559	306	511428	163	817027	309	
114030	311	170608	268	324577	306	513010	159	817032	309	
114032	311	170912	276	324588	306	513030	159	817037	309	
114033	311	170913	276	324737	306	513030	159	817037	309	
114035	311	170931	276	324739	306	513031	159	817042	309	
114036	311	170932	276	324800	306	513032	159	817047	309	
114037	311	170950	278	<b>35</b>		513033	159	817052	309	
114038	311	170952	276		350850	292	513034	159	817057	309
114040	311	171505	268	350900	292	513035	159	817062	309	
114041	311	173004	277	351043	295	513036	159	817067	309	
114043	311	173204	278	351044	295	513040	159	817072	309	
114044	311	173205	278	351050	305	513043	159	817077	309	
114046	311	175001	97, 278, 297	351220	179	513044	159	817082	309	
114048	311	<b>22</b>		351221	179	513045	159	817092	309	
114051	311		222401	96	351222	179	513046	159	817097	309
114052	311	222402	96	351223	179	513300	159	817102	309	
114054	311	222403	96	351225	179	513310	159	817104	309	
114057	311	222403	96	351226	179	513330	159	817106	309	
114060	311	222412	96	351227	179	513331	159	817108	309	
114064	311	222413	96	351228	179	513332	159	817110	309	
114065	311	222601	96	351231	179	<b>52</b>		842100	22	
114067	311	224500	279	351232	179		520840	150	<b>84</b>	
114070	311	<b>25</b>		351233	179	520849	150	849064		299
114079	311		252100	304	351257	179	520850	150	849065	299
114083	311	255030	304	351260	179	520856	150	849285	299	
114089	311	255040	304	351261	179	520857	150	849289	299	
114092	311			351262	179	520866	150	849293	299	
114098	311									



# Table of Contents

## Numerical

No.	Page	No.	Page	No.	Page	No.	Page	No.	Page
849299	299	221031500	147	1000000138	265	1500000032	269	FF00110	47
849303	299	221031800	147	1000000145	204	1500000052	196	FF00120	47
849306	299	221131416	146	1000000173		1500000057	197	FF00125	47
849308	299	221131616	146		108 - 113	1500000087	316	FF00130	47
849311	299	221131916	146	1000000190	205	1500000088	316	FF00140	47
849313	299	221132216	146	1000000190	205	1500000115	207	FF00150	47
849317	299	223214500	151	1000000212	134	1500000116	207	FF00160	47
849319	299	223215100	151	1000000213	284	1500000117	207	FF00170	47
849323	299	223215700	151	1000000214	284	1500000118	198	FF00180	47
849334	299	223216300	151	1000000215	284	1500000120	201	FF00200	47
849335	299	231010000	151	1000000216	284	1500000121	201	FF00220	47
849554	299	232010000	151	1000000217	285	1500000122	199	FF00250	47
		233510000	151	1000000218	285	1500000123	199	FF00280	47
		236010000	151	1000000222	95	1500000133	135	FF00300	47
		242206000	152	1000000223	95	1500000134	135	FF00350	47
854179	165	252010000	151	1000000224	97	1500000135	207	FF00400	47
854180	165	263005700	158	1000000225	97	1500000136	207	FF00450	47
854181	165	263005800	158	1000000230	95	1500000157	205	FF00500	47
854182	165			1000000231	95	1500000200	205	FF00610	47
854183	165	<b>355</b>		1000000235		1500000201	205	FF00612	47
854184	165				108 - 113	1500000202	205	FF00614	47
854185	165	355000016	250			1500000203	205	FF00615	47
854186	165	<b>762</b>		1000000236		1500000236	27	FF00616	47
854187	165				108 - 113	1500000237	27	FF00618	47
854188	165	762955300	70	1000000328	285	1500000276	198	FF00620	47
854189	165	762955700	70	1000000390	149	1500000439	219	FF00624	47
854190	165	766004016	56	1000000420	317	1500000439	219	FF00625	47
854191	165	766100016	57	1000000430	317	1500000459	149	FF00626	47
854192	165			1000000442	181	1500000696	195	FF00628	47
854193	165	<b>887</b>		1000000512	149	1500000782	107	FF00630	47
854194	165	887307000	135	1000000514	149	1500000789	244	FF00632	47
854195	165	887308000	135	1000000529	157	1500000790	244	FF00635	47
854196	165	887309000	135	1000000532	244	1500000792	244	FF00638	47
854197	165			1000000539	267	1500000793	244	FF00640	47
854198	165	<b>1000</b>		1000000540	267	1500000794	244	FF00645	47
854390	302	1000000009	195	1000000541	267	1500000795	244	FF00650	47
855360	316	1000000057	266	1000000558	157	1500000817	201	FF00655	47
856907	316	1000000058	266	1000000569	267	1500000856	250	FF00660	47
856911	316	1000000065	197	1000000570	267	1500000857	250	FF00665	47
865781	26	1000000087	135	1000000572	267	1500000858	250	FF00670	47
865782	26	1000000088	37	1000000631	163	1500000858	250	FF00675	47
865783	26	1000000089	37	1000000633	163	1500000859	250	FF00680	47
865784	26	1000000092	37	1000000642	157	1500000881	250	FF00685	47
865785	26	1000000105	107	1000000720	134	1500000914	207	FF00690	47
865786	26	1000000106	107	1000000721	134			FF00695	47
865787	26	1000000107	106	1000000722	134	<b>F</b>		FF00700	47
865788	26	1000000108	107	1000000723	134	F80053	92	FF00705	47
865789	26	1000000109	107	1000000743	157	F80054	92	FF00710	47
865790	26	1000000110	106	1000000762	163	<b>FF</b>		FF00715	47
865791	26	1000000111	108	1000000764	163	FF00020	47	FF00720	47
865793	26	1000000112	108	1000000842	196	FF00025	47	FF00725	47
865795	26	1000000113	108	1000000850	134	FF00030	47	FF00730	47
865796	26	1000000116	106	1000000860	195	FF00040	47	FF03168	33
865798	26	1000000117	108	1000000861	197	FF00045	47	FF03182	33
865799	26	1000000118	108	1200000526	244	FF00050	47	FF03300	33, 52
		1000000119	108	<b>1500</b>		FF00055	47	FF03301	33, 52
		1000000120	108	1500000010	195	FF00060	47	FF03308	52
7500041	13	1000000121	108	1500000024	269	FF00065	47	FF03309	52
<b>121</b>		1000000122	108	1500000025	269	FF00070	47	FF03310	52
12110016	176	1000000124	108	1500000026	269	FF00075	47	FF03311	52
<b>211</b>		1000000125	108	1500000027	269	FF00080	47	FF03312	52
211111116	152	1000000133	169	1500000028	269	FF00085	47	FF03313	52
211121116	152	1000000134	170	1500000029	269	FF00090	47	FF03314	52
211541116	148	1000000135	170	1500000030	269	FF00100	47	FF03315	52
		1000000136	170	1500000031	269	FF00105	47	FF03316	52
		1000000137	170						



