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ER SYSTEM

Made in
Switzerland

rego fix
Swiss Precision Tools

REGO-FIX®

REGO-FIX®

ER Products

ER Products

REGO-FIX®

REGO-FIX®

ER Products

ER Collets

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and size (reduces collet selection errors).

2 Traceability
Lot number is marked on all products for traceability throughout the entire manufacturing process.

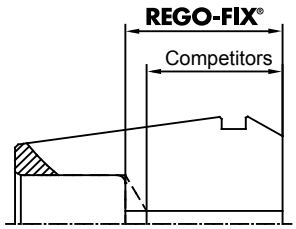
3 Original REGO-FIX®
REGO-FIX® is the inventor of the worldwide standardized ER collet system. Our extensive experience results in a well-engineered system. When buying ER collets, please note the REGO-FIX® quality symbol △ on the front of the collet.

Wide Clamping Range
The 16-slot design allows a wide clamping range while maintaining best T.I.R.

Broad Range of Products
Sizes from ER 8 up to ER 50 for diameters from 0.0079" (0.2 mm) up to 1.334" (34 mm).

Worldwide Availability
With the global REGO-FIX® distribution network.

Up to 20% More Clamping Length
For small diameters, up to 20% more clamping length than the competition, which results in better runout.

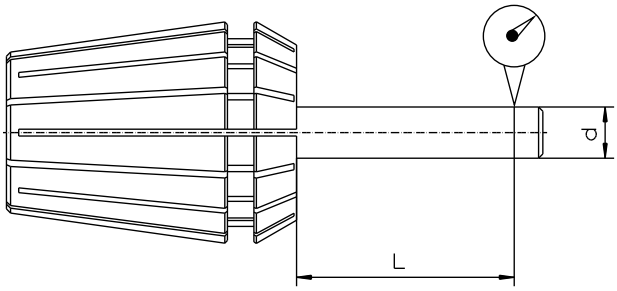


Matched Tooling System
All REGO-FIX® components such as collets, toolholders, clamping nuts are all manufactured by REGO-FIX®. The compatibility of the whole system results in maximum precision, balance and tool life.

! When buying ER collets, please note the REGO-FIX® quality symbol △ on the front of the collet!

Concentricity T.I.R.

DIN 6499/ISO 15488



ER Standard Collets

REGO-FIX® collets made to DIN 6499 are used for drilling, milling, reaming, tapping and grinding.

Special Advantages

T.I.R. ≤ 0.0004" (10 µm) over the entire clamping range

Clamping range from diameter 0.0079" (0.2 mm) up to 1.334" (34 mm)

Vibration dampening

Combining the smallest design (ER 8) with the highest precision (ER-UP)

ER (Standard) and ER-UP (Ultra-Precision)

Clamping Range [mm]			T.I.R. max.		
From d	To d	L	DIN 6499/ ISO 15488 Form B	△ ER	△ ER-UP
1.0 1.6 3.0 6.0	1.6 3.0 6.0 10.0	6.0 10.0 16.0 25.0	0.0006" (0.015mm)	0.0004" (0.010mm)	0.0002" (0.005mm)
10.0 18.0	18.0 26.0	40.0 50.0	0.0008" (0.020mm)	0.0004" (0.010mm)	0.0002" (0.005mm)
26.0	34.0	60.0	0.001" (0.025mm)	0.0006" (0.015mm)	0.0004" (0.010mm)

ER-UP Ultra Precision Collets

Special Advantages

T.I.R. ≤ 0.0002" (5 µm) over the entire clamping range

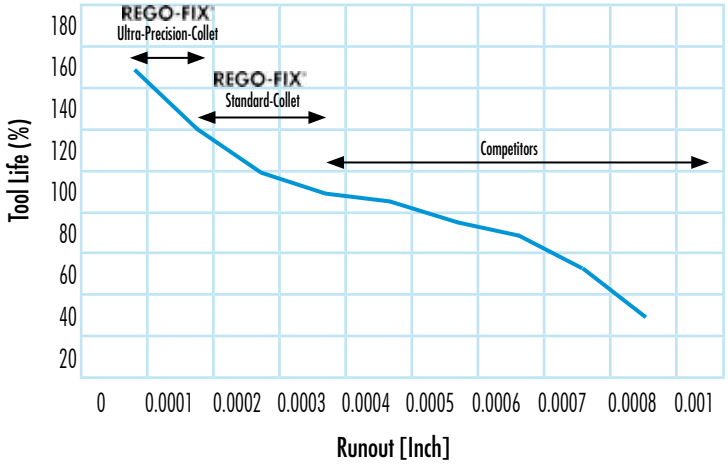
Clamping range equal to the standard collets

Provides the lowest T.I.R. equal to or better than nominal diameter (on size) collets

ER collets are primarily used for high-speed cutting applications, where the lowest T.I.R. (Total Indicated Runout) is required. Low T.I.R. improves tool life, part finish and reduces spindle wear.

Precision is a function of the whole system including toolholder, collet and clamping nut. For best results, we recommend that you use REGO-FIX® toolholders, REGO-FIX® collets and REGO-FIX® clamping nuts.

Influence of Tool Runout (T.I.R.) on Tool Life



More Technical Information available at WWW.REGO-FIX.COM

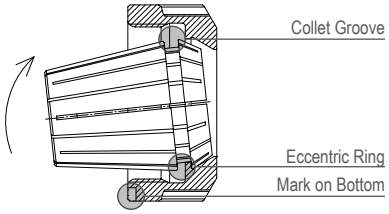
Assembly Instructions

DIN 6499/ISO 15488

Collets
ER and ER-UP

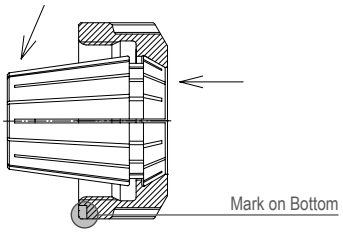
Assembling Instructions

Insert groove of 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 place. Screw nut with collet onto toolholder. We recommend tightening the nut with a torque wrench.



Disassembly Instructions

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.

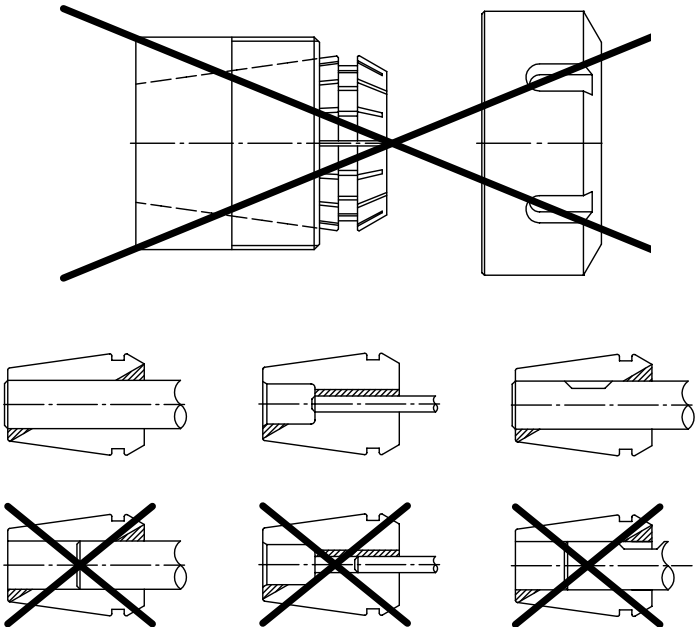


! Improper assembly can permanently damage the concentricity of the collet and may result in damage to the clamping nut.

Only assemble the clamping nuts with correctly assembled collets!

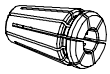
Never clamp oversized tool shanks!
Example: Never use a Ø 12–11 mm collet to clamp a Ø 12.2 mm shank. Rather, use the next bigger collet (Ø 12.5–11.5 mm or 13–12 mm collet).

Insert tool to the full length of the collet for best results if possible. However, never insert the tool less than 2/3 of the collet bore length. Improper tool insertion can permanently deform the collet and will result in poor runout.



ER 8 | ER 8-UP (Ultra Precision)

DIN 6499/ISO15488



Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 8 Part No.	ER 8-UP Part No.
1.00 – 0.70*	0.0394 – 0.0276	1108.01000	1108.01001
1.25 – 0.75	0.0492 – 0.0394	1108.01250	-
1.50 – 1.00*	0.0591 – 0.0394	1108.01500	1108.01501
1.75 – 1.50	0.0689– 0.0591	1108.01750	-
2.00 – 1.50*	0.0787 – 0.0591	1108.02000	1108.02001
2.25 – 1.75	0.0886– 0.0689	1108.02250	-
2.50 – 2.00*	0.0984 – 0.0787	1108.02500	1108.02501
3.00 – 2.50*	0.1181 – 0.0984	1108.03000	1108.03001
3.50 – 3.00*	0.1378 – 0.1181	1108.03500	1108.03501
4.00 – 3.50*	0.1575 – 0.1378	1108.04000	1108.04001
4.50 – 4.00*	0.1772 – 0.1575	1108.04500	1108.04501
5.00 – 4.50*	0.1969 – 0.1772	1108.05000	1108.05001
Collet Sets come in Standard and UP *Sizes are included in Sets		1108.00000	1108.00001
		9 Collets and 1 Tray	

Inch

Ø [inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 8 Part No.	ER 8-UP Part No.
1/16*	0.0625 – 0.0425	1.59 – 1.09	1108.01592	1108.01593
1/8*	0.1250 – 0.1055	3.18 – 2.68	1108.03182	1108.03183
3/16*	0.1875 – 0.1675	4.76 – 4.26	1108.04762	1108.04763
Collet Sets come in Standard and UP All Sizes listed above are included in Sets			1108.00002	1108.00003
			3 Collets and 1 Tray	

Special diameters in inch and metric sizes can be quoted upon request

ER 8 Microbore

Clamping Diameter h7 [mm]	Clamping Diameter h7 [Inch]	ER 8-MB Part No.
0.2	0.0079	1308.00200
0.3	0.0118	1308.00300
0.4	0.0157	1308.00400
0.5	0.0197	1308.00500
0.6	0.0236	1308.00600
0.7	0.0276	1308.00700
0.8	0.0315	1308.00800
0.9	0.0354	1308.00900

Microbore Collets have a runout of 0.0002" (6µm). They have been developed by REGO-FIX® specifically for small tool shank diameters.

