

Expanding

Expander

ROCAM EXPANDER power torque

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



APPLICATION AREA

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

Suitable for pipes made of:

Copper (soft and semi-hard): $\varnothing 8-42$ mm, 5/16-1.3/4"
max. wall thickness 1.6 mm

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

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

Stainless steel (soft): $\varnothing 8-22$ 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 50 years!



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

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)



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



For efficient, fitting-free installation of pipes



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The **EPT-Technology (Enclosed Power Transmission)** 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.



Size	kg	☒	No.
12-15-18-22 mm	2.9	1	12300
10-12-15-18-22 mm	3.3	1	12302
12-15-18-22-28 mm	3.3	1	12303
10-12-16-18-22 mm	3.3	1	12304
10-12-16-22-28 mm	3.3	1	12305
12-14-16-18-22 mm	3.3	1	12309
12-14-16-18-22-28 mm	3.3	1	12310
10-12-14-16-18-22 mm	3.6	1	12311
3/8-1/2-5/8-3/4-1"	3.3	1	12317
3/8-1/2-5/8-3/4-7/8-1.1/8"	3.6	1	12318
1/2-5/8-3/4-7/8"	2.9	1	12321
12-16-18-22-28 mm	3.2	1	12322

Size	kg	☒	No.
3/8-1/2-3/4-1"	3.2	1	12323
1/2-5/8-7/8-1.1/8"	3.0	1	12324
12-15-18-22-28-35-42 mm	4.2	1	12326
15-22-28 mm	2.9	1	12327
15-22 mm	2.5	1	12328
1/2-3/4-1"	2.9	1	12335
10-12-15-16-18-22-28 mm	3.6	1	12337
12-14-16-18-22-28-32 mm	3.7	1	12338
15-18-22-28-35-42 mm	4.0	1	12339
3/8-1/2-5/8-3/4-7/8-1-1.1/8"	3.7	1	12336
3/8-1/2-5/8-3/4"-22-28 mm	3.6	1	12336
3/8-1/2-5/8-3/4-7/8-1.1/8-1.3/8"	4.5	1	12341

Expanding Expander

ROLOCK EXPANDER power torque

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



APPLICATION AREA

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

Suitable for pipes made of:

Copper (soft and semi-hard): $\varnothing 8-42$ mm, 5/16-1.3/4"
max. wall thickness 1.6 mm

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

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

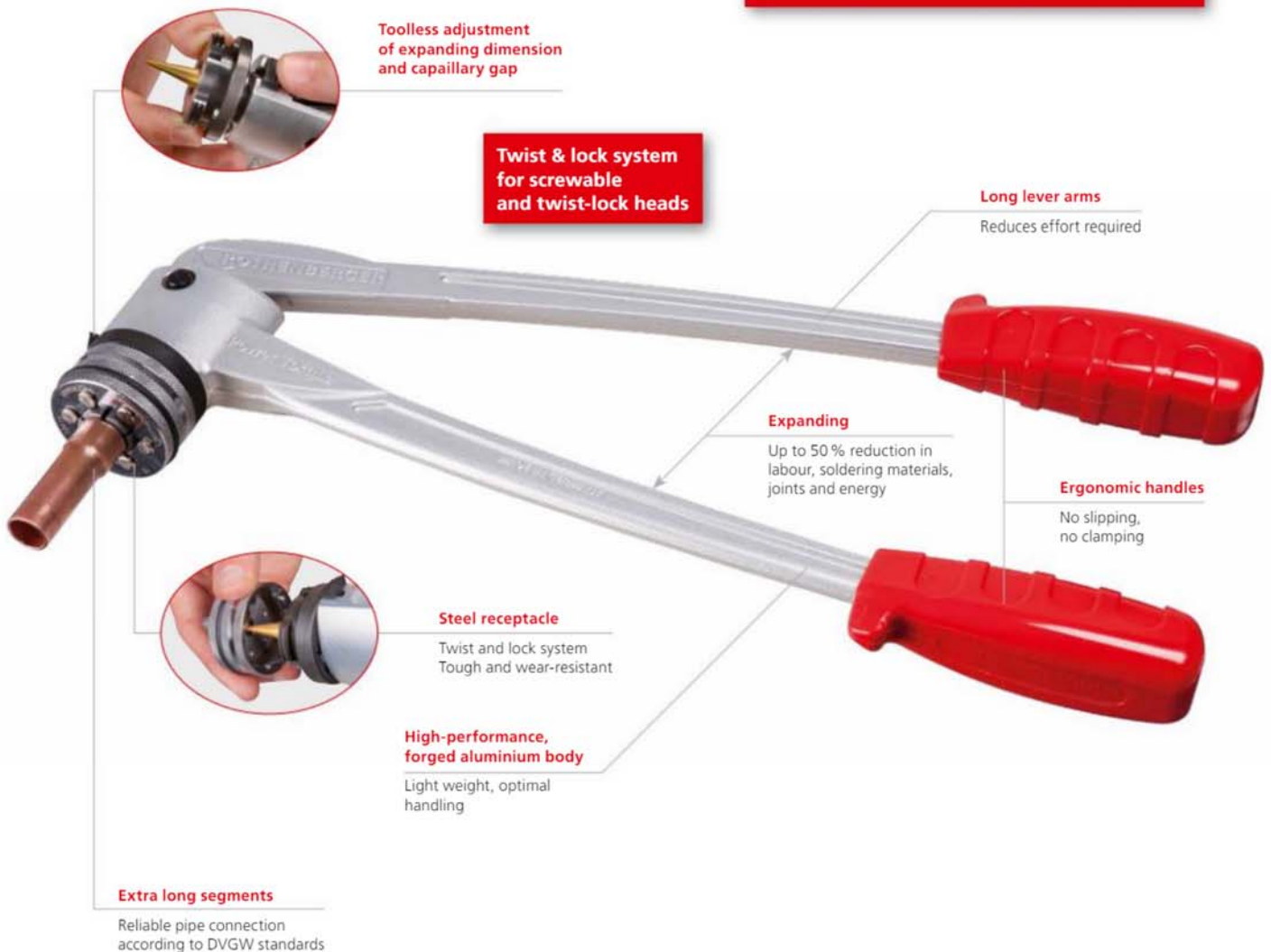
Stainless steel (soft): $\varnothing 8-22$ mm, 5/16-7/8"
max. wall thickness 1.0 mm

