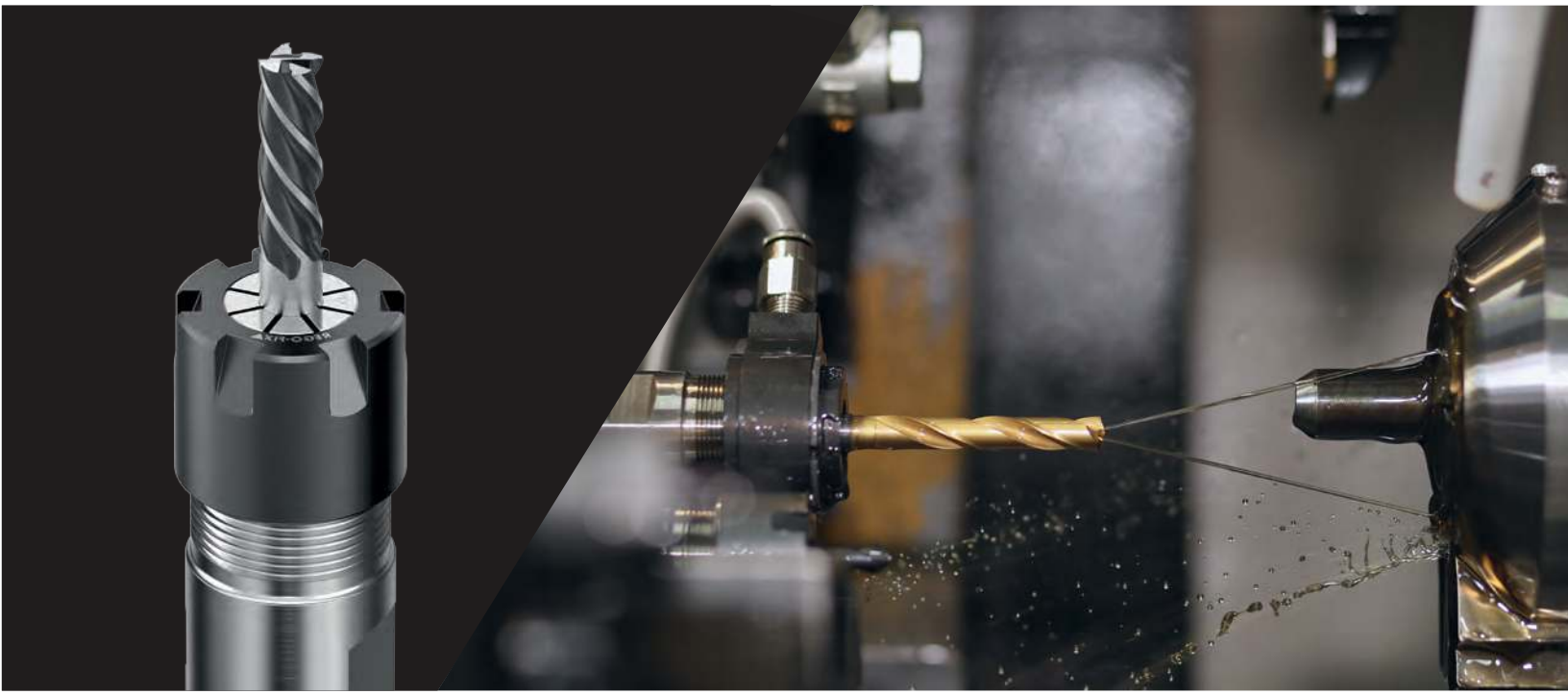
ER Lathe & Swiss Automatic Tooling

The pioneering toolholding system

Product catalog

REGO-FIX



Swiss automatic tooling

ER tooling for Swiss type automatics

REGO-FIX manufactures the most accurate and widest selection of collets and cylindrical holders in the world. As the demand for more accuracy in many Swiss machine applications has grown, our offerings and precision have expanded to meet these needs.

Options include:

// Cylindrical shanks
// Cylindrical shanks with flats
// Doubled ended
// SwissQuick adapters
// reCool (see pages 8-9 for more info)
// Microbore collets
// Floating and mini-floating holders

All of these cylindrical holders and adapters come with our Hi-Q mini-nut design to provide ample clearance. Additionally, all mini-threaded holders can fitted with the intRlox anti-slip nut for additional safety (see page 7 for more info).

Cylindrical shank colletholders CYL

CYL / CYLF / CYDF

Features and benefits

Runout TIR ≤ 0.0001" (3µm) for CYL / ERM and CYL / ERMX

Measured from inner taper to outer shank.

Runout TIR ≤ 0.0002" (5 µm) for CYLF / ERM and CYLF / ERMX

Measured from inner taper to outer shank.

Runout TIR ≤ 0.0002" (5 µm) for CYDF / ERM and CYDF / ERMX

Measured from inner taper to outer shank.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Sizes

ER 8 – ER 40
h6 tolerance on shanks.

Types

Cylindrical, flat- or double-ended colletholders.

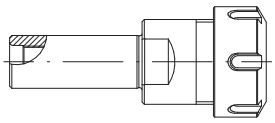
Expert advice

We recommend tightening the clamping nuts using a torque wrench.

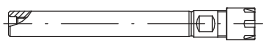
For tightening torque recommendations, please refer to page 112.

Available CYL colletholders and their key characteristics

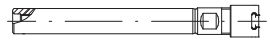
Cylindrical REGO-FIX colletholders are designed for automatic turning machines and can also be utilized as extensions.
We offer many different product types to fit your machining needs.



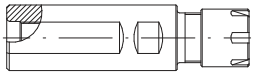
CYL / ER



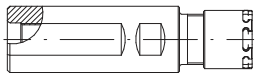
CYL / ERM



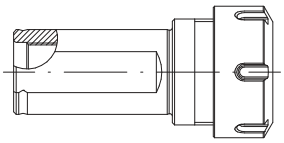
CYL / ERMX



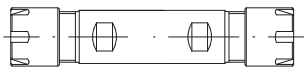
CYLF / ERM



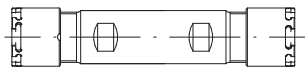
CYLF / ERMX



CYL / ER NC



CYDF / ERM



CYDF / ERMX

CYL / ER The short versions are particularly used on turret lathes, where a short overhang is often required.
For technical dimensions, please refer to page 5.

CYL / ERM This type is suited for Swiss automatic machines, machining centers and conventional machines. Can be used as extension.
For technical dimensions, please refer to page 7.

CYL / ERMX This type is suited for Swiss automatic machines, machining centers and conventional machines. The slip-off proof mini clamping nut intRlox® prevents injuries caused by slipping off while tightening the nut. Can be used as extension.
For technical dimensions, please refer to page 7.

CYLF / ERM The line of cylindrical colletholders with clamping flat is particularly designed for Swiss automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos. Cannot be used as extension.
For technical dimensions, please refer to page 9.

CYLF / ERMX The line of cylindrical colletholders with clamping flat is particularly designed for Swiss automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos. The slip-off proof mini clamping nut intRlox® prevents injuries caused by slipping off while tightening the nut. Cannot be used as extension.
For technical dimensions, please refer to page 9.

CYL / ER NC These colletholders are particularly suitable on Swiss automatic CNC turning machines, but can also be used on other turning machines.
For technical dimensions, please refer to page 12.

CYDF / ERM The line of double colletholders with clamping flat has been designed for Swiss automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos and offers the possibility to hold two cutting tools on the same colletholder.
For technical dimensions, please refer to page 13.

CYDF / ERMX The line of double colletholders with clamping flat has been designed for Swiss Automatic CNC machines, e.g., Citizen, Manurhin, Star or Tornos, and offers the possibility to hold two cutting tools on the same colletholder. The slip-off proof mini clamping nut intRlox® prevents injuries caused by slipping off while tightening the nut.
For technical dimensions, please refer to page 13.

CYL / ER colletholder

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Accessory Wrench
CYL 1/2 [inch]								
CYL 1/2" x 070 / ER 11	2613.11141	19	12.7	70	28.5	M 6	–	7112.11010
CYL 1/2" x 100 / ER 16	2613.11661	28	12.7	100	36	M 6	–	7112.16010
CYL 1/2" x 100 / ER 20	2613.12061	34	12.7	100	44.5	M 6	–	7112.20010
CYL 14 [mm]								
CYL 14 x 060 / ER 16	2614.11630	28	14	60	36.5	M 6	–	7112.16010
CYL 16 [mm]								
CYL 16 x 060 / ER 16	2616.11630	28	16	60	36.5	M 8 x 1	–	7112.20010
CYL 5/8 [inch]								
CYL 5/8" x 060 / ER 16	2616.11631	28	15.875	60	36.5	M 8 x 1	–	7112.16010
CYL 5/8" x 100 / ER 20	2616.12061	34	15.875	100	44.5	M 8 x 1	–	7112.20010
CYL 3/4 [inch]								
CYL 3/4" x 050 / ER 16	2619.11621	28	19.05	50	30.5	M 12 x 1	–	7112.16010
CYL 3/4" x 100 / ER 16	2619.11661	28	19.05	100	30.5	M 11 x 1	M 12 x 1	7112.16010
CYL 3/4" x 060 / ER 20	2619.12031	34	19.05	60	36.5	M 12 x 1	–	7112.20010
CYL 3/4" x 050 / ER 25	2619.12521	42	19.05	50	47	M 12 x 1	–	7111.25000
CYL 20 [mm]								
CYL 20 x 050 / ER 16	2620.11620	28	20	50	30.5	M 12 x 1	–	7112.16010
CYL 20 x 100 / ER 16	2620.11660	28	20	100	30.5	M 11 x 1	M 12 x 1	7112.16010
CYL 20 x 030 / ER 20	2620.12010	34	20	30	36.5	M 12 x 1	–	7112.20010
CYL 20 x 060 / ER 20	2620.12030	34	20	60	36.5	M 12 x 1	–	7112.20010
CYL 20 x 050 / ER 25	2620.12520	42	20	50	47	M 12 x 1	–	7111.25000
CYL 20 x 100 / ER 25	2620.12560	42	20	100	47	M 12 x 1	–	7111.25000
CYL 20 x 050 / ER 32	2620.13220	50	20	50	54	M 12 x 1	–	7111.32000
CYL 20 x 100 / ER 32	2620.13260	50	20	100	54	M 12 x 1	–	7111.32000
CYL 22 [mm]								
CYL 22" x 100 / ER 25	8020.22000	42	22	100	47	MX 12 x 1	–	7111.25000
CYL 25 [mm]								
CYL 25 x 050 / ER 25	2625.12520	42	25	50	47	M 18 x 1.5	–	7111.25000
CYL 25 x 100 / ER 25	2625.12560	42	25	100	47	M 18 x 1.5	–	7111.25000
CYL 25 x 050 / ER 32	2625.13220	50	25	50	54	M 18 x 1.5	–	7111.32000
CYL 25 x 050 / ER 40	2625.14020	63	25	50	60	M 18 x 1.5	–	7111.40000

Included in delivery: Colletholder, Hi-Q® / ER clamping nut and back-up screw. Accessories are not included in delivery.

CYL / ER colletholder

		Dimensions [mm]						Accessory
Type	**Part no.**	**D**	**D1 h6**	**L**	**L1**	**G1**	**G2**	**Wrench**
CYL 1 [inch]								
CYL 1" x 100 / ER 20	2625.12061	34	25.4	100	39.5	M 14 x 1	–	7112.20010
CYL 1" x 050 / ER 25	2625.12521	42	25.4	50	47	M 18 x 1.5	–	7111.25000
CYL 1" x 100 / ER 25	2625.12561	42	25.4	100	47	M 18 x 1.5	–	7111.25000
CYL 1" x 050 / ER 32	2625.13221	50	25.4	50	53	M 18 x 1.5	–	7111.32000
CYL 1" x 050 / ER 40	2625.14021	63	25.4	50	60	M 18 x 1.5	–	7111.40000
CYL 30 [mm]								
CYL 30 x 050 / ER 25	2630.12520	42	30	50	42	M 18 x 1.5	–	7111.25000
CYL 30 x 050 / ER 32	2630.13220	50	30	50	53	M 18 x 1.5	–	7111.32000
CYL 1 1/4 [inch]								
CYL 1 1/4" x 060 / ER 32	2632.13231	50	31.75	60	53	M 22 x 1.5	–	7111.32000

Included in delivery: Colletholder, Hi-Q® / ER clamping nut and back-up screw. Accessories are not included in delivery.

CYL / ER

Expert advice

For additional technical drawings and details, see the REGO-FIX website at www.rego-fix.com

CYL / ERM colletholders (mini nut)

CYL / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Slip-off proof	Accessory Wrench
CYL 6 [mm]									
CYL 6 x 045 / ERM 11	2606.21120	16	6	45	26.5	–	–	–	7113.11000
CYL 6 x 045 / ERMX 11	4606.21120	16	6	45	26.5	–	–	•	7118.11000
CYL 7 [mm]									
CYL 7 x 045 / ERM 11	2607.21120	16	7	45	26.5	–	–	–	7113.11000
CYL 7 x 045 / ERMX 11	4607.21120	16	7	45	26.5	–	–	•	7118.11000
CYL 8 [mm]									
CYL 8 x 080 / ERM 8	2608.20850	12	8	80	26	M 5	–	–	7113.08000
CYL 8 x 080 / ERMX 8	4608.20850	12	8	80	26	M 5	–	•	7118.08000
CYL 8 x 056 / ERM 11	2608.21130	16	8	56	26.5	M 5	–	–	7113.11000
CYL 8 x 056 / ERMX 11	4608.21130	16	8	56	26.5	M 5	–	•	7118.11000
CYL 3/8 [inch]									
CYL 3/8" x 070 / ERM 8	2609.20841	12	9.525	70	23	M 5	–	–	7113.08000
CYL 3/8" x 070 / ERMX 8	4609.20841	12	9.525	70	23	M 5	–	•	7118.08000
CYL 10 [mm]									
CYL 10 x 060 / ERM 16	2610.21630	22	10	60	38.5	M 5	–	–	7113.16000
CYL 10 x 060 / ERMX 16	4610.21630	22	10	60	38.5	M 5	–	•	7118.16000
CYL 12 [mm]									
CYL 12 x 080 / ERM 8	2612.20850	12	12	80	17	M 5	–	–	7113.08000
CYL 12 x 080 / ERMX 8	4612.20850	12	12	80	17	M 5	–	•	7118.08000
CYL 12 x 080 / ERM 16	2612.21650	22	12	80	38.5	M 5	–	–	7113.16000
CYL 12 x 080 / ERMX 16	4612.21650	22	12	80	38.5	M 5	–	•	7118.16000
CYL 1/2 [inch]									
CYL 1/2" x 140 / ERM 11	2613.21191	16	12.7	140	29.5	M 6	–	–	7113.11000
CYL 1/2" x 140 / ERMX 11	4613.21191	16	12.7	140	29.5	M 6	–	•	7118.11000
CYL 1/2" x 140 / ERM 16	2613.21691	22	12.7	140	37	M 6	–	–	7113.16000
CYL 1/2" x 140 / ERMX 16	4613.21691	22	12.7	140	37	M 6	–	•	7118.16000

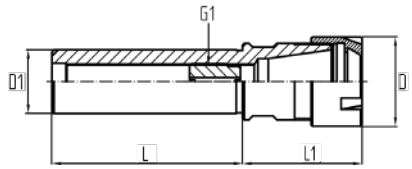
Included in delivery: Colletholder, Hi-Q® / ERM or Hi-Q® / ERMX clamping nut and back-up screw. Accessories are not included in delivery.

CYL / ERM colletholders (mini nut)

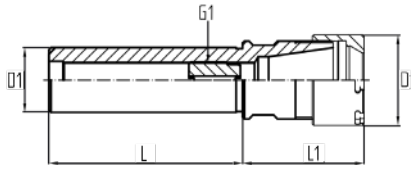
CYL / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Slip-off proof	Accessory Wrench
CYL 16 [mm]									
CYL 16 x 150 / ERM 11	2616.21190	16	16	150	21	M 8 x 1	–	–	7113.11000
CYL 16 x 150 / ERMX 11	4616.21190	16	16	150	21	M 8 x 1	–	•	7118.11000
CYL 16 x 100 / ERM 20	2616.22060	28	16	100	42.5	M 8 x 1	–	–	7113.20000
CYL 16 x 100 / ERMX 20	4616.22060	28	16	100	42.5	M 8 x 1	–	•	7118.20000
CYL 5/8 [inch]									
CYL 5/8" x 150 / ERM 11	2616.21191	16	15.875	150	19.5	M 8 x 1	–	–	7113.11000
CYL 5/8" x 150 / ERMX 11	4616.21191	16	15.875	150	19.5	M 8 x 1	–	•	7118.11000
CYL 3/4 [inch]									
CYL 3/4" x 155 / ERM 16	2619.21691	22	19.05	155	26.5	M 12 x 1	–	–	7113.16000
CYL 3/4" x 155 / ERMX 16	4619.21691	22	19.05	155	26.5	M 12 x 1	–	•	7118.16000
CYL 3/4" x 100 / ERM 25	2619.22561	35	19.05	100	47	M 12 x 1	–	–	7113.25000
CYL 3/4" x 100 / ERMX 25	4619.22561	35	19.05	100	47	M 12 x 1	–	•	7118.25000
CYL 20 [mm]									
CYL 20 x 155 / ERM 16	2620.21690	22	20	155	25.5	M 11 x 1	M 12 x 1	–	7113.16000
CYL 20 x 155 / ERMX 16	4620.21690	22	20	155	25.5	M 11 x 1	M 12 x 1	•	7118.16000
CYL 25 [mm]									
CYL 25 x 155 / ERM 20	2625.22090	28	25	155	27	M 14 x 1	–	–	7113.20000
CYL 25 x 155 / ERMX 20	4625.22090	28	25	155	27	M 14 x 1	–	•	7118.20000
CYL 1 [inch]									
CYL 1" x 155 / ERM 20	2625.22091	28	25.4	155	27	M 14 x 1	–	–	7113.20000
CYL 1" x 155 / ERMX 20	4625.22091	28	25.4	155	27	M 14 x 1	–	•	7118.20000

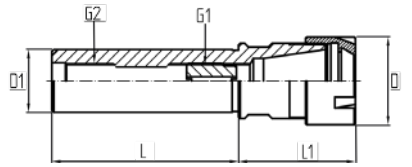
Included in delivery: Colletholder, Hi-Q® / ERM or Hi-Q® / ERMX clamping nut and back-up screw. Accessories are not included in delivery.



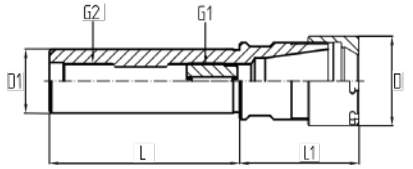
CYL / ERM



CYL / ERMX



CYL / ERM with G2



CYL / ERMX with G2

CYLF / ERM colletholders (mini nut)

CYLF / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Slip-off proof	Accessory Wrench
CYLF 12 [mm]									
CYLF 12 x 043 / ERM 8	2612.20822	12	12	43	17	M 5	–	–	7113.08000
CYLF 12 x 043 / ERMX 8	4612.20822	12	12	43	17	M 5	–	•	7118.08000
CYLF 5/8 [inch]									
CYLF 5/8" x 043 / ERM 8	2616.20811	12	15.875	43	15.5	M 5	–	–	7113.08000
CYLF 5/8" x 043 / ERMX 8	4616.20811	12	15.875	43	15.5	M 5	–	•	7118.08000
CYLF 16 [mm]									
CYLF 16 x 038 / ERM 11	2616.21112	16	16	38	19.5	M 8 x 1	–	–	7113.11000
CYLF 16 x 038 / ERMX 11	4616.21112	16	16	50	16	M 8 x 1	–	•	7118.11000
CYLF 16 x 050 / ERM 11	2616.21122	16	16	50	16	M 8 x 1	–	–	7113.11000
CYLF 16 x 050 / ERMX 11	4616.21122	16	16	50	16	M 8 x 1	–	•	7118.11000
CYFL 16 x 140 / ERM 11	2616.21192	16	16	140	19.5	M 8 x 1	–	–	7113.11000
CYFL 16 x 140 / ERMX 11	4616.21192	16	16	140	19.5	M 8 x 1	–	•	7118.11000
CYLF 16 x 035 / ERM 16	2616.21612	22	16	35	36	M 8 x 1	–	–	7113.16000
CYLF 16 x 035 / ERMX 16	4616.21612	22	16	35	36	M 8 x 1	–	•	7118.16000
CYLF 3/4 [inch]									
CYLF 3/4" x 115 / ERM 11	2619.21173	16	19.05	115	19.5	M 8 x 1	–	–	7113.11000
CYLF 3/4" x 115 / ERMX 11	4619.21173	16	19.05	115	19.5	M 8 x 1	–	•	7118.11000
CYLF 3/4" x 038 / ERM 16	2619.21613	22	19.05	38	27.5	M 12 x 1	–	–	7113.16000
CYLF 3/4" x 038 / ERMX 16	4619.21613	22	19.05	38	27.5	M 12 x 1	–	•	7118.16000
CYLF 3/4" x 050 / ERM 16	2619.21623	22	19.05	50	25	M 12 x 1	–	–	7113.16000
CYLF 3/4" x 050 / ERMX 16	4619.21623	22	19.05	50	25	M 12 x 1	–	•	7118.16000
CYLF 3/4" x 070 / ERM 16	2619.21643	22	19.05	70	29.5	M 12 x 1	–	–	7113.16000
CYLF 3/4" x 070 / ERMX 16	4619.21643	22	19.05	70	29.5	M 12 x 1	–	•	7118.16000
CYLF 3/4" x 120 / ERM 16	2619.21683	22	19.05	120	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 3/4" x 120 / ERMX 16	4619.21683	22	19.05	120	27.5	M 11 x 1	M 12 x 1	•	7118.16000
CYLF 3/4" x 140 / ERM 16	2619.21693	22	19.05	140	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 3/4" x 140 / ERMX 16	4619.21693	22	19.05	140	27.5	M 11 x 1	M 12 x 1	•	7118.16000

Included in delivery: Colletholder, Hi-Q® / ERM or Hi-Q® / ERMX clamping nut and back-up screw. Accessories are not included in delivery.

Expert advice

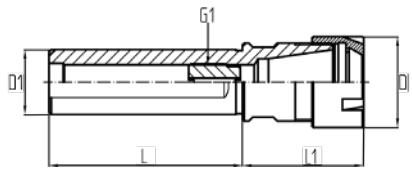
For additional technical drawings and details, see the REGO-FIX website at www.rego-fix.com

CYLF / ERM colletholders (mini nut)

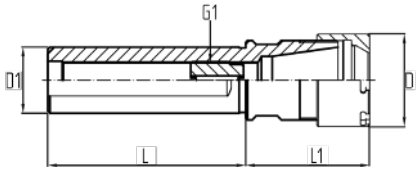
CYLF / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Slip-off proof	Accessory Wrench
CYLF 20 [mm]									
CYLF 20 x 060 / ERM 11	2620.21132	16	20	60	19.5	M 8 x 1	–	–	7113.11000
CYLF 20 x 060 / ERMX 11	4620.21132	16	20	60	19.5	M 8 x 1	–	•	7118.11000
CYLF 20 x 038 / ERM 16	2620.21612	22	20	38	26.5	M 12 x 1	–	–	7113.16000
CYLF 20 x 038 / ERMX 16	4620.21612	22	20	38	26.5	M 12 x 1	–	•	7118.16000
CYLF 20 x 050 / ERM 16	2620.21622	22	20	50	27.5	M 12 x 1	–	–	7113.16000
CYLF 20 x 050 / ERMX 16	4620.21622	22	20	50	27.5	M 12 x 1	–	•	7118.16000
CYLF 20 x 070 / ERM 16	2620.21642	22	20	70	27.5	M 12 x 1	–	–	7113.16000
CYLF 20 x 070 / ERMX 16	4620.21642	22	20	70	27.5	M 12 x 1	–	•	7118.16000
CYLF 20 x 120 / ERM 16	2620.21682	22	20	120	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 20 x 120 / ERMX 16	4620.21682	22	20	120	27.5	M 11 x 1	M 12 x 1	•	7118.16000
CYLF 20 x 140 / ERM 16	2620.21692	22	20	140	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 20 x 140 / ERMX 16	4620.21692	22	20	140	27.5	M 11 x 1	M 12 x 1	•	7118.16000
CYLF 22 [mm]									
CYLF 22 x 038 / ERM 16	2622.21612	22	22	38	27.5	M 12 x 1	–	–	7113.16000
CYLF 22 x 038 / ERMX 16	4622.21612	22	22	38	27.5	M 12 x 1	–	•	7118.16000
CYLF 22 x 070 / ERM 16	2622.21642	22	22	70	27.5	M 12 x 1	–	–	7113.16000
CYLF 22 x 070 / ERMX 16	4622.21642	22	22	70	27.5	M 12 x 1	–	•	7118.16000
CYLF 22 x 100 / ERM 16	2622.21662	22	22	100	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 22 x 100 / ERMX 16	4622.21662	22	22	100	27.5	M 11 x 1	M 12 x 1	•	7118.16000
CYLF 22 x 080 / ERM 20	2622.22052	28	22	80	39	M 12 x 1	–	–	7113.20000
CYLF 22 x 080 / ERMX 20	4622.22052	28	22	80	39	M 12 x 1	–	•	7118.20000
CYLF 22 x 070 / ERM 25	2622.22542	35	22	70	47	M 12 x 1	–	–	7113.25000
CYLF 22 x 070 / ERMX 25	4622.22542	35	22	70	47	M 12 x 1	–	•	7118.25000

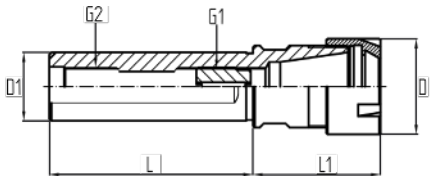
Included in delivery: Colletholder, Hi-Q® / ERM or Hi-Q® / ERMX clamping nut and back-up screw. Accessories are not included in delivery.



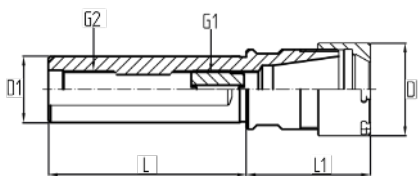
CYLF / ERM



CYLF / ERMX



CYLF / ERM with G2



CYLF / ERMX with G2

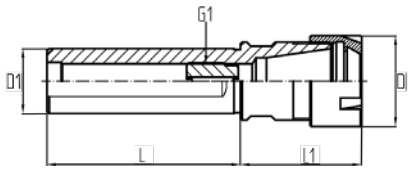
CYLF / ERM colletholders (mini nut)

CYLF / ERMX colletholders with intRlox® (slip-off proof mini nut)

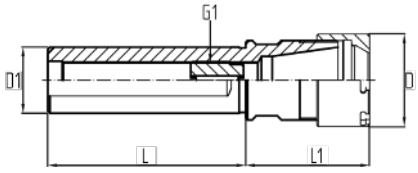
Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G1	G2	Slip-off proof	Accessory Wrench
CYLF 25 [mm]									
CYLF 25 x 065 / ERM 16	2625.21642	22	25	65	27.5	M 12 x 1	–	–	7113.16000
CYLF 25 x 065 / ERMX 16	4625.21642	22	25	65	27.5	M 12 x 1	–	•	7118.16000
CYLF 25 x 100 / ERM 20	2625.22062	28	25	100	28	M 14 x 1	–	–	7113.20000
CYLF 25 x 100 / ERMX 20	4625.22062	28	25	100	28	M 14 x 1	–	•	7118.20000
CYLF 25 x 154 / ERM 20	2625.22002	28	25	154	28	M 14 x 1	–	–	7113.20000
CYLF 25 x 154 / ERMX 20	4625.22002	28	25	154	28	M 14 x 1	–	•	7118.20000
CYLF 25 x 075 / ERM 25	2625.22552	35	25	75	47	M 14 x 1	–	–	7113.25000
CYLF 25 x 075 / ERMX 25	4625.22552	35	25	75	47	M 14 x 1	–	•	7118.25000
CYLF 25 x 145 / ERM 25	2625.22592	35	25	145	36	M 14 x 1	–	–	7113.25000
CYLF 25 x 145 / ERMX 25	4625.22592	35	25	145	36	M 14 x 1	–	•	7118.25000
CYLF 1 [inch]									
CYLF 1" x 033 / ERM 16	2625.21613	22	25.4	33	28	M 12 x 1	–	–	7113.16000
CYLF 1" x 033 / ERMX 16	4625.21613	22	25.4	33	28	M 12 x 1	–	•	7118.16000
CYLF 1" x 065 / ERM 16	2625.21643	22	25.4	65	27.5	M 12 x 1	–	–	7113.16000
CYLF 1" x 065 / ERMX 16	4625.21643	22	25.4	65	27.5	M 12 x 1	–	•	7118.16000
CYLF 1" x 075 / ERM 16	2625.21653	22	25.4	75	27.5	M 12 x 1	–	–	7113.16000
CYLF 1" x 075 / ERMX 16	4625.21653	22	25.4	75	27.5	M 12 x 1	–	•	7118.16000
CYLF 1" x 100 / ERM 16	2625.21663	22	25.4	100	27.5	M 11 x 1	M 12 x 1	–	7113.16000
CYLF 1" x 100 / ERMX 16	4625.21663	22	25.4	100	27.5	M 11 x 1	M 12 x 1	•	7118.16000
CYLF 1" x 100 / ERM 20	2625.22063	28	25.4	100	27.5	M 14 x 1	–	–	7113.20000
CYLF 1" x 100 / ERMX 20	4625.22063	28	25.4	100	27.5	M 14 x 1	–	•	7118.20000
CYLF 1" x 140 / ERM 20	2625.22093	28	25.4	140	27.5	M 14 x 1	–	–	7113.20000
CYLF 1" x 140 / ERMX 20	4625.22093	28	25.4	140	27.5	M 14 x 1	–	•	7118.20000
CYLF 32 [mm]									
CYLF 32 x 070 / ERM 25	2632.22542	35	32	70	30	M 18 x 1.5	–	–	7113.25000
CYLF 32 x 070 / ERMX 25	4632.22542	35	32	70	30	M 18 x 1.5	–	•	7118.25000

Included in delivery: Colletholder, Hi-Q® / ERM or Hi-Q® / ERMX clamping nut and back-up screw. Accessories are not included in delivery.

For holders with G2 threading, see page 10 for drawings.



CYLF / ERM



CYLF / ERMX

CYL / ER NC colletholders

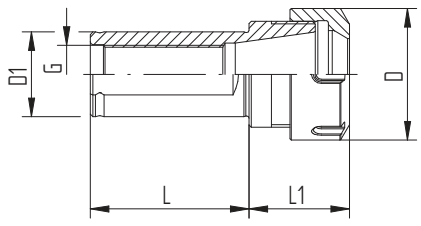
		Dimensions [mm]					Accessory
Type	**Part no.**	**D**	**D1 h6**	**L**	**L1**	**G**	**Wrench**
CYL 1 1/4 [inch]							
CYL 1 1/4" x 060 / ER NC 25	2632.12533	42	31.75	60	32	M 18 x 1.5	7111.25000
CYL 1 1/4" x 060 / ER NC 32	2632.13233	50	31.75	60	38	M 22 x 1.5	7111.32000
CYL 32 [mm]							
CYL 32 x 060 / ER NC 25	2632.12532	42	32	60	32	M 18 x 1.5	7111.25000
CYL 32 x 060 / ER NC 32	2632.13232	50	32	60	38	M 22 x 1.5	7111.32000
CYL 1 1/2 [inch]							
CYL 1 1/2" x 080 / ER NC 32	2638.13253	50	38.1	80	33	M 22 x 1.5	7111.32000
CYL 1 1/2" x 075 / ER NC 40	2638.14053	63	38.1	75	55	M 22 x 1.5	7111.40000
CYL 40 [mm]							
CYL 40 x 080 / ER NC 32	2640.13252	50	40	80	39	M 22 x 1.5	7111.32000
CYL 40 x 075 / ER NC 40	2640.14052	63	40	70	55	M 22 x 1.5	7111.40000

Included in delivery: Colletholder, Hi-Q® / ER clamping nut and backup screw. Accessories are not included in delivery.

CYL / ER NC

Expert advice

For additional technical drawings and details, see the REGO-FIX website at www.rego-fix.com



CYL / ER NC

CYDF/ERM colletholders (mini nut)

CYDF / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G	Slip-off proof	Accessory Wrench
CYDF 12 [mm]								
CYDF 12 x 015 / ERM 8	2612.20804	12	12	15	46	–	–	7113.08000
CYDF 12 x 015 / ERMX 8	4612.20804	12	12	15	46	–	•	7118.08000
CYDF 12 x 025 / ERM 8	2612.20814	12	12	25	56	–	–	7113.08000
CYDF 12 x 025 / ERMX 8	4612.20814	12	12	25	56	–	•	7118.08000
CYDF 5/8 [inch]								
CYDF 5/8" x 015 / ERM 8	2616.20805	12	15.875	15	46	–	–	7113.08000
CYDF 5/8" x 015 / ERMX 8	4616.20805	12	15.875	15	46	–	•	7118.08000
CYDF 5/8" x 025 / ERM 8	2616.20895	12	15.875	25	56	–	–	7113.08000
CYDF 5/8" x 025 / ERMX 8	4616.20895	12	15.875	25	56	–	•	7118.08000
CYDF 16 [mm]								
CYDF 16 x 040 / ERM 11	2616.21114	16	16	40	79	–	–	7113.11000
CYDF 16 x 040 / ERMX 11	4616.21114	16	16	40	79	–	•	7118.11000
CYDF 16 x 050 / ERM 11	2616.21124	16	16	50	89	–	–	7113.11000
CYDF 16 x 050 / ERMX 11	4616.21124	16	16	50	89	–	•	7118.11000
CYDF 3/4 [inch]								
CYDF 3/4" x 040 / ERM 11	2619.21125	16	19.05	40	79	–	–	7113.11000
CYDF 3/4" x 040 / ERMX 11	4619.21125	16	19.05	40	79	–	•	7118.11000
CYDF 3/4" x 070 / ERM 11	2619.21145	16	19.05	70	109	–	–	7113.11000
CYDF 3/4" x 070 / ERMX 11	4619.21145	16	19.05	70	109	–	•	7118.11000
CYDF 3/4" x 090 / ERM 11	2619.21165	16	19.05	90	129	–	–	7113.11000
CYDF 3/4" x 090 / ERMX 11	4619.21165	16	19.05	90	129	–	•	7118.11000
CYDF 3/4" x 055 / ERM 16	2619.21635	22	19.05	55	107	–	–	7113.16000
CYDF 3/4" x 055 / ERMX 16	4619.21635	22	19.05	55	107	–	•	7118.16000
CYDF 20 [mm]								
CYDF 20 x 030 / ERM 11	2620.21114	16	20	30	69	–	–	7113.11000
CYDF 20 x 030 / ERMX 11	4620.21114	16	20	30	69	–	•	7118.11000
CYDF 20 x 050 / ERM 11	2620.21124	16	20	50	89	–	–	7113.11000
CYDF 20 x 050 / ERMX 11	4620.21124	16	20	50	89	–	•	7118.11000
CYDF 20 x 055 / ERM 16	2620.21634	22	20	55	107	–	–	7113.16000
CYDF 20 x 055 / ERMX 16	4620.21634	22	20	55	107	–	•	7118.16000

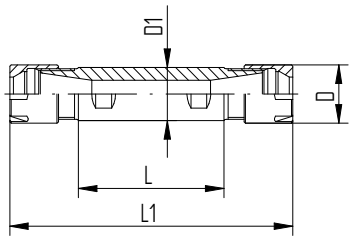
Included in delivery: Colletholder and two Hi-Q® / ERM or Hi-Q® / ERMX clamping nuts. Accessories are not included in delivery.