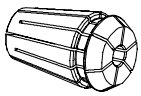
Tray

ZWT / ER 8

Part Description	Part No.
Tray ZWT / ER 8	0712.10800

ER 11 | ER 11-UP (Ultra Precision)

DIN 6499/ISO15488



Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 11 Part No.	ER 11-UP Part No.
1.00 – 0.50*	0.0394 – 0.0197	1111.01000	1111.01001
1.25 – 0.75	0.0492 – 0.0394	1111.01250	-
1.50 – 1.00*	0.0591 – 0.0394	1111.01500	1111.01501
1.75 – 1.50	0.0689– 0.0591	1111.01750	-
2.00 – 1.50*	0.0787 – 0.0591	1111.02000	1111.02001
2.25 – 1.75	0.0886– 0.0689	1111.02250	-
2.50 – 2.00*	0.0984 – 0.0787	1111.02500	1111.02501
3.00 – 2.50*	0.1181 – 0.0984	1111.03000	1111.03001
3.50 – 3.00*	0.1378 – 0.1181	1111.03500	1111.03501
4.00 – 3.50*	0.1575 – 0.1378	1111.04000	1111.04001
4.50 – 4.00*	0.1772 – 0.1575	1111.04500	1111.04501
5.00 – 4.50*	0.1969 – 0.1772	1111.05000	1111.05001
5.50 – 5.00*	0.2165 – 0.1969	1111.05500	1111.05501
6.00 – 5.50*	0.2362 – 0.2165	1111.06000	1111.06001
6.50 – 6.00*	0.2559 – 0.2362	1111.06500	1111.06501
7.00 – 6.50*	0.2756 – 0.2559	1111.07000	1111.07001
Collet Sets come in Standard and UP *Sizes are included in Sets		1111.00000	1111.00001
		13 Collets and 1 Tray	

Inch

Ø [Inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 11 Part No.	ER 11-UP Part No.
1/16*	0.0625 – 0.0425	1.59 – 1.09	1111.01592	1111.01593
3/32*	0.0938 – 0.0738	2.38 – 1.88	1111.02382	1111.02383
1/8*	0.1250 – 0.1050	3.18 – 2.68	1111.03182	1111.03183
5/32*	0.1563 – 0.1363	3.97 – 3.47	1111.03972	1111.03973
3/16*	0.1875 – 0.1675	4.76 – 4.26	1111.04762	1111.04763
7/32*	0.2188 – 0.1988	5.56 – 5.06	1111.05562	1111.05563
1/4*	0.2500 – 0.2300	6.35 – 5.85	1111.06352	1111.06353
Collet Sets come in Standard and UP *Sizes are included in Sets			1111.00002	1111.00003
			7 Collets and 1 Tray	

Special diameters in inch and metric sizes can be quoted upon request

ER 11 Microbore

Clamping Diameter h7 [mm]	Clamping Diameter h7 [Inch]	ER 11-MB Part No.
0.2	0.0079	1311.00200
0.3	0.0118	1311.00300
0.4	0.0157	1311.00400
0.5	0.0197	1311.00500
0.6	0.0236	1311.00600
0.7	0.0276	1311.00700
0.8	0.0315	1311.00800
0.9	0.0354	1311.00900

Microbore Collets have a runout of 0.0002" (6µm). They have been developed by REGO-FIX® especially for small tool shank diameters.

ER 11 ND (Nominal Diameter)

Ø [Inch]	Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 11ND Part No.
	3.00	0.1181	1111.03005
1/8	3.175	0.1250	1111.03185
	4.00	0.1575	1111.04005
	6.00	0.2362	1111.06005

For use with the HSK-F Micro Milling holders to achieve the best TIR for high speed machining.

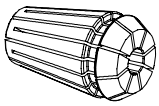
Tray

ZWT / ER 11

Part Description	Part No.
Tray ZWT / ER 11	0712.11100

ER 16 | ER 16-UP (Ultra Precision)

DIN 6499/ISO 15488



Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 16 Part No.	ER 16-UP Part No.
1.00 – 0.50*	0.0394 – 0.0197	1116.01000	1116.01001
1.50 – 1.00	0.0591 – 0.0394	1116.01500	1116.01501
2.00 – 1.00*	0.0787 – 0.0394	1116.02000	1116.02001
2.50 – 1.50	0.0984 – 0.0591	1116.02500	1116.02501
3.00 – 2.00*	0.1181 – 0.0787	1116.03000	1116.03001
3.50 – 2.50	0.1378 – 0.0984	1116.03500	1116.03501
4.00 – 3.00*	0.1575 – 0.1181	1116.04000	1116.04001
4.50 – 3.50	0.1772 – 0.1378	1116.04500	1116.04501
5.00 – 4.00*	0.1969 – 0.1575	1116.05000	1116.05001
5.50 – 4.50	0.2165 – 0.1772	1116.05500	1116.05501
6.00 – 5.00*	0.2362 – 0.1969	1116.06000	1116.06001
6.50 – 5.50	0.2559 – 0.2165	1116.06500	1116.06501
7.00 – 6.00*	0.2756 – 0.2362	1116.07000	1116.07001
7.50 – 6.50	0.2953 – 0.2559	1116.07500	1116.07501
8.00 – 7.00*	0.3150 – 0.2756	1116.08000	1116.08001
8.50 – 7.50	0.3347 – 0.2953	1116.08500	1116.08501
9.00 – 8.00*	0.3543 – 0.3150	1116.09000	1116.09001
9.50 – 8.50	0.3740 – 0.3347	1116.09500	1116.09501
10.00 – 9.00*	0.3937 – 0.3543	1116.10000	1116.10001
Collet Sets come in Standard and UP *Sizes are included in Sets		1116.00000	1116.00001
		10 Collets and 1 Tray	

Inch

Ø [Inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 16 Part No.	ER 16-UP Part No.
1/16*	0.0625 – 0.0425	1.59 – 1.09	1116.01592	1116.01593
3/32*	0.0938 – 0.0738	2.38 – 1.88	1116.02382	1116.02383
1/8*	0.1250 – 0.0850	3.18 – 2.18	1116.03182	1116.03183
5/32*	0.1563 – 0.1163	3.97 – 2.97	1116.03972	1116.03973
3/16*	0.1875 – 0.1475	4.76 – 3.76	1116.04762	1116.04763
7/32*	0.2188 – 0.1788	5.56 – 4.56	1116.05562	1116.05563
1/4*	0.2500 – 0.2100	6.35 – 5.35	1116.06352	1116.06353
9/32*	0.2813 – 0.2413	7.14 – 6.14	1116.07142	1116.07143
5/16*	0.3125 – 0.2725	7.94 – 6.94	1116.07942	1116.07943
11/32*	0.3438 – 0.3038	8.73 – 7.73	1116.08732	1116.08733
3/8*	0.3750 – 0.3350	9.53 – 8.53	1116.09532	1116.09533
13/32*	0.4063 – 0.3663	10.32 – 9.32	1116.10322	1116.10323
Collet Sets come in Standard and UP *Sizes are included in Sets			1116.00002	1116.00003
			12 Collets and Tray	

Special diameters in inch and metric sizes can be quoted upon request

ER 16 Microbore

Clamping Diameter h7 [mm]	Clamping Diameter h7 [Inch]	ER 16-MB Part No.
0.2	0.0079	1316.00200
0.3	0.0118	1316.00300
0.4	0.0157	1316.00400
0.5	0.0197	1316.00500
0.6	0.0236	1316.00600
0.7	0.0276	1316.00700
0.8	0.0315	1316.00800
0.9	0.0354	1316.00900

Microbore Collets have a runout of 0.0002" (6µm).
They have been developed by REGO-FIX® especially for small tool shank diameters.

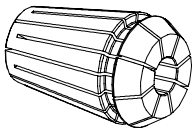
Tray

ZWT / ER 16

Part Description	Part No.
Tray ZWT / ER 16	0712.11600

ER 20 | ER 20-UP (Ultra Precision)

DIN 6499/ISO15488



Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 20 Part No.	ER 20-UP Part No.
1.00 – 0.50	0.0394 – 0.0197	1120.01000	1120.01001
1.50 – 1.00	0.0591 – 0.0394	1120.01500	1120.01501
2.00 – 1.00*	0.0787 – 0.0394	1120.02000	1120.02001
2.50 – 1.50	0.0984 – 0.0591	1120.02500	1120.02501
3.00 – 2.00*	0.1181 – 0.0787	1120.03000	1120.03001
3.50 – 2.50	0.1378 – 0.0984	1120.03500	1120.03501
4.00 – 3.00*	0.1575 – 0.1181	1120.04000	1120.04001
4.50 – 3.50	0.1772 – 0.1378	1120.04500	1120.04501
5.00 – 4.00*	0.1969 – 0.1575	1120.05000	1120.05001
5.50 – 4.50	0.2165 – 0.1772	1120.05500	1120.05501
6.00 – 5.00*	0.2362 – 0.1969	1120.06000	1120.06001
6.50 – 5.50	0.2559 – 0.2165	1120.06500	1120.06501
7.00 – 6.00*	0.2756 – 0.2362	1120.07000	1120.07001
7.50 – 6.50	0.2953 – 0.2559	1120.07500	1120.07501
8.00 – 7.00*	0.3150 – 0.2756	1120.08000	1120.08001
8.50 – 7.50	0.3347 – 0.2953	1120.08500	1120.08501
9.00 – 8.00*	0.3543 – 0.3150	1120.09000	1120.09001
9.50 – 8.50	0.3740 – 0.3347	1120.09500	1120.09501
10.00 – 9.00*	0.3937 – 0.3543	1120.10000	1120.10001
10.50 – 9.50	0.4134 – 0.3740	1120.10500	1120.10501
11.00 – 10.00*	0.4330 – 0.3937	1120.11000	1120.11001
11.50 – 10.50	0.4528 – 0.4134	1120.11500	1120.11501
12.00 – 11.00*	0.4724 – 0.4375	1120.12000	1120.12001
12.50 – 11.50	0.4921 – 0.4528	1120.12500	1120.12501
13.00 – 12.00*	0.5118 – 0.4724	1120.13000	1120.13001
Collet Sets come in Standard and UP *Sizes are included in Sets		1120.00000	1120.00001
		12 Collets and 1 Tray	

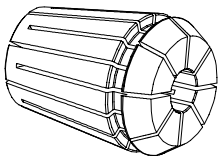
Inch

Ø [Inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 20 Part No.	ER 20-UP Part No.
1/8*	0.1250 – 0.0850	3.18 – 2.18	1120.03182	1120.03183
3/16*	0.1875 – 0.1475	4.76 – 3.76	1120.04762	1120.04763
1/4*	0.2500 – 0.2100	6.35 – 5.35	1120.06352	1120.06353
5/16*	0.3125 – 0.2725	7.94 – 6.94	1120.07942	1120.07943
3/8*	0.3750 – 0.3350	9.53 – 8.53	1120.09532	1120.09533
7/16*	0.4375 – 0.3975	11.11 – 10.11	1120.11112	1120.11113
1/2*	0.5000 – 0.4600	12.70 – 11.70	1120.12702	1120.12703
Collet Sets come in Standard and UP *Sizes are included in Sets			1120.00002	1120.00003
			7 Collets and 1 Tray	

Tray

ZWT / ER 20

Part Description	Part No.
Tray ZWT / ER 20	0712.12000



ER 25 | ER 25-UP (Ultra Precision)

