

Expander

ROCAM® EXPANDER Power Torque

For expanding, reducing and calibrating pipes
 Ø 8 - 42 mm (5/16 - 1.3/4")



Product Profile

APPLICATION AREA

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

KEY FEATURES

- Eliminates the cost of purchase and storage of fittings
- Increased safety by reducing the number of joints
- Converts deformed pipes into fittings; saves resources
- 50% reduction of labour, soldering materials, joints and energy
- Protects against dirt with EPT®-Technology
- Reliable pipe connection according to DVGW standards
- Tough, light and wear-resistant
- Automatic pin guide retraction enables faster operation
- Fine adjustment of the capillary gap

TECHNICAL DATA

Suitable for pipes made of:

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



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



Expander

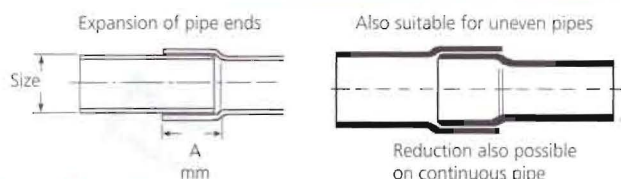
ROCAM® EXPANDER Power Torque Sets

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

ROCAM® Power Torque Sets

Model			kg	No.
10 - 12 - 16 - 18 - 22 mm	1	5	3,3	1.2304
10 - 12 - 16 - 22 - 28 mm	1	5	3,3	1.2305
10 - 12 - 15 - 16 - 18 - 22 - 28 mm	1	5	3,4	1.2337
12 - 15 - 18 - 22 mm	1	5	2,9	1.2300
12 - 15 - 18 - 22 - 28 mm	1	5	3,3	1.2303
12 - 14 - 16 - 18 - 22 mm	1	5	3,3	1.2309
12 - 16 - 18 - 22 - 28 mm	1	5	3,2	1.2322
1/2 - 5/8 - 3/4 - 7/8"	1	5	2,9	1.2321
3/8 - 1/2 - 5/8 - 3/4 - 1"	1	5	3,3	1.2317
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8"	1	5	3,7	1.2336
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 1/8"	1	5	3,6	1.2318

More set combinations on request!



Standard Expander Head

For producing standard precision flares Ø 8 - 42 mm (5/16 - 1 3/4") according to DVGW standards; as well as meet the specifications for the Gas de France

KEY FEATURES

Cost-effective operation

- Enables re-calibration of irregular pipes and fittings
- Uniform capillary gap by adjusting the KSO screw on the ROCAM® EXPANDER
- Depth of the flare is consistent with DVGW standards
- Guide guarantees a perfect centred position and uniform capillary gap

mm	Wall thickness mm				A mm	g	No.
	Cu	Al	Fe	Inox			
8	1,0	1,0	1,0	1,0	6,0	120	1.1008
10	1,0	1,0	1,0	1,0	10,0	120	1.1010
12	1,2	1,2	1,2	1,0	12,6	120	1.1012
14	1,2	1,2	1,2	1,0	12,6	120	1.1014
15	1,2	1,2	1,2	1,0	15,5	120	1.1015
16	1,2	1,2	1,2	1,0	15,5	120	1.1016
18	1,2	1,2	1,2	1,0	17,5	120	1.1018
20	1,2	1,2	1,2	1,0	17,5	140	1.1020
22	1,2	1,5	1,5	1,0	20,5	140	1.1022
28	1,5	1,5	1,5	-	18,5	390	1.1028
32	1,5	-	-	-	19,5	410	1.1032
35	1,6	-	-	-	19,5	430	1.1035
38	1,6	-	-	-	19,5	450	1.1038
40	1,5	-	-	-	19,5	470	1.1040
42	1,5	-	-	-	19,5	470	1.1042

EPT®-Technologie (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



Fig. ROCAM® EXPANDER Power Torque Set

Description			kg	No.
Expander tool (without expander heads)	1	5	1,0	1.2000
for expander heads up to 42 mm / 1 3/4"				

Tough and long lasting

Specially hardened segments

Enables re-calibration of unrounded pipes and fittings

Step at the end of the segments

Quick changing of the heads

Smooth-running screw thread



Depth of the flare is consistent with DVGW standards

Extra long segments

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	1.1008
3/8"	1,0	1,0	1,0	1,0	7,4	120	1.1052
1/2"	1,2	1,2	1,2	1,0	11,0	120	1.1053
5/8"	1,2	1,2	1,2	1,0	14,0	120	1.1054
3/4"	1,2	1,2	1,2	1,0	18,1	120	1.1055
7/8"	1,2	1,2	1,2	1,0	18,0	140	1.1056
1"	1,5	1,5	1,5	-	15,8	150	1.1057
1 1/8"	1,6	1,6	1,6	-	17,0	390	1.1058
1 1/4"	1,6	-	-	-	17,0	410	1.1059
1 3/8"	1,6	-	-	-	17,0	430	1.1035
1 1/2"	1,6	-	-	-	17,0	450	1.1038
1 5/8"	1,6	-	-	-	17,5	470	1.1062
1 3/4"	1,6	-	-	-	17,5	500	1.1063

The golden Titanium Nitride coating (TiN)

of the expander cone offers the following technical benefits:

High durability 2300 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