CYDF / ERM colletholders (mini nut)

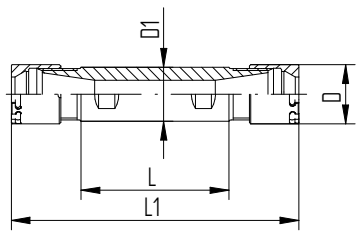
CYDF / ERMX colletholders with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1 h6	L	L1	G	Accessory proof	Wrench
CYDF 22 [mm]								
CYDF 22 x 150 / ERM 11	2622.21194	16	22	150	189	–	–	7113.11000
CYDF 22 x 150 / ERMX 11	4622.21194	16	22	150	189	–	•	7118.11000
CYDF 22 x 040 / ERM 16	2622.21624	22	22	40	80	–	–	7113.16000
CYDF 22 x 040 / ERMX 16	4622.21624	22	22	40	80	–	•	7118.16000
CYDF 22 x 055 / ERM 16	2622.21634	22	22	55	110	–	–	7113.16000
CYDF 22 x 055 / ERMX 16	4622.21634	22	22	55	110	–	•	7118.16000
CYDF 22 x 075 / ERM 16	2622.21654	22	22	75	130	–	–	7113.16000
CYDF 22 x 075 / ERMX 16	4622.21654	22	22	75	130	–	•	7118.16000
CYDF 25 [mm]								
CYDF 25 x 062 / ERM 16	2625.21634	22	25	62	117	–	–	7113.16000
CYDF 25 x 062 / ERMX 16	4625.21634	22	25	62	117	–	•	7118.16000
CYDF 1 [inch]								
CYDF 1" x 030 / ERM 16	2625.21615	22	25.4	30	86	–	–	7113.16000
CYDF 1" x 030 / ERMX 16	4625.21615	22	25.4	30	86	–	•	7118.16000
CYDF 1" x 062 / ERM 16	2625.21635	22	25.4	62	117	–	–	7113.16000
CYDF 1" x 062 / ERMX 16	4625.21635	22	25.4	62	117	–	•	7118.16000
CYDF 32 [mm]								
CYDF 32 x 055 / ERM 20	2632.22034	28	32	55	110	–	–	7113.20000
CYDF 32 x 055 / ERMX 20	4632.22034	28	32	55	110	–	•	7118.20000
CYDF 32 x 075 / ERM 20	2632.22054	28	32	75	130	–	–	7113.20000
CYDF 32 x 075 / ERMX 20	4632.22054	28	32	75	130	–	•	7118.20000

Included in delivery: Colletholder and two Hi-Q® / ERM or Hi-Q® / ERMX clamping nuts. Accessories are not included in delivery.



CYDF / ERM



CYDF / ERMX

ER floating chucks

When using reamers on lathes it is often necessary to compensate for axis error between the chuck and the bore to be machined. This error can be corrected by using a self-centering floating chuck.

PH / PHC / PHC-C/MPH

Features and benefits

Adjustable floating resistance

Continuously adjustable between auto-centering and free-floating. No restriction of the floating movement.

Adjustment for tool weight

Optimal setup by adjustment of floating resistance is possible.

Vertical and horizontal application

Adjustable self-centering keeps the tool at the center of the floating chuck, even in the horizontal position. Prevents chatter marks and extends tool life.

Combined ball- and friction-bearing

Combined ball and friction-bearing for easy floating:
// Ball bearing for smooth reaming at low load applications
// Friction-bearing to withstand high pressures at high load applications

Double sealing against dirt

Prevents coolant and chips from entering the floating chuck.

Excellent bore quality

Only parallel floatation of tool possible.

Floating chuck PH / ER

Features REGO-FIX floating chucks are excellent tools for reaming and tapping:
// They are specially designed so the tool is self-centering in a vertical and horizontal position
// The self-centering feature allows very precise positioning of the reaming or tapping tool. This is especially important in horizontal applications, where on ordinary floating chucks the weight of the tool tends to dislocate the tool from the rotational axis
// The float is always parallel to the rotational axis and the rotation is both clockwise and counter clockwise

Floating chuck PHC / ER for coolant through tools

Features Floating chucks PHC / ER for coolant through tools are especially designed for internal cooling and have the same advantages as the PH / ER floating chucks.

Floating chuck PHC-C / ER REGO-FIX CAPTO

Features These REGO-FIX CAPTO floating chucks are manufactured with polygon interface – licensed by Sandvik Coromant.

Floating chuck MPH / ERMX for tight spaces

Application REGO-FIX MPH / ERMX floating chucks are an efficient solution for tight space applications.

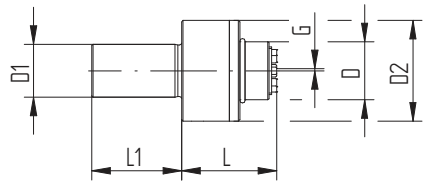
PH floating chucks for non coolant through tools

		Dimensions [mm]						Accessory
Type	Part no.	D	D1 h6	D2	L	L1	G	Wrench
PH 5/8 [inch]								
PH 5/8" / ER 11	2616.91102	22	15.88	38	36	34	0.8	7117.11000
PH 16 [mm]								
PH 16 / ER 11	2616.91100	22	16	38	36	34	0.8	7117.11000
PH 3/4 [inch]								
PH 3/4" / ER 11	2619.91102	22	19.05	38	36	34	0.8	7117.11000
PH 20 [mm]								
PH 20 / ER 11	2620.91100	22	20	38	36	34	0.8	7117.11000
PH 22 [mm]								
PH 22 / ER 11	2622.91100	22	22	38	36	34	0.8	7117.11000

Included in delivery: Floating holder, Hi-Q® / ER clamping nut and wrench.

Expert advice

For additional technical drawings and details, see the REGO-FIX website at www.rego-fix.com



PH / ER

PHC floating chucks for coolant through tools

Type	Part no.	Dimensions [mm] D	D1 h6	D2	L	L1	G	Accessory Wrench
PHC 5/8 [inch]								
PHC 5/8" / ER 20	2616.92004	33	15.88	56	53.5	38	1	7117.20000
PHC 16								
PHC 16 / ER 20	2616.92003	33	16	56	53.5	38	1	7117.20000
PHC 3/4 [inch]								
PHC 3/4" / ER 20	2619.92004	33	19.05	56	53.5	38	1	7117.20000
PHC 3/4" / ER 32	2619.93204	46	19.05	70	64.5	46	1.5	7117.32000
PHC 20 [mm]								
PHC 20 / ER 20	2620.92003	33	20	56	53.5	38	1	7117.20000
PHC 20 / ER 32	2620.93203	46	20	70	64.5	46	1.5	7117.32000
PHC 22 [mm]								
PHC 22 / ER 20	2622.92003	33	22	56	53.5	38	1	7117.20000
PHC 22 / ER 32	2622.93203	46	22	70	64.5	46	1.5	7117.32000
PHC 25 [mm]								
PHC 25 / ER 20	2625.92003	33	25	56	53.5	38	1	7117.20000
PHC 25 / ER 32	2625.93203	46	25	70	64.5	46	1.5	7117.32000
PHC 1 [inch]								
PHC 1" / ER 20	2625.92004	33	25.4	56	53.5	38	1	7117.20000
PHC 1" / ER 32	2625.93204	46	25.4	70	64.5	46	1.5	7117.32000
PHC 1 1/4 [inch]								
PHC 1 1/4" / ER 32	2632.93204	46	31.75	70	64.5	46	1.5	7117.32000
PHC 32 [mm]								
PHC 32 / ER 32	2632.93203	46	32	70	64.5	46	1.5	7117.32000
PHC 1 3/4 [inch]								
PHC 1 3/4" / ER 32	2644.93204	46	44.45	70	64.5	46	1.5	7117.32000

Included in delivery: Floating holder, Hi-Q® / ERAX clamping nut, wrench and adjusting key.

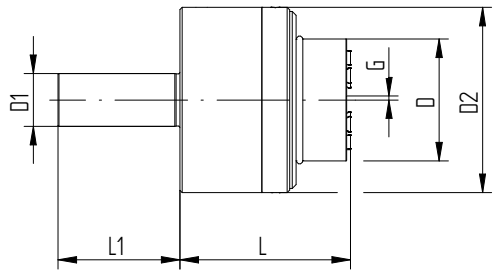
Expert advice

When using coolant through tools please order Hi-Q® / ERAXC clamping nuts and the corresponding sealing disks.

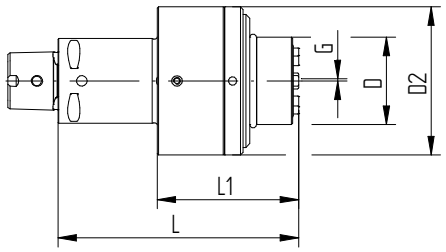
PHC-C floating chucks for coolant through tools with REGO-FIX CAPTO interface

		Dimensions [mm]					Accessory
Type	**Part no.**	**D**	**D2**	**L**	**L1**	**G**	**Wrench**
PHC-C3							
PHC-C3 / ER 20	2803.92003	33	56	91	53.5	0.8	7117.20000
PHC-C4							
PHC-C4 / ER 20	2804.92003	33	56	91	56.5	0.8	7117.20000
PHC-C4 / ER 32	2804.93203	46	70	100	64	0.8	7117.32000

Included in delivery: Floating holder, Hi-Q® / ERAX clamping nut and wrench.



PHC / ER



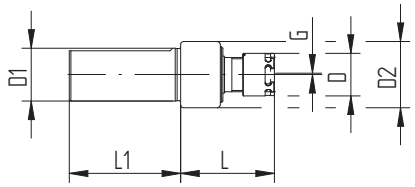
Certified REGO-FIX CAPTO – licensed by Sandvik Coromant – is manufactured at REGO-FIX Switzerland under license according to CAPTO specifications.

MPH mini floating chucks with intRlox® (slip-off proof mini nut)

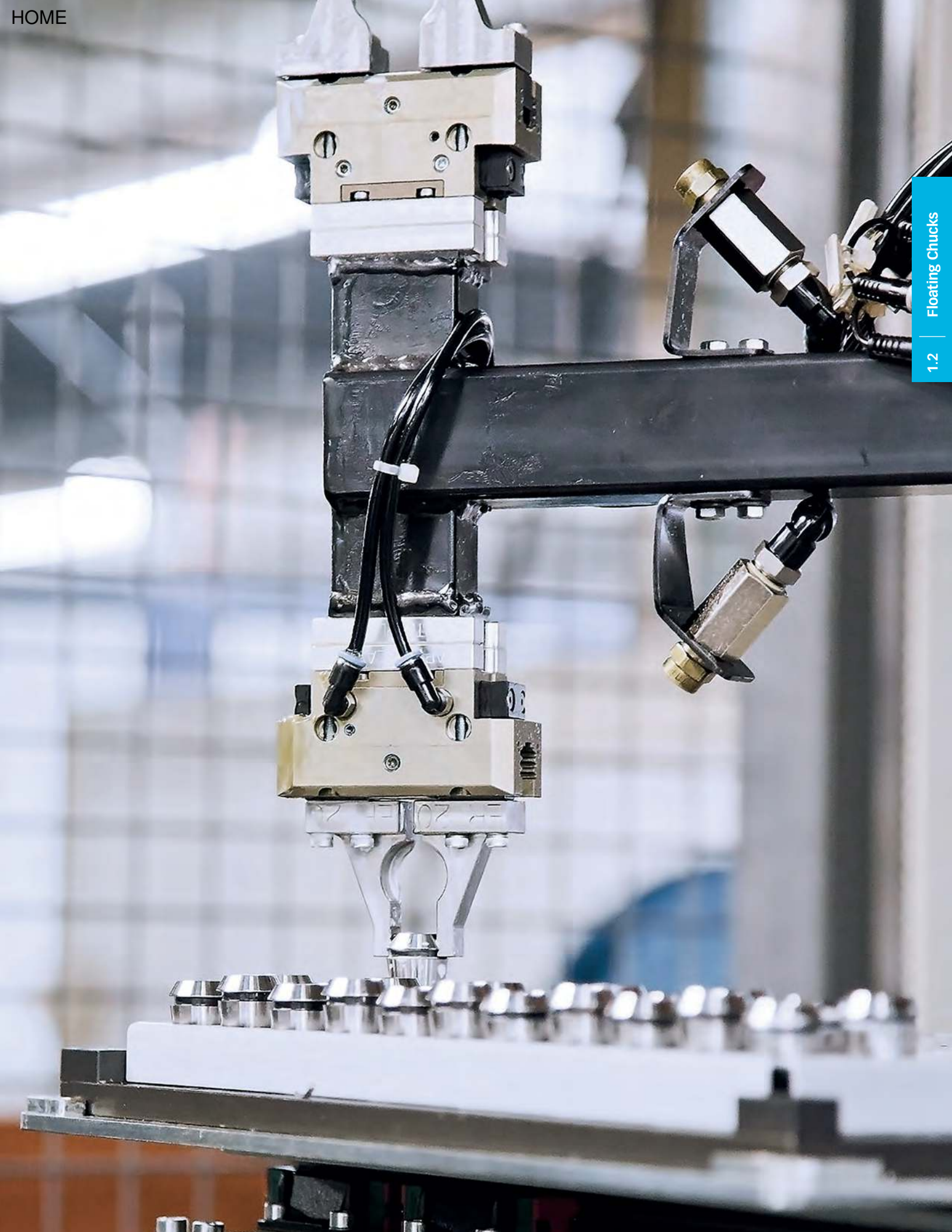
		Dimensions [mm]						Accessory
Type	Part no.	D	D1 h6	D2	L	L1	G	Wrench
MPH 8 [mm]								
MPH 8 / ERMX 11	4608.91107	16	8	25	35.5	42	0.5	7118.11000
MPH 10 [mm]								
MPH 10 / ERMX 11	4610.91107	16	10	25	35.5	42	0.5	7118.11000
MPH 16 [mm]								
MPH 16 / ERMX 11	4616.91107	16	16	25	35.5	42	0.5	7118.11000
MPH 3/4"								
MPH 3/4" / ERMX 11	4619.91108	16	19.05	25	35.5	70	0.5	7118.11000
MPH 20 [mm]								
MPH 20 / ERMX 11	4620.91107	16	20	25	35.5	42	0.5	7118.11000
MPH 22 [mm]								
MPH 22 / ERMX 11	4622.91107	16	22	25	35.5	42	0.5	7118.11000
MPH 25 [mm]								
MPH 25 / ERMX 11	4625.91107	16	25	25	35.5	42	0.5	7118.11000
MPH 1 [inch]								
MPH 1" / ERMX 11	4625.91108	16	25.4	25	35.5	42	0.5	7118.11000

Included in delivery: Floating holder, Hi-Q® / ERMX clamping nut and wrench.

MPH



MPH / ERMX



Collet reductions

ER / ERM ERM / ERM ER / ERMX ERMX / ERMX

Features and benefits

Surface finish max. Ra 0.25

Higher clamping force and higher transferable torque.

Applications

The collet reductions are mainly used on Swiss machines with live tooling.

Quick change system

Best suited for quick tool change as the cutting tools can be preinstalled.

Length presetting

Tools can be preset outside of the machine.

Minimal external dimensions

Achieve minimal external dimensions by using Hi-Q® / ERM or Hi-Q® / ERMX clamping nuts.

Expert advice

We recommend tightening the clamping nuts using a torque wrench.

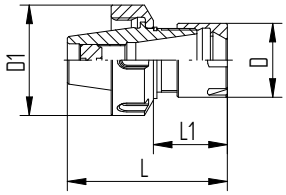
For tightening torque recommendations, please refer to page 112.

Collet reductions

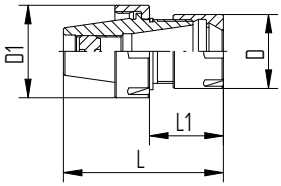
ER / ERM | ERM / ERM

Type	Part no.	Dimensions [mm] D	D1	L	L1	Accessory Wrenches
ER 11						
ER 11 / ERM 8	7162.11080	12	19	33	16.5	7112.11010 / 7113.08000
ER 16						
ER 16 / ERM 11	7162.16110	16	28	42.5	18.5	7112.16010 / 7113.11000
ER 20						
ER 20 / ERM 11	7162.20110	16	34	42	16.5	7112.20010 / 7113.11000
ER 20 / ERM 16	7162.20160	22	34	55.5	28	7112.20010 / 7113.16000
ER 25						
ER 25 / ERM 11	7162.25110	16	42	54.5	16.5	7111.25000 / 7113.11000
ER 25 / ERM 16	7162.25160	22	42	60.5	28	7111.25000 / 7113.16000
ER 25 / ERM 20	7162.25200	28	42	60.5	28	7111.25000 / 7113.20000
ER 32						
ER 32 / ER 16	7160.32160	28	50	56	29.5	7111.32000 / 7112.16010
ER 32 / ER 20	7160.32200	34	50	69.5	32.5	7111.32000 / 7112.20010
ERM 11						
ERM 11 / ERM 8	7161.11080	12	16	33	16.5	7113.11000 / 7113.08000
ERM 16						
ERM 16 / ERM 11	7161.16110	16	23	42.5	18.5	7113.16000 / 7113.11000
ERM 20						
ERM 20 / ERM 16	7161.20160	22	28	55.5	28	7113.20000 / 7113.16000
ERM 25						
ERM 25 / ERM 11	7161.25110	16	35	54.5	22	7113.25000 / 7113.11000
ERM 25 / ERM 16	7161.25160	22	35	60.5	28	7113.25000 / 7113.16000
ERM 25 / ERM 20	7161.25200	28	35	60.5	28	7113.25000 / 7113.20000

Accessories are not included in delivery.



ER / ERM

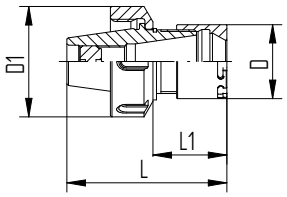


ERM / ERM

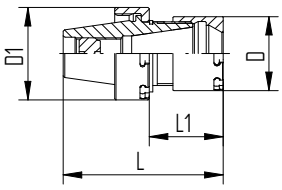
Collet reductions with intRlox® (slip-off proof mini nut)

Type	Part no.	Dimensions [mm] D	D1	L	L1	Accessory Wrenches
ER 11						
ER 11 / ERMX 8	7165.11080	12	19	33	16.5	7112.11010 / 7118.08000
ER 16						
ER 16 / ERMX 11	7165.16110	16	28	42.5	18.5	7112.16010 / 7118.11000
ER 20						
ER 20 / ERMX 11	7165.20110	16	34	42	16.5	7112.20010 / 7118.11000
ER 20 / ERMX 16	7165.20160	22	34	55.5	28	7112.20010 / 7118.16000
ER 25						
ER 25 / ERMX 11	7165.25110	16	42	54.5	16.5	7111.25000 / 7118.11000
ER 25 / ERMX 16	7165.25160	22	42	60.5	28	7111.25000 / 7118.16000
ER 25 / ERMX 20	7165.25200	28	42	60.5	28	7111.25000 / 7118.20000
ERMX 11						
ERMX 11 / ERMX 8	7164.11080	12	16	33	16.5	7118.11000 / 7118.08000
ERMX 16						
ERMX 16 / ERMX 11	7164.16110	16	23	42.5	18.5	7118.16000 / 7118.11000
ERMX 20						
ERMX 20 / ERMX 16	7164.20160	22	28	55.5	28	7118.20000 / 7118.16000
ERMX 25						
ERMX 25 / ERMX 11	7164.25110	16	35	54.5	22	7118.25000 / 7118.11000
ERMX 25 / ERMX 16	7164.25160	22	35	60.5	28	7118.25000 / 7118.16000
ERMX 25 / ERMX 20	7164.25200	28	35	60.5	28	7118.25000 / 7118.20000

Accessories are not included in delivery.



ER / ERMX



ERMX / ERMX

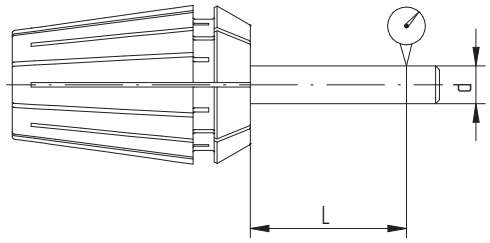
Micro-machining	Standard and ultraprecision	Metallic sealed	Collets for tapping	
ER-MB	ER standard / ER-UP	ER-DM	ER-GB	PCM ET1
page 29	page 30	page 39	page 43	page 47

Successful clamping since 1972

Combine our ER colletholders with our ER collets to ensure maximum precision and balance to maximize your tool life.

Experience the quality of the triangle The outstanding design paired with our experienced engineering make the ER products one of our most successful toolholding options. What you see is what you get: all our products bear the REGO-FIX triangle – our seal for outstanding Swiss quality.

Runout TIR of ER standard and ER-UP collets



Clamping diameter d [mm]			TIR max. [mm]		
			DIN 6499		
>	≤	L	ISO 15488 B	△ER std.	△ER-UP
1	1.6	6	0.015	0.01	0.005
1.6	3	10	0.015	0.01	0.005
3	6	16	0.015	0.01	0.005
6	10	25	0.015	0.01	0.005
10	18	40	0.02	0.01	0.005
18	26	50	0.02	0.01	0.005
26	36	60	0.025	0.01	0.005

Key advantages

Rely on the original

Wide clamping range

The slot design allows for a wide clamping range with a continuing best runout TIR.

Broad range of products

We offer sizes from ER 8 up to ER 50 and diameters from 0.0079"(0.2 mm) up to 1.4173" (36 mm).

Up to 20 % more clamping length

Improve your runout with up to 20 % more clamping length in smaller diameters.

Matched tooling system for best fit

The compatibility of the entire system results in maximum precision, balance and tool life.

Swiss quality standard
Our products marked Swiss made are manufactured at our headquarters in Tenniken, Switzerland.

Swiss quality collets for your production

Our wide product range offers the perfect collet for every application.

	 MB	 std.	 UP	 DM	 SG	 GB	 PCM ET1
	microbore	**standard**	**ultra-precision**	**metallic sealed**	**secuRgrip®**	**tapping collet**	**tapping collet**
Main machining use	micro-machining	all	high precision	internal cooling	heavy machining	rigid tapping	rigid tapping with length compensation
DIN ISO 15488: form ...	A	B	B	B	B	A	A
ER size	8 – 16	8 – 50	8 – 50	11 – 40	32 – 40	11 – 50	11 – 40
Shaft Diameter range (mm)	0.2 – 0.9	1.0 – 36.0	1.0 – 36.0	3.0 – 26.0	10.0 – 16.0	2.5 – 32.0	1.4 – 17.0
Clamping range (mm) or tolerance	h7	1	1	0.5*	h6	h9	h9
Shaft Diameter range (inch)	0.0079 – 0.0354	0.0425 – 1.4173	0.0425 – 1.4173	0.1250 – 1.000	0.500 – 1.000	0.141 – 1.233	0.141 – 0.697
Clamping range (inch) or tolerance	h7	0.0394	0.0394	0.0197*	h6	h9	h9
Runout (TIR)	0.00024" (6 µm)	0.0004" (10 µm)	0.0002" (5 µm)	0.00024" (6 µm)	0.0002" (5 µm)	0.0004" (10 µm)	0.0004" (10 µm)
Rust protected	–	–	available on request	–	–	–	–
Metallic sealed	–	–	–	•	–	–	–
Internal square	–	–	–	–	–	•	•
Length compensation	–		–	–	–	–	•
secuRgrip® thread to prevent tool pullout	–	–	–	–	•	–	–
Collet-locking system	–	•	•	•*	•	•	–

** Does not apply for ER-DM collets with counterbore.*

Expert advice

Please note that DM collets are not compatible with Weldon or Whistle notch shafts.
To achieve internal cooling with Weldon or Whistle notch shafts, use the REGO-FIX sealing disks ER/DS with your REGO-FIX ER collet.

Need even better runout? With a total system runout TIR of ≤3 µm, our other system solutions powRgrip® and micRun® achieve even better runout results.
Learn more on www.rego-fix.com.

Finest quality deserves best treatment

Correct assembly increases your collet life and ensures low runout TIR.

Assembly instructions for ER and ER-UP collets

// Insert collet groove into the eccentric ring of the clamping nut at the mark on the bottom of the nut
// Push the collet in the direction of the arrow until it clicks in place
// Screw the nut with the collet onto the colletholder
// We recommend to tighten the nut with a torque wrench.

For recommended tightening torque please refer to list on page 157.

Disassembly instructions After the nut is unscrewed from the colletholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark, until it disengages from the clamping nut.

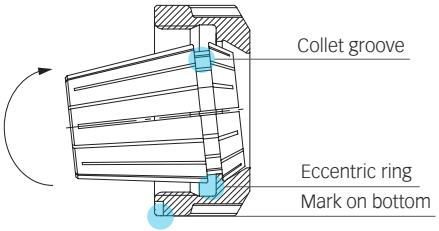
General advice Never clamp oversized tool shanks. For example, never use a Ø 12 mm to 11 mm collet to clamp a Ø 12.2 mm shank. Rather use the next bigger collet (in this case a Ø 12.5 mm – 11.5 mm or 13 mm – 12 mm collet). Insert tool to the full length of the collet for best results if possible.

Also, never insert the tool less than $^{2}/_{3}$ of the collet length. Improper tool insertion can permanently deform the collet and will result in poor runout.

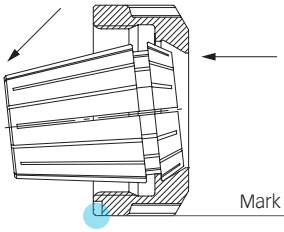
Improper assembly can permanently damage the runout TIR of the collet and may result in the destruction of the clamping nut. Only mount clamping nuts with correctly assembled collets.

Expert advice

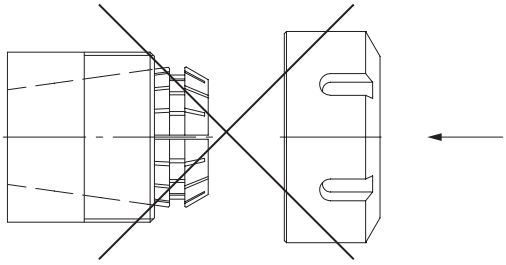
Please only set back-up screw to the tool shank **after** clamping the tool. Disregarding this will result in bad run out and reduced clamping force. This back-up screw only serves as protection against a push-back of the tool and must not be used for presetting.

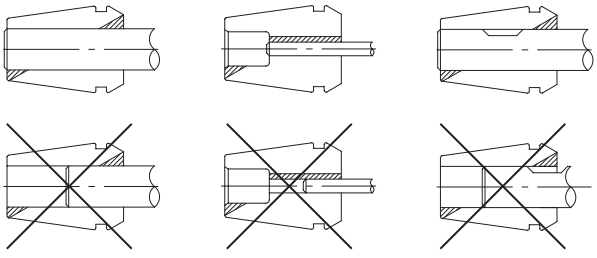


Assembling



Disassembling





Microbore collets ER-MB

Type	Part no.	Clamping capacity h7 [mm]	[inch]
ER 8-MB			
Ø 0.2 mm	1308.00200	0.2	0.0079
Ø 0.3 mm	1308.00300	0.3	0.0118
Ø 0.4 mm	1308.00400	0.4	0.0157
Ø 0.5 mm	1308.00500	0.5	0.0197
Ø 0.6 mm	1308.00600	0.6	0.0236
Ø 0.7 mm	1308.00700	0.7	0.0276
Ø 0.8 mm	1308.00800	0.8	0.0315
Ø 0.9 mm	1308.00900	0.9	0.0354
ER 11-MB			
Ø 0.2 mm	1311.00200	0.2	0.0079
Ø 0.3 mm	1311.00300	0.3	0.0118
Ø 0.4 mm	1311.00400	0.4	0.0157
Ø 0.5 mm	1311.00500	0.5	0.0197
Ø 0.6 mm	1311.00600	0.6	0.0236
Ø 0.7 mm	1311.00700	0.7	0.0276
Ø 0.8 mm	1311.00800	0.8	0.0315
Ø 0.9 mm	1311.00900	0.9	0.0354
ER 16-MB			
Ø 0.2 mm	1316.00200	0.2	0.0079
Ø 0.3 mm	1316.00300	0.3	0.0118
Ø 0.4 mm	1316.00400	0.4	0.0157
Ø 0.5 mm	1316.00500	0.5	0.0197
Ø 0.6 mm	1316.00600	0.6	0.0236
Ø 0.7 mm	1316.00700	0.7	0.0276
Ø 0.8 mm	1316.00800	0.8	0.0315
Ø 0.9 mm	1316.00900	0.9	0.0354

For further technical information, please refer to page 107.

Expert advice

Microbore collets have a runout of ≤ .0002" (6 µm). They have been developed by REGO-FIX especially for smallest tool shank diameters.

For tool shanks with nominal diameter h7 tolerance only.

ER 16-MB

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
ER 8 [mm]						
SET ER 8	1108.00000	1108.00001	0.5 – 5.0	0.0197 – 0.1969	–	–
Ø 1.0 mm	1108.01000	1108.01001	1.0 – 0.5	0.0394 – 0.0197	1/32"	•
Ø 1.25 mm	1108.01250	–	1.25–0.75	0.0492 – 0.0295	–	–
Ø 1.5 mm	1108.01500	1108.01501	1.5 – 1.0	0.0591 – 0.0394	–	•
Ø 1.75 mm	1108.01750	–	1.75–1.25	0.0689 – 0.0492	–	–
Ø 2.0 mm	1108.02000	1108.02001	2.0 – 1.5	0.0787 – 0.0591	–	•
Ø 2.25 mm	1108.02250	–	2.25–1.75	0.0689 – 0.0886	–	–
Ø 2.5 mm	1108.02500	1108.02501	2.5 – 2.0	0.0984 – 0.0787	3/32"	•
Ø 3.0 mm	1108.03000	1108.03001	3.0 – 2.5	0.1181 – 0.0984	–	•
Ø 3.5 mm	1108.03500	1108.03501	3.5 – 3.0	0.1378 – 0.1181	–	•
Ø 4.0 mm	1108.04000	1108.04001	4.0 – 3.5	0.1575 – 0.1378	5/32"	•
Ø 4.5 mm	1108.04500	1108.04501	4.5 – 4.0	0.1772 – 0.1575	–	•
Ø 5.0 mm	1108.05000	1108.05001	5.0 – 4.5	0.1969 – 0.1772	–	•
ER 8 [inch]						
INCH SET ER 8	1108.00002	1108.00003	1.09 – 4.76	0.0429 – 0.1875	–	–
Ø 1/16"	1108.01592	1108.01593	1.59 – 1.09	0.0625 – 0.0429	–	•
Ø 1/8"	1108.03182	1108.03183	3.18 – 2.68	0.125 – 0.1055	–	•
Ø 3/16"	1108.04762	1108.04763	4.76 – 4.25	0.1875 – 0.1675	–	•
ER 11 [mm]						
SET ER 11	1111.00000	1111.00001	0.5 – 7.0	0.0197 – 0.2756	–	–
Ø 1.0 mm	1111.01000	1111.01001	1.0 – 0.5	0.0394 – 0.0197	1/32"	•
Ø 1.25 mm	1111.01250	–	1.25–0.75	0.0492 – 0.0295	–	–
Ø 1.5 mm	1111.01500	1111.01501	1.5 – 1.0	0.0591 – 0.0394	–	•
Ø 1.75 mm	1111.01750	–	1.75–1.25	0.0689 – 0.0492	–	–
Ø 2.0 mm	1111.02000	1111.02001	2.0 – 1.5	0.0787 – 0.0591	–	•
Ø 2.25 mm	1111.02250	–	2.25–1.75	0.0689 – 0.0886	–	–
Ø 2.5 mm	1111.02500	1111.02501	2.5 – 2.0	0.0984 – 0.0787	–	•
Ø 3.0 mm	1111.03000	1111.03001	3.0 – 2.5	0.1181 – 0.0984	–	•
Ø 3.5 mm	1111.03500	1111.03501	3.5 – 3.0	0.1378 – 0.1181	–	•
Ø 4.0 mm	1111.04000	1111.04001	4.0 – 3.5	0.1575 – 0.1378	–	•
Ø 4.5 mm	1111.04500	1111.04501	4.5 – 4.0	0.1772 – 0.1575	–	•
Ø 5.0 mm	1111.05000	1111.05001	5.0 – 4.5	0.1969 – 0.1772	–	•
Ø 5.5 mm	1111.05500	1111.05501	5.5 – 5.0	0.2165 – 0.1969	–	•
Ø 6.0 mm	1111.06000	1111.06001	6.0 – 5.5	0.2362 – 0.2165	–	•
Ø 6.5 mm	1111.06500	1111.06501	6.5 – 6.0	0.2559 – 0.2362	–	•
Ø 7.0 mm	1111.07000	1111.07001	7.0 – 6.5	0.2756 – 0.2559	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

For further technical information, please refer to page 98.