DIN 6499/ISO 15488

Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 25 Part No.	ER 25-UP Part No.
1.00 – 0.50	0.0394 – 0.0197	1125.01000	1125.01001
1.50 – 1.00	0.0591 – 0.0394	1125.01500	1125.01501
2.00 – 1.00*	0.0787 – 0.0394	1125.02000	1125.02001
2.50 – 1.50	0.0984 – 0.0591	1125.02500	1125.02501
3.00 – 2.00*	0.1181 – 0.0787	1125.03000	1125.03001
3.50 – 2 .50	0.1378 – 0.0984	1125.03500	1125.03501
4.00 – 3.00*	0.1575 – 0.1181	1125.04000	1125.04001
4.50 – 3.50	0.1772 – 0.1378	1125.04500	1125.04501
5.00 – 4.00*	0.1969 – 0.1575	1125.05000	1125.05001
5.50 – 4.50	0.2165 – 0.1772	1125.05500	1125.05501
6.00 – 5.00*	0.2362 – 0.1969	1125.06000	1125.06001
6.50 – 5.50	0.2559 – 0.2165	1125.06500	1125.06501
7.00 – 6.00*	0.2756 – 0.2362	1125.07000	1125.07001
7.50 – 6.50	0.2953 – 0.2559	1125.07500	1125.07501
8.00 – 7.00*	0.3150 – 0.2756	1125.08000	1125.08001
8.50 – 7.50	0.3347 – 0.2953	1125.08500	1125.08501
9.00 – 8.00*	0.3543 – 0.3150	1125.09000	1125.09001
9.50 – 8.50	0.3740 – 0.3347	1125.09500	1125.09501
10.00 – 9.00*	0.3937 – 0.3543	1125.10000	1125.10001
10.50 – 9.50	0.4134 – 0.3740	1125.10500	1125.10501
11.00 – 10.00*	0.4330 – 0.3937	1125.11000	1125.11001
11.50 – 10.50	0.4528 – 0.4134	1125.11500	1125.11501
12.00 – 11.00*	0.4724 – 0.4375	1125.12000	1125.12001
12.50 – 11.50	0.4921 – 0.4528	1125.12500	1125.12501
13.00 – 12.00*	0.5118 – 0.4724	1125.13000	1125.13001
13.50 – 12.50	0.5315 – 0.4921	1125.13500	1125.13501

Metric (cont.)

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 25 Part No.	ER 25-UP Part No.
14.00 – 13.00*	0.5512 – 0.5118	1125.14000	1125.14001
14.50 – 13.50	0.5709 – 0.5315	1125.14500	1125.14501
15.00 – 14.00*	0.5905 – 0.5512	1125.15000	1125.15001
15.50 – 14.50	0.6102 – 0.5315	1125.15500	1125.15501
16.00 – 15.00*	0.6300 – 0.5905	1125.16000	1125.16001
17.00 – 16.00	0.6693 – 0.6300	1125.17000	1125.17001
Collet Sets come in Standard and UP *Sizes are included in Sets		1125.00000	1125.00001
		15 Collets and 1 Tray	

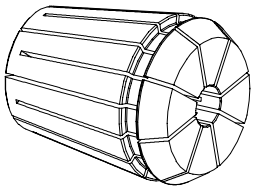
Inch

Ø [Inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 25 Part No.	ER 25-UP Part No.
1/8*	0.1250 – 0.0850	3.18 – 2.18	1125.03182	1125.03183
3/16*	0.1875 – 0.1475	4.76 – 3.76	1125.04762	1125.04763
1/4*	0.2500 – 0.2100	6.35 – 5.35	1125.06352	1125.06353
5/16*	0.3125 – 0.2725	7.94 – 6.94	1125.07942	1125.07943
3/8*	0.3750 – 0.3350	9.53 – 8.53	1125.09532	1125.09533
7/16*	0.4375 – 0.3975	11.11 – 10.11	1125.11112	1125.11113
1/2*	0.5000 – 0.4600	12.70 – 11.70	1125.12702	1125.12703
9/16*	0.5625 – 0.5225	14.29 – 13.29	1125.14292	1125.14293
5/8*	0.6250 – 0.5820	15.88 – 14.88	1125.15882	1125.15883
Collet Sets come in Standard and UP *Sizes are included in Sets			1125.00002	1125.00003
			9 Collets and 1 Tray	

Tray

ZWT / ER 25

Part Description	Part No.
Tray ZWT / ER 25	0712.12500



ER 32 | ER 32-UP (Ultra Precision)

DIN 6499/ISO 15488

Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 32 Part No.	ER 32-UP Part No.
2.00 – 1.00	0.0787 – 0.0394	1132.02000	1132.02001
2.50 – 1.50	0.0984 – 0.0591	1132.02500	1132.02501
3.00 – 2.00*	0.1181 – 0.0787	1132.03000	1132.03001
3.50 – 2.50	0.1378 – 0.0984	1132.03500	1132.03501
4.00 – 3.00*	0.1575 – 0.1181	1132.04000	1132.04001
4.50 – 3.50	0.1772 – 0.1378	1132.04500	1132.04501
5.00 – 4.00*	0.1969 – 0.1575	1132.05000	1132.05001
5.50 – 4.50	0.2165 – 0.1772	1132.05500	1132.05501
6.00 – 5.00*	0.2362 – 0.1969	1132.06000	1132.06001
6.50 – 5.50	0.2559 – 0.2165	1132.06500	1132.06501
7.00 – 6.00*	0.2756 – 0.2362	1132.07000	1132.07001
7.50 – 6.50	0.2953 – 0.2559	1132.07500	1132.07501
8.00 – 7.00*	0.3150 – 0.2756	1132.08000	1132.08001
8.50 – 7.50	0.3347 – 0.2953	1132.08500	1132.08501
9.00 – 8.00*	0.3543 – 0.3150	1132.09000	1132.09001
9.50 – 8.50	0.3740 – 0.3347	1132.09500	1132.09501
10.00 – 9.00*	0.3937 – 0.3543	1132.10000	1132.10001
10.50 – 9.50	0.4134 – 0.3740	1132.10500	1132.10501
11.00 – 10.00*	0.4330 – 0.3937	1132.11000	1132.11001
11.50 – 10.50	0.4528 – 0.4134	1132.11500	1132.11501
12.00 – 11.00*	0.4724 – 0.4375	1132.12000	1132.12001
12.50 – 11.50	0.4921 – 0.4528	1132.12500	1132.12501
13.00 – 12.00*	0.5118 – 0.4724	1132.13000	1132.13001
13.50 – 12.50	0.5315 – 0.4921	1132.13500	1132.13501
14.00 – 13.00*	0.5512 – 0.5118	1132.14000	1132.14001
14.50 – 13.50	0.5709 – 0.5315	1132.14500	1132.14501
15.00 – 14.00*	0.5905 – 0.5512	1132.15000	1132.15001
15.50 – 14.50	0.6102 – 0.5315	1132.15500	1132.15501
16.00 – 15.00*	0.6300 – 0.5905	1132.16000	1132.16001
16.50 – 15.50	0.6496 – 0.6102	1132.16500	1132.16501
17.00 – 16.00*	0.6693 – 0.6300	1132.17000	1132.17001

Metric (cont.)

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 32 Part No.	ER 32-UP Part No.
17.50 – 16.50	0.6890 – 0.6496	1132.17500	1132.17501
18.00 – 17.00*	0.7087 – 0.6693	1132.18000	1132.18001
18.50 – 17.50	0.7284 – 0.6890	1132.18500	1132.18501
19.00 – 18.00*	0.7480 – 0.7078	1132.19000	1132.19001
19.50 – 18.50	0.7677 – 0.7284	1132.19500	1132.19501
20.00 – 19.00*	0.7874 – 0.7480	1132.20000	1132.20001
21.00 – 20.00	0.8268 – 0.7874	1132.21000	1132.21001
22.00 – 21.00	0.8661 – 0.8268	1132.22000	1132.22001
Collet Sets come in Standard and UP *Sizes are included in Sets		1132.00000	1132.00001
		18 Collets and 1 Tray	

Inch

Ø [inch]	Clamping Capacity [inch]	Clamping Capacity [mm]	ER 32 Part No.	ER 32-UP Part No.
1/8*	0.1250 – 0.0850	3.18 – 2.18	1132.03182	1132.03183
3/16*	0.1875 – 0.1475	4.76 – 3.76	1132.04762	1132.04763
1/4*	0.2500 – 0.2100	6.35 – 5.35	1132.06352	1132.06353
5/16*	0.3125 – 0.2725	7.94 – 6.94	1132.07942	1132.07943
3/8*	0.3750 – 0.3350	9.53 – 8.53	1132.09532	1132.09533
7/16*	0.4375 – 0.3975	11.11 – 10.11	1132.11112	1132.11113
1/2*	0.5000 – 0.4600	12.70 – 11.70	1132.12702	1132.12703
9/16*	0.5625 – 0.5225	14.29 – 13.29	1132.14292	1132.14293
5/8*	0.6250 – 0.5850	15.88 – 14.88	1132.15882	1132.15883
11/16*	0.6875 – 0.6475	17.46 – 16.46	1132.17462	1132.17463
3/4*	0.7500 – 0.7100	19.05 – 18.05	1132.19052	1132.19053
13/16*	0.8125 – 0.7725	20.64 – 19.64	1132.20642	1132.20643
Collet Sets come in Standard and UP *Sizes are included in Set			1132.00002	1132.00003
			12 Collets and 1 Tray	

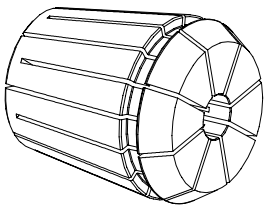
Tray

ZWT / ER 32

Part Description	Part No.
Tray ZWT / ER 32	0712.13200

ER 40 | ER 40-UP (Ultra Precision)

DIN 6499/ISO 15488



Metric

Clamping Capacity		ER 40	ER 40-UP
[mm]	[Inch]	Part No.	Part No.
3.00 – 2.00	0.1181 – 0.0787	1140.03000	1140.03001
3.50 – 2.50	0.1378 – 0.0984	1140.03500	1140.03501
4.00 – 3.00*	0.1575 – 0.1181	1140.04000	1140.04001
4.50 – 3.50	0.1772 – 0.1378	1140.04500	1140.04501
5.00 – 4.00*	0.1969 – 0.1575	1140.05000	1140.05001
5.50 – 4.50	0.2165 – 0.1772	1140.05500	1140.05501
6.00 – 5.00*	0.2362 – 0.1969	1140.06000	1140.06001
6.50 – 5.50	0.2559 – 0.2165	1140.06500	1140.06501
7.00 – 6.00*	0.2756 – 0.2362	1140.07000	1140.07001
7.50 – 6.50	0.2953 – 0.2559	1140.07500	1140.07501
8.00 – 7.00*	0.3150 – 0.2756	1140.08000	1140.08001
8.50 – 7.50	0.3347 – 0.2953	1140.08500	1140.08501
9.00 – 8.00*	0.3543 – 0.3150	1140.09000	1140.09001
9.50 – 8.50	0.3740 – 0.3347	1140.09500	1140.09501
10.00 – 9.00*	0.3937 – 0.3543	1140.10000	1140.10001
10.50 – 9.50	0.4134 – 0.3740	1140.10500	1140.10501
11.00 – 10.00*	0.4330– 0.3937	1140.11000	1140.11001
11.50 – 10.50	0.4528 – 0.4134	1140.11500	1140.11501
12.00 – 11.00*	0.4724 – 0.4375	1140.12000	1140.12001
12.50 – 11.50	0.4921 – 0.4528	1140.12500	1140.12501
13.00 – 12.00*	0.5118 – 0.4724	1140.13000	1140.13001
13.50 – 12.50	0.5315 – 0.4921	1140.13500	1140.13501
14.00 – 13.00*	0.5512 – 0.5118	1140.14000	1140.14001
14.50 – 13.50	0.5709 – 0.5315	1140.14500	1140.14501
15.00 – 14.00*	0.5905 – 0.5512	1140.15000	1140.15001
15.50 – 14.50	0.6102 – 0.5315	1140.15500	1140.15501
16.00 – 15.00*	0.6300 – 0.5905	1140.16000	1140.16001
16.50 – 15.50	0.6496 – 0.6102	1140.16500	1140.16501

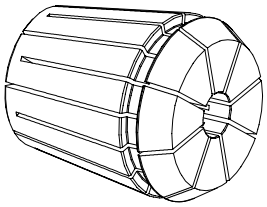
Metric (cont.)