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**

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Model	kg		No.
ROLOCK EXPANDER power torque	1	1	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

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

The **EPT-Technology (Enclosed Power Transmission)** offers the following technical benefits:

Concealed bent lever:

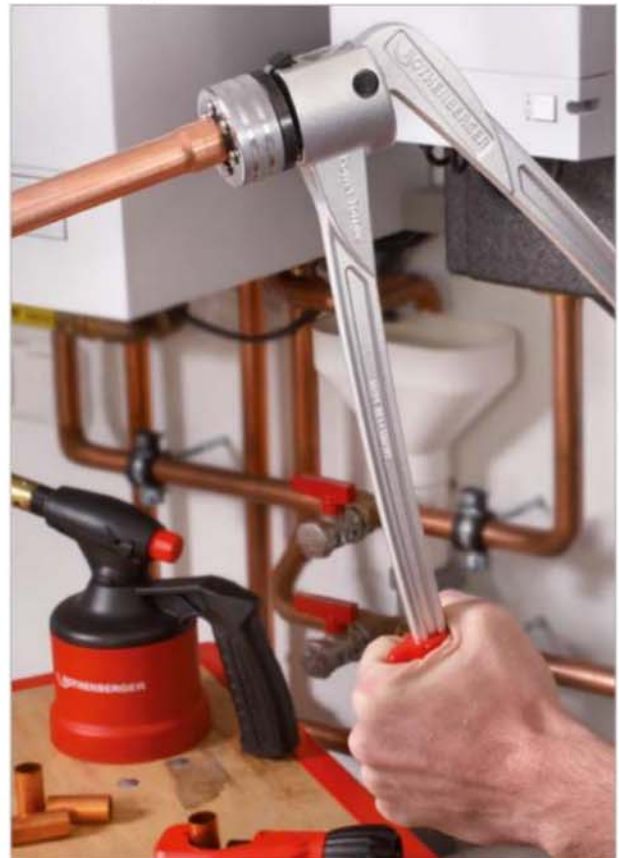
Protection against dirt and external mechanical damage.

Energy efficient through optimised force transmission:

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



For efficient, fitting-free installation of pipes



ACCESSORIES



Expander heads for ROLOCK EXPANDER power torque



Expander heads type S/riveted expander heads



Pipe cutter



Internal/External deburrer



Expander adaptor type S



Brazing solder



High-performance torch (SUPER FIRE 3 with MAPP Gas)

Expanding Expander

Standard expander head

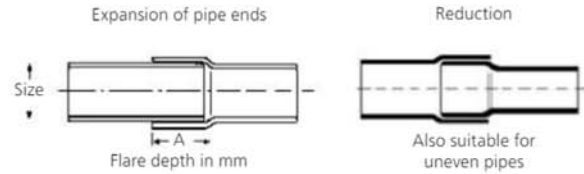
For producing standard precision flares Ø8–42 mm (5/16–1.3/4") according to DVGW standards; as well as the specifications for the Gas de France

KEY FEATURES

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

Made in Germany!