** Approx. inch sizing*

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
ER 11 [inch]						
INCH SET ER 11	1111.00002	1111.00003	1.09 – 6.35	0.0429 – 0.25	–	–
Ø 1/16"	1111.01592	1111.01593	1.59 – 1.09	0.0625 – 0.0429	–	•
Ø 3/32"	1111.02382	1111.02383	2.38 – 1.87	0.0938 – 0.0738	–	•
Ø 1/8"	1111.03182	1111.03183	3.18 – 2.67	0.125 – 0.105	–	•
Ø 5/32"	1111.03972	1111.03973	3.97 – 3.46	0.1563 – 0.1363	–	•
Ø 3/16"	1111.04762	1111.04763	4.76 – 4.25	0.1875 – 0.1675	–	•
Ø 7/32"	1111.05562	1111.05563	5.56 – 5.04	0.2188 – 0.1988	–	•
Ø 1/4"	1111.06352	1111.06353	6.35 – 5.84	0.25 – 0.23	–	•
ER 16 [mm]						
SET ER 16	1116.00000	1116.00001	0.5 – 10.0	0.0197 – 0.3937	–	–
Ø 1.0 mm	1116.01000	1116.01001	1.0 – 0.5	0.0394 – 0.0197	1/32"	•
Ø 1.5 mm	1116.01500	1116.01501	1.5 – 1.0	0.0591 – 0.0394	–	–
Ø 2.0 mm	1116.02000	1116.02001	2.0 – 1.0	0.0787 – 0.0394	–	•
Ø 2.5 mm	1116.02500	1116.02501	2.5 – 1.5	0.0984 – 0.0591	–	–
Ø 3.0 mm	1116.03000	1116.03001	3.0 – 2.0	0.1181 – 0.0787	–	•
Ø 3.5 mm	1116.03500	1116.03501	3.5 – 2.5	0.1378 – 0.0984	–	–
Ø 4.0 mm	1116.04000	1116.04001	4.0 – 3.0	0.1575 – 0.1181	–	•
Ø 4.5 mm	1116.04500	1116.04501	4.5 – 3.5	0.1772 – 0.1378	–	–
Ø 5.0 mm	1116.05000	1116.05001	5.0 – 4.0	0.1969 – 0.1575	–	•
Ø 5.5 mm	1116.05500	1116.05501	5.5 – 4.5	0.2165 – 0.1772	–	–
Ø 6.0 mm	1116.06000	1116.06001	6.0 – 5.0	0.2362 – 0.1969	–	•
Ø 6.5 mm	1116.06500	1116.06501	6.5 – 5.5	0.2559 – 0.2165	–	–
Ø 7.0 mm	1116.07000	1116.07001	7.0 – 6.0	0.2756 – 0.2362	–	•
Ø 7.5 mm	1116.07500	1116.07501	7.5 – 6.5	0.2953 – 0.2559	–	–
Ø 8.0 mm	1116.08000	1116.08001	8.0 – 7.0	0.315 – 0.2756	–	•
Ø 8.5 mm	1116.08500	1116.08501	8.5 – 7.5	0.3346 – 0.2953	–	–
Ø 9.0 mm	1116.09000	1116.09001	9.0 – 8.0	0.3543 – 0.315	–	•
Ø 9.5 mm	1116.09500	1116.09501	9.5 – 8.5	0.374 – 0.3346	–	–
Ø 10.0 mm	1116.10000	1116.10001	10.0 – 9.0	0.3937 – 0.3543	–	•
ER 16 [inch]						
INCH SET ER 16	1116.00002	1116.00003	1.09 – 10.32	0.0429 – 0.4063	–	–
Ø 1/16"	1116.01592	1116.01593	1.59 – 1.09	0.0625 – 0.0429	–	•
Ø 3/32"	1116.02382	1116.02383	2.38 – 1.87	0.0938 – 0.0738	–	•
Ø 1/8"	1116.03182	1116.03183	3.18 – 2.16	0.125 – 0.085	–	•
Ø 5/32"	1116.03972	1116.03973	3.97 – 2.95	0.1563 – 0.1163	–	•
Ø 3/16"	1116.04762	1116.04763	4.76 – 3.75	0.1875 – 0.1475	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

** Approx. inch sizing*

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
Ø 7/32"	1116.05562	1116.05563	5.56 – 4.54	0.2188 – 0.1788	–	•
Ø 1/4"	1116.06352	1116.06353	6.35 – 5.33	0.25 – 0.21	–	•
Ø 9/32"	1116.07142	1116.07143	7.15 – 6.13	0.2813 – 0.2413	–	•
Ø 5/16"	1116.07942	1116.07943	7.94 – 6.92	0.3125 – 0.2725	–	•
Ø 11/32"	1116.08732	1116.08733	8.73 – 7.72	0.3438 – 0.3038	–	•
Ø 3/8"	1116.09532	1116.09533	9.53 – 8.51	0.375 – 0.335	–	•
Ø 13/32"	1116.10322	1116.10323	10.32 – 9.3	0.4063 – 0.3663	–	•
ER 20 [mm]						
SET ER 20	1120.00000	1120.00001	1.0 – 13.0	0.0394 – 0.5118	–	–
Ø 1.0 mm	1120.01000	1120.01001	1.0 – 0.5	0.0394 – 0.0197	1/32"	–
Ø 1.5 mm	1120.01500	1120.01501	1.5 – 1.0	0.0591 – 0.0394	–	–
Ø 2.0 mm	1120.02000	1120.02001	2.0 – 1.0	0.0787 – 0.0394	1/16"	•
Ø 2.5 mm	1120.02500	1120.02501	2.5 – 1.5	0.0984 – 0.0591	3/32"	–
Ø 3.0 mm	1120.03000	1120.03001	3.0 – 2.0	0.1181 – 0.0787	–	•
Ø 3.5 mm	1120.03500	1120.03501	3.5 – 2.5	0.1378 – 0.0984	–	–
Ø 4.0 mm	1120.04000	1120.04001	4.0 – 3.0	0.1575 – 0.1181	5/32"	•
Ø 4.5 mm	1120.04500	1120.04501	4.5 – 3.5	0.1772 – 0.1378	–	–
Ø 5.0 mm	1120.05000	1120.05001	5.0 – 4.0	0.1969 – 0.1575	–	•
Ø 5.5 mm	1120.05500	1120.05501	5.5 – 4.5	0.2165 – 0.1772	–	–
Ø 6.0 mm	1120.06000	1120.06001	6.0 – 5.0	0.2362 – 0.1969	7/32"	•
Ø 6.5 mm	1120.06500	1120.06501	6.5 – 5.5	0.2559 – 0.2165	–	–
Ø 7.0 mm	1120.07000	1120.07001	7.0 – 6.0	0.2756 – 0.2362	–	•
Ø 7.5 mm	1120.07500	1120.07501	7.5 – 6.5	0.2953 – 0.2559	9/32"	–
Ø 8.0 mm	1120.08000	1120.08001	8.0 – 7.0	0.315 – 0.2756	–	•
Ø 8.5 mm	1120.08500	1120.08501	8.5 – 7.5	0.3346 – 0.2953	–	–
Ø 9.0 mm	1120.09000	1120.09001	9.0 – 8.0	0.3543 – 0.315	11/32"	•
Ø 9.5 mm	1120.09500	1120.09501	9.5 – 8.5	0.374 – 0.3346	–	–
Ø 10.0 mm	1120.10000	1120.10001	10.0 – 9.0	0.3937 – 0.3543	–	•
Ø 10.5 mm	1120.10500	1120.10501	10.5 – 9.5	0.4134 – 0.374	13/32"	–
Ø 11.0 mm	1120.11000	1120.11001	11.0 – 10.0	0.4331 – 0.3937	–	•
Ø 11.5 mm	1120.11500	1120.11501	11.5 – 10.5	0.4528 – 0.4134	–	–
Ø 12.0 mm	1120.12000	1120.12001	12.0 – 11.0	0.4724 – 0.433	15/32"	•
Ø 12.5 mm	1120.12500	1120.12501	12.5 – 11.5	0.4921 – 0.4528	–	–
Ø 13.0 mm	1120.13000	1120.13001	13.0 – 12.0	0.5118 – 0.4724	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

For further technical information, please refer to page 107.

** Approx. inch sizing*

Expert advice

REGO-FIX ER-UP collets are available with a new rust protection for improved collet lifetime on request.

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
ER 20 [inch]						
INCH SET ER 20	1120.00002	1120.00003	2.16 – 12.7	0.085 – 0.5	–	–
Ø 1/8"	1120.03182	1120.03183	3.18 – 2.18	0.125 – 0.085	–	•
Ø 3/16"	1120.04762	1120.04763	4.76 – 3.76	0.1875 – 0.1475	–	•
Ø 1/4"	1120.06352	1120.06353	6.35 – 5.35	0.25 – 0.21	–	•
Ø 5/16"	1120.07942	1120.07943	7.94 – 6.94	0.3125 – 0.2725	–	•
Ø 3/8"	1120.09532	1120.09533	9.53 – 8.53	0.375 – 0.335	–	•
Ø 7/16"	1120.11112	1120.11113	11.11 – 10.11	0.4375 – 0.3975	–	•
Ø 1/2"	1120.12702	1120.12703	12.7 – 11.7	0.5 – 0.46	–	•
ER 25 [mm]						
SET ER 25	1125.00000	1125.00001	1.0 –16.0	0.0394 – 0.6299	–	–
Ø 1.0 mm	1125.01000	1125.01001	1.0 – 0.5	0.0394 – 0.0197	1/32"	–
Ø 1.5 mm	1125.01500	1125.01501	1.5 – 1.0	0.0591 – 0.0394	–	–
Ø 2.0 mm	1125.02000	1125.02001	2.0 – 1.0	0.0787 – 0.0394	1/16"	•
Ø 2.5 mm	1125.02500	1125.02501	2.5 – 1.5	0.0984 – 0.0591	3/32"	–
Ø 3.0 mm	1125.03000	1125.03001	3.0 – 2.0	0.1181 – 0.0787	–	•
Ø 3.5 mm	1125.03500	1125.03501	3.5 – 2.5	0.1378 – 0.0984	–	–
Ø 4.0 mm	1125.04000	1125.04001	4.0 – 3.0	0.1575 – 0.1181	5/32"	•
Ø 4.5 mm	1125.04500	1125.04501	4.5 – 3.5	0.1772 – 0.1378	–	–
Ø 5.0 mm	1125.05000	1125.05001	5.0 – 4.0	0.1969 – 0.1575	–	•
Ø 5.5 mm	1125.05500	1125.05501	5.5 – 4.5	0.2165 – 0.1772	–	–
Ø 6.0 mm	1125.06000	1125.06001	6.0 – 5.0	0.2362 – 0.1969	7/32"	•
Ø 6.5 mm	1125.06500	1125.06501	6.5 – 5.5	0.2559 – 0.2165	–	–
Ø 7.0 mm	1125.07000	1125.07001	7.0 – 6.0	0.2756 – 0.2362	–	•
Ø 7.5 mm	1125.07500	1125.07501	7.5 – 6.5	0.2953 – 0.2559	9/32"	–
Ø 8.0 mm	1125.08000	1125.08001	8.0 – 7.0	0.315 – 0.2756	–	•
Ø 8.5 mm	1125.08500	1125.08501	8.5 – 7.5	0.3346 – 0.2953	–	–
Ø 9.0 mm	1125.09000	1125.09001	9.0 – 8.0	0.3543 – 0.315	11/32"	•
Ø 9.5 mm	1125.09500	1125.09501	9.5 – 8.5	0.374 – 0.3346	–	–
Ø 10.0 mm	1125.10000	1125.10001	10.0 – 9.0	0.3937 – 0.3543	–	•
Ø 10.5 mm	1125.10500	1125.10501	10.5 – 9.5	0.4134 – 0.374	13/32"	–
Ø 11.0 mm	1125.11000	1125.11001	11.0 – 10.0	0.4331 – 0.3937	–	•
Ø 11.5 mm	1125.11500	1125.11501	11.5 – 10.5	0.4528 – 0.4134	–	–
Ø 12.0 mm	1125.12000	1125.12001	12.0 – 11.0	0.4724 – 0.4331	15/32"	•
Ø 12.5 mm	1125.12500	1125.12501	12.5 – 11.5	0.4921 – 0.4528	–	–
Ø 13.0 mm	1125.13000	1125.13001	13.0 – 12.0	0.5118 – 0.4724	–	•
Ø 13.5 mm	1125.13500	1125.13501	13.5 – 12.5	0.5315 – 0.4921	17/32"	–
Ø 14.0 mm	1125.14000	1125.14001	14.0 – 13.0	0.5512 – 0.5118	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

** Approx. inch sizing*

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
Ø 14.5 mm	1125.14500	1125.14501	14.5 – 13.5	0.5709 – 0.5315	–	–
Ø 15.0 mm	1125.15000	1125.15001	15.0 – 14.0	0.5906 – 0.5512	–	•
Ø 15.5 mm	1125.15500	1125.15501	15.5 – 14.5	0.6102 – 0.5709	19/32"	–
Ø 16.0 mm	1125.16000	1125.16001	16.0 – 15.0	0.6299 – 0.5905	–	•
Ø 17.0 mm	1125.17000	1125.17001	17.0 – 16.0	0.6693 – 0.6299	21/32"	–
ER 25 [inch]						
INCH SET ER 25	1125.00002	1125.00003	2.16 – 15.88	0.085 – 0.625	–	–
Ø 1/8"	1125.03182	1125.03183	3.18 – 2.16	0.125 – 0.085	–	•
Ø 3/16"	1125.04762	1125.04763	4.76 – 3.75	0.1875 – 0.1475	–	•
Ø 1/4"	1125.06352	1125.06353	6.35 – 5.33	0.25 – 0.21	–	•
Ø 5/16"	1125.07942	1125.07943	7.94 – 6.92	0.3125 – 0.2725	–	•
Ø 3/8"	1125.09532	1125.09533	9.53 – 8.51	0.375 – 0.335	–	•
Ø 7/16"	1125.11112	1125.11113	11.11 – 10.11	0.4375 – 0.3975	–	•
Ø 1/2"	1125.12702	1125.12703	12.70 – 11.68	0.5 – 0.46	–	•
Ø 9/16"	1125.14292	1125.14293	14.29 – 13.27	0.5625 – 0.5225	–	•
Ø 5/8"	1125.15882	1125.15883	15.88 – 14.78	0.625 – 0.582	–	•
ER 32 [mm]						
SET ER 32	1132.00000	1132.00001	2.0 – 20.0	0.0787 – 0.7874	–	–
Ø 2.0 mm	1132.02000	1132.02001	2.0 – 1.0	0.0787 – 0.0394	1/16"	–
Ø 2.5 mm	1132.02500	1132.02501	2.5 – 1.5	0.0984 – 0.0591	3/32"	–
Ø 3.0 mm	1132.03000	1132.03001	3.0 – 2.0	0.1181 – 0.0787	–	•
Ø 3.5 mm	1132.03500	1132.03501	3.5 – 2.5	0.1378 – 0.0984	–	–
Ø 4.0 mm	1132.04000	1132.04001	4.0 – 3.0	0.1575 – 0.1181	5/32"	•
Ø 4.5 mm	1132.04500	1132.04501	4.5 – 3.5	0.1772 – 0.1378	–	–
Ø 5.0 mm	1132.05000	1132.05001	5.0 – 4.0	0.1969 – 0.1575	–	•
Ø 5.5 mm	1132.05500	1132.05501	5.5 – 4.5	0.2165 – 0.1772	–	–
Ø 6.0 mm	1132.06000	1132.06001	6.0 – 5.0	0.2362 – 0.1969	7/32"	•
Ø 6.5 mm	1132.06500	1132.06501	6.5 – 5.5	0.2559 – 0.2165	–	–
Ø 7.0 mm	1132.07000	1132.07001	7.0 – 6.0	0.2756 – 0.2362	–	•
Ø 7.5 mm	1132.07500	1132.07501	7.5 – 6.5	0.2953 – 0.2559	9/32"	–
Ø 8.0 mm	1132.08000	1132.08001	8.0 – 7.0	0.315 – 0.2756	–	•
Ø 8.5 mm	1132.08500	1132.08501	8.5 – 7.5	0.3346 – 0.2953	–	–
Ø 9.0 mm	1132.09000	1132.09001	9.0 – 8.0	0.3543 – 0.315	11/32"	•
Ø 9.5 mm	1132.09500	1132.09501	9.5 – 8.5	0.374 – 0.3346	–	–
Ø 10.0 mm	1132.10000	1132.10001	10.0 – 9.0	0.3937 – 0.3543	–	•
Ø 10.5 mm	1132.10500	1132.10501	10.5 – 9.5	0.4134 – 0.374	13/32"	–
Ø 11.0 mm	1132.11000	1132.11001	11.0 – 10.0	0.4331 – 0.3937	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

For further technical information, please refer to page 107.

** Approx. inch sizing*

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
ER 32 [mm] continued						
Ø 11.5 mm	1132.11500	1132.11501	11.5 – 10.5	0.4528 – 0.4134	–	–
Ø 12.0 mm	1132.12000	1132.12001	12.0 – 11.0	0.4724 – 0.4331	15/32"	•
Ø 12.5 mm	1132.12500	1132.12501	12.5 – 11.5	0.4921 – 0.4528	–	–
Ø 13.0 mm	1132.13000	1132.13001	13.0 – 12.0	0.5118 – 0.4724	–	•
Ø 13.5 mm	1132.13500	1132.13501	13.5 – 12.5	0.5315 – 0.4921	17/32"	–
Ø 14.0 mm	1132.14000	1132.14001	14.0 – 13.0	0.5512 – 0.5118	–	•
Ø 14.5 mm	1132.14500	1132.14501	14.5 – 13.5	0.5709 – 0.5315	–	–
Ø 15.0 mm	1132.15000	1132.15001	15.0 – 14.0	0.5906 – 0.5512	–	•
Ø 15.5 mm	1132.15500	1132.15501	15.5 – 14.5	0.6102 – 0.5709	19/32"	–
Ø 16.0 mm	1132.16000	1132.16001	16.0 – 15.0	0.63299 – 0.5906	–	•
Ø 16.5 mm	1132.16500	1132.16501	16.5 – 15.5	0.6496 – 0.6102	–	–
Ø 17.0 mm	1132.17000	1132.17001	17.0 – 16.0	0.6693 – 0.6299	21/32"	•
Ø 17.5 mm	1132.17500	1132.17501	17.5 – 16.5	0.689 – 0.6496	–	–
Ø 18.0 mm	1132.18000	1132.18001	18.0 – 17.0	0.7087 – 0.6693	–	•
Ø 18.5 mm	1132.18500	1132.18501	18.5 – 17.5	0.7283 – 0.689	23/32"	–
Ø 19.0 mm	1132.19000	1132.19001	19.0 – 18.0	0.748 – 0.7078	–	•
Ø 19.5 mm	1132.19500	1132.19501	19.5 – 18.5	0.7677 – 0.7284	–	–
Ø 20.0 mm	1132.20000	1132.20001	20.0 – 19.0	0.7874 – 0.748	25/32"	•
Ø 21.0 mm	1132.21000	1132.21001	21.0 – 20.0	0.8268 – 0.7874	–	–
Ø 22.0 mm	1132.22000	1132.22001	22.0 – 21.0	0.8661 – 0.8268	–	–
ER 32 [inch]						
INCH SET ER 32	1132.00002	1132.00003	2.16 – 20.64	0.085 – 0.8125	–	–
Ø 1/8"	1132.03182	1132.03183	3.18 – 2.16	0.125 – 0.085	–	•
Ø 3/16"	1132.04762	1132.04763	4.76 – 3.75	0.1875 – 0.1475	–	•
Ø 1/4"	1132.06352	1132.06353	6.35 – 5.33	0.25 – 0.21	–	•
Ø 5/16"	1132.07942	1132.07943	7.94 – 6.92	0.3125 – 0.2725	–	•
Ø 3/8"	1132.09532	1132.09533	9.53 – 8.51	0.375 – 0.335	–	•
Ø 7/16"	1132.11112	1132.11113	11.11 – 10.1	0.4375 – 0.3975	–	•
Ø 1/2"	1132.12702	1132.12703	12.7 – 11.68	0.5 – 0.46	–	•
Ø 9/16"	1132.14292	1132.14293	14.29 – 13.27	0.5625 – 0.5225	–	•
Ø 5/8"	1132.15882	1132.15883	15.88 – 14.86	0.625 – 0.585	–	•
Ø 11/16"	1132.17462	1132.17463	17.46 – 16.45	0.6875 – 0.6475	–	•
Ø 3/4"	1132.19052	1132.19053	19.05 – 18.03	0.75 – 0.71	–	•
Ø 13/16"	1132.20642	1132.20643	20.64 – 19.62	0.8125 – 0.7725	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

** Approx. inch sizing*

Type	Part no. ER standard	Part no. ER-UP	Clamping range [mm]	Clamping range [inch]	Ø [inch]	Included in set
ER 40 [mm]						
SET ER 40	1140.00000	1140.00001	3.0 – 26.0	0.1181 – 1.0236	–	–
Ø 3.0 mm	1140.03000	1140.03001	3.0 – 2.0	0.1181 – 0.0787	3/32"	–
Ø 3.5 mm	1140.03500	1140.03501	3.5 – 2.5	0.1378 – 0.0984	–	–
Ø 4.0 mm	1140.04000	1140.04001	4.0 – 3.0	0.1575 – 0.1181	5/32"	•
Ø 4.5 mm	1140.04500	1140.04501	4.5 – 3.5	0.1772 – 0.1378	–	–
Ø 5.0 mm	1140.05000	1140.05001	5.0 – 4.0	0.1969 – 0.1575	–	•
Ø 5.5 mm	1140.05500	1140.05501	5.5 – 4.5	0.2165 – 0.1772	–	–
Ø 6.0 mm	1140.06000	1140.06001	6.0 – 5.0	0.2362 – 0.1969	7/32"	•
Ø 6.5 mm	1140.06500	1140.06501	6.5 – 5.5	0.2559 – 0.2165	–	–
Ø 7.0 mm	1140.07000	1140.07001	7.0 – 6.0	0.2756 – 0.2362	–	•
Ø 7.5 mm	1140.07500	1140.07501	7.5 – 6.5	0.2953 – 0.2559	9/32"	–
Ø 8.0 mm	1140.08000	1140.08001	8.0 – 7.0	0.315 – 0.2756	–	•
Ø 8.5 mm	1140.08500	1140.08501	8.5 – 7.5	0.3346 – 0.2953	–	–
Ø 9.0 mm	1140.09000	1140.09001	9.0 – 8.0	0.3543 – 0.315	–	•
Ø 9.5 mm	1140.09500	1140.09501	9.5 – 8.5	0.374 – 0.3346	11/32"	–
Ø 10.0 mm	1140.10000	1140.10001	10.0 – 9.0	0.3937 – 0.3543	–	•
Ø 10.5 mm	1140.10500	1140.10501	10.5 – 9.5	0.4134 – 0.374	13/32"	–
Ø 11.0 mm	1140.11000	1140.11001	11.0 – 10.0	0.4331 – 0.3937	–	•
Ø 11.5 mm	1140.11500	1140.11501	11.5 – 10.5	0.4528 – 0.4134	–	–
Ø 12.0 mm	1140.12000	1140.12001	12.0 – 11.0	0.4724 – 0.4331	15/32"	•
Ø 12.5 mm	1140.12500	1140.12501	12.5 – 11.5	0.4921 – 0.4528	–	–
Ø 13.0 mm	1140.13000	1140.13001	13.0 – 12.0	0.5118 – 0.4724	–	•
Ø 13.5 mm	1140.13500	1140.13501	13.5 – 12.5	0.5315 – 0.4921	17/32"	–
Ø 14.0 mm	1140.14000	1140.14001	14.0 – 13.0	0.5512 – 0.5118	–	•
Ø 14.5 mm	1140.14500	1140.14501	14.5 – 13.5	0.5709 – 0.5315	–	–
Ø 15.0 mm	1140.15000	1140.15001	15.0 – 14.0	0.5906 – 0.5512	–	•
Ø 15.5 mm	1140.15500	1140.15501	15.5 – 14.5	0.6102 – 0.5709	19/32"	–
Ø 16.0 mm	1140.16000	1140.16001	16.0 – 15.0	0.6299 – 0.5906	–	•
Ø 16.5 mm	1140.16500	1140.16501	16.5 – 15.5	0.6496 – 0.6102	–	–
Ø 17.0 mm	1140.17000	1140.17001	17.0 – 16.0	0.6693 – 0.6299	21/32"	•
Ø 17.5 mm	1140.17500	1140.17501	17.5 – 16.5	0.689 – 0.6496	–	–
Ø 18.0 mm	1140.18000	1140.18001	18.0 – 17.0	0.7078 – 0.6693	–	•
Ø 18.5 mm	1140.18500	1140.18501	18.5 – 17.5	0.7283 – 0.689	23/32"	–
Ø 19.0 mm	1140.19000	1140.19001	19.0 – 18.0	0.748 – 0.7078	–	•
Ø 19.5 mm	1140.19500	1140.19501	19.5 – 18.5	0.7677 – 0.7283	–	–
Ø 20.0 mm	1140.20000	1140.20001	20.0 – 19.0	0.7874 – 0.748	25/32"	•
Ø 20.5 mm	1140.20500	1140.20501	20.5 – 19.5	0.8071 – 0.7677	–	–
Ø 21.0 mm	1140.21000	1140.21001	21.0 – 20.0	0.8268 – 0.7874	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

For further technical information, please refer to page 107.

** Approx. inch sizing*

ER standard collets and ultraprecision collets ER-UP

ER std.	ER-UP
DIN 6499-B	DIN 6499-B
ISO 15488	ISO 15488

	Part no.		Clamping range			
Type	ER standard	ER-UP	[mm]	[inch]	Ø [inch]	Included in set
ER 40 [mm] continued						
Ø 21.5 mm	1140.21500	1140.21501	21.5 – 20.5	0.8465 – 0.8071	27/32"	–
Ø 22.0 mm	1140.22000	1140.22001	22.0 – 21.0	0.8661 – 0.8268	–	•
Ø 22.5 mm	1140.22500	1140.22501	22.5 – 21.5	0.8858 – 0.8465	–	–
Ø 23.0 mm	1140.23000	1140.23001	23.0 – 22.0	0.9055 – 0.8661	–	•
Ø 23.5 mm	1140.23500	1140.23501	23.5 – 22.5	0.9252 – 0.8858	29/32"	–
Ø 24.0 mm	1140.24000	1140.24001	24.0 – 23.0	0.9449 – 0.9055	–	•
Ø 24.5 mm	1140.24500	1140.24501	24.5 – 23.5	0.9646 – 0.9252	–	–
Ø 25.0 mm	1140.25000	1140.25001	25.0 – 24.0	0.9843 – 0.9449	31/32"	•
Ø 25.5 mm	1140.25500	1140.25501	25.5 – 24.5	1.0039 – 0.9646	–	–
Ø 26.0 mm	1140.26000	1140.26001	26.0 – 25.0	1.0236 – 0.9843	–	•
Ø 27.0 mm	1140.27000	1140.27001	27.0 – 26.0	1.063 – 1.0236	1 / 1/16"	–
Ø 28.0 mm	1140.28000	1140.28001	28.0 – 27.0	1.1024 – 1.063	1 / 3/32"	–
Ø 29.0 mm	1140.29000	1140.29001	29.0 – 28.0	1.1417 – 1.1024	1 / 1/8"	–
Ø 30.0 mm	1140.30000	1140.30001	30.0 – 29.0	1.1811 – 1.1417	1 / 5/32"	–
ER 40 [inch]						
INCH SET ER 40	1140.00002	1140.00003	2.16 – 25.4	0.085 – 1.0	–	–
Ø 1/8"	1140.03182	1140.03183	3.18 – 2.16	0.125 – 0.085	–	•
Ø 3/16"	1140.04762	1140.04763	4.76 – 3.75	0.1875 – 0.1475	–	•
Ø 1/4"	1140.06352	1140.06353	6.35 – 5.33	0.25 – 0.21	–	•
Ø 5/16"	1140.07942	1140.07943	7.94 – 6.92	0.3125 – 0.2725	–	•
Ø 3/8"	1140.09532	1140.09533	9.53 – 8.51	0.375 – 0.335	–	•
Ø 7/16"	1140.11112	1140.11113	11.11 – 10.1	0.4375 – 0.3975	–	•
Ø 1/2"	1140.12702	1140.12703	12.70 – 11.68	0.5 – 0.46	–	•
Ø 9/16"	1140.14292	1140.14293	14.29 – 13.27	0.5625 – 0.5225	–	•
Ø 5/8"	1140.15882	1140.15883	15.88 – 14.86	0.625 – 0.585	–	•
Ø 11/16"	1140.17462	1140.17463	17.46 – 16.45	0.6875 – 0.6475	–	•
Ø 3/4"	1140.19052	1140.19053	19.05 – 18.03	0.75 – 0.71	–	•
Ø 13/16"	1140.20642	1140.20643	20.64 – 19.62	0.8125 – 0.7725	–	•
Ø 7/8"	1140.22232	1140.22233	22.23 – 21.21	0.875 – 0.835	–	•
Ø 1"	1140.25402	1140.25403	25.40 – 24.38	1.0 – 0.96	–	•

Included in the ER sets are all marked collets within that size and the matching collet tray ZWT.

** Approx. inch sizing*


KUKA

Metallic sealed collets ER-DM

Type	Part no.	Clamping range [mm]	Clamping range [inch]	Incl. in set
ER 11-DM [mm]				
SET ER 11-DM	1211.00000	3.0 – 6.0	0.1181 – 0.2756	–
Ø 3.0 mm	1211.03000	3.0 – 2.75	0.1181 – 0.1083	•
Ø 4.0 mm	1211.04000	4.0 – 3.75	0.1575 – 0.1476	•
Ø 5.0 mm	1211.05000	5.0 – 4.75	0.1969 – 0.187	•
Ø 6.0 mm	1211.06000	6.0 – 5.75	0.2362 – 0.2264	•
Ø 7.0 mm	1211.07000	7.0 – 6.75	0.2756 – 0.2657	–
ER 11-DM [inch]				
INCH SET ER 11-DM	1211.00002	3.18 – 6.35	0.125 – 0.25	–
Ø 1/8"	1211.03182	3.18 – 2.93	0.125 – 0.1154	•
Ø 3/16"	1211.04762	4.76 – 4.51	0.1875 – 0.1776	•
Ø 7/32"	1211.05562	5.56 – 5.31	0.2188 – 0.2091	•
Ø 1/4"	1211.06352	6.35 – 6.1	0.25 – 0.2402	•
ER 16-DM [mm]				
SET ER 16-DM	1216.00000	3.0 – 10.0	0.1181 – 0.3937	–
Ø 3.0 mm	1216.03000	3.0 h9	0.1181 h9	•
Ø 4.0 mm	1216.04000	4.0 h9	0.1575 h9	•
Ø 5.0 mm	1216.05000	5.0 – 4.5	0.1969 – 0.1772	•
Ø 6.0 mm	1216.06000	6.0 – 5.5	0.2362 – 0.2165	•
Ø 7.0 mm	1216.07000	7.0 – 6.5	0.2756 – 0.2559	•
Ø 8.0 mm	1216.08000	8.0 – 7.5	0.315 – 0.2953	•
Ø 9.0 mm	1216.09000	9.0 – 8.5	0.3543 – 0.3346	•
Ø 10.0 mm	1216.10000	10.0 – 9.5	0.3937 – 0.374	•

For further technical information, please refer to page 107.

ER-DM

Expert advice

Please note that the ER-DM collets are not suitable for use with reCool®.