Clamping Capacity		ER 40	ER 40-UP
[mm]	[Inch]	Part No.	Part No.
17.00 – 16.00*	0.6693 – 0.6300	1140.17000	1140.17001
17.50 – 16.50	0.6890 – 0.6496	1140.17500	1140.17501
18.00 – 17.00*	0.7087 – 0.6693	1140.18000	1140.18001
18.50 – 17.50	0.7284 – 0.6890	1140.18500	1140.18501
19.00 – 18.00*	0.7480 – 0.7078	1140.19000	1140.19001
19.50 – 18.50	0.7677 – 0.7284	1140.19500	1140.19501
20.00 – 19.00*	0.7874 – 0.7480	1140.20000	1140.20001
20.50 – 19.50	0.8071 – 0.7677	1140.20500	1140.20501
21.00 – 20.00*	0.8268 – 0.7874	1140.21000	1140.21001
21.50 – 20.50	0.8465 – 0.8071	1140.21500	1140.21501
22.00 – 21.00*	0.8661 – 0.8268	1140.22000	1140.22001
22.50 – 21.50	0.8858 – 0.8465	1140.22500	1140.22501
23.00 – 22.00*	0.9055 – 0.8661	1140.23000	1140.23001
23.50 – 22.50	0.9252 – 0.8858	1140.23500	1140.23501
24.00 – 23.00*	0.9449 – 0.9055	1140.24000	1140.24001
24.50 – 23.50	0.9646 – 0.9252	1140.24500	1140.24501
25.00 – 24.00*	0.9843 – 0.9449	1140.25000	1140.25001
25.50 – 24.50	1.0039 – 0.9646	1140.25500	1140.25501
26.00 – 25.00*	1.0236 – 0.9843	1140.26000	1140.26001
27.00 – 26.00	1.0630 – 1.0236	1140.27000	1140.27001
28.00 – 27.00	1.1024 – 1.0630	1140.28000	1140.28001
29.00 – 28.00	1.1417 – 1.1024	1140.29000	1140.29001
30.00 – 29.00	1.1811 – 1.1417	1140.30000	1140.30001
Collet Sets come in Standard and UP *Sizes are included in Set		1140.00000	1140.00001
		23 Collets and 1 Tray	

More Technical Information available at WWW.REGO-FIX.COM

ER 40 | ER 40-UP (Ultra Precision)

DIN 6499/ISO15488



Inch

Ø	Clamping Capacity		ER 40	ER 40-UP
[Inch]	[inch]	[mm]	Part No.	Part No.
1/8*	0.1250 – 0.0850	3.18 – 2.18	1140.03182	1140.03183
3/16*	0.1875 – 0.1475	4.76 – 3.76	1140.04762	1140.04763
1/4*	0.2500 – 0.2100	6.35 – 5.35	1140.06352	1140.06353
5/16*	0.3125 – 0.2725	7.94 – 6.94	1140.07942	1140.07943
3/8*	0.3750 – 0.3350	9.53 – 8.53	1140.09532	1140.09533
7/16*	0.4375 – 0.3975	11.11 – 10.11	1140.11112	1140.11113
1/2*	0.5000 – 0.4600	12.70 – 11.70	1140.12702	1140.12703
9/16*	0.5625 – 0.5225	14.29 – 13.29	1140.14292	1140.14293
5/8*	0.6250 – 0.5850	15.88 – 14.88	1140.15882	1140.15883
11/16*	0.6875 – 0.6475	17.46 – 16.46	1140.17462	1140.17463
3/4*	0.7500 – 0.7100	19.05 – 18.05	1140.19052	1140.19053
13/16*	0.8125 – 0.7725	20.64 – 19.64	1140.20642	1140.20643
7/8*	0.8750 – 0.8350	22.23 – 21.23	1140.22232	1140.22233
1*	1.0000 – 0.9600	25.40 – 24.40	1140.25402	1140.25403
Collet Sets come in Standard and UP *Sizes are included in Set			1140.00002	1140.00003
			14 Collets and 1 Tray	

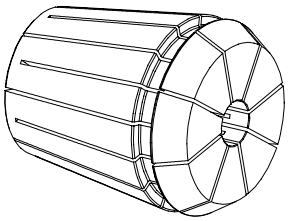
Tray

ZWT / ER 40

Part Description	Part No.
Tray ZWT / ER 40	0712.14000

ER 50 | ER 50-UP (Ultra Precision)

DIN 6499/ISO15488



Metric

Clamping Capacity [mm]	Clamping Capacity [Inch]	Ø [Inch]	ER 50 Part No.	ER 50-UP Part No.
6.00 – 4.00	0.2362 – 0.1575	3/16	1150.06000	1150.06001
8.00 – 6.00	0.3150 – 0.2362	1/4	1150.08000	1150.08001
10.00 – 8.00	0.3937 – 0.3150	3/8	1150.10000	1150.10001
12.00 – 10.00*	0.4724 – 0.3937	7/16	1150.12000	1150.12001
14.00 – 12.00*	0.5512 – 0.4724	1/2	1150.14000	1150.14001
16.00 – 14.00*	0.6300 – 0.5512	5/8	1150.16000	1150.16001
18.00 – 16.00*	0.7087 – 0.6300	11/16	1150.18000	1150.18001
20.00 – 18.00*	0.7874 – 0.7087	3/4	1150.20000	1150.20001
22.00 – 20.00*	0.8661 – 0.7874	13/16	1150.22000	1150.22001
24.00 – 22.00*	0.9449 – 0.8661	7/8	1150.24000	1150.24001
25.00 – 23.00	0.9843 – 0.9055	31/32	1150.25000	1150.25001
26.00 – 24.00*	1.0236 – 0.9449	1	1150.26000	1150.26001
28.00 – 26.00*	1.1024 – 1.0236	1-1/16	1150.28000	1150.28001
30.00 – 28.00*	1.1811 – 1.1024	1-1/8	1150.30000	1150.30001
32.00 – 30.00*	1.2598 – 1.1811	1-1/4	1150.32000	1150.32001
34.00 – 32.00*	1.3386 – 1.2598	1-5/16	1150.34000	1150.34001
36.00 – 34.00	1.4173 – 1.3386	1-3/8	1150.36000	1150.36001
Collet Sets come in Standard and UP *Sizes are included in Set			1150.00000 12 Collets and 1 Tray	1150.00001

Tray

ZWT / ER 50

Part Description	Part No.
Tray ZWT / ER 50	0712.15000

Metallic Sealed ER Collets

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and size (reduces collet selection errors).

2 Traceability
Lot number is marked on all products for traceability throughout the entire manufacturing process.

3 Original REGO-FIX®
REGO-FIX® is the inventor of the worldwide standardized ER collet system including the metallic sealed DM collets under patent by REGO-FIX®. Our extensive experience results in a well-engineered system. When buying ER collets, please note the REGO-FIX® quality symbol △ on the front of the collet.

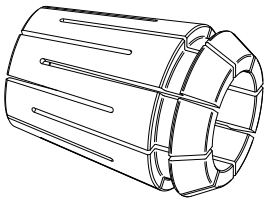
Wide Clamping Range
The 16-slot design allows a wide clamping range while maintaining best T.I.R.

Broad Range of Products
Sizes from ER 11 up to ER 40 for diameters from 0.1181" (3.0 mm) up to 1.0236" (26 mm).

Worldwide Availability
With the global REGO-FIX® distribution network.

Best in Class TIR
T.I.R. ≤ 0.0002" over the entire clamping range.

Matched Tooling System
All REGO-FIX® components such as collets, toolholders and clamping nuts are all manufactured by REGO-FIX®. The compatibility of the whole system results in maximum precision, balance and tool life.