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



4

Fits similar expanders from other brands as well!

Specially hardened segments

Tough and long lasting

6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap

Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

Extra long segments

Depth of the flare is consistent with DVGW standards



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

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

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

ROLOCK expander head

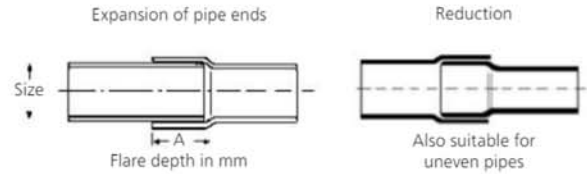
For producing standard precision flares Ø8–42 mm (5/16–1.3/4") according to DVGW standards; as well as the specifications for the Gas de France

KEY FEATURES

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- 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

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Twist & lock heads for ROLOCK EXPANDER power torque

Specially hardened segments

Tough and long lasting

6 Rivets and guide channels

Guide guarantees a perfect centred position and uniform capillary gap



Step at the end of the segments

Enables re-calibration of irregular pipes and fittings

Extra long segments

Depth of the flare is consistent with DVGW standards



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

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

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

Expanding

Expander/tee-extractor

COMBI KIT expander/tee-extractor

Practical, compact and cost-saving set combinations with ROCAM and ROLOCK EXPANDER power torque and tee-extractors. For all common pipe dimensions $\varnothing 10-28$ mm (3/8-1.1/8")

Made in Germany!

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APPLICATION AREA

Suitable for pipes made of **copper, aluminium and steel (soft)**: $\varnothing 10-28$ mm and 3/8-1.1/8"

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

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

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

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

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

Expanding Tee-extractor

Tee-extractor sets

For efficient production of T-branches (extractions) for fitting-free pipe installations, Ø 10–28 mm (3/8–1.1/8")

APPLICATION AREA

Suitable for pipes made of:

Copper
(soft, semi-soft, hart): 10–42 mm, 3/8–2.1/8"
max. wall thickness 2.5 mm

Aluminium: 10–42 mm, 3/8–2.1/8"
max. wall thickness 2.5 mm

Precision steel: 10–42 mm, 3/8–2.1/8"
max. wall thickness 2.5 mm

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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 pincher

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

No. 22081

Optimum capillary gap

Professional extractions

UNIDRILL Automatic 28/42

Accurate drilling



No. 21583/
No. 21575



Limits the insertion depth

Optimal positioning

No pipe removal

Extractions even on installed pipes possible



Tee-extractor sets include: Tee-extractor according to chart, special ratchet (No. 27180), adaptor (No. 1500002894), cam pincher (No. 22080) and special conical drill, UNIDRILL Automatic 42 (No. 21575), in steel carrying case (No. 24022)

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

Expanding

Tee-extractor

Tee-extractor

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

APPLICATION AREA

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

mm/inch	mm	Drill Ø mm	mm	g	No.
10	1.0	6	11	130	22010
12	1.0	7	11	150	22012
14	1.0	8	11	160	22014
15	1.0	8	11	160	22015
16	1.0	8	11	220	22016
18	2.0	10	11	220	22018
22	2.0	12	11	300	22022
28	2.5	15	11	470	22028
35	2.5	22	11	700	22035
38	2.5	22	11	700	22038
42	2.5	26	11	890	22042
54	2.5	30	19	1,380	22054
3/8"	1.0	6	11	110	22060
1/2"	1.0	7	11	140	22061

● Hexagon ■ Square

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



mm/inch	mm	Drill Ø mm	mm	g	No.
5/8"	1.0	8	11	220	22016
3/4"	2.0	10	11	220	22062
7/8"	2.0	12	11	350	22063
1"	2.5	14	11	470	22064
1.1/8"	2.5	15	11	480	22065
1.1/4"	2.5	19	11	700	22066
1.3/8"	2.5	22	11	700	22035
1.1/2"	2.5	22	11	700	22038
1.5/8"	2.5	26	11	900	22068
2"	2.5	30	19	1,380	22050
2.1/8"	2.5	30	19	1,380	22054

ACCESSORIES

Socket 19mm	F80053
Square connection 3/4"	F80054

Spare extractor hooks

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



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

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

Tee-extractor ratchet

Chrome vanadium steel, fine toothed and right/left reversible

Model	SW	g	No.
10–42 mm, 3/8–1.3/4"	11 mm	435	27180*
50–54 mm, 2–2.1/8"	3/4" ■	1,140	27181