Metallic sealed collets ER-DM

Type	Part no.	Clamping range [mm]	Clamping range [inch]	Incl. in set
ER 16-DM [inch]				
INCH SET ER 16-DM	1216.00002	3.18 – 10.32	0.125 – 0.4063	–
Ø 1/8"	1216.03182	3.18 h9	0.125 h9	•
Ø 5/32"	1216.03972	3.97 h9	0.1563 h9	–
Ø 3/16"	1216.04762	4.76 h9	0.1875 h9	•
Ø 7/32"	1216.05562	5.56 – 5.06	0.2188 – 0.1991	–
Ø 1/4"	1216.06352	6.35 – 5.85	0.25 – 0.2303	•
Ø 9/32"	1216.07142	7.14 – 6.64	0.2813 – 0.2616	–
Ø 5/16"	1216.07942	7.94 – 7.44	0.3125 – 0.2928	•
Ø 11/32"	1216.08732	8.73 – 8.23	0.3438 – 0.3241	–
Ø 3/8"	1216.09532	9.53 – 9.02	0.375 – 0.3553	•
Ø 13/32"	1216.10322	10.32 – 9.82	0.4063 – 0.3866	–
ER 20-DM [mm]				
SET ER 20-DM	1220.00000	3.0 – 13.0	0.1181 – 0.5118	–
Ø 3.0 mm	1220.03000	3.0 h9	0.1181 h9	•
Ø 4.0 mm	1220.04000	4.0 h9	0.1575 h9	•
Ø 5.0 mm	1220.05000	5.0 h9	0.1969 h9	•
Ø 6.0 mm	1220.06000	6.0 h9	0.2362 h9	•
Ø 7.0 mm	1220.07000	7.0 – 6.5	0.2756 – 0.2559	•
Ø 8.0 mm	1220.08000	8.0 – 7.5	0.315 – 0.2953	•
Ø 9.0 mm	1220.09000	9.0 – 8.5	0.3543 – 0.3346	•
Ø 10.0 mm	1220.10000	10.0 – 9.5	0.3937 – 0.374	•
Ø 11.0 mm	1220.11000	11.0 – 10.5	0.4331 – 0.4134	•
Ø 12.0 mm	1220.12000	12.0 – 11.5	0.4724 – 0.4528	•
Ø 13.0 mm	1220.13000	13.0 – 12.5	0.5118 – 0.4921	•
ER 20-DM [inch]				
INCH SET ER 20-DM	1220.00002	3.18 – 12.7	0.125 – 0.5	–
Ø 1/8"	1220.03182	3.18 h9	0.125 h9	•
Ø 5/32"	1220.03972	3.97 h9	0.1563 h9	–
Ø 3/16"	1220.04762	4.76 h9	0.1875 h9	•
Ø 7/32"	1220.05562	5.56 h9	0.2188 h9	–
Ø 1/4"	1220.06352	6.35 h9	0.25 h9	•
Ø 9/32"	1220.07142	7.14 – 6.64	0.2813 – 0.2616	–
Ø 5/16"	1220.07942	7.94 – 7.44	0.3125 – 0.2928	•
Ø 11/32"	1220.08732	8.73 – 8.23	0.3438 – 0.3241	–
Ø 3/8"	1220.09532	9.53 – 9.02	0.375 – 0.3553	•
Ø 13/32"	1220.10322	10.32 – 9.82	0.4063 – 0.3866	–
Ø 7/16"	1220.11112	11.11 – 10.61	0.4375 – 0.4178	•
Ø 15/32"	1220.11912	11.91 – 11.41	0.4687 – 0.4491	–
Ø 1/2"	1220.12702	12.7 – 12.2	0.5 – 0.4803	•

Metallic sealed collets ER-DM

Type	Part no.	Clamping range [mm]	Clamping range [inch]	Incl. in set
ER 25-DM [mm]				
SET ER 25-DM	1225.00000	6.0 – 16.0	0.2362 – 0.6299	–
Ø 6.0 mm	1225.06000	6.0 h9	0.2362 h9	•
Ø 7.0 mm	1225.07000	7.0 h9	0.2756 h9	–
Ø 8.0 mm	1225.08000	8.0 – 7.5	0.315 – 0.2953	•
Ø 9.0 mm	1225.09000	9.0 – 8.5	0.3543 – 0.3347	–
Ø 10.0 mm	1225.10000	10.0 – 9.5	0.3937 – 0.374	•
Ø 11.0 mm	1225.11000	11.0 – 10.5	0.4331 – 0.4134	–
Ø 12.0 mm	1225.12000	12.0 – 11.5	0.4724 – 0.4528	•
Ø 13.0 mm	1225.13000	13.0 – 12.5	0.5118 – 0.4921	–
Ø 14.0 mm	1225.14000	14.0 – 13.5	0.5512 – 0.5315	•
Ø 15.0 mm	1225.15000	15.0 – 14.5	0.5906 – 0.5709	–
Ø 16.0 mm	1225.16000	16.0 – 15.5	0.6299 – 0.6102	•
ER 25-DM [inch]				
INCH SET ER 25-DM	1225.00002	6.35 – 15.88	0.25 – 0.625	–
Ø 7/32"	1225.05562	5.56 h9	0.2188 h9	–
Ø 1/4"	1225.06352	6.35 h9	0.2500 h9	•
Ø 9/32"	1225.07142	7.14 h9	0.2813 h9	–
Ø 5/16"	1225.07942	7.94 – 7.44	0.3125 – 0.2928	•
Ø 11/32"	1225.08732	8.73 – 8.23	0.3438 – 0.3241	–
Ø 3/8"	1225.09532	9.53 – 9.02	0.375 – 0.3553	•
Ø 13/32"	1225.10322	10.32 – 9.82	0.4063 – 0.3866	–
Ø 7/16"	1225.11112	11.11 – 10.61	0.4375 – 0.4178	•
Ø 15/32"	1225.11912	11.91 – 11.41	0.4687 – 0.4491	–
Ø 1/2"	1225.12702	12.7 – 12.2	0.5 – 0.4803	•
Ø 17/32"	1225.13492	13.49 – 12.99	0.5313 – 0.5116	–
Ø 9/16"	1225.14292	14.29 – 13.79	0.5625 – 0.5428	•
Ø 19/32"	1225.15082	15.08 – 14.58	0.5934 – 0.5741	–
Ø 5/8"	1225.15882	15.88 – 15.38	0.625 – 0.6055	•
ER 32-DM [mm]				
SET ER 32-DM	1232.00000	6.0 – 20.0	0.2362 – 0.7874	–
Ø 6.0 mm	1232.06000	6.0 h9	0.2362 h9	•
Ø 7.0 mm	1232.07000	7.0 h9	0.2756 h9	–
Ø 8.0 mm	1232.08000	8.0 – 7.5	0.315 – 0.2953	•
Ø 9.0 mm	1232.09000	9.0 – 8.5	0.3543 – 0.3346	–
Ø 10.0 mm	1232.10000	10.0 – 9.5	0.3937 – 0.374	•
Ø 11.0 mm	1232.11000	11.0 – 10.5	0.4331 – 0.4134	–

Metallic sealed collets ER-DM

Type	Part no.	Clamping range [mm]	Clamping range [inch]	Incl. in set
Ø 12.0 mm	1232.12000	12.0 – 11.5	0.4724 – 0.4528	•
Ø 13.0 mm	1232.13000	13.0 – 12.5	0.5118 – 0.4921	–
Ø 14.0 mm	1232.14000	14.0 – 13.5	0.5512 – 0.5315	•
Ø 15.0 mm	1232.15000	15.0 – 14.5	0.5906 – 0.5709	–
Ø 16.0 mm	1232.16000	16.0 – 15.5	0.6299 – 0.6102	•
Ø 17.0 mm	1232.17000	17.0 – 16.5	0.6693 – 0.6496	–
Ø 18.0 mm	1232.18000	18.0 – 17.5	0.7087 – 0.689	•
Ø 19.0 mm	1232.19000	19.0 – 18.5	0.748 – 0.7283	–
Ø 20.0 mm	1232.20000	20.0 – 19.5	0.7874 – 0.7677	•
ER 32-DM [inch]				
INCH SET ER 32-DM	1232.00002	6.35 – 19.05	0.25 – 0.75	–
Ø 1/4"	1232.06352	6.35 h9	0.25 h9	•
Ø 9/32"	1232.07142	7.15 h9	0.2813 h9	–
Ø 5/16"	1232.07942	7.94 – 7.44	0.3125 – 0.2928	•
Ø 11/32"	1232.08732	8.73 – 8.23	0.3438 – 0.3241	–
Ø 3/8"	1232.09532	9.53 – 9.02	0.375 – 0.3553	•
Ø 13/32"	1232.10322	10.32 – 9.82	0.4063 – 0.3866	–
Ø 7/16"	1232.11112	11.11 – 10.61	0.4375 – 0.4178	•
Ø 15/32"	1232.11912	11.91 – 11.41	0.4687 – 0.4491	–
Ø 1/2"	1232.12702	12.7 – 12.2	0.5 – 0.4803	•
Ø 17/32"	1232.13492	13.5 – 12.99	0.5313 – 0.5116	–
Ø 9/16"	1232.14292	14.29 – 13.79	0.5625 – 0.5428	•
Ø 19/32"	1232.15082	15.07 – 14.58	0.5934 – 0.5741	–
Ø 5/8"	1232.15882	15.88 – 15.38	0.625 – 0.6055	•
Ø 21/32"	1232.16672	16.67 – 16.17	0.6563 – 0.6366	–
Ø 11/16"	1232.17462	17.46 – 16.96	0.6875 – 0.6678	•
Ø 23/32"	1232.18262	18.26 – 17.76	0.7188 – 0.6991	–
Ø 3/4"	1232.19052	19.05 – 18.55	0.75 – 0.7303	•

For further technical information, please refer to page 158.

ER tapping collets ER-GB

Manufactured with a form-fitting internal square,
the ER-GB collets successfully prevent the tap from slipping.

Key features

Tapping collets without axial compensation

Swiss quality

Made in Switzerland to ISO 9001 / ISO 14001.

Marking

Type and size (reduced collet selection errors).

Traceability

Lot number marking on all products for traceability through the entire manufacturing process.

Original REGO-FIX

Our long-lasting machining experience results in a well-engineered system. When buying REGO-FIX products pay attention to our quality seal: The triangle is our seal for outstanding quality made in Switzerland.

Interchangeable

With standard ER collet DIN 6499 / ISO 15488.
No additional colletholders and clamping nuts necessary.

Wide product range

Sizes: ER-GB 11 to 50.
Standards: DIN, ISO, JIS (ANSI on request).

Strength: Square for tight grip of tap

Eliminates tap slippage in collets.

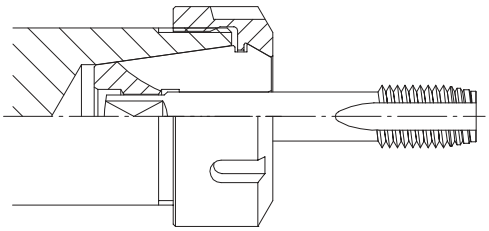
Matched tooling system for best fit

The compatibility of the entire system results in maximum precision, balance and tool life.

Tapping collets ER-GB These rigid tapping collets are compatible with taps per DIN, ISO, JIS and ANSI standards. The REGO-FIX ER-GB tapping collets are manufactured with an internal square. They are intended for use on CNC machines that have synchronized machine spindle speed and feed rate. Machines that have such rigid tapping capabilities require only minimal compensation. We recommend the use of our SSY Softsynchro® tapping holders. They compensate minimal synchronizing differences of CNC machines.

For additional technical information and dimensions of taps on ER-GB, please refer to pages 114 and 115.

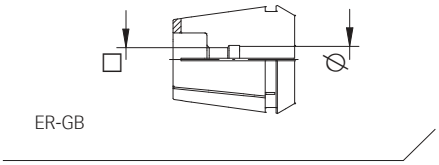
ER-GB



ER-GB

ER tapping collets

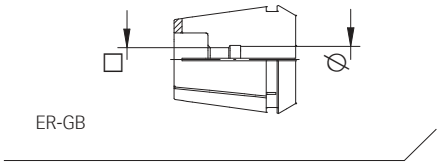
ER-GB [mm]



Dimensions [mm]		ER ... -GB						
Ø	□	11	16	20	25	32	40	Standard
2.5	2.1 / 2.0	1411.02500	–	–	–	–	–	DIN / ISO
2.8	2.1	1411.02800	1416.02800	–	–	–	–	DIN
3.5	2.7	1411.03500	1416.03500	1420.03500	–	–	–	DIN
4.0	3.0	1411.04000	–	–	–	–	–	DIN
4.0	3.15 / 3.2	1411.04002	1416.04002	1420.04002	1425.04002	1432.04002	–	ISO / JIS
4.5	3.4	1411.04500	1416.04500	1420.04500	1425.04500	1432.04500	–	DIN
5.0	4.0	1411.05002	1416.05002	1420.05002	1425.05002	1432.05002	–	ISO / JIS
5.5	4.3	–	1416.05500	1420.05500	1425.05500	1432.05500	–	DIN
5.5	4.5	–	1416.05501	1420.05501	1425.05501	1432.05501	–	JIS
6.0	4.5	–	1416.06001	1420.06001	1425.06001	1432.06001	1440.06001	JIS
6.0	4.9	1411.06000	1416.06000	1420.06000	1425.06000	1432.06000	1440.06000	DIN
6.2	5.0	–	1416.06201	1420.06201	1425.06201	1432.06201	1440.06201	JIS
6.3	5.0	–	1416.06302	1420.06302	1425.06302	1432.06302	1440.06302	ISO
7.0	5.5	–	1416.07000	1420.07000	1425.07000	1432.07000	1440.07000	DIN / JIS
7.1	5.6	–	1416.07102	1420.07102	1425.07102	1432.07102	1440.07102	ISO
8.0	6.2 / 6.3	–	1416.08000	1420.08000	1425.08000	1432.08000	1440.08000	DIN / ISO
8.5	6.5	–	1416.08501	1420.08501	1425.08501	1432.08501	1440.08501	JIS
9.0	7.0 / 7.1	–	1416.09000	1420.09000	1425.09000	1432.09000	1440.09000	DIN / ISO
10.0	8.0	–	–	1420.10000	1425.10000	1432.10000	1440.10000	DIN / ISO
10.5	8.0	–	–	1420.10501	1425.10501	1432.10501	1440.10501	JIS
11.0	9.0	–	–	1420.11000	1425.11000	1432.11000	1440.11000	DIN
11.2	9.0	–	–	1420.11202	1425.11202	1432.11202	1440.11202	ISO
12.0	9.0	–	–	1420.12000	1425.12000	1432.12000	1440.12000	DIN
12.5	10.0	–	–	–	1425.12502	1432.12502	1440.12502	ISO / JIS
14.0	11.0 / 11.2	–	–	–	1425.14000	1432.14000	1440.14000	DIN / ISO / JIS
15.0	12.0	–	–	–	1425.15001	1432.15001	1440.15001	JIS
16.0	12.0 / 12.5	–	–	–	1425.16000	1432.16000	1440.16000	DIN / ISO
17.0	13.0	–	–	–	–	1432.17001	1440.17001	JIS
18.0	14.0 / 14.5	–	–	–	–	1432.18000	1440.18000	DIN / ISO
20.0	16.0	–	–	–	–	1432.20000	1440.20000	DIN / ISO
22.0	18.0	–	–	–	–	–	1440.22000	DIN
25.0	20.0	–	–	–	–	–	–	DIN
28.0	22.0	–	–	–	–	–	–	DIN
32.0	24.0	–	–	–	–	–	–	DIN

ER tapping collets

ER-GB [inch]



Dimensions [inch]		ER ... -GB					
Ø	□	11	16	20	25	32	40
0.141"	0.110"	1411.03585	1416.03585	–	–	–	–
0.168"	0.131"	1411.04275	1416.04275	1420.04275	1425.04275	1432.04275	–
0.194"	0.152"	1411.04935	1416.04935	1420.04935	1425.04935	1432.04935	–
0.220"	0.165"	–	1416.05595	1420.05595	1425.05595	1432.05595	–
0.255"	0.191"	–	1416.06485	1420.06485	1425.06485	1432.06485	1440.06485
0.318"	0.238"	–	1416.08085	1420.08085	1425.08085	1432.08085	1440.08085
0.323"	0.242"	–	–	1420.08215	1425.08215	1432.08215	1440.08215
0.367"	0.275"	–	–	1420.09325	1425.09325	1432.09325	1440.09325
0.381"	0.286"	–	–	1420.09685	1425.09685	1432.09685	1440.09685
0.429"	0.322"	–	–	–	1425.10905	1432.10905	1440.10905
0.437" •	0.328"	–	–	–	1425.11104	1432.11104	1440.11104
0.480"	0.360"	–	–	–	1425.12195	1432.12195	1440.12195
0.542"	0.406"	–	–	–	–	1432.13775	1440.13775
0.562" •	0.421"	–	–	–	–	1432.14274	1440.14274
0.590"	0.442"	–	–	–	1425.14995	1432.14995	1440.14995
0.652"	0.489"	–	–	–	–	1432.16565	1440.16565
0.687" •	0.515"	–	–	–	–	–	1440.17454
0.697"	0.523"	–	–	–	–	–	1440.17705
0.700" •	0.531"	–	–	–	–	–	1440.17784
0.760"	0.570"	–	–	–	–	–	1440.19305
0.800"	0.600"	–	–	–	–	–	1440.20325
0.896"	0.672"	–	–	–	–	–	–
1.021"	0.766"	–	–	–	–	–	–
1.108"	0.831"	–	–	–	–	–	–
1.233"	0.925"	–	–	–	–	–	–

• designates pipe tap

All taps ANSI standard

Tap Size	Shank	Square
No 0 – 6	0.141	0.110
1/16	0.141	0.110
3/32	0.141	0.110
1/8	0.141	0.110
5/32	0.168	0.131
No 8	0.168	0.131
3/16	0.194	0.152
No 9	0.194	0.152

Tap Size	Shank	Square
No 10	0.194	0.152
1/4	0.255	0.191
5/16	0.318	0.238
3/8	0.381	0.286
7/16	0.323	0.242
1/2	0.367	0.275
9/16	0.429	0.322

Tap Size	Shank	Square
5/8	0.480	0.360
11/16	0.542	0.406
3/4	0.590	0.442
13/16	0.652	0.489
7/8	0.697	0.523
15/16	0.760	0.570
1	0.800	0.600


REGO-FIX

ER tapping collets PCM ET1

PCM ET1 tapping collets with axial compensation offer a smart and cost-effective toolholding option for machines which need axial compensation for tapping.

Key features

Tapping collets with axial compensation

Interchangeable

With REGO-FIX standard ER collet DIN 6499 / ISO 15488.

Compatibility

PCM ET1-12 is compatible with ER11 colletholders.

Cost saving

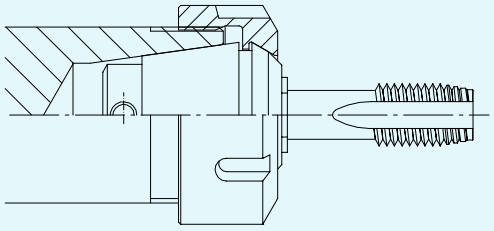
No expensive tapping tools necessary.

Spring tension

Adapted to tap size.

Compact

Very robust design with smallest space requirement.



PCM ET1

Directions for use The following tapping process is recommended for tapping collets PCM ET1:
Fast approach, then tapping feed with approximately 95 % of the pitch value, which uses 20 to 30 % of the compensation stroke when the spindle rotation and the feed movement are simultaneously reversed.

Return feed must be made with 100 % of the pitch, which maintains the sleeve of the tapping collet in the compensation stroke up to the tap disengagement; quick return can then be programmed with usual stroke security. The relatively long axial compensation assists easy programming.

When tapping with very high speed, an appropriate programming compensation may be necessary to balance the differences of inertia between the spindle and the feed movement on reverse. In order to not disturb the axial compensation, use external coolant supply only.

Please refer to page 66 for additional information on REGO-FIX tapping holders.
For additional technical information and dimensions of taps on PCM ET1, please refer to pages 116.

PCM ET1

Expert advice

Not for coolant through tools and not for applications with sealing disks.

ER tapping collets

PCM ET1 [mm]

Shank Ø	PCM ET1- ...						
[mm]	12	16	20	25	32	40	Standard
1.0	1512.01000	–	–	–	–	–	DIN
1.4	1512.01400	1516.01400	–	–	–	–	DIN / ISO
1.5	1512.01500	–	–	–	–	–	DIN
1.6	1512.01600	1516.01600	–	–	–	–	DIN
1.8	1512.01800	1516.01800	–	–	–	–	DIN
2.0	1512.02000	1516.02000	–	–	–	–	DIN
2.2	1512.02200	1516.02200	1520.02200	–	–	–	ISO / JIS
2.24	1512.02240	1516.02240	1520.02240	–	–	–	DIN
2.5	1512.02500	1516.02500	1520.02500	1525.02500	–	–	ISO / JIS
2.8	1512.02800	1516.02800	1520.02800	1525.02800	–	–	DIN
3.0	1512.03000	1516.03000	1520.03000	1525.03000	–	–	JIS
3.15	1512.03150	1516.03150	1520.03150	1525.03150	–	–	JIS
3.5	1512.03500	1516.03500	1520.03500	1525.03500	–	–	DIN
3.55	1512.03550	1516.03550	1520.03550	1525.03550	–	–	JIS
4.0	–	1516.04000	1520.04000	1525.04000	–	–	ISO
4.5	–	1516.04500	1520.04500	1525.04500	1532.04500	–	DIN / JIS
5.0	–	1516.05000	1520.05000	1525.05000	1532.05000	–	ISO
5.5	–	1516.05500	1520.05500	1525.05500	1532.05500	–	DIN / ISO
5.6	–	1516.05600	1520.05600	1525.05600	1532.05600	–	JIS
6.0	–	1516.06000	1520.06000	1525.06000	1532.06000	1540.06000	DIN / ISO
6.2	–	1516.06200	1520.06200	1525.06200	1532.06200	1540.06200	DIN / ISO
6.3	–	1516.06300	1520.06300	1525.06300	1532.06300	1540.06300	JIS
7.0	–	–	1520.07000	1525.07000	1532.07000	1540.07000	DIN
7.1	–	–	–	1525.07100	1532.07100	1540.07100	ISO
8.0	–	–	–	1525.08000	1532.08000	1540.08000	DIN
8.5	–	–	–	1525.08500	1532.08500	1540.08500	ISO / JIS
9.0	–	–	–	1525.09000	1532.09000	1540.09000	DIN / ISO / JIS
10.0	–	–	–	1525.10000	1532.10000	1540.10000	JIS
10.5	–	–	–	–	1532.10500	1540.10500	DIN / ISO
11.0	–	–	–	–	1532.11000	1540.11000	JIS
11.2	–	–	–	–	1532.11200	1540.11200	DIN / ISO
12.0	–	–	–	–	1532.12000	1540.12000	DIN / ISO
12.5	–	–	–	–	1532.12500	1540.12500	DIN
14.0	–	–	–	–	–	1540.14000	DIN
15.0	–	–	–	–	–	1540.15000	DIN
16.0	–	–	–	–	–	1540.16000	DIN
17.0	–	–	–	–	–	1540.17000	JIS

PCM ET1-ER 12 is technically identical to ER 11 and fits all ER11 colletholders.

ER tapping collets

PCM ET1 [inch]

Shank Ø		PCM ET1- ...					
[inch]	[mm]	12	16	20	25	32	40
0.141	3.580	1512.03581	1516.03581	1520.03581	1525.03581	–	–
0.168	4.270	–	1516.04271	1520.04271	1525.04271	1532.04721	–
0.194	4.930	–	1516.04931	1520.04931	1525.04931	1532.04931	–
0.220	5.590	–	1516.05591	1520.05591	1525.05591	1532.05591	–
0.255	6.480	–	–	1520.06481	1525.06481	1532.06481	1540.06481
0.318	8.080	–	–	–	1525.08081	1532.08081	1540.08081
0.323	8.205	–	–	–	1525.08211	1532.08211	1540.08211
0.367	9.320	–	–	–	1525.09321	1532.09321	1540.09321
0.381	9.680	–	–	–	1525.09681	1532.09681	1540.09681
0.429	10.900	–	–	–	–	1532.10901	1540.10901
0.437	11.113	–	–	–	–	1532.11111	1540.11111
0.480	12.192	–	–	–	–	1532.12191	1540.12191
0.542	13.770	–	–	–	–	–	1540.13771
0.562	14.290	–	–	–	–	–	1540.14291
0.590	14.990	–	–	–	–	–	1540.14991
0.652	16.560	–	–	–	–	–	1540.16561
0.697	17.700	–	–	–	–	–	1540.17701

PCM ET1-ER 12 is technically identical to ER 11 and fits all ER11 colletholders.

Tap Size	Shank	Square
No 0 – 6	0.141	0.110
1/16	0.141	0.110
3/32	0.141	0.110
1/8	0.141	0.110
5/32	0.168	0.131
No 8	0.168	0.131
3/16	0.194	0.152
No 9	0.194	0.152

Tap Size	Shank	Square
No 10	0.194	0.152
1/4	0.255	0.191
5/16	0.318	0.238
3/8	0.381	0.286
7/16	0.323	0.242
1/2	0.367	0.275
9/16	0.429	0.322

Tap Size	Shank	Square
5/8	0.480	0.360
11/16	0.542	0.406
3/4	0.590	0.442
13/16	0.652	0.489
7/8	0.697	0.523
15/16	0.760	0.570
1	0.800	0.600

Standard		Standard with bearing		Mini nut		Slip-off proof mini nut			External thread			Sealing and cooling disks	
Hi-Q®/ ER	Hi-Q®/ ERC	Hi-Q®/ ERB	Hi-Q®/ ERBC	Hi-Q®/ ERM	Hi-Q®/ ERMC	Hi-Q®/ ERMX intRlox®	Hi-Q®/ ERMXC intRlox®	ER MS	Hi-Q®/ ERAX	Hi-Q®/ ERAXC	reCool® RCR/RCS	DS/ER	KS/ER
page 55	page 57	page 59	page 59	page 61	page 61	page 63	page 63	page 65	page 67	page 67	page 69	page 75	page 83

B: bearing C: cooling M: mini thread X: slip-off proof

DS: sealing disk KS: coolant flush disk

Innovative products fitting your needs

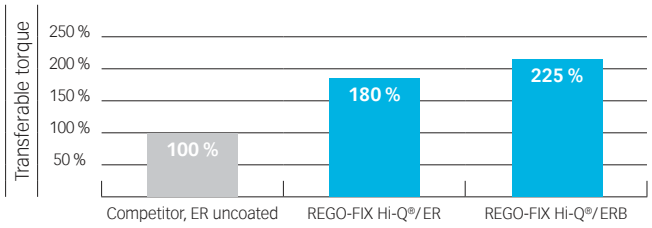
We offer a wide selection of ER clamping nuts for virtually any application.

Wide selection available

// Includes friction-bearing for higher clamping force
// Available with sealing disk for coolant through tools
// Mini nut with minimal external diameter
// Clamping nut (for high rpm)
// Externally threaded clamping nut for floating chucks, ERA Zero-Z® colletholder and live tooling
// Slip-off proof mini clamping nut intRlox® for safe assembling

Torque comparison of different clamping nuts

REGO-FIX Hi-Q®/ER and Hi-Q®/ERB vs. competitor nuts / Source: In-house testing



Key advantages

Rely on the original

Collet locking-system (pat. pend.)

Retains collet in nut for easier assembly.

Balancing

Ideal for high-speed applications.

Higher transferable torque

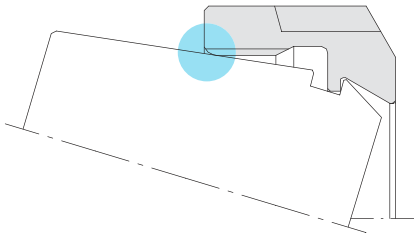
Lower frictional forces resulting in up to 80 % higher gripping force over standard non-treated clamping nuts.

Protection against corrosion

With a special treatment of the surface for longer life.

Optimal contour

Rounded thread start prevents damaging of collets on tool changes.



SWISS MADE
BY REGO-FIX

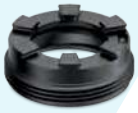
Swiss quality standard

Our products marked Swiss made are manufactured at our headquarters in Tenniken, Switzerland.

Highest quality standards for ER nuts

ER nuts	 Hi-Q® / ER	 Hi-Q® / ERB	 Hi-Q® / ERM	 Hi-Q® / ERMX intRlox®	 Hi-Q® / ERAX	 ER MS
Main feature	standard nut	with friction-bearing for higher clamping force	mini nut	slip-off proof mini nut	external thread and slip-off proof	up to 80,000 rpm
Sizes	ER 11 – ER 50	ER 16 – ER 50	ER 8 – ER 25	ER 8 – ER 25	ER 11 – ER 40	ER 8 – ER 20
Compatibility	compatible with all REGO-FIX ER collets					
Minimal outer diameter	–	–	•	•	•	–
Slip-off proof	–	–	–	•	•	–
Rust protection	•	•	•	•	•	–
Suitable wrench	A-E, E P, E, A-E P	A-E, E P, E, A-E P	A-E M, E M	A-E MX, E MX	A-E AX, E AX	A-E MS, E MS
More information on	page 55	page 59	page 61	page 63	page 67	page 65

A: external thread B: bearing M: mini thread X: slip-off proof

ER nuts Type C for wet machining	 Hi-Q® / ERC	 Hi-Q® / ERBC	 Hi-Q® / ERMC	 Hi-Q® / ERMXC intRlox®	 Hi-Q® / ERAXC
Main feature	standard nut	with friction-bearing for higher clamping force	mini nut	slip-off proof mini nut	external thread and slip-off proof
Cooling option	internal cooling with DS disks and peripheral cooling with KS disks to 150 bar				
Sizes	ER 11 – ER 50	ER 16 – ER 50	ER 11 – ER 25	ER 16 – ER 25	ER 11 – ER 40
Compatibility	compatible with all REGO-FIX ER collets, except PCM ET1 collets				
Minimal outer diameter	–	–	•	•	•
Slip-off proof	–	–	–	•	•
Rust protection	•	•	•	•	•
Suitable wrench	A-E, E P, E, A-E P	A-E, E P, E, A-EP	A-E M, E M	A-E MX, E MX	A-E AX, E AX
More information on	page 57	page 59	page 61	page 63	page 67

A: external thread B: bearing C: cooling M: mini thread X: slip-off proof

Proper assembly protects your runout TIR

High standards for all Hi-Q® / ER clamping nuts Hi-Q® / ER clamping nuts with corrosion-resistant surface are standard on all REGO-FIX ER colletholders.

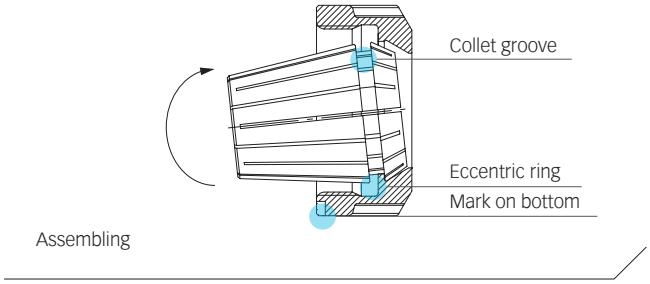
Assembling collet Insert groove of the collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in. Insert tool. Screw nut with collet onto toolholder.

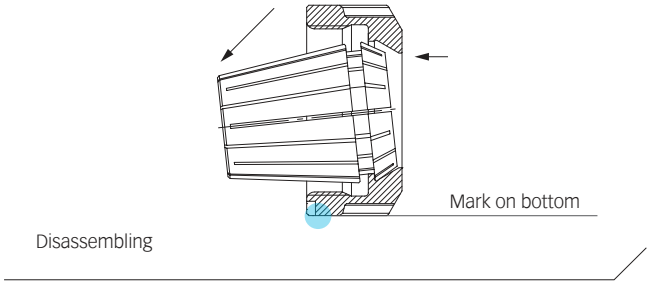
Removing collet After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark until it disengages from the clamping nut.

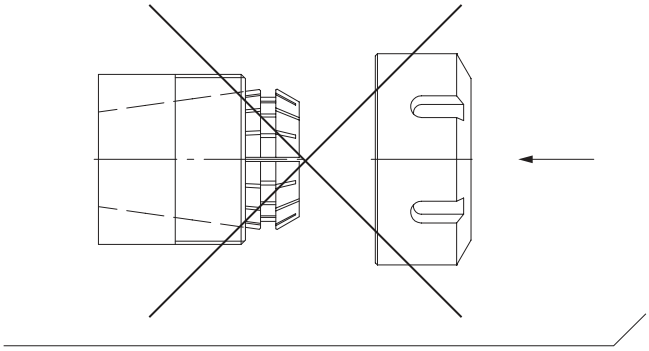
Correct assembling Improper assembly can permanently damage the runout TIR of the collet and may result in the destruction of the clamping nut. Only mount nuts with correctly inserted collets. Never place the collet into the holder without first assembling into the nut.

We recommend the use of original REGO-FIX torque wrenches to prevent any damages to the ER nut.

For original REGO-FIX accessories, please refer to page 148.





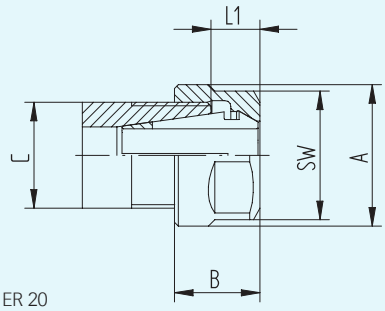


Expert advice

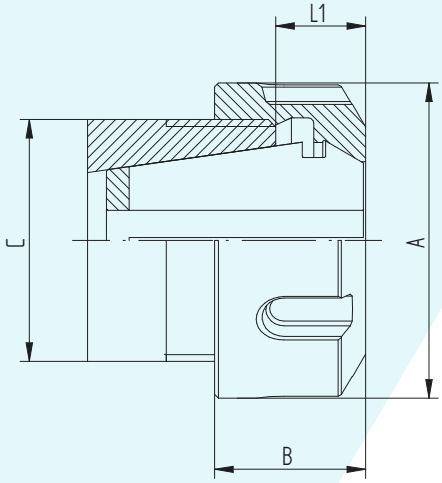
Please only set back-up screw to the tool shank **after** clamping the tool. Disregarding this will result in bad run out and reduced clamping force.

Hi-Q®/ER standard clamping nuts

Standard Hi-Q® / ER clamping nuts with corrosion-resistant surface are the standard nuts on all REGO-FIX ER colletholders.



Hi-Q® / ER 11 – ER 20



Hi-Q® / ER 25 – ER 50

Expert advice

Higher clamping force of the clamping nut at the same time means higher stress on the toolholder. We recommend the use of REGO-FIX torque wrench.
REGO-FIX will not be responsible for damages to toolholders or spindles of other manufacturers.

Hi-Q®/ ER

ER
DIN 6499
ISO 15488

Type	Part no.	Dimensions [mm] A	B	L1	SW	C	Accessory Wrench
Hi-Q® / ER 11							
Hi-Q® / ER 11	3411.00000	19	11.3	4.9 – 6.6	17	M 14 x 0.75	7112.11010
Hi-Q® / ER 11 L	3411.02000	19	11.3	4.9 – 6.6	17	M 14 x 0.75-LH	7112.11010
Hi-Q® / ER 16							
Hi-Q® / ER 16	3416.00000	28	17.5	7.0 – 10.5	25	M 22 x 1.5	7112.16010
Hi-Q® / ER 16 L	3416.02000	28	17.5	7.0 – 10.5	25	M 22 x 1.5-LH	7112.16010
Hi-Q® / ER 20							
Hi-Q® / ER 20	3420.00000	34	19	8.0 – 11.5	30	M 25 x 1.5	7112.20010
Hi-Q® / ER 20 L	3420.02000	34	19	8.0 – 11.5	30	M 25 x 1.5-LH	7112.20010
Hi-Q® / ER 25							
Hi-Q® / ER 25	3425.00000	42	20	8.5 – 12.0	–	M 32 x 1.5	7111.25000
Hi-Q® / ER 25 L	3425.02000	42	20	8.5 – 12.0	–	M 32 x 1.5-LH	7111.25000
Hi-Q® / ER 32							
Hi-Q® / ER 32	3432.00000	50	22.5	9.5 – 13.0	–	M 40 x 1.5	7111.32000
Hi-Q® / ER 32 L	3432.02000	50	22.5	9.5 – 13.0	–	M 40 x 1.5-LH	7111.32000
Hi-Q® / ER 40							
Hi-Q® / ER 40	3440.00000	63	25.5	11.5 – 15.0	–	M 50 x 1.5	7111.40000
Hi-Q® / ER 40 L	3440.02000	63	25.5	11.5 – 15.0	–	M 50 x 1.5-LH	7111.40000

L: left-threaded nuts. Accessories are not included in delivery.

Expert advice

We recommend tightening the clamping nuts using a torque wrench.
For tightening torque recommendations, please refer to page 112.

Hi-Q®/ERC for coolant through tools

Application with sealing disk / coolant flush disk The Hi-Q® / ERC clamping nut is intended for use with the sealing disk system DS / ER and the cool flush system KS / ER. The disk system allows the use of all standard ER collets, ultraprecision collets and tapping collets for coolant through tools.

// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

For peripheral cooling of non coolant through tools we recommend the coolant flush disks KS / ER. Please refer to page 83.

Hi-Q® / ERC 11 This clamping nut is recommended for use where minimal external diameters are important. The Hi-Q® / ERC 11 clamping nut for coolant through tools is the internal cooling version of the Hi-Q® / ER 11 clamping nut

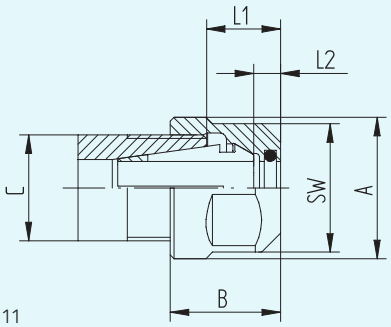
Hi-Q® / ERC 11 does not require sealing disks The sealing system is built into the clamping nut.

// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

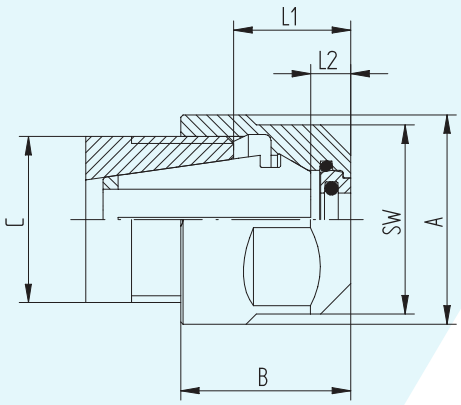
Expert advice

We recommend tightening the clamping nuts using a torque wrench.

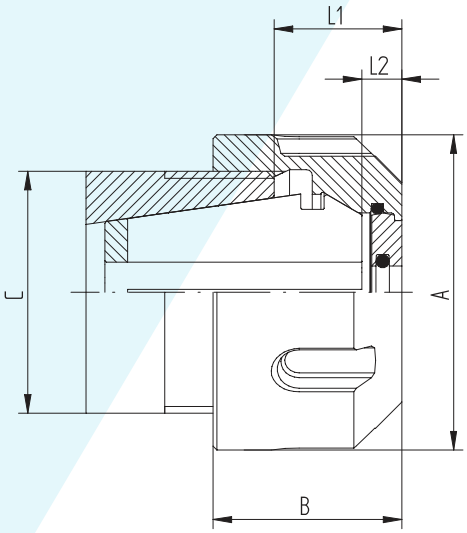
For tightening torque recommendations, please refer to page 112.



Hi-Q® / ERC 11



Hi-Q® / ERC 16 – ERC 20



Hi-Q® / ERC 25 – ERC 50

Hi-Q®/ERC

Type	Part no.	Dimensions [mm] A	B	L1	L2	SW	C	Bore Ø [mm]	[inch]	Accessory Wrench
Hi-Q®/ERC 11										
Hi-Q®/ERC 11, Ø 3.0 mm	3411.20300	19	–	8.1–9.8	3.5	17	M 14 x 0.75	3.0–2.5	3/32"	7112.11010
Hi-Q®/ERC 11, Ø 3.5 mm	3411.20350	19	–	8.1–9.8	3.5	17	M 14 x 0.75	3.5–3.0	1/8"	7112.11010
Hi-Q®/ERC 11, Ø 4.0 mm	3411.20400	19	–	8.1–9.8	3.5	17	M 14 x 0.75	4.0–3.5	5/32"	7112.11010
Hi-Q®/ERC 11, Ø 4.5 mm	3411.20450	19	–	8.1–9.8	3.5	17	M 14 x 0.75	4.5–4.0	–	7112.11010
Hi-Q®/ERC 11, Ø 5.0 mm	3411.20500	19	–	8.1–9.8	3.5	17	M 14 x 0.75	5.0–4.5	3/16"	7112.11010
Hi-Q®/ERC 11, Ø 5.5 mm	3411.20550	19	–	8.1–9.8	3.5	17	M 14 x 0.75	5.5–5.0	7/32"	7112.11010
Hi-Q®/ERC 11, Ø 6.0 mm	3411.20600	19	–	8.1–9.8	3.5	17	M 14 x 0.75	6.0–5.5	–	7112.11010
Hi-Q®/ERC 11, Ø 6.5 mm	3411.20650	19	–	8.1–9.8	3.5	17	M 14 x 0.75	6.5–6.0	1/4"	7112.11010
Hi-Q®/ERC 11, Ø 7.0 mm	3411.20700	19	–	8.1–9.8	3.5	17	M 14 x 0.75	7.0–6.5	–	7112.11010
Hi-Q®/ERC 16										
Hi-Q®/ERC 16	3416.20000	–	28	12.0–15.5	5	25	M 22 x 1.5	22.5	–	7112.16010
Hi-Q®/ERC 20										
Hi-Q®/ERC 20	3420.20000	–	34	13.0–16.5	5	30	M 25 x 1.5	24	–	7112.20010
Hi-Q®/ERC 25										
Hi-Q®/ERC 25	3425.20000	–	42	13.5–17.0	5	–	M 32 x 1.5	25	–	7111.25000
Hi-Q®/ERC 32										
Hi-Q®/ERC 32	3432.20000	–	50	14.5–18.0	5	–	M 40 x 1.5	27.5	–	7111.32000
Hi-Q®/ERC 40										
Hi-Q®/ERC 40	3440.20000	–	63	16.5–20.0	5	–	M 50 x 1.5	30.5	–	7111.40000

Accessories are not included in delivery.

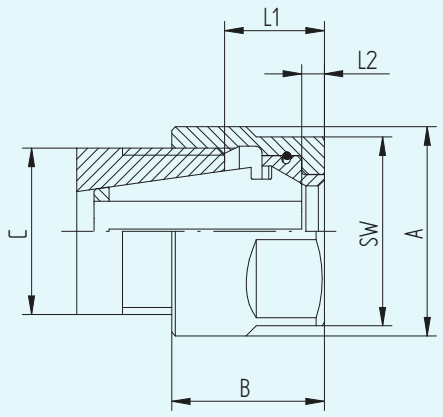
Hi-Q®/ERB friction-bearing
Hi-Q®/ERBC for coolant through tools

Application The Hi-Q® / ERB is a friction-bearing nut that offers the highest clamping force available.
It is interchangeable with all other nuts per DIN 6499.

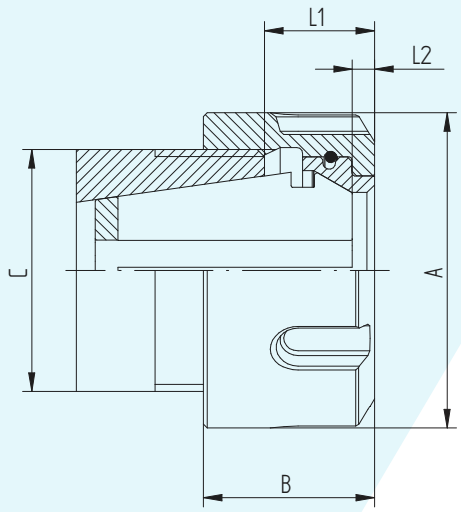
Application with sealing disk / coolant flush disk The Hi-Q® / ERBC clamping nut is intended for use with the sealing disk system DS / ER and the cool flush system KS / ER. The disk system allows the use of all standard ER collets, ultraprecision collets and tapping collets for coolant through tools.

// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

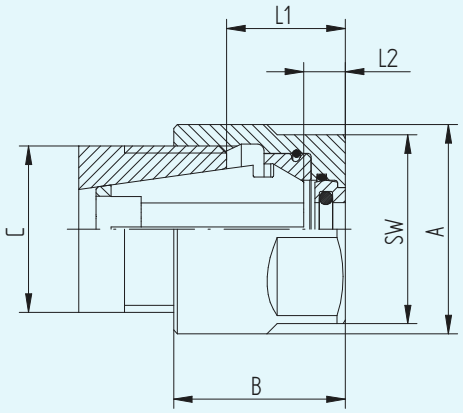
For peripheral cooling of non coolant through tools we recommend the coolant flush disks KS / ER. Please refer to page 83.



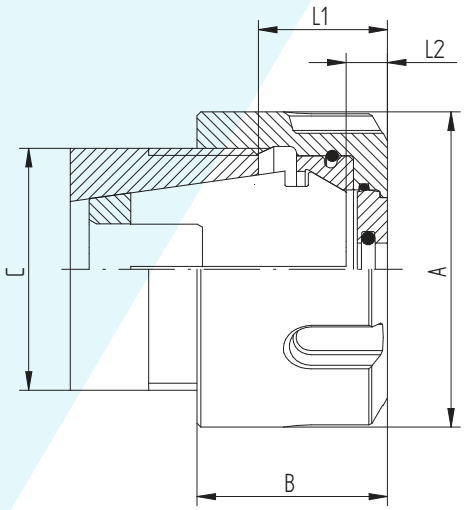
Hi-Q® / ERB 16 – ERB 20



Hi-Q® / ERB 25 – ERB 50



Hi-Q® / ERBC 16 – ERBC 20



Hi-Q® / ERBC 25 – ERBC 50

Hi-Q®/ERB
Hi-Q®/ERBC

ERB ERBC

Type	Part no.	Dimensions [mm] A	B	L1	L2	SW	C	Accessory Wrench
Hi-Q®/ERB 16								
Hi-Q®/ERB 16	3416.30000	28	20.2	10.0 – 13.6	3	25	M 22 x 1.5	7112.16010
Hi-Q®/ERB 20								
Hi-Q®/ERB 20	3420.30000	34	21.7	11.0 – 14.5	3	30	M 25 x 1.5	7112.20010
Hi-Q®/ERB 25								
Hi-Q®/ERB 25	3425.30000	42	22.6	11.5 – 15.0	3	–	M 32 x 1.5	7111.25000
Hi-Q®/ERB 32								
Hi-Q®/ERB 32	3432.30000	50	25	12.5 – 16.0	3	–	M 40 x 1.5	7111.32000
Hi-Q®/ERB 40								
Hi-Q®/ERB 40	3440.30000	63	28.2	14.5 – 18.0	3	–	M 50 x 1.5	7111.40000

Expert advice

We recommend tightening the clamping nuts using a torque wrench.

For tightening torque recommendations, please refer to page 112.

Type	Part no.	Dimensions [mm] A	B	L1	L2	SW	C	Accessory Wrench
Hi-Q®/ERBC 16								
Hi-Q®/ERBC 16	3416.40000	28	22.7	12.5 – 16.0	5.5	25	M 22 x 1.5	7112.16010
Hi-Q®/ERBC 20								
Hi-Q®/ERBC 20	3420.40000	34	24	13.5 – 17.0	5.5	30	M 25 x 1.5	7112.20010
Hi-Q®/ERBC 25								
Hi-Q®/ERBC 25	3425.40000	42	25.2	14.0 – 17.5	5.5	–	M 32 x 1.5	7111.25000
Hi-Q®/ERBC 32								
Hi-Q®/ERBC 32	3432.40000	50	27.4	15.0 – 18.5	5.5	–	M 40 x 1.5	7111.32000
Hi-Q®/ERBC 40								
Hi-Q®/ERBC 40	3440.40000	63	30.7	17.0 – 20.5	5.5	–	M 50 x 1.5	7111.40000

Accessories are not included in delivery.

Hi-Q®/ERM minimal external diameter Hi-Q®/ERMC for coolant through tools

Application The mini clamping nut Hi-Q®/ERM is recommended for use where minimal external diameters are essential (e.g., machining space is very limited). Thus, it is ideally suitable for multispindle drilling heads and collet-holder extensions. The corresponding wrenches have the same external dimensions as the clamping nuts.

Application with sealing disk / coolant flush disk The Hi-Q®/ERMC clamping nut is intended for use with the sealing disk system DS / ER and the cool flush system KS / ER. The disk system allows the use of all standard ER collets, ultraprecision collets and tapping collets for coolant through tools.

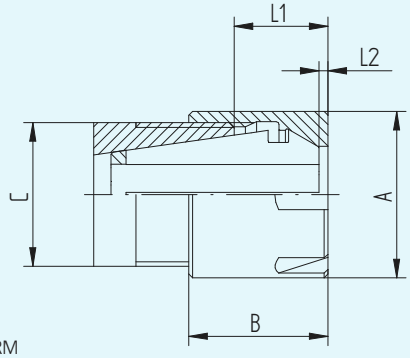
// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

For peripheral cooling of non coolant through tools we recommend the coolant flush disks KS / ER. Please refer to page 83.

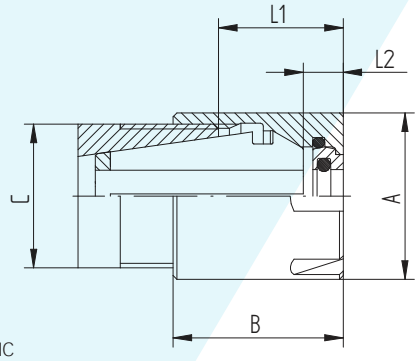
Hi-Q® / ERMC 11 This clamping nut is recommended for use where minimal external diameters are important. It is the coolant through tools version of the Hi-Q®/ERM 11 clamping nut.

Hi-Q® / ERM 11 does not require sealing disks The sealing system is built into the clamping nut.

// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet
// Not interchangeable with nuts according to DIN 6499 / ISO 15488



Hi-Q® / ERM



Hi-Q® / ERMC

Expert advice

We recommend tightening the clamping nuts using our torque wrench.

For tightening torque recommendations, please refer to page 112.

Hi-Q®/ERM
Hi-Q®/ERMC

ERM ERMC

Type	Part no.	Dimensions [mm] A	B	L1	L2	C	Bore Ø [inch]	[mm]	Accessory Wrench
Hi-Q®/ERM 8									
Hi-Q®/ERM 8	3508.00000	12	10.8	4.3–6.1	1.5	M 10 x 0.75	–	–	7113.08000
Hi-Q®/ERM 8 L	3508.02000	12	10.8	4.3–6.1	1.5	M 10 x 0.75-LH	–	–	7113.08000
Hi-Q®/ERM 11									
Hi-Q®/ERM 11	3511.00000	16	12	5.7–7.5	0.4	M 13 x 0.75	–	–	7113.11000
Hi-Q®/ERM 11 L	3511.02000	16	12	5.7–7.5	0.4	M 13 x 0.75-LH	–	–	7113.11000
Hi-Q®/ERM 16									
Hi-Q®/ERM 16	3516.00000	22	18.4	8.0–11.5	0.9	M 19 x 1	–	–	7113.16000
Hi-Q®/ERM 16 L	3516.02000	22	18.4	8.0–11.5	0.9	M 19 x 1-LH	–	–	7113.16000
Hi-Q®/ERM 20									
Hi-Q®/ERM 20	3520.00000	28	19	8.0–11.5	–	M 24 x 1	–	–	7113.20000
Hi-Q®/ERM 20 L	3520.02000	28	19	8.0–11.5	–	M 24 x 1-LH	–	–	7113.20000
Hi-Q®/ERM 25									
Hi-Q®/ERM 25	3525.00000	35	20	8.5–12.0	–	M 30 x 1	–	–	7113.25000
Hi-Q®/ERM 25 L	3525.02000	35	20	8.5–12.0	–	M 30 x 1-LH	–	–	7113.25000

Type	Part no.	Dimensions [mm] A	B	L1	L2	C	Bore Ø [mm]	[inch]	Accessory Wrench
Hi-Q®/ERMC 11									
Hi-Q®/ERMC 11, Ø 3.0 mm	3511.20300	16	14.6	8.1–9.8	3.5	M 13 x 0.75	3.0–2.5	3/32"	7113.11000
Hi-Q®/ERMC 11, Ø 3.5 mm	3511.20350	16	14.6	8.1–9.8	3.5	M 13 x 0.75	3.5–3.0	1/8"	7113.11000
Hi-Q®/ERMC 11, Ø 4.0 mm	3511.20400	16	14.6	8.1–9.8	3.5	M 13 x 0.75	4.0–3.5	5/32"	7113.11000
Hi-Q®/ERMC 11, Ø 4.5 mm	3511.20450	16	14.6	8.1–9.8	3.5	M 13 x 0.75	4.5–4.0	–	7113.11000
Hi-Q®/ERMC 11, Ø 5.0 mm	3511.20500	16	14.6	8.1–9.8	3.5	M 13 x 0.75	5.0–4.5	3/16"	7113.11000
Hi-Q®/ERMC 11, Ø 5.5 mm	3511.20550	16	14.6	8.1–9.8	3.5	M 13 x 0.75	5.5–5.0	7/32"	7113.11000
Hi-Q®/ERMC 11, Ø 6.0 mm	3511.20600	16	14.6	8.1–9.8	3.5	M 13 x 0.75	6.0–5.5	–	7113.11000
Hi-Q®/ERMC 11, Ø 6.5 mm	3511.20650	16	14.6	8.1–9.8	3.5	M 13 x 0.75	6.5–6.0	1/4"	7113.11000
Hi-Q®/ERMC 11, Ø 7.0 mm	3511.20700	16	14.6	8.1–9.8	3.5	M 13 x 0.75	7.0–6.5	–	7113.11000
Hi-Q®/ERMC 16									
Hi-Q®/ERMC 16	3516.20000	22	22	11.5–15.0	4.5	M 19 x 1	–	–	7113.16000
Hi-Q®/ERMC 20									
Hi-Q®/ERMC 20	3520.20000	28	24	13–16.5	5	M 24 x 1	–	–	7113.20000
Hi-Q®/ERMC 25									
Hi-Q®/ERMC 25	3525.20000	35	25	13.5–17.0	5	M 30 x 1	–	–	7113.25000

L: left-threaded nuts. Accessories are not included in delivery.

Hi-Q®/ERMX and Hi-Q®/ERMXC intRlox® Slip-off proof mini clamping nuts

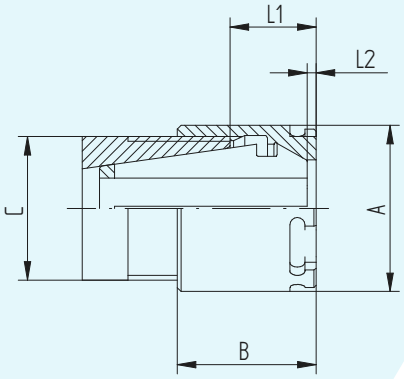
Application
For REGO-FIX ER colletholders with mini thread and cylindrical holders.

Key advantages
// Design is ideally suited for lathes and Swiss turning machines
// Very slim sizing proofs suitable for machines where space is limited
// Safe handling thanks to the patented intRlox® profile
// Slip-off proof design with all advantages of the regular mini clamping nuts
// Easy and safe clamping with the MX wrench

Application with sealing disk / coolant flush disk The Hi-Q® / ERMXC clamping nut is intended for use with the sealing disk system DS / ER and the coolant flush system KS / ER. The disk system allows the use of all standard ER collets, ultraprecision collets and tapping collets for coolant through tools.
// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

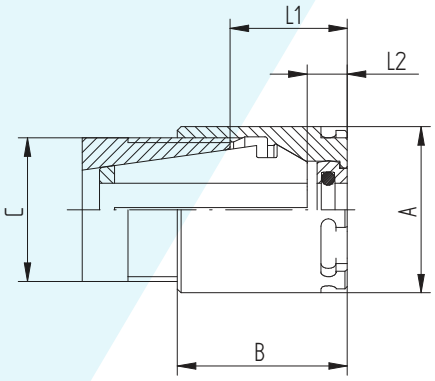
For peripheral cooling of non coolant through tools we recommend the coolant flush disks KS / ER. Please refer to page 83.

Hi-Q® / ERMX



Hi-Q® / ERMX

Hi-Q® / ERMXC



Hi-Q® / ERMXC

Hi-Q®/ERMX intRlox®
Hi-Q®/ERMXC intRlox®

ERMX ERMXC

Type	Part no.	Dimensions [mm] A	B	L1	L2	C	Accessory Wrench
Hi-Q®/ERMX 8							
Hi-Q®/ERMX 8	3508.60000	16	12	4.3–6.1	0.4	M 10 x 0.75	7118.08000
Hi-Q®/ERMX 11							
Hi-Q®/ERMX 11	3511.60000	16	12	5.7–7.5	0.4	M 13 x 0.75	7118.11000
Hi-Q®/ERMX 16							
Hi-Q®/ERMX 16	3516.60000	22	18.4	8.0–11.5	0.9	M 19 x 1	7118.16000
Hi-Q®/ERMX 20							
Hi-Q®/ERMX 20	3520.60000	28	19	8.0–11.5	–	M 24 x 1	7118.20000
Hi-Q®/ERMX 25							
Hi-Q®/ERMX 25	3525.60000	35	20	8.5–12.0	–	M 30 x 1	7118.25000

Type	Part no.	Dimensions [mm] A	B	L1	L2	C	Accessory Wrench
Hi-Q®/ERMXC 16							
Hi-Q®/ERMXC 16	3516.70000	22	22	11.5–15.0	4.5	M 19 x 1	7118.16000
Hi-Q®/ERMXC 20							
Hi-Q®/ERMXC 20	3520.70000	28	24	13.0–16.5	5	M 24 x 1	7118.20000
Hi-Q®/ERMXC 25							
Hi-Q®/ERMXC 25	3525.70000	35	25	13.0–17.0	5	M 30 x 1	7118.25000

Accessories are not included in delivery.

Expert advice

We recommend tightening the clamping nuts using our torque wrench.
We also recommend to use our REGO-FIX wrench heads and wrenches.

For tightening torque recommendations, please refer to page 112.
For matching wrenches and wrench heads, please refer to page 104.

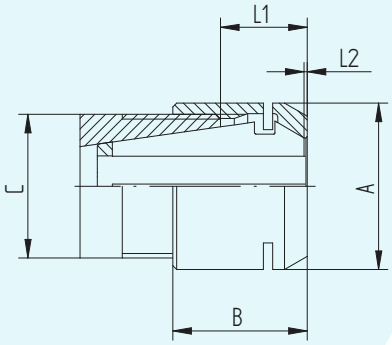
ER MS clamping nuts for highest RPM

Application The ER MS clamping nut for highest RPM with minimal external diameter does not have the collet-locking system and all the contours are ground. This provides best balancing for critical high-speed machining applications.

The collet is released with the corresponding E MS wrench. ER MS nuts are also interchangeable with the Hi-Q® / ERM and Hi-Q® / ERMC nuts. With the ER MS clamping nuts we recommend using ER-UP (ultra-precision) collets to achieve the highest runout TIR.

Key advantages

// Precision-machined contours on all sides
// Minimal residual unbalance
// For high rpm up to 80,000



ER MS

ER MS

Type	Part no.	Dimensions [mm] A	B	L1	L2	C	Accessory Wrench
ER 8 MS							
ER 8 MS	3208.50000	12	10.8	4.3 – 6.1	1.5	M 10 x 0.75	7114.08000
ER 11 MS							
ER 11 MS	3211.50000	16	11.5	4.6 – 6.8	0.4	M 13 x 0.75	7114.11000
ER 16 MS							
ER 16 MS	3216.50000	22	17.8	6.1 – 10.5	0.3	M 19 x 1	7114.16000
ER 20 MS							
ER 20 MS	3220.50000	28	19	7.1 – 11.5	0.3	M 24 x 1	7114.20000

Accessories are not included in delivery.

Hi-Q®/ERAX with external thread
Hi-Q®/ERAXC for coolant through tools

Application For REGO-FIX floating chucks and other ER colletholders with internal thread, e.g., ERA holders. These nuts can also be used on driven tools with internal threads.

Please refer to page 22 for the CAT / ERA Zero-Z® colletholder.
Please refer to page 28 for the SK / ERA Zero-Z® colletholder.
Please refer to page 34 for BT / ERA Zero-Z® colletholder.

Key advantages

// Space-saving design for ideal use on long-turning machines
// S-profile wrench is self-centering on the nut and prevents slipping off while tightening the nut

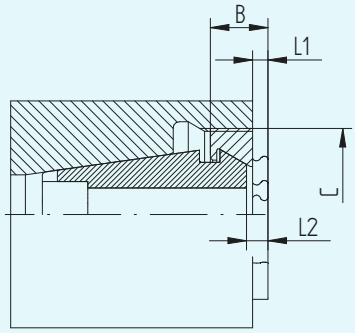
Application with sealing disk / coolant flush disk The Hi-Q® / ERAXC clamping nut is intended for use with the sealing disk system DS / ER and the coolant flush system KS / ER.
The disk system allows the use of all standard ER collets, ultraprecision collets and tapping collets for coolant through tools.

// Up to 150 bar / 2100 PSI coolant pressure
// Prevents dirt and chips from entering the collet

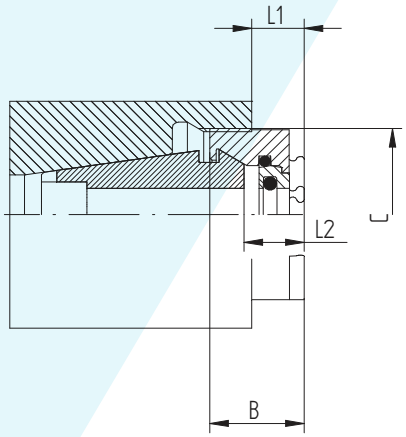
For peripheral cooling of non coolant through tools we recommend the coolant flush disks KS / ER. Please refer to page 83.

Hi-Q® / ERAX

Hi-Q® / ERAXC



Hi-Q® / ERAX



Hi-Q® / ERAXC

Hi-Q®/ERAX
Hi-Q®/ERAXC

Type	Part no.	Dimensions [mm] B	L1	L2	C	Accessory Wrench
Hi-Q®/ERAX 11						
Hi-Q®/ERAX 11	3311.60000	7.5	1.0–3.2	3.9	M 18 x 1	7117.11000
Hi-Q®/ERAX 16						
Hi-Q®/ERAX 16	3316.60000	7.6	0–2.6	2.3	M 24 x 1	7117.16000
Hi-Q®/ERAX 20						
Hi-Q®/ERAX 20	3320.60000	8.5	0–2.5	2.3	M 28 x 1.5	7117.20000
Hi-Q®/ERAX 25						
Hi-Q®/ERAX 25	3325.60000	8.8	0–1.9	2.3	M 32 x 1.5	7117.25000
Hi-Q®/ERAX 32						
Hi-Q®/ERAX 32	3332.60000	9.8	0–1.1	2.5	M 40 x 1.5	7117.32000
Hi-Q®/ERAX 40						
Hi-Q®/ERAX 40	3340.60000	11.7	0–1.0	2.4	M 50 x 1.5	7117.40000

Type	Part no.	Dimensions [mm] B	L1	L2	C	Accessory Wrench
Hi-Q®/ERAXC 16						
Hi-Q®/ERAXC 16	3316.70000	12.5	3.1–7.5	7.2	M 24 x 1	7117.16000
Hi-Q®/ERAXC 20						
Hi-Q®/ERAXC 20	3320.70000	13.5	3.1–7.5	7.3	M 28 x 1.5	7117.20000
Hi-Q®/ERAXC 25						
Hi-Q®/ERAXC 25	3325.70000	13.8	2.5–6.9	7.3	M 32 x 1.5	7117.25000
Hi-Q®/ERAXC 32						
Hi-Q®/ERAXC 32	3332.70000	14.9	1.8–6.2	7.6	M 40 x 1.5	7117.32000
Hi-Q®/ERAXC 40						
Hi-Q®/ERAXC 40	3340.70000	16.6	1.5–5.9	7.3	M 50 x 1.5	7117.40000

Accessories are not included in delivery.

Retrofit driven tools and turning machines to internal cooling with reCool®

Retrofitted internal cooling with reCool®

Standard peripheral cooling

Key features of reCool® rotary RCR for use with spindles

- // Cost-friendly conversion of existing tooling systems to through coolant in only two minutes
- // For ER and ERM nuts in driven tools and turning machines and for ER collets to ISO 15488 / DIN 6499
- // Speeds up to 12,000 rpm*
- // Coolant pressures up to 58 bar / 800 PSI in RCR / ER**
- // Maintenance-free coolant lubricated bearings
- // For coolant through tools (with sealing disks DS) and for peripheral cooling (with coolant flush disks KS)
- // For both emulsion and oil coolants
- // Convert inner-threaded driven tools to outer-threaded, using the reCool® adapter. Thus, successfully prepare different types of driven tooling for the use of reCool®
- // RCR / ERM with intRlox nut design for safety
- // Not for use with sealed collets

* *6,000 rpm with RCR / ER 40.*
** *Coolant pressures up to 100 or 150 bar / 1400 or 2100 PSI for RCR / ERM.*

Expert advice

reCool® RCR is designed for standard covered machines due to the constant loss of coolant of the wet-bearing system. The amount of coolant loss may be influenced and enlarged due to pressure, throughput, viscosity, RPM, tool length and tool diameter.

Please contact your REGO-FIX specialist to learn more about working with reCool®.

reCool® rotary coolant supply system RCR

Type	Part no.	Dimensions [mm] B	D	Thread	Accessory Wrench
Set RCR / ER (for emulsion and oil based coolants)					
SET RCR / ER 11	3711.10000	16.6	21.75	M 14 x .075	7117.11000
SET RCR / ER 16	3716.10000	24.5	34	M 22 x 1.5	7117.16000
SET RCR / ER 20	3720.10000	26	40	M 25 x 1.5	7117.20000
SET RCR / ER 25	3725.10000	27	50	M 32 x 1.5	7117.25000
SET RCR / ER 32	3732.10000	29.5	62.5	M 40 x 1.5	7117.32000
SET RCR / ER 40	3740.10000	32.5	72.5	M 50 x 1.5	7117.40000

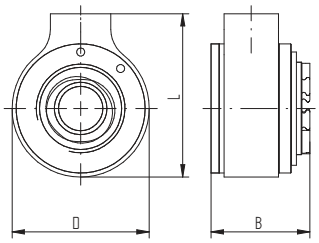
Included in set RCR Type	Qty.
RCR / ER 16 – 40	1
SET RHS	1
SET RVG 1/8" – 0°	2
SET RVA 1/8" – 90°	2

Type	Part no.	Dimensions [mm] B	D	Thread	Accessory Wrench
RCR / ER Nut Only (for emulsion and oil based coolants)					
RCR / ER 11	3711.19000	16.6	21.75	M 14 x .075	7117.11000
RCR / ER 16	3716.19000	24.5	34	M 22 x 1.5	7117.16000
RCR / ER 20	3720.19000	26	40	M 25 x 1.5	7117.20000
RCR / ER 25	3725.19000	27	50	M 32 x 1.5	7117.25000
RCR / ER 32	3732.19000	29.5	62.5	M 40 x 1.5	7117.32000
RCR / ER 40	3740.19000	32.5	72.5	M 50 x 1.5	7117.40000

Expert advice

ER11 reCool units use a special sealing disk made only for reCool. See page 73 for part numbers.

SET RCR / ER, SET RCR/ ERM



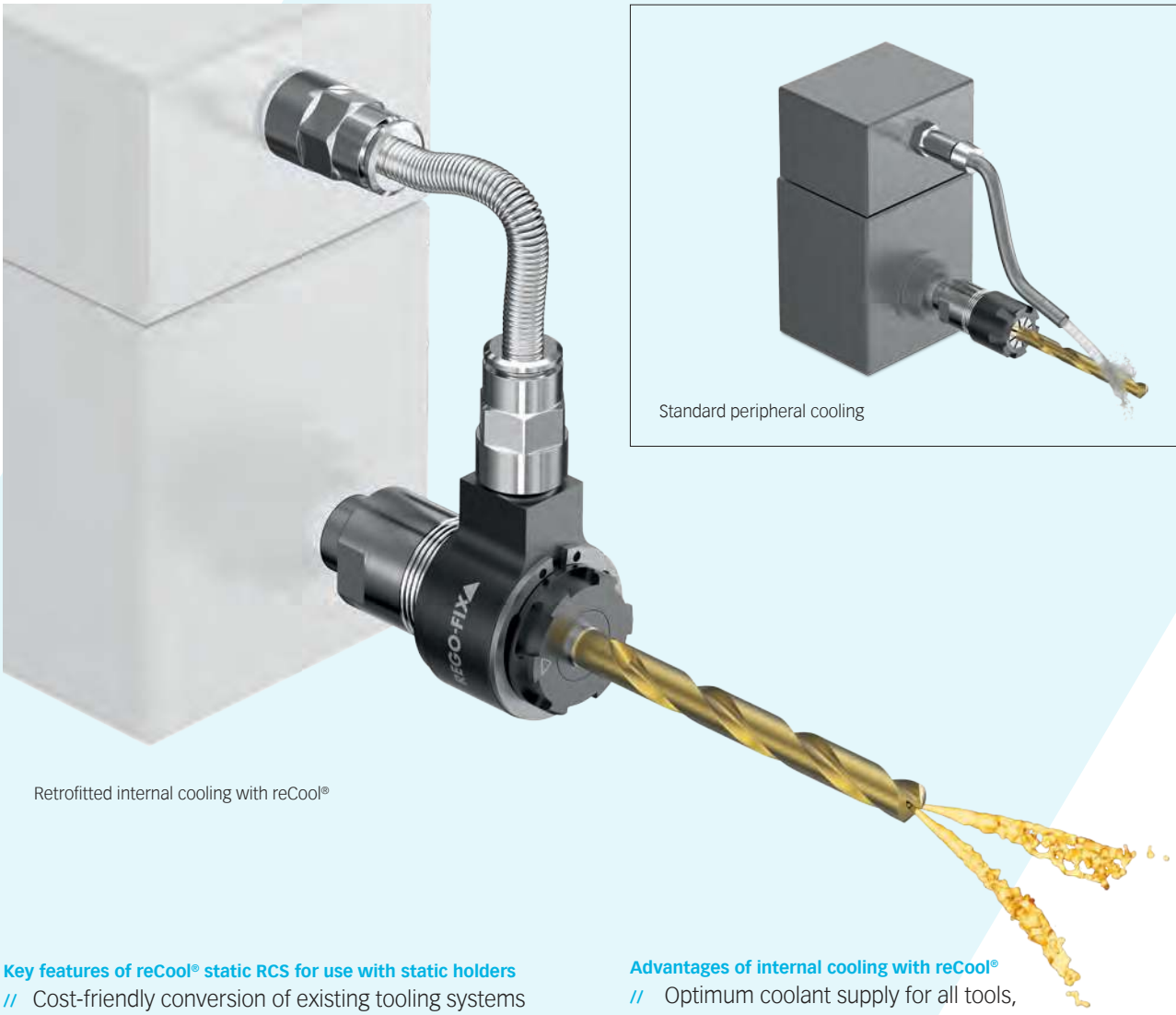
RCR / ER, RCR / ERM

Type	Part no.	Dimensions [mm] B	D	Thread	Accessory Wrench
Set RCR / ERM (for emulsion and oil based coolants)					
SET RCR / ERM 11	3711.30000	16.6	21.75	M 13 x 0.75	7117.11000
SET RCR / ERM 16	3716.30000	24.5	31	M 19 x 1	7117.16000
SET RCR / ERM 20	3720.30000	26	38	M 24 x 1	7117.20000
SET RCR / ERM 25	3725.30000	27	46	M 30 x 1	7117.25000

Included in set RCR/ERM Type	Qty.
RCR / ERM 16 – 25	1
SET RHS	1
SET RVG-100 1/8" – 0°	2
SET RVA-100 1/8" – 90°	2

Type	Part no.	Dimensions [mm] B	D	Thread	Accessory Wrench
RCR / ERM Nut Only					
RCR / ERM 11	3711.39000	16.6	21.75	M 23 x .075	7117.11000
RCR / ERM 16	3716.39000	24.5	31	M 29 x 1	7117.16000
RCR / ERM 20	3720.39000	26	38	M 24 x 1	7117.20000
RCR / ERM 25	3725.39000	27	46	M 30 x 1	7117.25000

Fast and easy retrofitting: From external flood cooling to internal cooling



Retrofitted internal cooling with reCool®

Standard peripheral cooling

Key features of reCool® static RCS for use with static holders

// Cost-friendly conversion of existing tooling systems to through coolant in only two minutes
// For ER collets (DIN 6499 / ISO 15488) in stationary colletholders with external fine threads*
// Coolant pressures of up to 150 bar / 2100 PSI**
// Speeds of up to 12,000 rpm
// RCS / ERMX for emulsion and oil coolants
// Low-maintenance design
// For coolant through tools (with sealing disks DS) and for peripheral cooling (with coolant flush disks KS)
// intRlox (ERMX) nut design for safety

* *reCool® static can also be used for internal threading with the corresponding adapter.*

** *With high-pressure hoses RHS-HP. 100 bar/1450 psi with standard hose.*

Advantages of internal cooling with reCool®

// Optimum coolant supply for all tools, also for difficult to access machining
// No scattering or spray losses
// Optimized coolant quantity for each tool
// Increased chip removal
// Directs coolant straight to cutting tool

Disadvantages of standard peripheral cooling

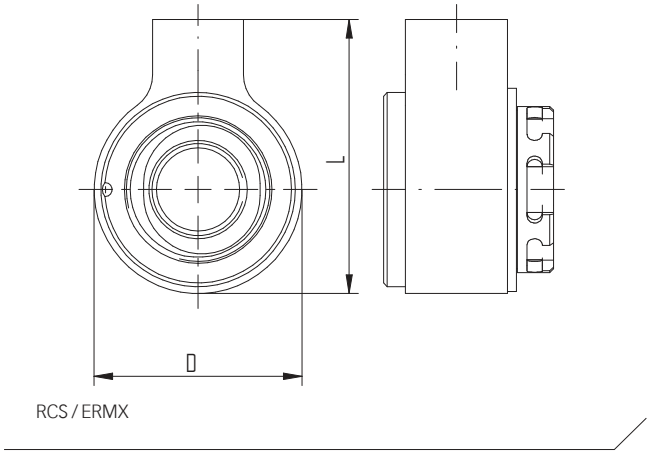
// Limited adjustment of the nozzles or spray tubes with different tool lengths and diameters
// Reduction of tool life since coolant is not led directly to the cutting edge
// Scattering losses of the spray jet
// Poor chip removal

reCool® static coolant supply system RCS

Type	Part no.	Dimensions [mm] B	D	Thread	Accessory Wrench
Set RCS / ERMX (for emulsion and oil based coolants)					
SET RCS / ERMX 16	3716.50000	22.5	27.5	M 19 x 1	7118.16000
SET RCS / ERMX 20	3720.50000	24	34.5	M 24 x 1	7118.20000
RCS / ERMX Nut Only					
RCS / ERMX 16	3716.59000	22.5	27.5	M 19 x 1	7118.16000
RCS / ERMX 20	3720.59000	24	34.5	M 24 x 1	7118.20000

Included in set RCS Type	Qty.
SET RCS / ERMX 16/20	1
SET RHS-100	1
SET RVG-100 1/8" – 0°	2
SET RVA-100 1/8" – 90°	2

SET RCS / ERMX



RCS / ERMX

Expert advice

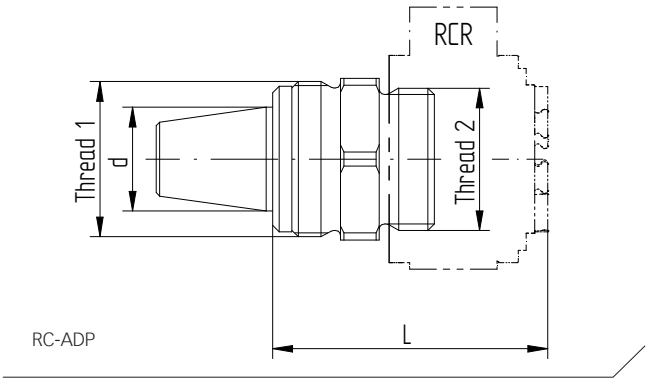
For wrench heads please refer to page 104. For the matching slip-off proof extensions please refer to page 152.