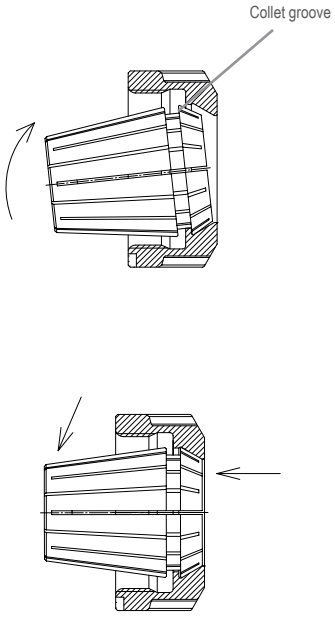
ER 11 – ER 40 | DM

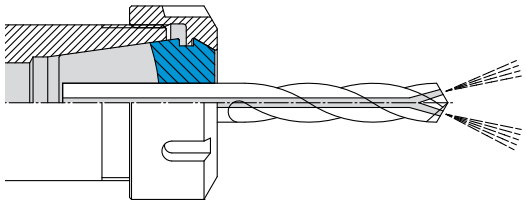
Metallic Sealed Collets

Metric Collets

Clamping Capacity [mm]	Clamping Capacity [Inch]	ER 11 DM Part No.	ER 16 DM Part No.	ER 20 DM Part No.	ER 25 DM Part No.	ER 32 DM Part No.	ER 40 DM Part No.
3.00	0.1181	1211.03000*+	1216.03000*+	1220.03000*+	–	–	–
4.00	0.1575	1211.04000*+	1216.04000*+	1220.04000*+	–	–	–
5.00	0.1969	1211.05000*	1216.05000*	1220.05000*+	–	–	–
6.00	0.2362	1211.06000*	1216.06000*	1220.06000*+	1225.06000*+	1232.06000*+	1240.06000*+
7.00	0.2756	1211.07000	1216.07000*	1220.07000*	1225.07000	1232.07000	–
8.00	0.3150	–	1216.08000*	1220.08000*	1225.08000*	1232.08000*	1240.08000*+
9.00	0.3543	–	1216.09000*	1220.09000*	1225.09000	1232.09000	–
10.00	0.3937	–	1216.10000*	1220.10000*	1225.10000*	1232.10000*	1240.10000*
11.00	0.4331	–	–	1220.11000*	1225.11000	1232.11000	1240.11000
12.00	0.4724	–	–	1220.12000*	1225.12000*	1232.12000*	1240.12000*
13.00	0.5118	–	–	1220.13000*	1225.13000	1232.13000	1240.13000
14.00	0.5512	–	–	–	1225.14000*	1232.14000*	1240.14000*
15.00	0.5905	–	–	–	1225.15000	1232.15000	1240.15000
16.00	0.6300	–	–	–	1225.16000*	1232.16000*	1240.16000*
17.00	0.6692	–	–	–	–	1232.17000	1240.17000
18.00	0.7087	–	–	–	–	1232.18000*	1240.18000*
19.00	0.7480	–	–	–	–	1232.19000	1240.19000
20.00	0.7874	–	–	–	–	1232.20000*	1240.20000*
21.00	0.8268	–	–	–	–	–	1240.21000
22.00	0.8661	–	–	–	–	–	1240.22000*
23.00	0.9055	–	–	–	–	–	1240.23000
24.00	0.9449	–	–	–	–	–	1240.24000*
25.00	0.9843	–	–	–	–	–	1240.25000
26.00	1.0236	–	–	–	–	–	1240.26000*
*Metallic Sealed Collet Sets		1211.00000*	1216.00000*	1220.00000*	1225.00000*	1232.00000*	1240.00000*
+Collets are nominal diameter only. Normal collet range for DM collets is 0.5mm (0.020")							

Assembly Instructions





ER 11 – ER 40 | DM

Metallic Sealed Collets

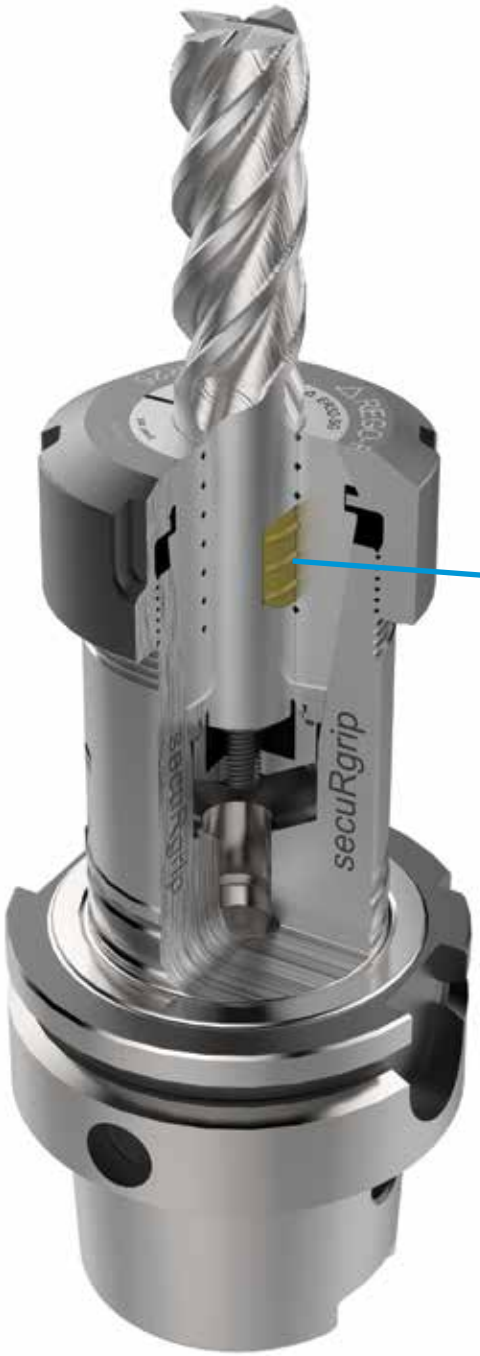
Inch Collets

Ø	Clamping Capacity		ER 11 DM	ER 16 DM	ER 20 DM	ER 25 DM	ER 32 DM	ER 40 DM
[Inch]	[Inch]	[mm]	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1/8	0.1250	3.18	1211.03182*+	1216.03182*+	1220.03182*+	–	–	–
5/32	0.1562	3.97	–	1216.03972+	1220.03972+	–	–	–
3/16	0.1875	4.76	1211.04762*+	1216.04762*+	1220.04762*+	–	–	–
7/32	0.2187	5.55	1211.05562*	1216.05562	1220.05562+	1225.05562+	–	–
1/4	0.2500	6.35	1211.06352*	1216.06352*	1220.06352*+	1225.06352*+	1232.06352*+	1240.06352
9/32	0.2812	7.14	–	1216.07142	1220.07142	1225.07142	1232.07142+	–
5/16	0.3125	7.94	–	1216.07942*	1220.07942*	1225.07942*	1232.07942*	1240.07942
11/32	0.3437	8.73	–	1216.08732	1220.08732	1225.08732	1232.08732	–
3/8	0.3750	9.53	–	1216.09532*	1220.09532*	1225.09532*	1232.09532*	1240.09532*
13/32	0.4062	10.32	–	1216.10322	1220.10322	1225.10322	1232.10322	–
7/16	0.4375	11.11	–	–	1220.11112*	1225.11112*	1232.11112*	1240.11112*
15/32	0.4687	11.91	–	–	1220.11912	1225.11912	1232.11912	–
1/2	0.5000	12.70	–	–	1220.12702*	1225.12702*	1232.12702*	1240.12702*
17/32	0.5312	13.49	–	–	–	1225.13492	1232.13492	–
9/16	0.5625	14.29	–	–	–	1225.14292*	1232.14292*	1240.14292*
19/32	0.5937	15.08	–	–	–	1225.15082	1232.15082	–
5/8	0.6250	15.88	–	–	–	1225.15882*	1232.15882*	1240.15882*
21/32	0.6532	16.67	–	–	–	–	1232.16672	–
11/16	0.6875	17.46	–	–	–	–	1232.17462*	1240.17462*
23/32	0.7187	18.26	–	–	–	–	1232.18262	–
3/4	0.7500	19.05	–	–	–	–	1232.19052*	1240.19052*
13/16	0.8125	20.64	–	–	–	–	–	1240.20642*
7/8	0.8750	22.23	–	–	–	–	–	1240.22232*
1	1.0000	25.40	–	–	–	–	–	1240.25402*
*Metallic Sealed Collet Sets			1211.00002*	1216.00002*	1220.00002*	1225.00002*	1232.00002*	1240.00002*

+Collets are nominal diameter only. Normal collet range for DM collets is 0.5mm (0.020")

secuRgrip® ER Collets

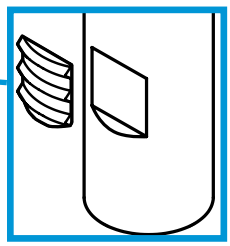
Features | Benefits



ER secuRgrip®

secuRgrip® is a new feature added to the ER Collet system from REGO-FIX. Developed for the most intensive cutting applications, secuRgrip locks the cutting tool to the collet with a patented locking system, so that the cutting tool cannot be pulled from the toolholder assembly.

Unlike other systems, secuRgrip® does not require the purchase of any expensive, special modified endmills from limited manufacturers. Instead, it allows for the use of a simple industry standard Weldon flat on any standard carbide or HSS endmill. The Weldon flat is all that is required to retain the secuRgrip® locking key insert in this easy-to-assemble system.



secuRgrip®
threaded insert for
Weldon flat tools

Standard Features

- Use your existing ER collet chucks
- Use standard carbide or HSS endmills with a Weldon flat.
- Tool range: 1/2”-1” or 12-25mm
- Inserts are size specific per diameter and made of hardened steel
- TIR of 0.0002” or better is still maintained
- Retains the ability to preset tool height
- Available in ER 32 or ER 40 collet series

*Recommended for use with REGO-FIX® Hi-Q/ER clamping nuts for best results.

ER-SG 32 | ER-SG 40

secuRgrip ER Collets

Metric

Ø [mm]	Clamping [Inch]	ER-SG 32 Part No.	ER-SG 40 Part No.
12	0.472	1332.12004S	–
16	0.630	1332.16004S	1340.16004S
20	0.787	–	1340.20004S
25	0.987	–	1340.25004S

Weldon insert included with Collet

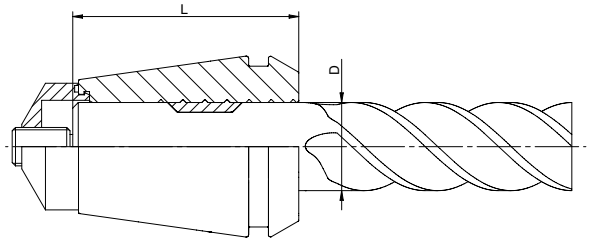
Inch

Ø [Inch]	Clamping [mm]	ER-SG 32 Part No.	ER -SG 40 Part No.
1/2	12.70	1332.12704S	1340.12704S
5/8	15.88	1332.15884S	1340.15884S
3/4	19.05	–	1340.19054S
1	25.40	–	1340.25404S

Weldon insert included with Collet

ER-SG Preset Range

Clamping Ø		ER-SG 32		ER-SG 40	
[mm]	[Inch]	L min (mm)	L max (mm)	L min (mm)	L max (mm)
12.000	0.472	40.6	46.8	–	–
12.700	0.500	40.6	46.8	–	–
15.875	0.625	40.6	46.8	46.6	52.8
16.000	0.630	40.6	46.8	46.6	52.8
19.050	0.750	–	–	46.6	52.8
20.000	0.787	–	–	46.6	52.8



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

! Requires the cutting tools to have a Weldon flat

Hydraulic Reduction Sleeves

Features | Benefits

Swiss Quality
Made in Switzerland to ISO9001/ISO14001.

1 Marking
With type and size (reduced collet selection error).

2 Product Traceability
Lot number marked on collets, therefore traceable through entire manufacturing process.

3 Original REGO-FIX®
When buying HS collets please note the REGO-FIX® quality seal △ on the front of the collet.

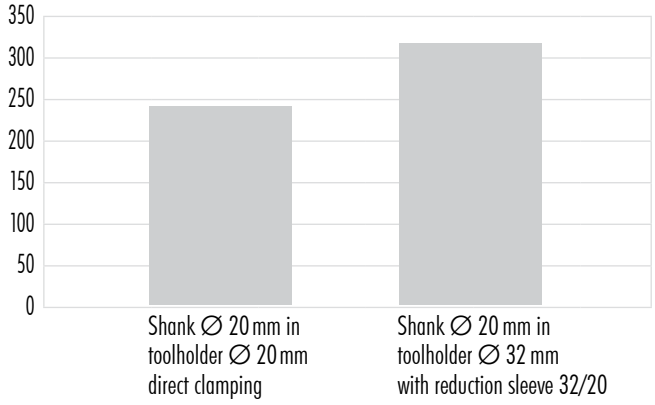
Precision
Highest T.I.R. 0.0001" <3 µm.