No.	Page	No.	Page	No.	Page	No.	Page
FF03317	52	FF40300	43	FF42700	48	FF44867	45
FF03318	52	FF42020	48	FF42705	48	FF50007	49
FF03319	52	FF42025	48	FF42710	48	FF50008	49
FF03320	52	FF42030	48	FF42715	48	FF50977	39
FF03321	52	FF42035	48	FF42720	48	FF50978	39
FF03322	52	FF42040	48	FF42725	48	FF50979	39
FF03323	52	FF42045	48	FF42730	48	FF50981	39
FF30030	43	FF42050	48	FF44030	46	FF50982	39
FF30170	39	FF42055	48	FF44040	46	FF50984	41
FF30171	35, 39	FF42060	48	FF44050	46	FF50985	41
FF30270	41	FF42065	48	FF44060	46	FF50986	41
FF30271	41	FF42070	48	FF44070	46	FF50987	41
FF34170	39	FF42075	48	FF44080	46	FF50988	41
FF34171	39	FF42080	48	FF44090	46	FF50989	41
FF34270	41	FF42085	48	FF44100	46	FF50990	41
FF34271	41	FF42090	48	FF44110	46	FF50993	43
FF34300	43	FF42100	48	FF44120	46	FF50995	43
FF35015	49	FF42105	48	FF44130	46	FF50996	43
FF35026	35, 51	FF42110	48	FF44140	46	FF50997	43
FF35029	51	FF42120	48	FF44150	46	FF50998	43
FF35040	52	FF42125	48	FF44160	46	FF55131	52
FF35045	52	FF42130	48	FF44170	46	FF55201	52
FF35050	52	FF42140	48	FF44180	46	FF55374	53
FF35055	52	FF42150	48	FF44200	46	FF55388	53
FF35060	52	FF42160	48	FF44220	46	FF55447	53
FF35065	52	FF42170	48	FF44250	46	FF55448	53
FF35070	52	FF42180	48	FF44300	46	FF60150	35
FF35075	52	FF42200	48	FF44620	46	FF60185	33
FF35080	51	FF42220	48	FF44630	46		
FF35091	51	FF42225	48	FF44640	46		
FF35092	51	FF42250	48	FF44650	46	<b>H</b>	
FF35095	51	FF42280	48	FF44660	46	H96591	179
FF35096	52	FF42300	48	FF44670	46	<b>R</b>	
FF35097	52	FF42350	48	FF44680	46	R2403200	56
FF35101	51	FF42400	48	FF44690	46	R2403300	56
FF35120	50	FF42450	48	FF44700	46	R6112500	177
FF35121	50	FF42500	48	FF44710	46	<b>V</b>	
FF35122	50	FF42610	48	FF44720	46	V12102000	176
FF35126	50	FF42612	48	FF44730	46		
FF35129	50	FF42614	48	FF44806	45		
FF35130	50	FF42615	48	FF44808	45		
FF35135	49	FF42616	48	FF44810	45		
FF35148	53	FF42618	48	FF44812	45		
FF35190	50	FF42620	48	FF44814	45		
FF35200	49	FF42622	48	FF44815	45, 50		
FF35210	53	FF42624	48	FF44816	45		
FF35301	51	FF42625	48	FF44818	45		
FF35302	51	FF42626	48	FF44820	45, 50		
FF35700	52	FF42628	48	FF44822	45		
FF35701	52	FF42630	48	FF44824	45		
FF35702	52	FF42632	48	FF44825	45		
FF35703	52	FF42635	48	FF44826	45		
FF35710	49	FF42638	48	FF44828	45		
FF35730	52	FF42640	48	FF44830	45		
FF35740	49	FF42645	48	FF44832	45		
FF35749	49	FF42650	48	FF44835	45		
FF35750	49	FF42655	48	FF44836	45		
FF35751	35	FF42660	48	FF44838	45		
FF40056	52	FF42665	48	FF44840	45		
FF40140	35	FF42670	48	FF44842	45		
FF40150	34	FF42675	48	FF44845	45		
FF40160	37	FF42680	48	FF44850	45		
FF40180	39	FF42685	48	FF44855	45		
FF40185	33	FF42690	48	FF44860	45		
FF40210	41	FF42695	48	FF44865	45		