Matching accessories for your reCool®

Type	Part no.	Dimensions [mm] d	L	Thread G1	Thread G2
reCool® adapters exclusive for RCR / ER					
RC-ADP 16	3799.81600	16	8.7	M 24 x 1	M 22 x 1.5
RC-ADP 20	3799.82000	20	8.2	M 28 x 1.5	M 25 x 1.5
RC-ADP 25	3799.82500	25	7.9	M 32 x 1.5	M 32 x 1.5
RC-ADP 32	3799.83200	32	8.7	M 40 x 1.5	M 40 x 1.5
RC-ADP 40	3799.84000	40	9.6	M 50 x 1.5	M 50 x 1.5

reCool® adapter The reCool® adapter RC-ADP easily converts inner-threaded driven tools to outer-threaded ones which enables the use of the reCool® rotary coolant supply system RCR with different types of driven tooling.

How to use? Just screw the adapter with advised tightening torque into the driven tool, use the correctly installed reCool® rotary coolant supply system RCR and clamp the tool.



Expert advice

reCool® is only applicable with the use of our sealing DS / ER and Coolant flush disks KS / ER. Please note, that neither DS / ER nor KS / ER are included in the reCool® sets.

Please refer to page 75 for sealing disks and to page 83 for Coolant flush disks.

Type	Part no.	Bore Ø [mm]	Bore Ø [inch]
DS / ER 11			
Ø 3.0 mm	3911.00300	3.0	–
Ø 1/8"	3911.00318	–	1/8
Ø 4.0 mm / 5/32"	3911.00400	4.0	5/32
Ø 3/16"	3911.00476	–	3/16
Ø 5.0 mm	3911.00500	5.0	–
Ø 6.0 mm	3911.00600	6.0	–
Ø 1/4"	3911.00635	–	1/4

Expert advice

DS / ER 11 sealing disks are made only for use with the reCool system, and are not compatible with standard coolant nuts.

reCool® accessories

Type	Part no.	Length [mm]
High-pressure hoses (≤150 bar) with threaded 1/8" ends		
RHS-HP L100	3799.97100	100
RHS-HP L200	3799.97200	200
RHS-HP L300	3799.97300	300
RHS-HP L400	3799.97400	400
Coolant pipe with protector (≤100 bar)		
SET RHS-100	3799.95000	–
Coolant pipe with protector exclusive for RCR/ER		
SET RHS	3799.91000	–
Straight fitting (≤100 bar)		
SET RVG-100 1/8" – 0°	3799.96180	–
Straight fittings exclusive for RCR/ER		
SET RVG M8 x 1 – 0°	3799.92810	–
SET RVG 1/8" – 0°	3799.92180	–
90° elbow fitting (≤100 bar)		
SET RVA-100 1/8" – 90°	3799.96189	–
90° elbow fitting exclusive for RCR/ER		
RVA 1/8" – 90°	3799.92189	
Ball adapters 1/8" BSP		
RBA 10, 10.0 mm	3799.93100	–
RBA 11, 11.0 mm	3799.93110	–
RBA 12, 12.0 mm	3799.93120	–
RBA 13, 13.0 mm	3799.93130	–
RBA 14, 14.0 mm	3799.93140	–
RBA 15, 15.0 mm	3799.93150	–
RBA 16, 16.0 mm	3799.93160	–
Aluminum ring adapters 1/8" BSP		
RRA 10, 10.0 mm	3799.94100	–
RRA 11, 11.0 mm	3799.94110	–
RRA 12, 12.0 mm	3799.94120	–
RRA 13, 13.0 mm	3799.94130	–
RRA 14, 14.0 mm	3799.94140	–
RRA 15, 15.0 mm	3799.94150	–
RRA 16, 16.0 mm	3799.94160	–

Coolant pipe with protector RHS

Straight fitting RVG

90° elbow fitting RVA

Ball adapter RBA

Aluminium ring adapters RRA

Affordable solution for internal cooling

Our sealing disks allow you to use your regular non-sealed collet for internal cooling, saving you acquisition costs for new collets.

Key advantages

Swiss quality disks

Sealing range

0.5 mm

High pressure

For applications up to 150 bar / 2100 PSI.

Protection

Protects against all kind of dirt and chips entering the slots of the collet.

Matched tooling system for best fit

Our long-lasting machining experience results in a well-engineered system. All components are fitted together to one system to maximize your machining potential.

Coolant resistant

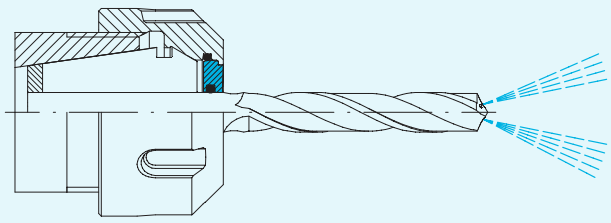
O-ring for aggressive coolant (VITON®-quality).

Interchangeable

Quick change of sealing disks according to required tool shank diameter.

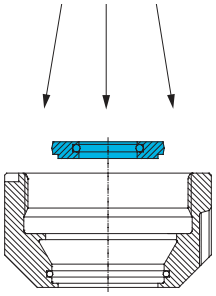
Coolant through

For better cooling and lubrication. Extends tool life and supports chip removal.



DS / ER

Sealing disks DS / ER

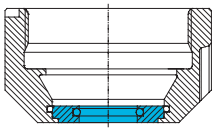


Assembling

Assembling Insert the small diameter of the disk into the center of the coolant nut. Apply an even pressure until the disk is properly seated into the nut.

The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

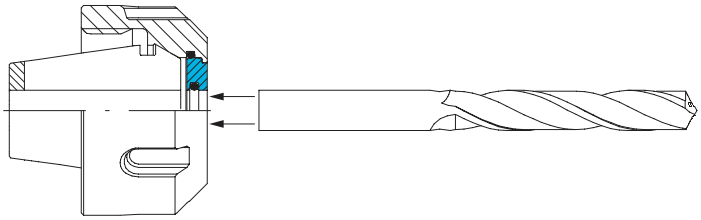
Removing To remove the disk, simply press on the outside of the disk evenly until it snaps out.



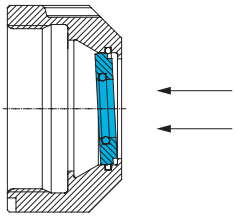
Inserted DS / ER

Expert advice

Insert tool with the shank side first. O-ring might be damaged if cutting tool is inserted from the back with the cutting edge side.



Insert tool



Disk removal

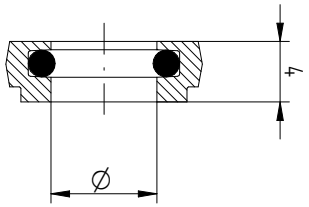
Sealing disks DS / ER

Type	Part no.	Ø [inch]	Bore Ø [mm]	Bore Ø [inch]	Incl. in set
DS / ER 16					
DS / ER 16 SET (14 Stk. / pcs.)	3916.00000	–	3.0 – 10.0	0.1378 – 0.3937	–
Ø 3.0 mm	3916.00300	3/32"	3.0 – 2.5	0.1181 – 0.0984	–
Ø 3.5 mm	3916.00350	1/8"	3.5 – 3.0	0.1378 – 0.1181	•
Ø 4.0 mm	3916.00400	5/32"	4.0 – 3.5	0.1575 – 0.1378	•
Ø 4.5 mm	3916.00450	–	4.5 – 4.0	0.1772 – 0.1575	•
Ø 5.0 mm	3916.00500	3/16"	5.0 – 4.5	0.1969 – 0.1772	•
Ø 5.5 mm	3916.00550	7/32"	5.5 – 5.0	0.2165 – 0.1969	•
Ø 6.0 mm	3916.00600	–	6.0 – 5.5	0.2362 – 0.2165	•
Ø 6.5 mm	3916.00650	1/4"	6.5 – 6.0	0.2559 – 0.2362	•
Ø 7.0 mm	3916.00700	–	7.0 – 6.5	0.2756 – 0.2559	•
Ø 7.5 mm	3916.00750	9/32"	7.5 – 7.0	0.2953 – 0.2756	•
Ø 8.0 mm	3916.00800	5/16"	8.0 – 7.5	0.315 – 0.2953	•
Ø 8.5 mm	3916.00850	–	8.5 – 8.0	0.3346 – 0.315	•
Ø 9.0 mm	3916.00900	11/32"	9.0 – 8.5	0.3543 – 0.3346	•
Ø 9.5 mm	3916.00950	3/8"	9.5 – 9.0	0.374 – 0.3543	•
Ø 10.0 mm	3916.01000	–	10.0 – 9.5	0.3937 – 0.374	•
DS / ER 20					
SET DS / ER 20 (20 Stk. / pcs.)	3920.00000	–	3.0 – 13.0	0.1378 – 0.5118	–
Ø 3.0 mm	3920.00300	3/32"	3.0 – 2.5	0.1181 – 0.0984	–
Ø 3.5 mm	3920.00350	1/8"	3.5 – 3.0	0.1378 – 0.1181	•
Ø 4.0 mm	3920.00400	5/32"	4.0 – 3.5	0.1575 – 0.1378	•
Ø 4.5 mm	3920.00450	–	4.5 – 4.0	0.2165 – 0.1969	•
Ø 5.0 mm	3920.00500	3/16"	5.0 – 4.5	0.1969 – 0.1772	•
Ø 5.5 mm	3920.00550	7/32"	5.5 – 5.0	0.1772 – 0.1575	•
Ø 6.0 mm	3920.00600	–	6.0 – 5.5	0.2362 – 0.2165	•
Ø 6.5 mm	3920.00650	1/4"	6.5 – 6.0	0.2559 – 0.2362	•
Ø 7.0 mm	3920.00700	–	7.0 – 6.5	0.2756 – 0.2559	•
Ø 7.5 mm	3920.00750	9/32"	7.5 – 7.0	0.2953 – 0.2756	•
Ø 8.0 mm	3920.00800	5/16"	8.0 – 7.5	0.315 – 0.2953	•
Ø 8.5 mm	3920.00850	–	8.5 – 8.0	0.3346 – 0.315	•
Ø 9.0 mm	3920.00900	11/32"	9.0 – 8.5	0.3543 – 0.3346	•
Ø 9.5 mm	3920.00950	3/8"	9.5 – 9.0	0.374 – 0.3543	•
Ø 10.0 mm	3920.01000	–	10.0 – 9.5	0.3937 – 0.374	•
Ø 10.5 mm	3920.01050	13/32"	10.5 – 10.0	0.4134 – 0.3937	•
Ø 11.0 mm	3920.01100	–	11.0 – 10.5	0.433 – 0.4134	•
Ø 11.5 mm	3920.01150	7/16"	11.5 – 11.0	0.4528 – 0.4331	•
Ø 12.0 mm	3920.01200	15/32"	12.0 – 11.5	0.4724 – 0.4528	•
Ø 12.5 mm	3920.01250	–	12.5 – 12.0	0.4921 – 0.4724	•
Ø 13.0 mm	3920.01300	1/2"	13.0 – 12.5	0.5118 – 0.4921	•

Sealing disks DS / ER

Type	Part no.	Ø [inch]	Bore Ø [mm]	Bore Ø [inch]	Incl. in set
DS / ER 25					
SET DS / ER 25 (26 Stk. / pcs.)	3925.00000	–	3.0 – 16.0	0.1181 – 0.6299	–
Ø 3.0 mm	3925.00300	3/32"	3.0 – 2.5	0.1181 – 0.0984	–
Ø 3.5 mm	3925.00350	1/8"	3.5 – 3.0	0.1378 – 0.1181	•
Ø 4.0 mm	3925.00400	5/32"	4.0 – 3.5	0.1575 – 0.1378	•
Ø 4.5 mm	3925.00450	–	4.5 – 4.0	0.1772 – 0.1575	•
Ø 5.0 mm	3925.00500	3/16"	5.0 – 4.5	0.1969 – 0.1772	•
Ø 5.5 mm	3925.00550	7/32"	5.5 – 5.0	0.2165 – 0.1969	•
Ø 6.0 mm	3925.00600	–	6.0 – 5.5	0.2362 – 0.2165	•
Ø 6.5 mm	3925.00650	1/4"	6.5 – 6.0	0.2559 – 0.2362	•
Ø 7.0 mm	3925.00700	–	7.0 – 6.5	0.2756 – 0.2559	•
Ø 7.5 mm	3925.00750	9/32"	7.5 – 7.0	0.2953 – 0.2756	•
Ø 8.0 mm	3925.00800	5/16"	8.0 – 7.5	0.315 – 0.2953	•
Ø 8.5 mm	3925.00850	–	8.5 – 8.0	0.3346 – 0.315	•
Ø 9.0 mm	3925.00900	11/32"	9.0 – 8.5	0.3543 – 0.3347	•
Ø 9.5 mm	3925.00950	3/8"	9.5 – 9.0	0.374 – 0.3543	•
Ø 10.0 mm	3925.01000	–	10.0 – 9.5	0.3937 – 0.374	•
Ø 10.5 mm	3925.01050	13/32"	10.5 – 10.0	0.4134 – 0.3937	•
Ø 11.0 mm	3925.01100	–	11.0 – 10.5	0.433 – 0.4134	•
Ø 11.5 mm	3925.01150	7/16"	11.5 – 11.0	0.4528 – 0.433	•
Ø 12.0 mm	3925.01200	15/32"	12.0 – 11.5	0.4724 – 0.4528	•
Ø 12.5 mm	3925.01250	–	12.5 – 12.0	0.4921 – 0.4724	•
Ø 13.0 mm	3925.01300	1/2"	13.0 – 12.5	0.2118 – 0.4921	•
Ø 13.5 mm	3925.01350	17/32"	13.5 – 13.0	0.5315 – 0.5118	•
Ø 14.0 mm	3925.01400	–	14.0 – 13.5	0.5512 – 0.5315	•
Ø 14.5 mm	3925.01450	9/16"	14.5 – 14.0	0.5709 – 0.5512	•
Ø 15.0 mm	3925.01500	–	15.0 – 14.5	0.5906 – 0.5709	•
Ø 15.5 mm	3925.01550	19/32"	15.5 – 15.0	0.6102 – 0.5906	•
Ø 16.0 mm	3925.01600	5/8"	16.0 – 15.5	0.6299 – 0.6102	•

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR.



DS / ER

Sealing disks DS / ER

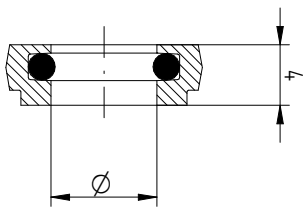
Type	Part no.	Ø [inch]	Bore Ø [mm]	Bore Ø [inch]	Incl. in set
DS / ER 32					
DS / ER 32 SET (34 Stk. / pcs.)	3932.00000	–	3.0 – 20.0	0.1181 – 0.7874	–
Ø 3.0 mm	3932.00300	3/32"	3.0 – 2.5	0.1181 – 0.0984	–
Ø 3.5 mm	3932.00350	1/8"	3.5 – 3.0	0.1378 – 0.1181	•
Ø 4.0 mm	3932.00400	5/32"	4.0 – 3.5	0.1575 – 0.1378	•
Ø 4.5 mm	3932.00450	–	4.5 – 4.0	0.1772 – 0.1575	•
Ø 5.0 mm	3932.00500	3/16"	5.0 – 4.5	0.1969 – 0.1772	•
Ø 5.5 mm	3932.00550	7/32"	5.5 – 5.0	0.2165 – 0.1969	•
Ø 6.0 mm	3932.00600	–	6.0 – 5.5	0.2362 – 0.2165	•
Ø 6.5 mm	3932.00650	1/4"	6.5 – 6.0	0.2559 – 0.2362	•
Ø 7.0 mm	3932.00700	–	7.0 – 6.5	0.2756 – 0.2559	•
Ø 7.5 mm	3932.00750	9/32"	7.5 – 7.0	0.2953 – 0.2756	•
Ø 8.0 mm	3932.00800	5/16"	8.0 – 7.5	0.315 – 0.2953	•
Ø 8.5 mm	3932.00850	–	8.5 – 8.0	0.3346 – 0.315	•
Ø 9.0 mm	3932.00900	11/32"	9.0 – 8.5	0.3543 – 0.3346	•
Ø 9.5 mm	3932.00950	3/8"	9.5 – 9.0	0.374 – 0.3543	•
Ø 10.0 mm	3932.01000	–	10.0 – 9.5	0.3937 – 0.374	•
Ø 10.5 mm	3932.01050	13/32"	10.5 – 10.0	0.4134 – 0.3937	•
Ø 11.0 mm	3932.01100	–	11.0 – 10.5	0.4331 – 0.4134	•
Ø 11.5 mm	3932.01150	7/16"	11.5 – 11.0	0.4528 – 0.4331	•
Ø 12.0 mm	3932.01200	15/32"	12.0 – 11.5	0.4724 – 0.4528	•
Ø 12.5 mm	3932.01250	–	12.5 – 12.0	0.4921 – 0.4724	•
Ø 13.0 mm	3932.01300	1/2"	13.0 – 12.5	0.5118 – 0.4921	•
Ø 13.5 mm	3932.01350	17/32"	13.5 – 13.0	0.5315 – 0.5118	•
Ø 14.0 mm	3932.01400	–	14.0 – 13.5	0.5512 – 0.5315	•
Ø 14.5 mm	3932.01450	9/16"	14.5 – 14.0	0.5709 – 0.5512	•
Ø 15.0 mm	3932.01500	–	15.0 – 14.5	0.5905 – 0.5709	•
Ø 15.5 mm	3932.01550	19/32"	15.5 – 15.0	0.6102 – 0.5906	•
Ø 16.0 mm	3932.01600	5/8"	16.0 – 15.5	0.6299 – 0.6102	•
Ø 16.5 mm	3932.01650	–	16.5 – 16.0	0.6496 – 0.6299	•
Ø 17.0 mm	3932.01700	21/32"	17.0 – 16.5	0.6693 – 0.6496	•
Ø 17.5 mm	3932.01750	11/16"	17.5 – 17.0	0.689 – 0.6693	•
Ø 18.0 mm	3932.01800	–	18.0 – 17.5	0.7087 – 0.689	•
Ø 18.5 mm	3932.01850	23/32"	18.5 – 18.0	0.7283 – 0.7087	•
Ø 19.0 mm	3932.01900	3/4"	19.0 – 18.5	0.748 – 0.7283	•
Ø 19.5 mm	3932.01950	–	19.5 – 19.0	0.7677 – 0.748	•
Ø 20.0 mm	3932.02000	25/32"	20.0 – 19.5	0.7874 – 0.7677	•

Included in the DS / ER sets are all marked disks within that ER size and the matching disk try DSR.

Sealing disks DS / ER

Type	Part no.	Ø [inch]	Bore Ø [mm]	Bore Ø [inch]	Incl. in set
DS / ER 40					
DS / ER 40 SET (46 Stk. / pcs.)	3940.00000	–	3.0 – 26.0	0.1181 – 1.0236	–
Ø 3.0 mm	3940.00300	3/32"	3.0 – 2.5	0.1181 – 0.0984	–
Ø 3.5 mm	3940.00350	1/8"	3.5 – 3.0	0.1378 – 0.1181	•
Ø 4.0 mm	3940.00400	5/32"	4.0 – 3.5	0.1575 – 0.1378	•
Ø 4.5 mm	3940.00450	–	4.5 – 4.0	0.1772 – 0.1575	•
Ø 5.0 mm	3940.00500	3/16"	5.0 – 4.5	0.1969 – 0.1772	•
Ø 5.5 mm	3940.00550	7/32"	5.5 – 5.0	0.2165 – 0.1969	•
Ø 6.0 mm	3940.00600	–	6.0 – 5.5	0.2362 – 0.2165	•
Ø 6.5 mm	3940.00650	1/4"	6.5 – 6.0	0.2559 – 0.2362	•
Ø 7.0 mm	3940.00700	–	7.0 – 6.5	0.2756 – 0.2559	•
Ø 7.5 mm	3940.00750	9/32"	7.5 – 7.0	0.2953 – 0.2756	•
Ø 8.0 mm	3940.00800	5/16"	8.0 – 7.5	0.315 – 0.2953	•
Ø 8.5 mm	3940.00850	–	8.5 – 8.0	0.3347 – 0.315	•
Ø 9.0 mm	3940.00900	11/32"	9.0 – 8.5	0.3543 – 0.3347	•
Ø 9.5 mm	3940.00950	3/8"	9.5 – 9.0	0.374 – 0.3543	•
Ø 10.0 mm	3940.01000	–	10.0 – 9.5	0.3937 – 0.374	•
Ø 10.5 mm	3940.01050	13/32"	10.5 – 10.0	0.4134 – 0.3937	•
Ø 11.0 mm	3940.01100	–	11.0 – 10.5	0.433 – 0.4134	•
Ø 11.5 mm	3940.01150	7/16"	11.5 – 11.0	0.4528 – 0.433	•
Ø 12.0 mm	3940.01200	15/32"	12.0 – 11.5	0.4724 – 0.4528	•
Ø 12.5 mm	3940.01250	–	12.5 – 12.0	0.4921 – 0.4724	•
Ø 13.0 mm	3940.01300	1/2"	13.0 – 12.5	0.5118 – 0.4921	•
Ø 13.5 mm	3940.01350	17/32"	13.5 – 13.0	0.5315 – 0.5118	•
Ø 14.0 mm	3940.01400	–	14.0 – 13.5	0.5512 – 0.5315	•
Ø 14.5 mm	3940.01450	9/16"	14.5 – 14.0	0.5709 – 0.5512	•
Ø 15.0 mm	3940.01500	–	15.0 – 14.5	0.5905 – 0.5709	•
Ø 15.5 mm	3940.01550	19/32"	15.5 – 15.0	0.6102 – 0.5905	•
Ø 16.0 mm	3940.01600	5/8"	16.0 – 15.5	0.6299 – 0.6102	•

Included in the DS / ER sets are all marked disks within that ER size and the matching disk try DSR.

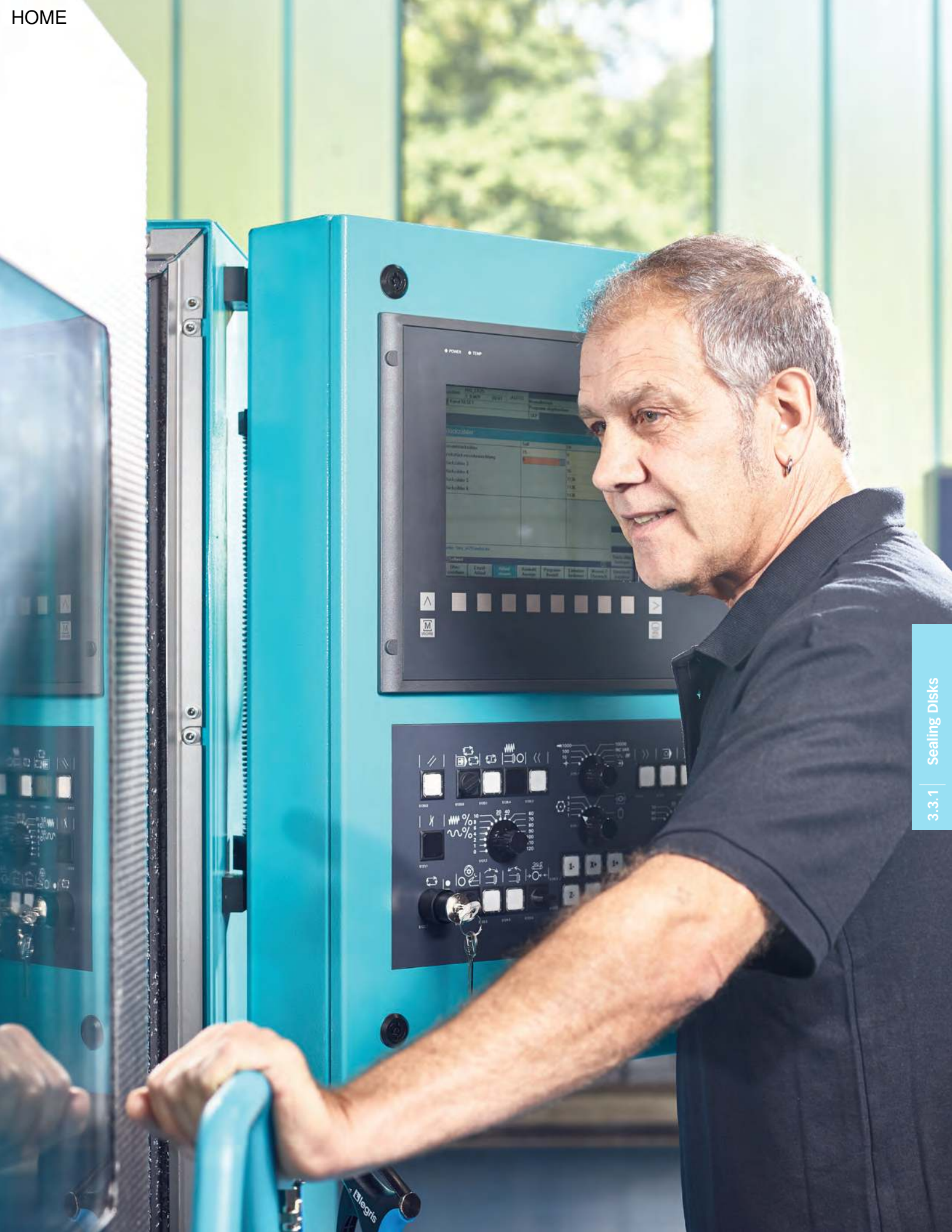


DS / ER

Sealing disks DS / ER

Type	Part no.	Ø [inch]	Bore Ø [mm]	Bore Ø [inch]	Incl. in set
DS / ER 40 continued					
Ø 16.5 mm	3940.01650	–	16.5 – 16.0	0.6496 – 0.6299	•
Ø 17.0 mm	3940.01700	21/32"	17.0 – 16.5	0.6693 – 0.6496	•
Ø 17.5 mm	3940.01750	11/16"	17.5 – 17.0	0.689 – 0.6693	•
Ø 18.0 mm	3940.01800	–	18.0 – 17.5	0.7087 – 0.689	•
Ø 18.5 mm	3940.01850	23/32"	18.5 – 18.0	0.7283 – 0.7087	•
Ø 19.0 mm	3940.01900	3/4"	19.0 – 18.5	0.748 – 0.7283	•
Ø 19.5 mm	3940.01950	–	19.5 – 19.0	0.7677 – 0.748	•
Ø 20.0 mm	3940.02000	23/32"	20.0 – 19.5	0.7874 – 0.7677	•
Ø 20.5 mm	3940.02050	–	20.5 – 20.0	0.8071 – 0.7874	•
Ø 21.0 mm	3940.02100	13/16"	21.0 – 20.5	0.8268 – 0.8071	•
Ø 21.5 mm	3940.02150	25/32"	21.5 – 21.0	0.8465 – 0.8268	•
Ø 22.0 mm	3940.02200	–	22.0 – 21.5	0.8661 – 0.8465	•
Ø 22.5 mm	3940.02250	7/8"	22.5 – 22.0	0.8858 – 0.8268	•
Ø 23.0 mm	3940.02300	29/32"	23.0 – 22.5	0.9055 – 0.8858	•
Ø 23.5 mm	3940.02350	–	23.5 – 23.0	0.9252 – 0.9055	•
Ø 24.0 mm	3940.02400	15/16"	24.0 – 23.5	0.9449 – 0.9252	•
Ø 24.5 mm	3940.02450	–	24.5 – 24.0	0.9646 – 0.9449	•
Ø 25.0 mm	3940.02500	31/32"	25.0 – 24.5	0.9843 – 0.9646	•
Ø 25.5 mm	3940.02550	1"	25.5 – 25.0	1.0039 – 0.9843	•
Ø 26.0 mm	3940.02600	–	26.0 – 25.5	1.0236 – 1.0039	•

** The ADP ER 50-DS/ER 40 only works in combination with a sealing disk DS/ER 40. DS/ER 40 is not included in delivery.*



Our solution for peripheral cooling

The design of our coolant flush disks leads the coolant along the edge of the cutting tool, providing you with an easy way to achieve peripheral cooling.

Key advantages

Swiss quality disks

Marking

Type and size (reduced disk selection errors).

Traceability

Lot number marking on all products for traceability through the entire manufacturing process.

Original REGO-FIX

Our long-lasting machining experience results in a well-engineered system. When buying ER coolant flush disks please pay attention to the REGO-FIX quality seal on the coolant flush disk: The triangle is our seal for outstanding quality made in Switzerland.

Universal use

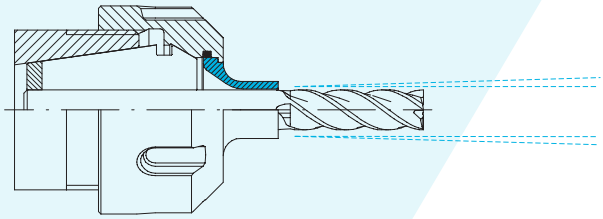
For all REGO-FIX collets and coolant nuts with interchangeable disk.

Interchangeable

Quick change of coolant flush disks according to required tool shank diameter.

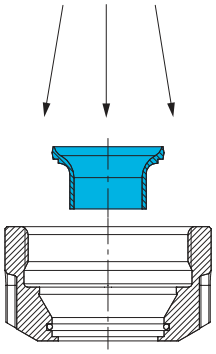
Peripheral cooling

For better cooling and lubrication.
Extends tool life and supports chip removal.

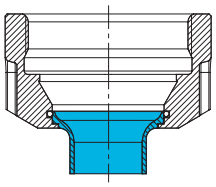


KS / ER

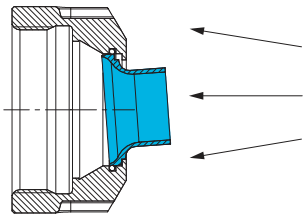
Coolant flush disks KS / ER



Assembling



Inserted KS / ER



Removing

Assembling Insert the small diameter of the disk into the center of the coolant nut. Apply an even pressure until the disk is properly seated into the nut.