Flexibility
Clamping of different tool shank diameters in hydro-chucks.
4 standard sizes: 12, 20, 25, and 32 mm

Coolant Through Tools
Metal-to-metal seal for cutting tools with internal coolant channels.

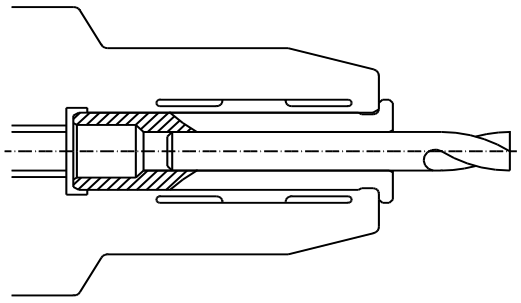
Increased Clamping Force
When using REGO-FIX® reduction sleeves the transferable torque is increased.

Comparison of Transferable Torque at Ø 20 mm



More Technical Information available at WWW.REGO-FIX.COM

Reduction Sleeves for Hydro-Chucks

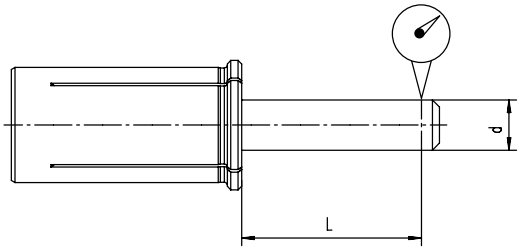


REGO-FIX® reduction sleeves are designed to fit hydro-chucks of different manufacturers. They are specially suited for high precision clamping of cylindrical tool shanks.

The special design of REGO-FIX® reduction sleeves allows an efficient use of coolant through cutting tools. This self-sealing system works with the most common hydraulic expansion chucks.

Concentricity (T.I.R.) of REGO-FIX® HS Type Reduction Sleeves

Clamping Diameter			T.I.R.
Above d [mm]	Up to d [mm]	L [mm]	max.
3.0	6.0	16.0	0.0001" (0.003 mm)
6.0	10.0	25.0	0.0001" (0.003 mm)
10.0	18.0	40.0	0.0001" (0.003 mm)
18.0	26.0	50.0	0.0001" (0.003 mm)

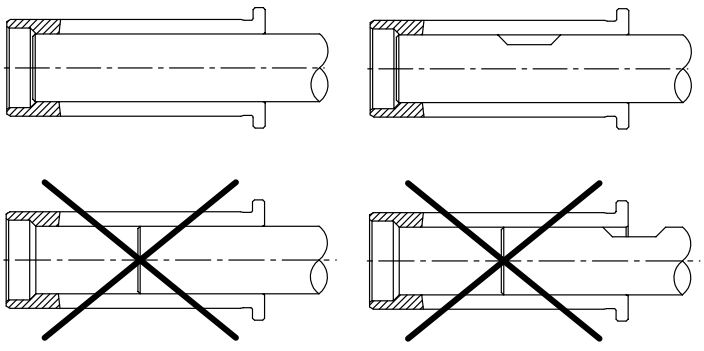


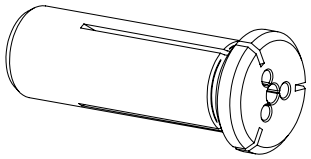
Improper assembly can damage the concentricity of the reduction sleeve.

Insert tools the full length of the reduction sleeve.

Only clamp h6 tool shanks.

Do not clamp reduction sleeve without a tool. Reduction sleeve will be damaged.





HS 12 MB

HS 12 CF | HS 20 CF

HS-MB Reduction Sleeves with Microbore

Ø Bore [mm]	Ø Bore [Inch]	HS 12-MB Part No.
1.000	0.0394	1912.01009
1.500	0.0591	1912.01509
2.000	0.0787	1912.02009
2.500	0.0984	1912.02509

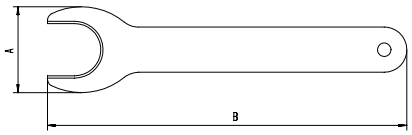
HS-CF Reduction Sleeves Coolant Flush with Coolant Channels

Ø Bore [mm]	Ø Bore [Inch]	HS 12-CF Part No.	HS 20-CF Part No.
3.000	0.1181	1912.03002	1920.03002
4.000	0.1575	1912.04002	1920.04002
5.000	0.1969	1912.05002	1920.05002
6.000	0.2362	1912.06002	1920.06002
8.000	0.3150	1912.08002	1920.08002
10.000	0.3937	–	1920.10002
12.000	0.4724	–	1920.12002
14.000	0.5512	–	1920.14002
16.000	0.6299	–	1920.16002

Extractor

Extractor	Part No.	For Sizes	A [mm]	B [mm]
EHS 12 - 1/2"	7321.12000	HS 12	24.6	100
EHS 20 - 3/4"	7321.20000	HS 20	38.0	160
EHS 25 - 1"	7321.25000	HS 25	51.0	180
EHS 32 - 1 1/4"	7321.32000	HS 32	63.0	200

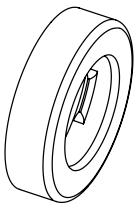
The extractor helps to remove the reduction sleeve from the hydro-chuck.

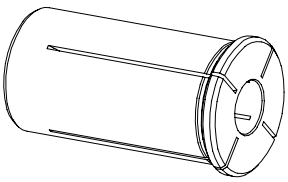


Chip Cover for Reduction Sleeves (HS 12, HS 20)

For optimal chip removal. Chip cover to click-in at the head of the REGO-FIX® reduction sleeves.

Type	Part No.	Matching for REGO-FIX® Reduction Sleeve Size	REGO-FIX® Reduction Sleeve-Ø [mm]	REGO-FIX® Reduction Sleeve-Ø [Inch]
CC-HS 12	7331.04200	HS 12, HS 1/2"	3 – 4	1/8
CC-HS 12	7331.06600	HS 12, HS 1/2"	5 – 6	3/16 – 1/4
CC-HS 12	7331.10200	HS 12, HS 1/2"	7 – 10	5/16 – 3/8
CC-HS 20	7333.04200	HS 20, HS 3/4"	3 – 4	1/8
CC-HS 20	7333.06600	HS 20, HS 3/4"	5 – 6	3/16 – 1/4
CC-HS 20	7333.10200	HS 20, HS 3/4"	7 – 10	5/16 – 3/8
CC-HS 20	7333.14200	HS 20, HS 3/4"	11 – 14	7/16 – 1/2
CC-HS 20	7333.16200	HS 20, HS 3/4"	15 – 16	9/16 – 5/8
CC-HS 20	7333.18200	HS 20, HS 3/4"	18	–





Reduction Sleeves

Metric

Ø Bore [mm]	HS 12 Part No.	HS 20 Part No.	HS 25 Part No.	HS 32 Part No.
3.000	1912.03000	1920.03000	1925.03000	–
4.000	1912.04000	1920.04000	1925.04000	–
5.000	1912.05000	1920.05000	1925.05000	1932.05000
6.000	1912.06000	1920.06000	1925.06000	1932.06000
7.000	1912.07000	1920.07000	1925.07000	1932.07000
8.000	1912.08000	1920.08000	1925.08000	1932.08000
9.000	1912.09000	1920.09000	1925.09000	1932.09000
10.000	1912.10000	1920.10000	1925.10000	1932.10000
11.000	–	1920.11000	–	1932.11000
12.000	–	1920.12000	1925.12000	1932.12000
13.000	–	1920.13000	–	1932.13000
14.000	–	1920.14000	1925.14000	1932.14000
15.000	–	1920.15000	–	1932.15000
16.000	–	1920.16000	1925.16000	1932.16000
17.000	–	–	–	1932.17000
18.000	–	1920.18000	1925.18000	1932.18000
19.000	–	–	–	1932.19000
20.000	–	–	1925.20000	1932.20000
22.000	–	–	–	1932.22000
25.000	–	–	–	1932.25000

Outer-Ø of reduction sleeve corresponds to the type.
HS 12 = Ø 12 mm
HS 20 = Ø 20 mm
HS 25 = Ø 25 mm
HS 32 = Ø 32 mm
HS 1/2 = Ø 1/2"
HS 3/4 = Ø 3/4"
HS 1 = Ø 1"
HS 1 1/4 = Ø 1 1/4"

Inch

Ø Bore [Inch]	HS 12 Part No.	HS 20 Part No.	HS 25 Part No.	HS 32 Part No.
1/8	1912.03181	1920.03181	1925.03181	–
3/16	1912.04761	1920.04761	1925.04761	1932.04761
1/4	1912.06351	1920.06351	1925.06351	1932.06351
5/16	1912.07941	1920.07941	1925.07941	1932.07941
3/8	1912.09521	1920.09521	1925.09521	1932.09521
7/16	–	1920.11111	1925.11111	1932.11111
1/2	–	1920.12701	1925.12701	1932.12701
9/16	–	1920.14291	1925.14291	1932.14291
5/8	–	1920.15881	1925.15881	1932.15881
11/16	–	–	1925.17461	1932.17461
3/4	–	–	1925.19051	1932.19051
13/16	–	–	1925.20631	1932.20631
7/8	–	–	–	1932.22221
15/16	–	–	–	1932.23811
1	–	–	–	1932.25401

Inch to Inch Sleeves

Ø Bore [Inch]	HS 1/2 Part No.	HS 3/4 Part No.	HS 1" Part No.	HS 1 1/4" Part No.
1/8	1913.03182	1919.03182	1926.03182	–
3/16	1913.04762	1919.04762	1926.04762	1931.04762
1/4	1913.06352	1919.06352	1926.06352	1931.06352
5/16	1913.07942	1919.07942	1926.07942	1931.07942
3/8	1913.09522	1919.09522	1926.09522	1931.09522
7/16	–	1919.11112	1926.11112	1931.11112
1/2	–	1919.12702	1926.12702	1931.12702
9/16	–	1919.14292	1926.14292	1931.14292
5/8	–	1919.15882	1926.15882	1931.15882
11/16	–	–	1926.17462	1931.17462
3/4	–	–	1926.19052	1931.19052
1	–	–	–	1931.25402

Tapping Collets

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and size (reduced collet selection errors).

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

3 Original REGO-FIX®
REGO-FIX® is the inventor of the worldwide standardized ER collet system. Our extensive experience results in a well-engineered system. When buying ER collets please note the REGO-FIX® quality seal △ on the front of the collet.