# Table of Contents

## Abbreviations

Abbreviation	Description
A/S	Acetylene / Oxygen
ABS	Acrylonitrile-Butadiene-Styrene
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (french)
AG	Silver
AL	Aluminium
AMS	Acetylen-Maxigas-Oxygen
AS	Non-slip
B	Petrol, Gas
BGV	Trade Associations Occupational Health and Safety Regulations
BSP	British Standard Pipe, Standard Withworth Thread as per 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
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
LCD	Liquid Crystal Display

# Table of Contents

## Abbreviations

Abbreviation	Description
LED	Light Emitting Diode
MIM	Metal Injection Molding
MPa	Megapascals
MS	Brass
MSR	Multi-layered Composite Pipe
NM	Newton Metre
NPT	National Pipe Thread (Standard US)
PB	Polybutylene
PD	Power Driver
PD-E	Power Drive-Electronic
PE	Polyethylene
PEX	Cross-linked Polyethylene
PL	Plastic
PP	Polypropylene
PS	Professional
PSI	Pound-Force per Square Inch
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RC	RODIACUT
SAE	Society of Automotive Engineers
SD-Card	Secure Digital-memory Card
SDR	Standard Dimension Ratio
SMK	Spiral with Plastic Core
SML	Super Metal Delivery Program
SP	Standard Plier
SP	Special Performance
SPK	Standard Plastic Plier
SS	Quick Cut
SW	Spanner Size
TC	Tube Cutter
TFT	Thin-film Transistor
TiN	Titanium Nitride Coating
TPI	Bits per Inch
TRGI	Technical Guidelines for Gas Installations
TRWI	Technical Guidelines for Water Installations
TÜV	Technical Inspection Association
UKS	Obital Circular Saw
UNC	Unified Coarse Threads
UNF	Unified Fine Thread
VA (Stahl)	Stainless Steel, Corrosion Resistant Steel
VCR	Video Cassette Recording
VDE	Registered Association of the Electrical, Electronic and Information Technology
VPE	Packaging Unit
WG	Hot Gas
ZN	Zinc
ZPZ	Bits per Inch
ZVSHK	German Central Association Plumbing, Heating and Air Conditioning

# Table of Contents

## 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 industrial safety
Don't sharpen	With USB connection	With video function	With photo function	Memory card	WiFi

### 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 Titanitrid coating

The golden **TiN Coating (Titanitrid-coating)** of the expander head offers the following technical benefits:

**High durability 2,300 HV:**

Protection against abrasive wear

**Lower friction value compared to steel:**

Less effort

**Good chemical resistance:**

Good protection against corrosion

**Universal wear resistance:**

Long-lasting



### ROTHENBERGER Constant Force Technology

The **CFT® (Constant Force Technology)** guarantees a constant axial pressing force over the entire service interval.

A very important requirement for the production of sealed press connections CFT® guarantees:

**ROMAX® Compact**

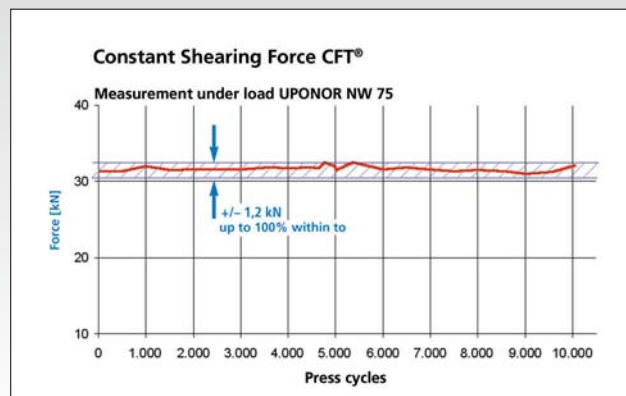
19-21 kN für 10,000 press cycles

**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



# Notes

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