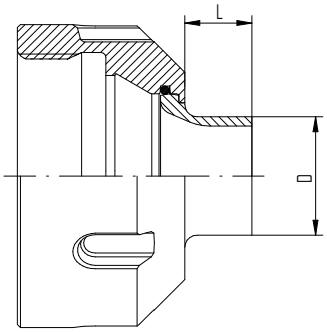
The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

Removing To remove the disk, simply press on the outside of the disk evenly until it snaps out.

Coolant flush disks KS / ER

Type	Part no.	Dimensions [mm] D	L	Ø [mm]	Ø [inch]
KS / ER 16 [mm]					
Ø 3.0 mm	3916.20300	6.4	11	3	–
Ø 4.0 mm	3916.20400	7.4	11	4	–
Ø 5.0 mm	3916.20500	8.4	11	5	–
Ø 6.0 mm	3916.20600	9.4	11	6	–
Ø 7.0 mm	3916.20700	11	11	7	–
Ø 8.0 mm	3916.20800	11	11	8	–
Ø 9.0 mm	3916.20900	11	2	9	–
Ø 10.0 mm	3916.21000	11	2	10	–
BLANK KS / ER 16, Ø 11 x 12*	3916.29999	11	12	–	–
KS / ER 16 [inch]					
Ø 1/8"	3916.30318	6.6	11	3.175	1/8"
Ø 3/16"	3916.30476	8.2	11	4.763	3/16"
Ø 1/4"	3916.30635	9.7	11	6.35	1/4"
Ø 5/16"	3916.30794	11	11	7.938	5/16"
Ø 3/8"	3916.30953	11	2	9.525	3/8"
KS / ER 20 [mm]					
Ø 3.0 mm	3920.20300	6.4	11	3	–
Ø 4.0 mm	3920.20400	7.4	11	4	–
Ø 5.0 mm	3920.20500	8.4	11	5	–
Ø 6.0 mm	3920.20600	9.4	11	6	–
Ø 7.0 mm	3920.20700	10.4	11	7	–
Ø 8.0 mm	3920.20800	11.4	11	8	–
Ø 9.0 mm	3920.20900	12.4	11	9	–
Ø 10.0 mm	3920.21000	14	11	10	–
Ø 12.0 mm	3920.21200	14	3	12	–
BLANK KS / ER 20, Ø 14 x 12*	3920.29999	14	12	–	–

** Work material: 42CrMoS4 (1.7227).*



KS / ER

Coolant flush disks KS / ER

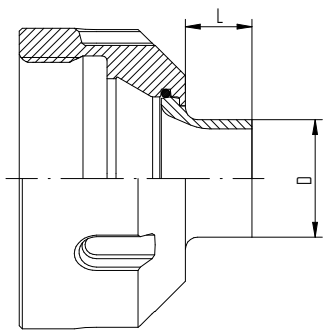
Type	Part no.	Dimensions [mm] D	L	Ø [mm]	Ø [inch]
KS / ER 20 [inch]					
Ø 1/8"	3920.30318	6.6	11	3.175	1/8"
Ø 3/16"	3920.30476	8.2	11	4.763	3/16"
Ø 1/4"	3920.30635	9.7	11	6.35	1/4"
Ø 5/16"	3920.30794	11.3	11	7.983	5/16"
Ø 3/8"	3920.30953	14	11	9.525	3/8"
Ø 7/16"	3920.31111	14	11	11.113	7/16"
Ø 1/2"	3920.31270	14	3	12.7	1/2"
KS / ER 25 [mm]					
Ø 3.0 mm	3925.20300	6.4	11	3	–
Ø 4.0 mm	3925.20400	7.4	11	4	–
Ø 5.0 mm	3925.20500	8.4	11	5	–
Ø 6.0 mm	3925.20600	9.4	11	6	–
Ø 7.0 mm	3925.20700	10.4	11	7	–
Ø 8.0 mm	3925.20800	11.4	11	8	–
Ø 9.0 mm	3925.20900	12.4	11	9	–
Ø 10.0 mm	3925.21000	13.4	11	10	–
Ø 12.0 mm	3925.21200	15.4	11	12	–
Ø 14.0 mm	3925.21400	17.4	11	14	–
Ø 16.0 mm	3925.21600	19	11	16	–
BLANK KS / ER 25, Ø 19 x 12*	3925.29999	19	12	–	–
KS / ER 25 [inch]					
Ø 1/8"	3925.30318	6.6	11	3.175	1/8"
Ø 3/16"	3925.30476	8.2	11	4.763	3/16"
Ø 1/4"	3925.30635	9.7	11	6.35	1/4"
Ø 5/16"	3925.30794	11.3	11	7.938	5/16"
Ø 3/8"	3925.30953	12.9	11	9.525	3/8"
Ø 7/16"	3925.31111	14.5	11	11.113	7/16"
Ø 1/2"	3925.31270	16.1	11	12.7	1/2"
Ø 9/16"	3925.31429	17.7	11	14.288	9/16"
Ø 5/8"	3925.31588	19	11	15.875	5/8"

** Work material: 42CrMoS4 (1.7227).*

Coolant flush disks KS / ER

Type	Part no.	Dimensions [mm] D	L	Ø [mm]	Ø [inch]
KS / ER 32 [mm]					
Ø 3.0 mm	3932.20300	6.4	11	3	–
Ø 4.0 mm	3932.20400	7.4	11	4	–
Ø 5.0 mm	3932.20500	8.4	11	5	–
Ø 6.0 mm	3932.20600	9.4	11	6	–
Ø 7.0 mm	3932.20700	10.4	11	7	–
Ø 8.0 mm	3932.20800	11.4	11	8	–
Ø 9.0 mm	3932.20900	12.4	11	9	–
Ø 10.0 mm	3932.21000	13.4	11	10	–
Ø 12.0 mm	3932.21200	15.4	11	12	–
Ø 14.0 mm	3932.21400	17.4	11	14	–
Ø 16.0 mm	3932.21600	19.4	11	16	–
Ø 18.0 mm	3932.21800	21.4	11	18	–
Ø 20.0 mm	3932.22000	24	11	20	–
BLANK KS / ER 32, Ø 24 x 12*	3932.29999	24	12	–	–
KS / ER 32 [inch]					
Ø 1/8"	3932.30318	6.6	11	3.175	1/8"
Ø 3/16"	3932.30476	8.2	11	4.763	3/16"
Ø 1/4"	3932.30635	9.7	11	6.35	1/4"
Ø 5/16"	3932.30794	11.3	11	7.938	5/16"
Ø 3/8"	3932.30953	12.9	11	9.525	3/8"
Ø 7/16"	3932.31111	14.5	11	11.113	7/16"
Ø 1/2"	3932.31270	16.1	11	12.7	1/2"
Ø 9/16"	3932.31429	17.7	11	14.288	9/16"
Ø 5/8"	3932.31588	19.3	11	15.875	5/8"
Ø 3/4"	3932.31905	24	11	19.05	3/4"

** Work material: 42CrMoS4 (1.7227).*



KS / ER


REGO-FIX

Concentricity and optimum vibration damping saves time and money

Ambitious toolholding Thanks to the unique clamping method of the PGU, clamped tools can be used in production quickly and safely. The advanced technology not only increases the work safety for the user, but also reflects our ecological thinking, which manifests itself – among other things – through low energy consumption during the clamping process. The clamping unit clamps the powRgrip collet into the toolholder with a force of up to nine tons. The pressure fit provided between the collet and toolholder creates a radial force, which is concentrated on the tool shank via the slotted collet and holds the tool safely and with a high degree of concentricity.

The powRgrip® System consists of

// High-precision powRgrip collet
// powRgrip toolholder
// powRgrip clamping unit (automatic or manual)

How the powRgrip® System works

// Insert the powRgrip collet into the powRgrip toolholder
// Insert the cutting tool into the powRgrip collet
// Clamp collet and cutting tool into the powRgrip toolholder with a powRgrip clamping unit PGU (automatic) or PGC (manual)

Cutting tool

powRgrip® collet

powRgrip® toolholder

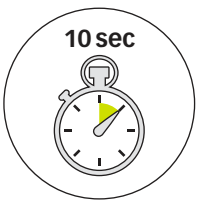
Automatic clamping unit PGU

Manual clamping unit PGC

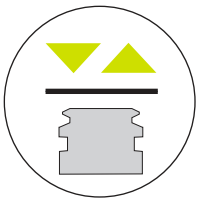
Toolholding made fast, safe and easy

The clamping unit PGU 9500 has been awarded the Red Dot design award for industrial design, highlighting the good usability and outstanding design of the machine.

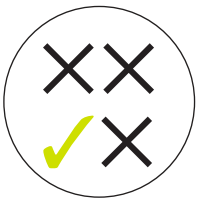
reddot award 2015
honourable mention industrial design



Clamp the tool safely and securely by pushing just one button. The clamping will take less than 10 seconds, without the use of heat.



Clamp tools with maximum clamping force and best runout in the powRgrip collet and toolholder.



Smart System – no setting of parameters required. Clamping pressure is controlled by the insertion of the respective clamping insert (APG). There are five clamping inserts (APG) available for the clamping of different collet sizes.

Minimize runout – boost productivity

Experience outstanding quality We at REGO-FIX know how to minimize your runout and boost your productivity. This is why we designed our powRgrip® toolholders to fulfill diverse criteria all crucial for achieving machining excellence.

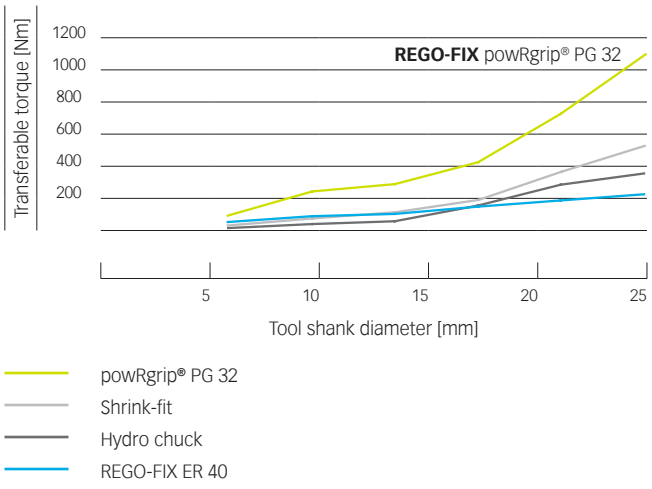
The outstanding design paired with our experienced engineering make the powRgrip products one of our most powerful toolholding options. Our PG clamping collets tout a solid collet TIR of down to 1 µm, leading to a total system runout of max. TIR of 3 µm. Further increases in machining productivity are possible by incorporating our matching items.

The PG toolholder and collet together make the PG System a high-quality and high-precision option for challenging machining applications. What you see is what you get: all our products bear the REGO-FIX triangle – our seal for outstanding Swiss quality.

True power A competitor comparison indicates that the transferable torque with powRgrip is more than twice as high as the same tool shank diameter clamped with a shrink-fit method. This results in powRgrip being the ultimate toolholding system for HPC and HSC cutting.

Transferable torque of the powRgrip® System

Measured transferable torque per shank diameter / Source: In-house testing



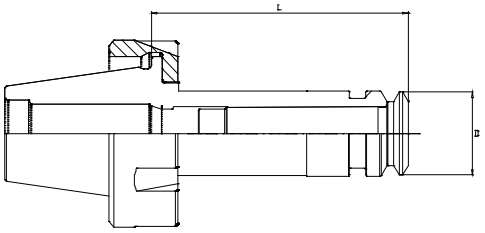
Swiss quality standard
Our products marked Swiss made are manufactured at our headquarters in Tenniken, Switzerland.

swissQuick collet adapters

What is it? The swissQuick ER-to-PG adapter is a short "mini-holder" with a solid ER body profile on the back, with a powRgrip colley cavity on the front. This unique design allows for quick collet changes with an ER fixture while still receiving the benefits of the powRgrip system.

TIR of the system PG runout of 0.0001" or better. ER runout of 0.0002" with ultra-precision collet; ER runout of 0.0004" or better with standard collet.

Locking ring The Swissquick is configured with a special locking ring to ensure that the collet body is removed with the nut.



ER-to-PG swissQuick

		Dimensions [mm]		
Type	**Part no.**	**D**	**L**	**ER nut thread**
ER nut with mini thread				
ER 20M / PG 10 swissQuick	7661.20100	16	35.5	M 24 x 1
ER 25M / PG 15 swissQuick	7661.25150	24	36	M 30 x 1
ER nut with coarse thread				
ER 20 / PG 10 swissQuick	7660.20100	16	35.5	M 25 x 1.5
ER 25 / PG 15 swissQuick	7660.25150	24	36	M 32 x 1.5

Microbore collets PG-MB

Type	Part no.	Ø [mm]	Ø [decimal inch]	Ø [inch]
PG 10-MB [mm]				
Ø 0.2 mm	1710.00209	0.2	0.0079	–
Ø 0.3 mm	1710.00309	0.3	0.0118	–
Ø 0.4 mm	1710.00409	0.4	0.0157	–
Ø 0.5 mm	1710.00509	0.5	0.0197	–
Ø 0.6 mm	1710.00609	0.6	0.0236	–
Ø 0.7 mm	1710.00709	0.7	0.0276	–
Ø 0.8 mm	1710.00809	0.8	0.0315	–
Ø 0.9 mm	1710.00909	0.9	0.0354	–
Ø 1.0 mm	1710.01009	1.0	0.0394	–
Ø 1.5 mm	1710.01509	1.5	0.0591	–
PG 10-MB [inch]				
Ø 1/16"	1710.01589	1.5875	0.0625	1/16"

PG-MB

PG standard collets

Type	Part no.	Ø [mm]	[decimal inch]	[inch]
PG 10 [mm]				
Ø 2.0 mm	1710.02000	2.0	0.0787	–
Ø 2.5 mm	1710.02500	2.5	0.0984	–
Ø 3.0 mm	1710.03000	3.0	0.1181	–
Ø 3.5 mm	1710.03500	3.5	0.1378	–
Ø 4.0 mm	1710.04000	4.0	0.1575	–
Ø 4.5 mm	1710.04500	4.5	0.1772	–
Ø 5.0 mm	1710.05000	5.0	0.1969	–
Ø 5.5 mm	1710.05500	5.5	0.2165	–
Ø 6.0 mm	1710.06000	6.0	0.2362	–
PG 10 [inch]				
Ø 1/8"	1710.03181	3.175	0.125	1/8"
Ø 3/16"	1710.04761	4.763	0.1875	3/16"
Ø 1/4"	1710.06351	6.35	0.25	1/4"
PG 15 [mm]				
Ø 3.0 mm	1715.03000	3.0	0.1181	–
Ø 3.5 mm	1715.03500	3.5	0.1378	–
Ø 4.0 mm	1715.04000	4.0	0.1575	–
Ø 4.5 mm	1715.04500	4.5	0.1772	–
Ø 5.0 mm	1715.05000	5.0	0.1969	–
Ø 5.5 mm	1715.05500	5.5	0.2165	–
Ø 6.0 mm	1715.06000	6.0	0.2362	–
Ø 7.0 mm	1715.07000	7.0	0.2756	–
Ø 8.0 mm	1715.08000	8.0	0.315	–
Ø 9.0 mm	1715.09000	9.0	0.3543	–
Ø 10.0 mm	1715.10000	10.0	0.3937	–

Type	Part no.	Ø [mm]	[decimal inch]	[inch]
PG 15 [inch]				
Ø 1/8"	1715.03181	3.175	0.125	1/8"
Ø 3/16"	1715.04761	4.763	0.1875	3/16"
Ø 1/4"	1715.06351	6.35	0.25	1/4"
Ø 5/16"	1715.07941	7.938	0.3125	5/16"
Ø 3/8"	1715.09521	9.525	0.375	3/8"

Coolant flush collets PG-CF

Type	Part no.	Ø [mm]	Ø [decimal inch]	Ø [inch]
PG 10-CF [mm]				
Ø 2.0 mm	1710.02002	2.0	0.0787	–
Ø 2.5 mm	1710.02502	2.5	0.0984	–
Ø 3.0 mm	1710.03002	3.0	0.1181	–
Ø 4.0 mm	1710.04002	4.0	0.1575	–
Ø 5.0 mm	1710.05002	5.0	0.1969	–
Ø 6.0 mm	1710.06002	6.0	0.2362	–
PG 10-CF [inch]				
Ø 1/8"	1710.03183	3.175	0.125	1/8"
Ø 3/16"	1710.04763	4.763	0.1875	3/16"
Ø 1/4"	1710.06353	6.35	0.25	1/4"
PG 15-CF [mm]				
Ø 3.0 mm	1715.03002	3.0	0.1181	–
Ø 4.0 mm	1715.04002	4.0	0.1575	–
Ø 5.0 mm	1715.05002	5.0	0.1969	–
Ø 6.0 mm	1715.06002	6.0	0.2362	–
Ø 7.0 mm	1715.07002	7.0	0.2756	–
Ø 8.0 mm	1715.08002	8.0	0.315	–
Ø 9.0 mm	1715.09002	9.0	0.3543	–
Ø 10.0 mm	1715.10002	10.0	0.3937	–
PG 15-CF [inch]				
Ø 1/8"	1715.03183	3.175	0.125	1/8"
Ø 3/16"	1715.04763	4.763	0.1875	3/16"
Ø 1/4"	1715.06353	6.35	0.25	1/4"
Ø 5/16"	1715.07943	7.938	0.3125	5/16"
Ø 3/8"	1715.09523	9.525	0.375	3/8"

PG-CF

Long shank collets PG-L

PG-L

Type	Part no.	Ø [mm]	[decimal inch]	[inch]
PG 15-L [mm]				
Ø 4.0 mm	1715.04001	4.0	0.1575	–
Ø 5.0 mm	1715.05001	5.0	0.1969	–
Ø 6.0 mm	1715.06001	6.0	0.2362	–
Ø 8.0 mm	1715.08001	8.0	0.315	–
Ø 10.0 mm	1715.10001	10.0	0.3937	–
PG 15-L [inch]				
Ø 1/4"	1715.06350	6.35	0.25	1/4"
Ø 5/16"	1715.07940	7.94	0.3126	5/16"
Ø 3/8"	1715.09520	9.52	0.3748	3/8"

Short shank collets PG-S

PG-S

Type	Part no.	Ø [mm]	[decimal inch]	[inch]
PG 10-S [mm]				
Ø 3.0 mm	1710.03008	3.0	0.1181	–
Ø 4.0 mm	1710.04008	4.0	0.1575	–
Ø 6.0 mm	1710.06008	6.0	0.2362	–
PG 10-S [inch]				
Ø 1/8"	1710.03188	3.175	0.125	1/8"
Ø 3/16"	1710.04768	4.763	0.1875	3/16"
Ø 1/4"	1710.06358	6.35	0.25	1/4"
PG 15-S [mm]				
Ø 4.0 mm	1715.04008	4.0	0.1575	–
Ø 5.0 mm	1715.05008	5.0	0.1969	–
Ø 6.0 mm	1715.06008	6.0	0.2362	–
Ø 8.0 mm	1715.08008	8.0	0.315	–
Ø 10.0 mm	1715.10008	10.0	0.3937	–
PG 15-S [inch]				
Ø 1/8"	1715.03188	3.175	0.125	1/8"
Ø 3/16"	1715.04768	4.763	0.1875	3/16"
Ø 1/4"	1715.06358	6.35	0.25	1/4"
Ø 5/16"	1715.07948	7.94	0.3126	5/16"
Ø 3/8"	1715.09528	9.52	0.3748	3/8"

PG-S

Automatic clamping unit PGU 9500
Clamping inserts APG's for PGU 9500

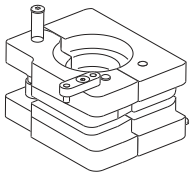
Type	Part no.	Dimensions W x D x H [mm]	Weight [lb]
PGU 9500			
PGU 9500 A	7610.95100	555 x 454 x 648	200

Clamping inserts APG not included.

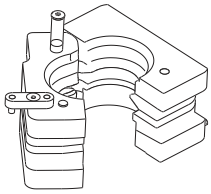
Type	Part no.	Dimensions W x D x H [mm]	Weight [lb]	Use for
Clamping inserts APG				
APG 906*	7611.06900	100 x 95 x 80	6.6	PG 6
APG 910	7611.10900	100 x 95 x 80	6.6	PG 10
APG 915	7611.15900	100 x 95 x 80	6.6	PG 15
APG 925	7611.25900	100 x 95 x 80	6.6	PG 25
APG 932	7611.32900	100 x 95 x 80	6.6	PG 32

**APG 906 is only suited for PGU 9006 and 9500. All other APG's can be used for PGU 9000 / 9006 / 9500.*

PGU 9500



APG



APG (opened)

Manual clamping unit PGC 2506
Clamping inserts APC's for PGC 2506

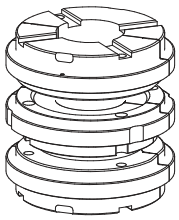
Type	Part no.	Dimensions W x D x H [mm]	Weight [lb]
PGC			
SET PGC 2506	7621.25069	578 x 420 x 43	40

Includes clamping unit, hand pump and stand. Does not include APC'S.

Type	Part no.	Dimensions Ø [mm]	Weight [lb]	Use for
Clamping inserts APC				
APC 6	7622.06000	30 x 60	2	PG 6
APC 10	7622.10000	30 x 60	2	PG 10
APC 15	7622.15000	30 x 60	2	PG 15
APC 25	7622.25000	30 x 60	2	PG 25

**APC 6 is only suited for SET PGC 2506. All other APC's can be used for SET PGC 2506 and 2510.*

PGC 2506



APC

Contents

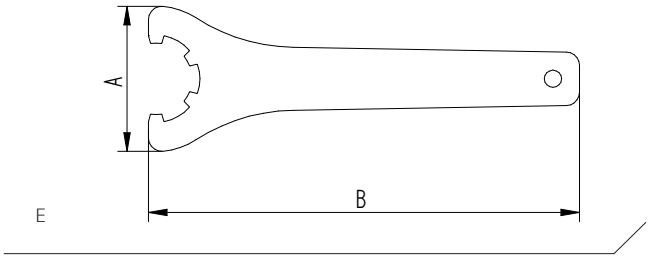
ER accessories

Enhance your tool life with the proper accessories for safe toolholding.

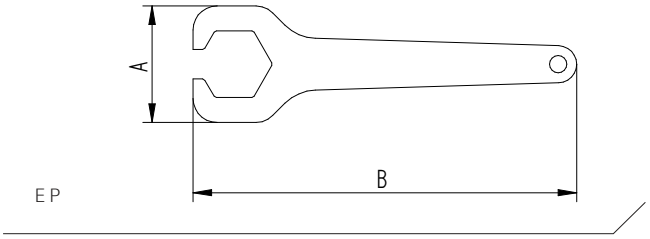

REGO-FIX

Wrenches

Type	Part no.	A [mm]	B [mm]	Nut Type ER	ERC	ERB	ERBC	ERM	ERMC	ERMX	ERMXC
E											
E 16	7111.16000	55	163	–	–	–	–	–	–	–	–
E 20	7111.20000	60	183	–	–	–	–	–	–	–	–
E 25	7111.25000	70	203	•	•	•	•	–	–	–	–
E 32	7111.32000	80	253	•	•	•	•	–	–	–	–
E 40	7111.40000	96	283	•	•	•	•	–	–	–	–
E P											
E 11 P	7112.11010	32	95	•	•	–	–	–	–	–	–
E 16 P	7112.16010	44	145	•	•	•	•	–	–	–	–
E 20 P	7112.20010	52	170	•	•	•	•	–	–	–	–
E M											
E 8 M	7113.08000	12	74	–	–	–	–	•	–	–	–
E 11 M	7113.11000	17	95	–	–	–	–	•	•	–	–
E 16 M	7113.16000	22	117	–	–	–	–	•	•	–	–
E 20 M	7113.20000	29	129	–	–	–	–	•	•	–	–
E 25 M	7113.25000	36	141	–	–	–	–	•	•	–	–
E MX											
E 8 MX	7118.08000	12	74	–	–	–	–	–	–	•	–
E 11 MX	7118.11000	17	95	–	–	–	–	–	–	•	–
E 16 MX	7118.16000	22.5	117	–	–	–	–	–	–	•	•
E 20 MX	7118.20000	29	129	–	–	–	–	–	–	•	•
E 25 MX	7118.25000	36	141	–	–	–	–	–	–	•	•



E



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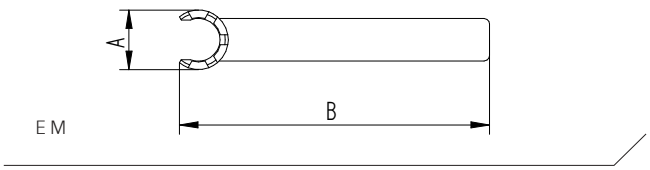

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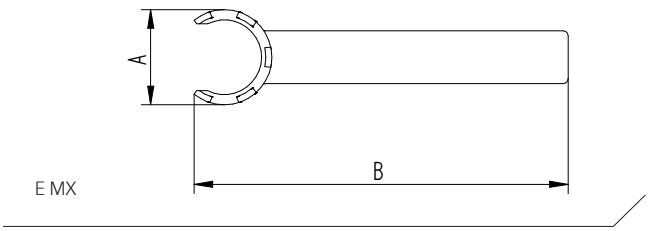
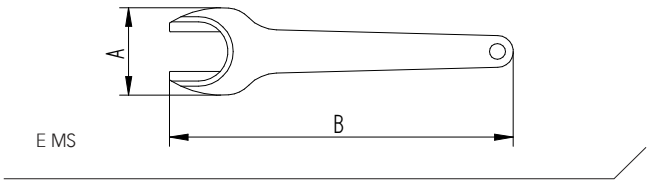


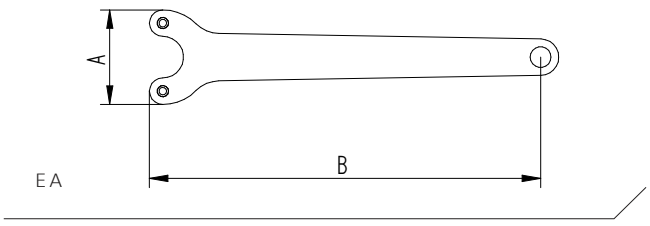
E MX

Wrenches

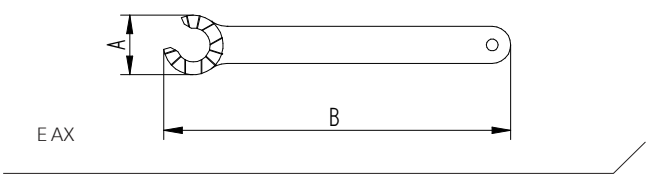
Type	Part no.	A [mm]	B [mm]	Nut Type ER MS	Nut Type ERAX	Nut Type ERAXC
E MS						
E 8 MS	7114.08000	19	76	•	–	–
E 11 MS	7114.11000	22	100	•	–	–
E 16 MS	7114.16000	33	130	•	–	–
E 20 MS	7114.20000	42	140	•	–	–
E A						
E 11 A	7115.11000	18.6	96	–	–	–
E 16 A	7115.16000	25	108	–	–	–
E 20 A	7115.20000	28	123	–	–	–
E 25 A	7115.25000	30.5	139	–	–	–
E 32 A	7115.32000	42	182	–	–	–
E AX						
E 11 AX	7117.11000	16	108	–	•	–
E 16 AX	7117.16000	22	131	–	•	•
E 20 AX	7117.20000	26	148	–	•	•
E 25 AX	7117.25000	30	165	–	•	•
E 32 AX	7117.32000	37	196	–	•	•
E 40 AX	7117.40000	47	220	–	•	•



E MS



E A



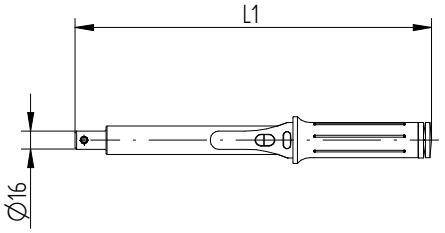
E AX

Torque wrenches
Slip-off proof extension V-E AX for E AX and A-E AX
Slip-off proof extension V-E MX for E MX and A-E MX

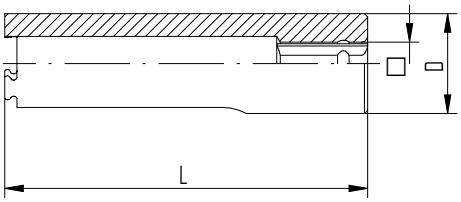
Type	Part no.	L1 [mm]	Range [ft-lbs]
Torque wrenches			
Micro	7150.02025	335	2.0 – 25.0
Small	8020.10050	300	7.5 – 37.0
Medium	8020.20100	340	15.0 – 80.0
Large	8020.60300	545	45.0 – 220.0

				Square ☐	
Type	Part no.	D [mm]	L [mm]	[mm]	[inch]
V-E AX					
V-E 11 AX	7155.11000	16.5	60	6.35	1/4"
V-E 16 AX	7155.16000	22.5	80	6.35	1/4"
V-E 20 AX	7155.20000	26	95	9.525	3/8"
V-E 25 AX	7155.25000	29.5	105	12.7	1/2"
V-E 32 AX	7155.32000	37.5	115	12.7	1/2"

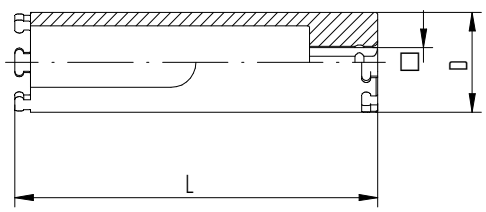
				Square ☐	
Type	Part no.	D [mm]	L [mm]	[mm]	[inch]
V-E MX					
V-E 8 MX	7159.08000	17	60	6.35	1/4"
V-E 11 MX	7159.11000	17	60	6.35	1/4"
V-E 16 MX	7159.16000	22.5	80	6.35	1/4"
V-E 20 MX	7159.20000	29	95	12.7	1/2"
V-E 25 MX	7159.25000	35	105	19.05	3/4"



Torque wrench



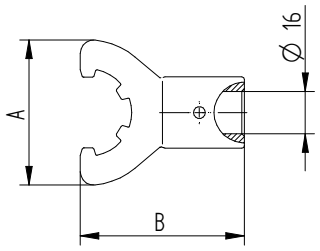
V-E AX



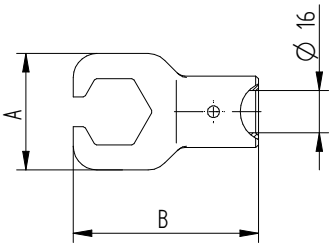
V-E MX

Wrench heads

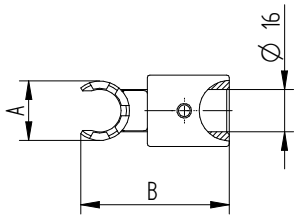
Type	Part no.	A [mm]	B [mm]
A-E			
A-E 16	7151.16000	55	62
A-E 20	7151.20000	60	62
A-E 25	7151.25000	70	72
A-E 32	7151.32000	80	72
A-E 40	7151.40000	96	82
A-E P			
A-E 11 P	7152.11010	32	57
A-E 16 P	7152.16010	44	70
A-E 20 P	7152.20010	52	80
A-E M			
A-E 8 M	7153.08000	12	53
A-E 11 M	7153.11000	17	54
A-E 16 M	7153.16000	22	56
A-E 20 M	7153.20000	29	68
A-E 25 M	7153.25000	36	70
A-E MX			
A-E 8 MX	7158.08000	12	53
A-E 11 MX	7158.11000	17	54
A-E 16 MX	7158.16000	22	56
A-E 20 MX	7158.20000	29	68
A-E 25 MX	7158.25000	36	70
A-E MS			
A-E 8 MS	7154.08000	19	51
A-E 11 MS	7154.11000	22	57
A-E 16 MS	7154.16000	33	60
A-E 20 MS	7154.20000	42	73
A-E AX			
A-E 11 AX	7157.11000	16	62
A-E 16 AX	7157.16000	22	63
A-E 20 AX	7157.20000	26	64
A-E 25 AX	7157.25000	29	93
A-E 32 AX	7157.32000	37	95
A-E 40 AX	7157.40000	47	99



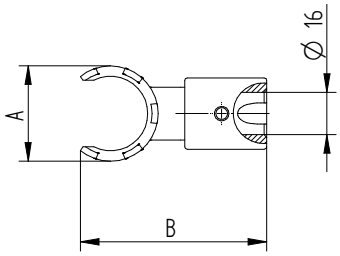
A-E



A-E P



A-E M



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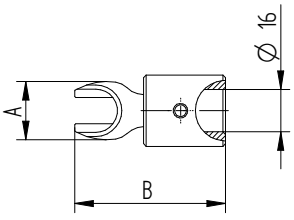
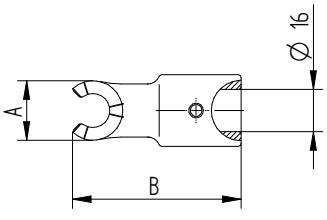


A-E MS

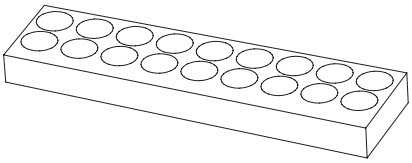


A-E AX

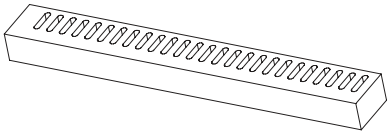
Trays for ER collet sets ZWT
Trays for sealing disk sets DSR
Tangs

ZWT DSR

Type	Part no.	Fits ... items
Trays for ER Inch collet sets ZWT		
ZWT 8 inch	7121.08300	3
ZWT 11 inch	7121.11300	7
ZWT 16 inch	7121.16300	12
ZWT 20 inch	7121.20300	7
ZWT 25 inch	7121.25300	9
ZWT 32 inch	7121.32300	12
ZWT 40 inch	7121.40300	14
Trays for ER Metric collet sets ZWT		
ZWT 8	**0**712.10800	9
ZWT 11	**0**712.11100	13
ZWT 16	**0**712.11600	10
ZWT 20	**0**712.12000	12
ZWT 25	**0**712.12500	15
ZWT 32	**0**712.13200	18
ZWT 40	**0**712.14000	23
Trays for sealing disk sets DSR		
DSR 16	0712.21600	14
DSR 20	0712.22000	20
DSR 25	0712.22500	26
DSR 32	0712.23200	34
DSR 40	0712.24000	46