Interchangeable
With standard ER collet DIN 6499/ISO 15488.
No additional toolholders 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
All REGO-FIX® components such as tapping collets, toolholders and clamping nuts are from one source. The compatibility of the whole system results in the maximum precision, balance and tool life.

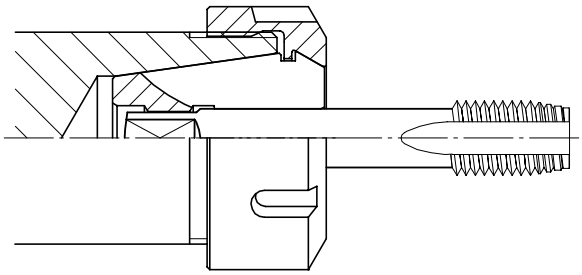
ER-GB Tapping Collets
without Axial Compensation

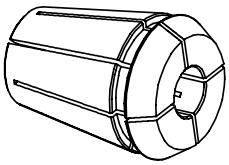
These rigid tapping collets are compatible with taps per DIN, ISO, JIS and ANSI standards.

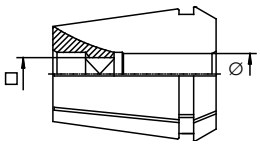
The REGO-FIX® ER-GB tapping collets are manufactured with an internal square. They are intended for use on CNC machines that have synchronized machine spindle speed and feed rate. Machines that have such "rigid" tapping capabilities require only minimal compensation.

We recommend the use of our SSY Softsynchro® tapping holders. They compensate minimal synchronizing differences of CNC machines.

For machines without tapping option we recommend the use of our axial compensating GSF tapping holders.

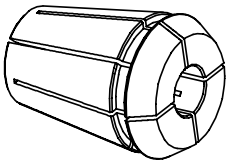


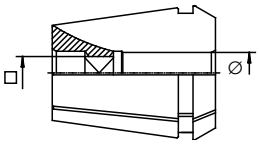




Rigid Tapping Collets
Metric Sizes (DIN, ISO, JIS)

Shank (Ø) [mm]	Square (□) [mm]	Standard	ER 11-GB Part No.	ER 16-GB Part No.	ER 20-GB Part No.	ER 25-GB Part No.	ER 32-GB Part No.	ER 40-GB Part No.	ER 50-GB Part No.
2.5	2.1	DIN	1411.02500	–	–	–	–	–	–
2.8	2.1	DIN	1411.02800	1416.02800	–	–	–	–	–
3.5	2.7	DIN	1411.03500	1416.03500	1420.03500	–	–	–	–
4.0	3.0	DIN	1411.04000	–	–	–	–	–	–
4.0	3.15/3.2	ISO, JIS	1411.04002	1416.04002	1420.04002	1425.04002	1432.04002	–	–
4.5	3.4	DIN	1411.04500	1416.04500	1420.04500	1425.04500	1432.04500	–	–
5.0	4.0	ISO, JIS	1411.05002	1416.05002	1420.05002	1425.05002	1432.05002	–	–
5.5	4.3	DIN	–	1416.05500	1420.05500	1425.05500	1432.05500	–	–
5.5	4.5	JIS	–	1416.05501	1420.05501	1425.05501	1432.05501	–	–
6.0	4.5	JIS	–	1416.06001	1420.06001	1425.06001	1432.06001	1440.06001	–
6.0	4.9	DIN	1411.06000	1416.06000	1420.06000	1425.06000	1432.06000	1440.06000	–
6.2	5.0	JIS	–	1416.06201	1420.06201	1425.06201	1432.06201	1440.06201	–
6.3	5.0	ISO	–	1416.06302	1420.06302	1425.06302	1432.06302	1440.06302	–
7.0	5.5	DIN, JIS	–	1416.07000	1420.07000	1425.07000	1432.07000	1440.07000	–
7.1	5.6	ISO	–	1416.07102	1420.07102	1425.07102	1432.07102	1440.07102	–
8.0	6.2/6.3	DIN, ISO	–	1416.08000	1420.08000	1425.08000	1432.08000	1440.08000	–
8.5	6.5	JIS	–	1416.08501	1420.08501	1425.08501	1432.08501	1440.08501	–
9.0	7.0/7.1	DIN, ISO	–	1416.09000	1420.09000	1425.09000	1432.09000	1440.09000	–
10.0	8.0	DIN, ISO	–	–	1420.10000	1425.10000	1432.10000	1440.10000	–
10.5	8.0	JIS	–	–	1420.10501	1425.10501	1432.10501	1440.10501	–
11.0	9.0	DIN	–	–	1420.11000	1425.11000	1432.11000	1440.11000	–
11.2	9.0	ISO	–	–	1420.11202	1425.11202	1432.11202	1440.11202	–
12.0	9.0	DIN	–	–	1420.12000	1425.12000	1432.12000	1440.12000	–
12.5	10.0	ISO, JIS	–	–	–	1425.12502	1432.12502	1440.12502	–
14.0	11.0/11.2	DIN, ISO, JIS	–	–	–	1425.14000	1432.14000	1440.14000	–
15.0	12.0	JIS	–	–	–	1425.15001	1432.15001	1440.15001	–
16.0	12.0	DIN	–	–	–	1425.16000	1432.16000	1440.16000	–
17.0	13.0	JIS	–	–	–	–	1432.17001	1440.17001	–
18.0	14.0/14.5	DIN, ISO	–	–	–	–	1432.18000	1440.18000	–
20.0	16.0	DIN, ISO	–	–	–	–	1432.20000	1440.20000	–
22.0	18.0	DIN	–	–	–	–	–	1440.22000	1450.22000
25.0	20.0	DIN	–	–	–	–	–	–	1450.25000
28.0	22.0	DIN	–	–	–	–	–	–	1450.28000
32.0	24.0	DIN	–	–	–	–	–	–	1450.32000





Rigid Tapping Collets
Inch Sizes (ANSI)

Shank (Ø) [inch]	Square (□) [inch]	Pipe Tap	ER 11-GB Part No.	ER 16-GB Part No.	ER 20-GB Part No.	ER 25-GB Part No.	ER 32-GB Part No.	ER 40-GB Part No.	ER 50-GB Part No.
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	1450.20325
0.896	0.672	–	–	–	–	–	–	–	1450.22765
1.021	0.766	–	–	–	–	–	–	–	1450.25935
1.108	0.831	–	–	–	–	–	–	–	1450.28145
1.233	0.925	–	–	–	–	–	–	–	1450.31325

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

Tapping Collets with Axial Compensation

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

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

Compatible
ET1-12 is compatible with ER11 colletholders.

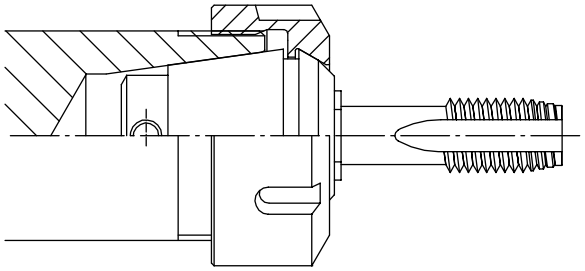
Cost Saving
No expensive tapping tools necessary.

Spring Tension
Adapted to tap size.

Compact
Very robust design with smallest space requirement.

ET1 Tapping Collets
with Axial Compensation

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



Directions for Use

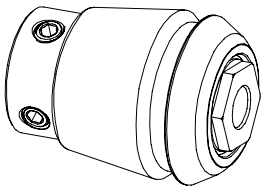
The following tapping process is recommended for tapping collets PCM ET1:

Fast approach, then tapping feed with approximately 95% of the pitch value, which uses 20-30% 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.

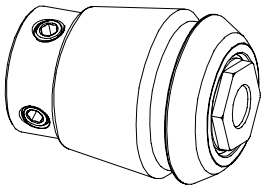
When tapping with very high speed, an appropriate programming compensation may be necessary to balance the differences of inertia between the spindle and the feed movement on reverse. In order to not disturb the axial compensation, use external coolant supply only!

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



ET-1 Axial Compensating Tap Collets
Metric Sizes (DIN, ISO, JIS)

Shank Ø [mm]	Standard	ET1-12 Part No.	ET1-16 Part No.	ET1-20 Part No.	ET1-25 Part No.	ET1-32 Part No.	ET1-40 Part No.
1.00	DIN	1512.01000	–	–	–	–	–
1.40	DIN	1512.01400	1516.01400	–	–	–	–
1.50	DIN	1512.01500	–	–	–	–	–
1.60	DIN	1512.01600	1516.01600	–	–	–	–
1.80	DIN	1512.01800	1516.01800	–	–	–	–
2.00	ISO	1512.02000	1516.02000	–	–	–	–
2.20	DIN	1512.02200	1516.02200	1520.02200	–	–	–
2.24	ISO	1512.02240	1516.02240	1520.02240	–	–	–
2.50	DIN, ISO	1512.02500	1516.02500	1520.02500	1525.02500	–	–
2.80	DIN, ISO	1512.02800	1516.02800	1520.02800	1525.02800	–	–
3.00	JIS	1512.03000	1516.03000	1520.03000	1525.03000	–	–
3.15	ISO	1512.03150	1516.03150	1520.03150	1525.03150	–	–
3.50	DIN	1512.03500	1516.03500	1520.03500	1525.03500	–	–
3.55	ISO	1512.03550	1516.03550	1520.03550	1525.03550	–	–
4.00	DIN, ISO, JIS	–	1516.04000	1520.04000	1525.04000	–	–
4.50	DIN, ISO	–	1516.04500	1520.04500	1525.04500	1532.04500	–
5.00	ISO, JIS	–	1516.05000	1520.05000	1525.05000	1532.05000	–
5.50	DIN, ISO	–	1516.05500	1520.05500	1525.05500	1532.05500	–
5.60	ISO	–	1516.05600	1520.05600	1525.05600	1532.05600	–
6.00	DIN, JIS	–	1516.06000	1520.06000	1525.06000	1532.06000	1540.06000
6.20	JIS	–	1516.06200	1520.06200	1525.06200	1532.06200	1540.06200
6.30	ISO	–	1516.06300	1520.06300	1525.06300	1532.06300	1540.06300
7.00	DIN, JIS	–	–	1520.07000	1525.07000	1532.07000	1540.07000
7.10	ISO	–	–	–	1525.07100	1532.07100	1540.07100
8.00	DIN, ISO, JIS	–	–	–	1525.08000	1532.08000	1540.08000
8.50	JIS	–	–	–	1525.08500	1532.08500	1540.08500
9.00	DIN, ISO	–	–	–	1525.09000	1532.09000	1540.09000
10.00	DIN, ISO	–	–	–	1525.10000	1532.10000	1540.10000
10.50	JIS	–	–	–	–	1532.10500	1540.10500
11.00	DIN	–	–	–	–	1532.11000	1540.11000
11.20	ISO	–	–	–	–	1532.11200	1540.11200
12.00	DIN	–	–	–	–	1532.12000	1540.12000
12.50	ISO, JIS	–	–	–	–	1532.12500	1540.12500
14.00	DIN, ISO, JIS	–	–	–	–	–	1540.14000
15.00	JIS	–	–	–	–	–	1540.15000
16.00	DIN, ISO	–	–	–	–	–	1540.16000
17.00	JIS	–	–	–	–	–	1540.17000