ZWT



DSR

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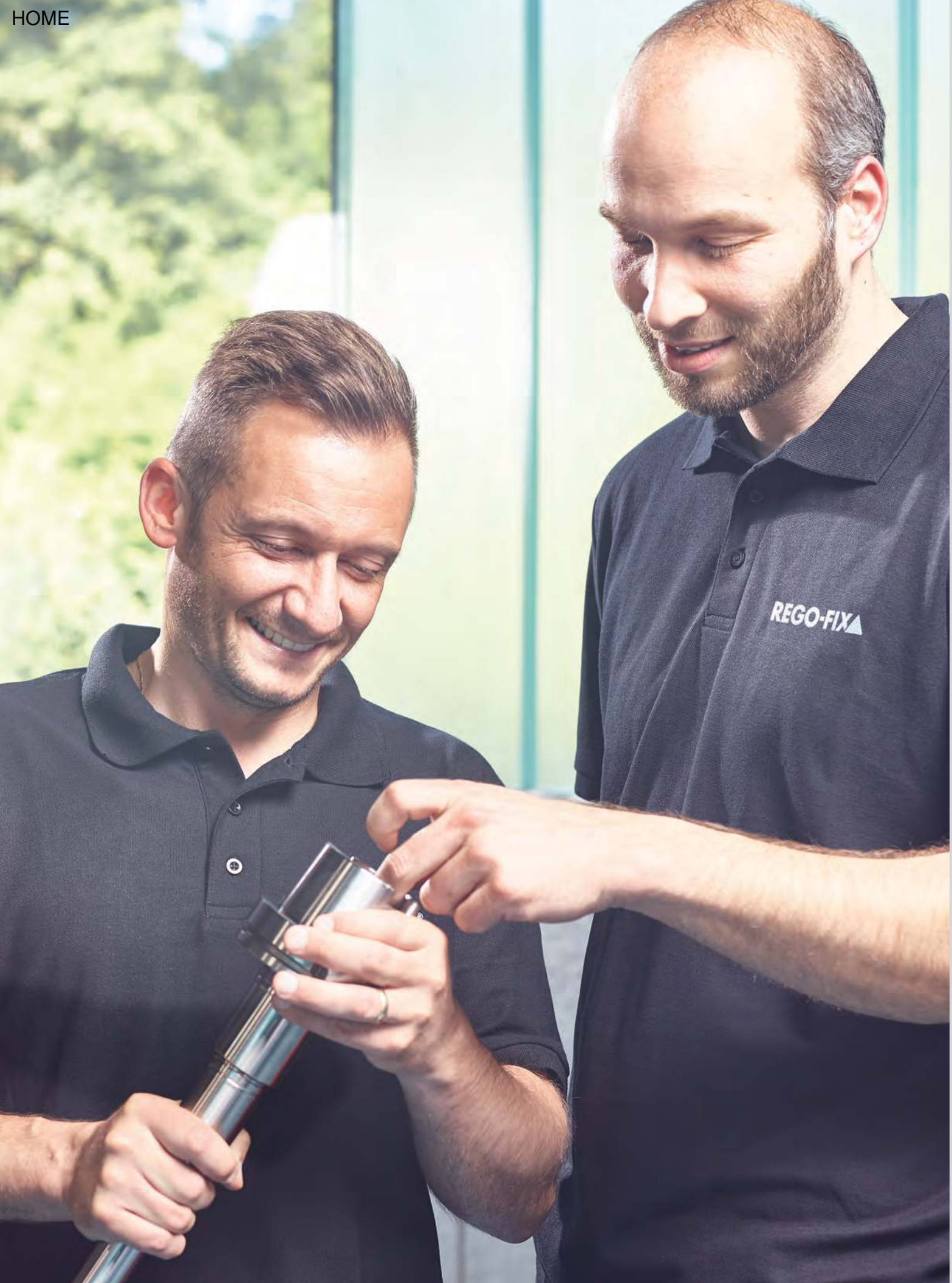
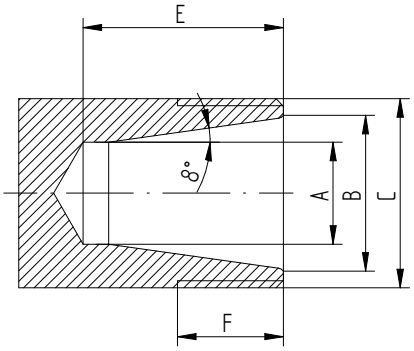
Technical information

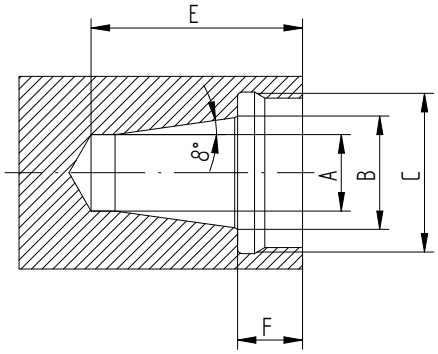

REGO-FIX

Dimensions for ER collet cavities in machine spindles and matching clamping nuts

ER size	Diameter range [mm]	ER	ERC	ERB	ERBC	ERM	ERMC	ERMX	ERMXC	Hi-Q® AX	Hi-Q® AXC	Measurements [mm] A	B	C	E	F
11	0.5 – 7.0	•	•	–	–	–	–	–	–	–	–	7.5	11	M 14 x 0.75	17	10
16	0.5 – 10.0	•	•	•	•	–	–	–	–	–	–	10.5	16	M 22 x 1.5	22	13
20	0.5 – 13.0	•	•	•	•	–	–	–	–	–	–	13.5	20	M 24 x 1.5	26.5	13.5
25	0.5 – 17.0	•	•	•	•	–	–	–	–	–	–	18.0	25	M 32 x 1.5	29	14
32	1.0 – 22.0	•	•	•	•	–	–	–	–	–	–	23.5	32	M 40 x 1.5	34	16
40	2.0 – 30.0	•	•	•	•	–	–	–	–	–	–	30.5	40	M 50 x 1.5	38	17
50	4.0 – 36.0	•	•	•	•	–	–	–	–	–	–	38	50	M 64 x 2	48	24
8	0.5 – 5.0	–	–	–	–	•	–	•	–	–	–	5.2	8	M 10 x 0.75	13	8
11	0.5 – 7.0	–	–	–	–	•	•	•	•	–	–	7.5	11	M 13 x 0.75	17	8.5
16	0.5 – 10.0	–	–	–	–	•	•	•	•	–	–	10.5	16	M 19 x 1	22	13
20	0.5 – 13.0	–	–	–	–	•	•	•	•	–	–	13.5	20	M 28 x 1.5	26.5	13.5
25	0.5 – 17.0	–	–	–	–	•	•	•	•	–	–	18	25	M 30 x 1	29	14
11	0.5 – 7.0	–	–	–	–	–	–	–	–	•	–	7.5	11	M 18 x 1	23	7
16	0.5 – 10.0	–	–	–	–	–	–	–	–	•	•	10.5	16	M 24 x 1	32	10
20	0.5 – 13.0	–	–	–	–	–	–	–	–	•	•	13.5	20	M 28 x 1.5	37.5	11
25	0.5 – 17.0	–	–	–	–	–	–	–	–	•	•	18	25	M 32 x 1.5	41	12
32	1.0 – 22.0	–	–	–	–	–	–	–	–	•	•	23.5	32	M 40 x 1.5	48	12
40	2.0 – 30.0	–	–	–	–	–	–	–	–	•	•	30.5	40	M 50 x 1.5	54	16



All other standard ER cavities

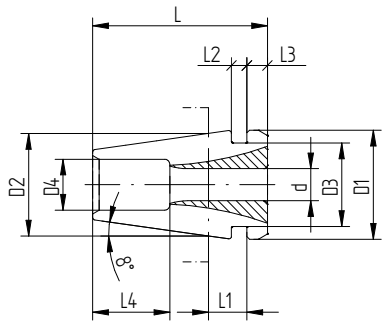


ER AX and ER AXC cavities

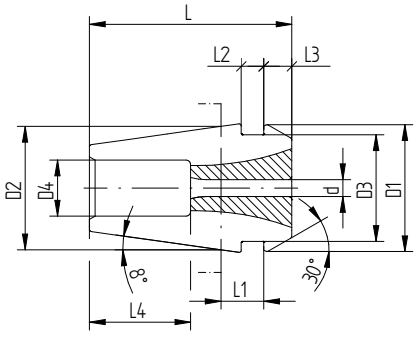
ER collets dimensions

Size [mm]		Measurements [mm]									
D2	**d**	**D1**	**D2**	**D3**	**D4**	**L**	**L1****	**L2**	**L3**	**L4**	**Drawing**
ER 8	1.0 – 2.5	8.5	8	6.5	4	13.6	2.98	1.2	1.5	6.	1
ER 8	3.0 – 5.0	8.5	8	6.5	–	13.6	2.98	1.2	1.5	–	2
ER 11	1.0 – 2.5	11.5	11	9.5	5	18	3.8	2	2.5	9	3
ER 11	3.0 – 7.0	11.5	11	9.5	–	18	3.8	2	2.5	–	4
ER 16	1.0 – 1.59	17	16	13.8	7.5	27.5	6.26	2.7	4	13	3
ER 16	2.0 – 4.76	17	16	13.8	7.5	27.5	6.26	2.7	4	10	3
ER 16	5.0 – 10.0	17	16	13.8	–	27.5	6.26	2.7	4	–	4
ER 16	9.5 – 10.0	17	16	13.8	–	26*	6.26	2.7	4	–	4
ER 20	1.0 – 1.59	21	20	17.4	9	31.5	6.36	2.8	4.8	16	3
ER 20	2.0 – 6.50	21	20	17.4	9	31.5	6.36	2.8	4.8	13	3
ER 20	7.0 – 13.0	21	20	17.4	–	31.5	6.36	2.8	4.8	–	4
ER 25	1.0 – 1.59	26	25	22	12	34	6.66	3.1	5	18	3
ER 25	2.0 – 7.50	26	25	22	12	34	6.66	3.1	5	15	3
ER 25	8.0 – 17.0	26	25	22	–	34	6.66	3.1	5	–	4
ER 32	2.0 – 4.76	33	32	29.2	15	40	7.16	3.6	5.5	20	3
ER 32	5.0 – 7.5	33	32	29.2	15	40	7.16	3.6	5.5	15	3
ER 32	8.0 – 22.0	33	32	29.2	–	40	7.16	3.6	5.5	–	4
ER 40	3.0 – 4.76	41	40	36.2	20	46	7.66	4.1	7	24	3
ER 40	5.0 – 8.5	41	40	36.2	20	46	7.66	4.1	7	18	3
ER 40	9.0 – 30.0	41	40	36.2	–	46	7.66	4.1	7	–	4

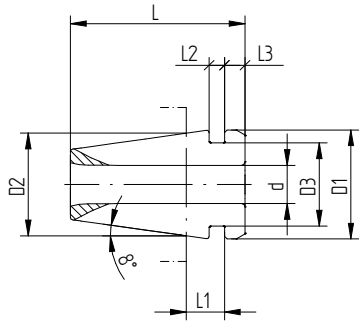
** Up to 27.5 available, depending on production. ** L1 references to the top plane of the collet holder.*



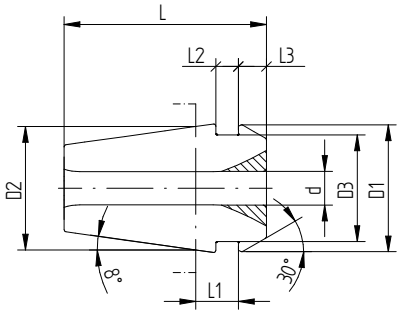
Drawing 1



Drawing 3



Drawing 2



Drawing 4

Increase collet and tool life

Optimize your surface finishes and extend tool life
by minimizing occurring vibrations during machining.

Always assemble correctly

First, clip the collet in the nut. Second, insert the tool shank more than $^{2}/_{3}$ into the collet.

1.

2.

Listen to the click

Do not tighten the torque wrench further after the first click is heard.

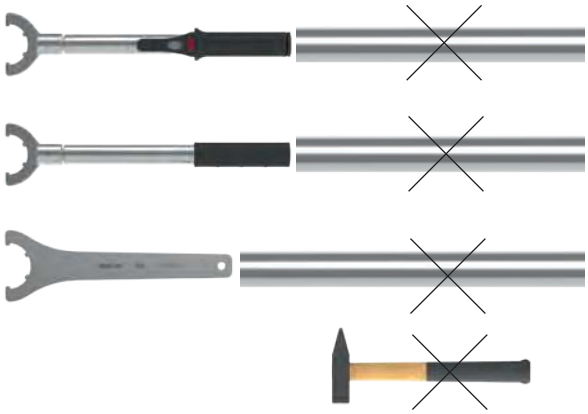
Get your TORCO-FIX. Check page 146 for order details.

Only use REGO-FIX wrenches

To mount the collet in the toolholder please use one of these special wrenches. Preferably the torque wrench, as they display the amount of applied force.

Regular wrenches can also be used. Be aware that only the torque wrench will display the exact amount of applied force, making it the most exact tool to mount colletholders professionally.

Never use any extensions nor hammers



Recommended tightening torque (ft-lbs) for clamping nuts

			Hi-Q® clamping nuts											
			ER / C		ERB / C		ERM / C		ERMX / C		ERAX / C		ER MS	
											Collets		Collets	
Collet size	**Ø [mm]**	**Ø [inch]**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**TORCO-FIX**
ER 8 MB	0.2 – 0.9	0.0078 – 0.035	–	–	–	–	4	–	4	–	–	–	4	Micro
ER 8	1.0 – 5.0	0.039 – 0.196	–	–	–	–	4	–	4	–	–	–	4	Micro
ER 11 MB	0.2 – 0.9	0.0078 – 0.035	6	–	–	–	6	–	6	–	6	–	6	Micro, S
ER 11	1.0 – 2.9	0.039 – 0.098	6	6	–	–	6	6	6	6	6	6	7	Micro, S
	3.0 – 7.0	0.118 – 0.256	24	16	–	–	16	13	16	13	24	21	7	Micro, S
ER 16 MB	0.2 – 0.9	0.0078 – 0.035	6	–	–	–	6	–	6	–	6	–	9	Micro, S
ER 16	1.0	0.039	6	–	5	–	6	–	6	–	6	–	9	Micro, S
	1.5 – 3.5	0.059 – 0.138	15	–	12	–	15	–	15	–	15	–	15	Micro, S
	4.0 – 4.5	0.157 – 0.177	30	30	25	25	18	–	18	–	30	30	15	S, M
	5.0 – 10.0	0.197 – 0.394	46	32	40	21	18	–	18	–	30	30	–	M
ER 20	1.0	0.039	12	–	10	–	12	–	12	–	12	–	9	Micro, S
	1.5 – 6.5	0.059 – 0.256	25	25	20	20	21	21	21	21	40	25	14	S, M
	7.0 – 13.0	0.276 – 0.512	60	60	60	60	21	21	21	21	40	25	14	S, M
ER 25	1.0 – 3.5	0.059 – 0.138	18	–	15	–	18	–	18	–	18	–	–	S, M
	4.0 – 4.5	0.157 – 0.177	40	40	35	35	24	24	24	24	40	40	–	S, M
	5.0 – 7.5	0.196 – 0.295	60	60	55	55	24	24	24	24	60	60	–	M, L
	8.0 – 17.0	0.315 – 0.669	80	60	80	60	24	24	24	24	60	60	–	M, L
ER 32	2.0 – 2.5	0.078 – 0.098	18	18	15	–	–	–	–	–	20	–	–	S, M
	3.0 – 7.5	0.118 – 0.291	100	100	95	65	–	–	–	–	80	65	–	M, L
	8.0 – 22.0	0.315 – 0.787	100	100	100	65	–	–	–	–	80	65	–	M, L
ER 40	3.0 – 26.0	0.118 – 1.023	130	130	130	130	–	–	–	–	95	95	–	M, L

** Includes ER standard and ER-UP.*

Expert advice

The maximum torque must not be more than 25% above the recommended tightening torque. Higher tightening torque may result in damage of the toolholder.

Expert advice

Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of REGO-FIX torque wrench. REGO-FIX will not be responsible for damage to toolholders or spindles of other manufacturers.

Recommended tightening torque (Nm) for ER clamping nuts

			Hi-Q®/ER clamping nuts											
			ER/ERC		ERB/ERBC		ERM/ERMC		ERMX/ERMXC		ERAX/ERAXC		ER MS	
											Collets		Collets	
Collet size	**Ø [mm]**	**Ø [inch]**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**ER-GB**	**ER***	**TORCO-FIX**
ER 8 MB	0.2 – 0.9	0.0078 – 0.035	–	–	–	–	6	–	6	–	–	–	6	Micro
ER 8	1.0 – 5.0	0.039 – 0.196	–	–	–	–	6	–	6	–	–	–	6	Micro
ER 11 MB	0.2 – 0.9	0.0078 – 0.035	8	–	–	–	8	–	8	–	8	–	8	Micro, S
ER 11	1.0 – 2.9	0.039 – 0.098	8	8	–	–	8	8	8	8	8	8	10	Micro, S
	3.0 – 7.0	0.118 – 0.256	24	16	–	–	16	13	16	13	24	21	10	Micro, S
ER 16 MB	0.2 – 0.9	0.0078 – 0.035	8	–	–	–	8	–	8	–	8	–	12	Micro, S
ER 16	1.0	0.039	8	–	6.4	–	8	–	8	–	8	–	12	Micro, S
	1.5 – 3.5	0.059 – 0.138	20	–	16	–	20	–	20	–	20	–	20	Micro, S
	4.0 – 4.5	0.157 – 0.177	40	40	32	32	24	–	24	–	40	40	20	S, M
	5.0 – 10.0	0.197 – 0.394	56	44	56	44	24	–	24	–	40	40	–	M
ER 20	1.0	0.039	16	–	12	–	16	–	16	–	16	–	12	Micro, S
	1.5 – 6.5	0.059 – 0.256	32	32	24	24	28	28	28	28	52	35	18.4	S, M
	7.0 – 13.0	0.276 – 0.512	80	35	80	24	28	28	28	28	52	35	18.4	S, M
ER 25	1.0 – 3.5	0.059 – 0.138	24	–	20	–	24	–	24	–	24	–	–	S, M
	4.0 – 4.5	0.157 – 0.177	56	56	48	48	32	32	32	32	56	56	–	S, M
	5.0 – 7.5	0.196 – 0.295	80	80	72	72	32	32	32	32	80	80	–	M, L
	8.0 – 17.0	0.315 – 0.669	104	80	104	79	32	32	32	32	80	80	–	M, L
ER 32	2.0 – 2.5	0.078 – 0.098	24	24	20	–	–	–	–	–	24	–	–	S, M
	3.0 – 7.5	0.118 – 0.291	136	136	128	90	–	–	–	–	104	90	–	M, L
	8.0 – 22.0	0.315 – 0.787	136	136	136	90	–	–	–	–	104	90	–	M, L
ER 40	3.0 – 26.0	0.118 – 1.023	176	176	176	176	–	–	–	–	128	128	–	M, L

** Includes ER standard and ER-UP.*

Expert advice

The maximum torque must not be more than 25% above the recommended tightening torque. Higher tightening torque may result in damage of the toolholder.

Expert advice

Higher clamping force of the clamping nut means higher stress on the toolholder. We recommend the use of REGO-FIX torque wrench. REGO-FIX will not be responsible for damage to toolholders or spindles of other manufacturers.

Shank diameter of taps

	Thread	ISO 529*		ISO 2283		DIN 371		DIN 357/376		DIN 352		JIS B 4430 1998		ASME B 94.9 1999	
[mm]	[inch]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]	[Ø]	[□]
M 1	–	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	–	–
M 1.1	–	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	–	–
M 1.2	–	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	–	–
M 1.4	–	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	–	–
M 1.6	1/16	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	0.141	0.11
M 1.7	–	–	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	–	–
M 1.8	–	2.5	2	–	–	2.5	2.1	–	–	2.5	2.1	3	2.5	0.141	0.11
M 2	–	2.5	2	–	–	2.8	2.1	–	–	2.8	2.1	3	2.5	0.141	0.11
M 2.2	–	2.8	2.24	–	–	2.8	2.1	–	–	2.8	2.1	3	2.5	0.141	0.11
M 2.3	–	–	–	–	–	2.8	2.1	–	–	2.8	2.1	3	2.5	–	–
M 2.5	3/32	2.8	2.25	–	–	2.8	2.1	–	–	2.8	2.1	3	2.5	0.141	0.11
M 2.6	–	–	–	–	–	2.8	2.1	–	–	2.8	2.1	3	2.5	–	–
M 3	1/8	3.15	2.5	2.24	1.8	3.5	2.7	2.2	–	3.5	2.1	4	3.2	0.141	0.11
M 3.5	–	3.55	2.8	2.5	2	4	3	2.5	2.1	4	3	4	3.2	0.141	0.11
M 4	5/32	4	3.15	3.15	2.5	4.5	3.4	2.8	2.1	4.5	3.4	5	4	0.168	0.131
M 4.5	3/16	4.5	3.55	3.55	2.8	6	4.9	3.5	2.7	6	4.9	5	4	0.194	0.152
M 5	–	5	4	4	3.15	6	4.9	3.5	2.7	6	4.9	5.5	4.5	0.194	0.152
M 6	1/4	6.3	5	4.5	3.55	6	4.9	4.5	3.4	6	4.9	6	4.5	0.255	0.191
M 7	5/16	7.1	5.6	5.6	4.5	7	5.5	5.5	4.3	6	4.9	6.2	5	0.318	0.238
M 8	–	8	6.3	6.3	5	8	6.2	6	4.9	6	4.9	6.2	5	0.318	0.238
M 9	–	9	7.1	7.1	5.6	9	7	7	5.5	7	5.5	7	5.5	–	–
M 10	3/8	10	8	8	6.3	10	8	7	5.5	7	5.5	7	5.5	0.318	0.286
M 11	–	8	6.3	8	6.3	–	–	8	6.2	8	6.2	8	6	–	–
M 12	1/2	9	7.1	9	7.1	–	–	9	7	9	7	8.5	6.5	0.367	0.275
M 14	9/16	11.2	9	11.2	9	–	–	11	9	11	9	10.5	8	0.429	0.322
M 16	5/8	12.5	10	12.5	10	–	–	12	9	12	9	12.5	10	0.48	0.36
M 18	11/16	14	11.2	14	11.2	–	–	14	11	14	11	14	11	0.542	0.406
M 20	13/16	14	11.2	14	11.2	–	–	16	12	16	12	15	12	0.652	0.489
M 22	7/8	16	12.5	16	12.5	–	–	18	14.5	18	14.5	17	13	0.697	0.523
M 24	15/16	18	14	18	14	–	–	18	14.5	18	14.5	19	15	0.76	0.571
M 27	1/16	20	16	–	–	–	–	20	16	20	16	20	15	0.896	0.672
M 30	3/16	20	16	–	–	–	–	22	18	22	18	23	17	1.021	0.766

All dimensions in mm (except US Standard ASME B 94.9 in inch).

** M 3 – M 10 with reinforced shank.*

Technical information for tapping collets ER-GB

x = not available
– = does not exist

			ER 11-GB		ER 16-GB		ER 20-GB		ER 25-GB		ER 32-GB		ER 40-GB		ER 50-GB	
			L = 18.0 L1 = 2.0 D1 = 11.3 D2 = 11.0		L = 27.5 L1 = 2.7 D1 = 16.8 D2 = 16.0		L = 31.5 L1 = 2.8 D1 = 20.8 D2 = 20.0		L = 34.0 L1 = 3.1 D1 = 25.8 D2 = 25.0		L = 40.0 L1 = 3.6 D1 = 32.8 D2 = 32.0		L = 46.0 L1 = 4.1 D1 = 40.8 D2 = 40.0		L = 60.0 L1 = 8.75 D1 = 51.8 D2 = 51.0	
d	**SW**	**L2**	**L3**	**D3**	**L3**	**D3**	**L3**	**D3**	**L3**	**D3**	**L3**	**D3**	**L3**	**D3**	**L3**	**D3**
[mm]	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**	**[mm]**
2.8	2.1	12	–	–	x	x	x	x	x	x	x	x	x	x	x	x
3.5	2.7	14	–	–	x	x	x	x	x	x	x	x	x	x	x	x
4	3	14	–	–	x	x	x	x	x	x	x	x	x	x	x	x
4	3.15 / 3.2	ER 11=14 ER 16 – 32 =15	–	–	4.8	7.5	9.8	9	11.8	12	17.8	15	x	x	x	x
4.5	3.4	ER 11=14 ER 16 – 32 =15	–	–	4.8	7.5	9.8	9	11.8	12	17.8	15	x	x	x	x
5	4	ER 11=14 ER 16 – 32 =18	–	–	4.8	7.5	9.8	9	11.8	12	17.8	15	x	x	x	x
5.5	4.3	18	–	–	4.8	7.5	9.8	9	11.8	12	17.8	15	x	x	x	x
5.5	4.5	18	–	–	4.8	7.5	9.8	9	11.8	12	17.8	15	x	x	x	x
6	4.5	18	–	–	4.8	7.5	8.8	9	10.8	12	16.8	15	22.8	20	x	x
6	4.9	ER 11=14 ER 16 – 40 =18	–	–	4.8	7.5	8.8	9	10.8	12	16.8	15	22.8	20	x	x
6.2	5	18	x	x	4.8	7.5	8.8	9	10.8	12	16.8	15	22.8	20	x	x
6.3	5	18	x	x	4.8	7.5	8.8	9	10.8	12	16.8	15	22.8	20	x	x
7	5.5	18	x	x	3.8	8.0	7.8	9	9.8	12	15.8	15	21.8	20	x	x
7.1	5.6	18	x	x	3.8	8.0	7.8	9	9.8	12	15.8	15	21.8	20	x	x
8	6.2 / 6.3	22	x	x	–	–	2.8	10	4.8	12	10.8	15	16.8	20	x	x
8.5	6.5	22	x	x	–	–	2.8	10	4.8	12	10.8	15	16.8	20	x	x
9	7 / 7.1	22	x	x	–	–	2.8	10	3.8	12	9.8	15	15.8	20	x	x
10	8	25	x	x	x	x	–	–	–	–	6.8	15	12.8	20	x	x
10.5	8	25	x	x	x	x	–	–	–	–	6.8	15	12.8	20	x	x
11	9	25	x	x	x	x	–	–	–	–	5.8	15	11.8	20	x	x
11.2	9	25	x	x	x	x	–	–	–	–	5.8	15	11.8	20	x	x
12	9	25	x	x	x	x	–	–	–	–	5.8	15	11.8	20	x	x
12.5	10	25	x	x	x	x	x	x	–	–	4.8	15	10.8	20	x	x
14	11 / 11.2	25	x	x	x	x	x	x	–	–	3.8	17	9.8	20	x	x
15	12	25	x	x	x	x	x	x	–	–	3.8	17	9.8	20	x	x
16	12 / 12.5	25	x	x	x	x	x	x	–	–	2.8	18	8.8	20	x	x
17	13	25	x	x	x	x	x	x	x	x	2.8	19.5	8.8	20	x	x
18	14.5	25	x	x	x	x	x	x	x	x	2.8	21	7.8	21	x	x
20	16	28	x	x	x	x	x	x	x	x	2.8	21.5	3.8	22	x	x
22	18	ER 40 = 28 ER 50 = 41	x	x	x	x	x	x	x	x	–	–	3.8	24	x	x
25	20	41	x	x	x	x	x	x	x	x	x	x	–	–	–	–
28	22	41	x	x	x	x	x	x	x	x	x	x	x	x	–	–
32	24	41	x	x	x	x	x	x	x	x	x	x	x	x	–	–

Technical information for tapping collets PCM ET1

		Measurements [mm]								
Type	**Range**	**d**	**D1**	**D2**	**L**	**L1**	**L2**	**L3**	**L4**	**M**
PCM ET1-12	M 0.5 – M 4	3.55	7	11.5	18	16.5	2.5	5	5.5	2 x M 2.5
PCM ET1-16	M 0.7 – M 6	6.3	11	17	22	20	2.8	7	7	2 x M 4 4 x M 4
PCM ET1-20	M 1 – M 8 (M 10)	7.1	14	21	24	23	2.8	8	7	2 x M 4 4 x M 4 4 x M 5
PCM ET1-25	M 1 – M 10 (M 12)	10	19	26	26	24	3	10	8	2 x M 5 4 x M 5 4 x M 6
PCM ET1-32	M 4 – M 12 (M 16)	12.5	23	33	33	32	3	1	10	2 x M 5 4 x M 5 4 x M 6 4 x M 8
PCM ET1-40	M 6 – M 16 (M 20)	17	28	41	42	42	3	12	13	4 x M 6

Expert advice

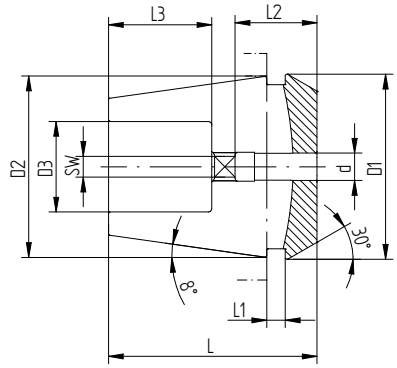
Do not use for coolant through tools and for applications with sealing disks.

Technical information for microbore collets

	Measurements [mm]									
Type	**d**	**D1**	**D2**	**D3**	**D4**	**L**	**L1**	**L2**	**L3**	**L4**
ER 8-MB	0.2 – 0.9	8.5	8	6.5	4	13.5	1.2	1.2	1.5	6
ER 11-MB	0.2 – 0.9	11.5	11	9.5	5	18	2	2	2.5	9
ER 16-MB	0.2 – 0.9	17	16	13.8	7.5	27.5	6.3	2.7	4	13

Expert advice

ER-MB collets have no clamping range. Only nominal diameters h7 can be clamped.



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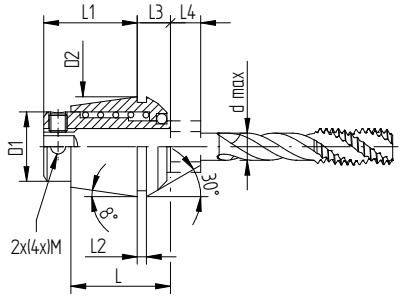
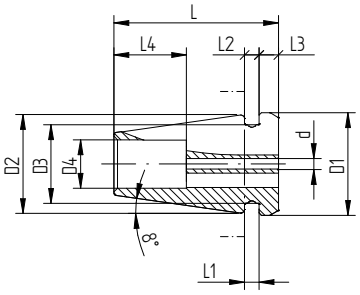


PCM ET1



ER-MB

Presetting range of powRgrip® collets

		PG 6/-CF		PG 6-S		PG 10/-CF		PG 10-S		PG 15/-CF		PG 15-S		PG 15-L**	
D	D	L [mm]		L [mm]		L [mm]		L [mm]		L [mm]		L [mm]		L [mm]	
[mm]	[inch]	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
0.2–1.0	–	21.5*	26.5*	–	–	20*	24*	–	–	–	–	–	–	–	–
1.5	–	23.5*	26.5*	–	–	16*	20*	–	–	–	–	–	–	–	–
–	1/16"	23.5*	26.5*	–	–	16*	20*	–	–	–	–	–	–	–	–
2.0	–	24	26.5	–	–	25	30	–	–	–	–	–	–	–	–
2.5	–	24	26.5	–	–	25	30	–	–	–	–	–	–	–	–
3.0	–	24	26.5	17	20	25	30	20.5	26	25	30	–	–	–	–
–	1/8"	24	26.5	17	20	25	30	20.5	26	25	30	18	25	–	–
3.5	–	–	–	–	–	25	30	–	–	25*	30*	–	–	–	–
4.0	–	23.5	25.5	–	–	25	30	20.5	26	25	30	18	25	25	53
4.5	–	–	–	–	–	25	30	–	–	25*	30*	–	–	–	–
–	3/16"	–	–	–	–	25	30	20.5	26	25	30	18	25	–	–
5.0	–	–	–	–	–	25	30	–	–	25	30	18	25	25	53
5.5	–	–	–	–	–	25	30	–	–	25*	30*	–	–	–	–
6.0	–	–	–	–	–	30	35	–	–	33	38	26	33	33	53
–	1/4"	–	–	–	–	30	35	23.5	29	33	38	26	33	33	53
7.0	–	–	–	–	–			–	–	33	38	–	–	–	–
–	5/16"	–	–	–	–	–	–	–	–	33	38	26	33	33	53
8.0	–	–	–	–	–	–	–	–	–	33	38	26	33	33	53
9.0	–	–	–	–	–	–	–	–	–	33	38	–	–	–	–
–	3/8"	–	–	–	–	–	–	–	–	37	40.5	31	38	37	53
10.0	–	–	–	–	–	–	–	–	–	37	40.5	31	38	37	53
11.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	7/16"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
12.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	1/2"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
13.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
14.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	9/16"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	5/8"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
16.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
18.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	3/4"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
22.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	7/8"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
25.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	1"	–	–	–	–	–	–	–	–	–	–	–	–	–	–

** CF not available. ** PG-L without stop screw.*

h6 shank tolerances

Metric	Tolerance	Minimum Size	Inch conversion
2.00	0.0060	1.9940	0.07850
3.00	0.0060	2.9940	0.11787
4.00	0.0080	3.9920	0.15717
5.00	0.0080	4.9920	0.19654
6.00	0.0080	5.9920	0.23591
7.00	0.0090	6.9910	0.27524
8.00	0.0090	7.9910	0.31461
9.00	0.0090	8.9910	0.35398
10.00	0.0090	9.9910	0.39335
11.00	0.0110	10.9890	0.43264
12.00	0.0110	11.9890	0.47201
13.00	0.0110	12.9890	0.51138
14.00	0.0110	13.9890	0.55075
15.00	0.0110	14.9890	0.59012
16.00	0.0110	15.9890	0.62949
17.00	0.0110	16.9890	0.66886
18.00	0.0110	17.9890	0.70823
19.00	0.0130	18.9870	0.74752
20.00	0.0130	19.9870	0.78689
22.00	0.0130	21.9870	0.86563
25.00	0.0130	21.9870	0.98374

Fractional	Decimal	Tolerance	Minimum Size
1/8	0.125	0.00024	0.12476
3/16	0.1875	0.00031	0.18719
1/4	0.250	0.00035	0.24965
5/16	0.3125	0.00035	0.31215
3/8	0.375	0.00035	0.37465
7/16	0.4375	0.00043	0.43707
1/2	0.500	0.00043	0.49957
9/16	0.5625	0.00043	0.56207
5/8	0.625	0.00043	0.62457
3/4	0.750	0.00051	0.74949
7/8	0.875	0.00051	0.87449
1	1.000	0.00051	0.99949

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