ET-1 Axial Compensating Tap Collets
Inch Sizes (ANSI)

Shank Ø [inch]	Shank Ø [mm]	ET1-12 Part No.	ET1-16 Part No.	ET1-20 Part No.	ET1-25 Part No.	ET1-32 Part No.	ET1-40 Part No.
0.141	3.580	1512.03581	1516.03581	1520.03581	1525.03581	–	–
0.168	4.270	–	1516.04271	1520.04271	1525.04271	1532.04271	–
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

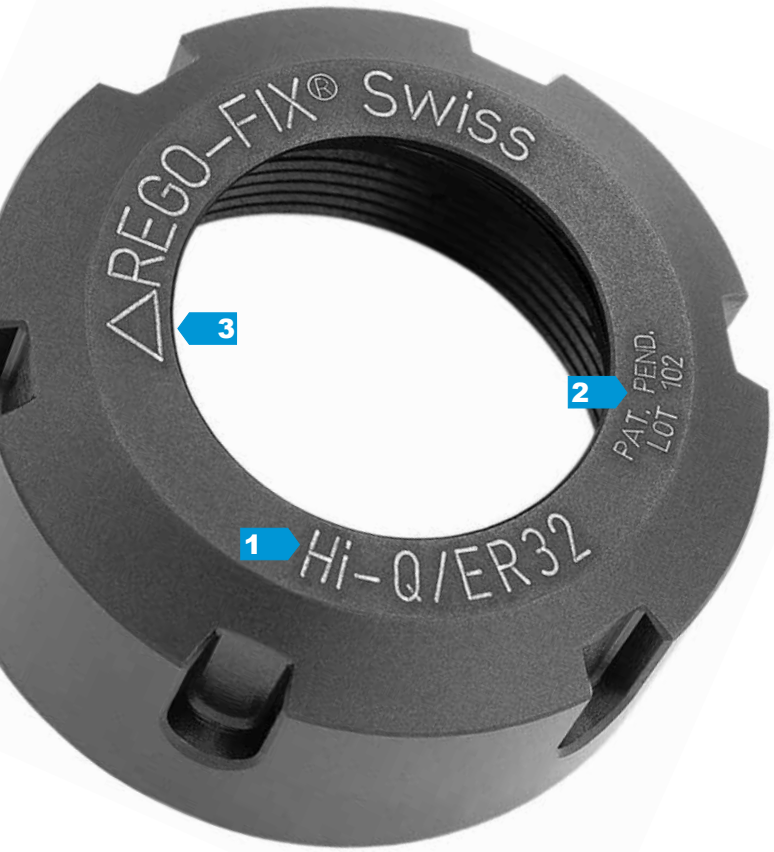
Tap Size	Shank	Square
No 0 - 6	0.141	0.110
1/16	0.141	0.110
3/32	0.141	0.110
1/8	0.141	0.110
5/32	0.168	0.131
No 8	0.168	0.131
3/16	0.194	0.152
No 9	0.194	0.152

Tap Size	Shank	Square
No 9	0.194	0.152
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

Clamping Nuts

Features | Benefits



Swiss Quality
Made in Switzerland to ISO9001/ISO14001.

1 ### Marking
With type and size (reduced selection error).

2 ### Product Traceability
Lot number marked on collets, therefore traceable through entire manufacturing process.

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. When buying ER clamping nuts please note the REGO-FIX® quality seal △ on the front of the clamping nut.

Collet Locking-System (pat. pend.)
Retains collet in nut for easier assembly.

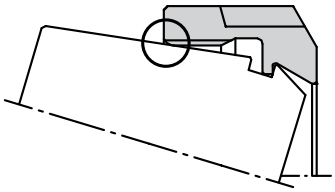
Q+® Balancing
Ideal for high-speed applications.

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.

Great Selection of Specific Products for Virtually any Application
– with friction bearing for higher clamping force
– with sealing disk for coolant through tools
– Mini nut with minimal external diameter
– High speed clamping nut (for high rpm)
– Externally threaded clamping nut for floating chucks, ERA Zero-Z® toolholder and live tooling



More Technical Information available at WWW.REGO-FIX.COM

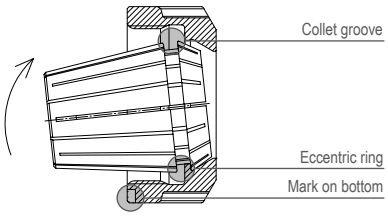
Mounting Instructions

DIN 6499/ISO 15488

Hi-Q® Clamping Nuts (pat. pend.)

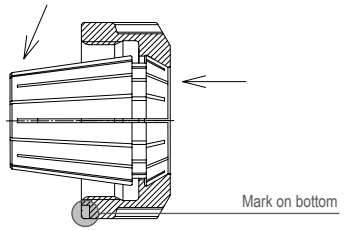
Assembling Collet

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 tool holder.



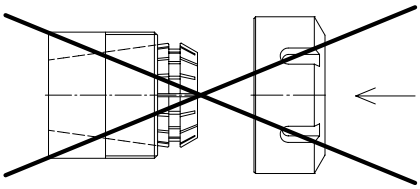
Removing Collet

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.

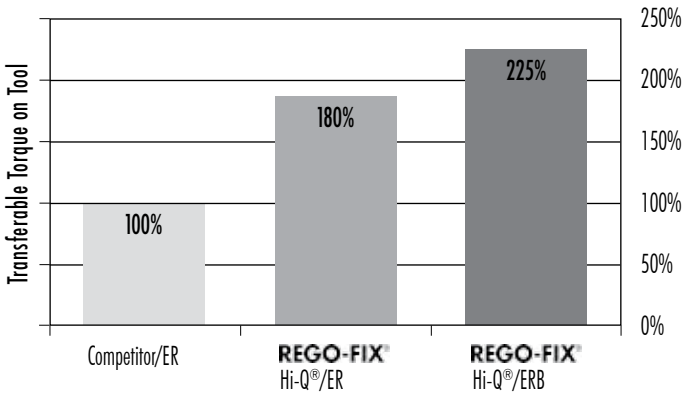


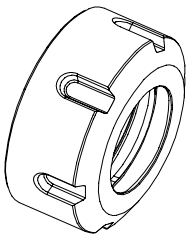
! Improper assembly can permanently damage the concentricity of the collet and may result in the destruction of the clamping nut.

Only mount nuts with correctly inserted collets! Never place the collet into the holder without first assembling into the nut.



Torque Comparison of Clamping Nuts





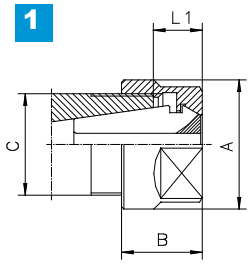
Hi-Q® | ER

DIN 6499/ISO 15488

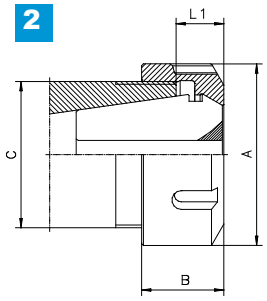
Hi-Q®/ER Standard (Hex & Spanner)

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	Drawing	Wrench
Hi-Q®/ER 11	3411.00000	19	11.3	M14 x 0.75	4.9 – 6.6	1	7112.11010
Hi-Q®/ER 16	3416.00000	28	17.5	M22 x 1.50	7.0 – 10.5	1	7112.16010
Hi-Q®/ER 20	3420.00000	34	19.0	M25 x 1.50	8.0 – 11.5	1	7112.20010
Hi-Q®/ER 25	3425.00000	42	20.0	M32 x 1.50	8.5 – 12.0	2	7111.25000
Hi-Q®/ER 32	3432.00000	50	22.5	M40 x 1.50	9.5 – 13.0	2	7111.32000
Hi-Q®/ER 40	3440.00000	63	25.5	M50 x 1.50	11.5 – 15.0	2	7111.40000
Hi-Q®/ER 50	3450.00000	78	35.3	M64 x 2.00	14.0 – 21.0	2	7111.50000

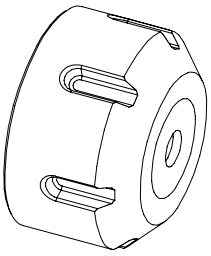
1



2



More Technical Information available at WWW.REGO-FIX.COM

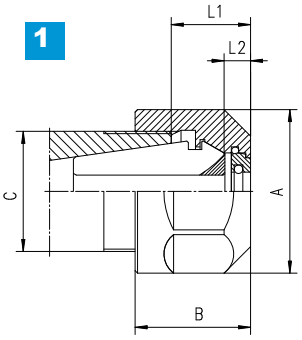


Hi-Q®/ERC Clamping Nuts for Internal Coolant for DS & KS disks (Hex & Spanner)

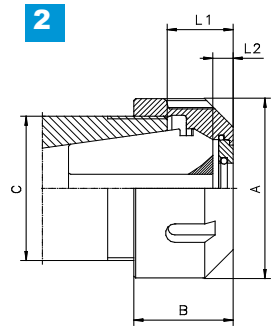
Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERC 16	3416.20000	28	22.5	M22 x 1.50	12.0 – 15.5	5.0	1	7112.16010
Hi-Q®/ERC 20	3420.20000	34	24.0	M25 x 1.50	13.0 – 16.5	5.0	1	7112.20010
Hi-Q®/ERC 25	3425.20000	42	25.0	M32 x 1.50	13.5 – 17.0	5.0	2	7111.25000
Hi-Q®/ERC 32	3432.20000	50	27.5	M40 x 1.50	14.5 – 18.0	5.0	2	7111.32000
Hi-Q®/ERC 40	3440.20000	63	30.5	M50 x 1.50	16.5 – 20.0	5.0	2	7111.40000
Hi-Q®/ERC 50	3450.20000	78	40.3	M64 x 2.00	19.0 – 26.0	5.0	2	7111.50000

See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

1

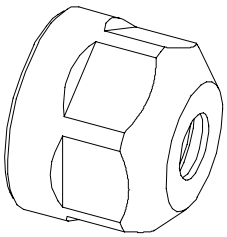


2



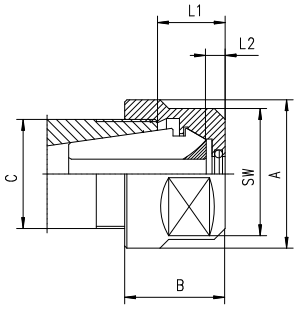
The maximum torque shall not be more than 25% above the recommended tightening torque.

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.



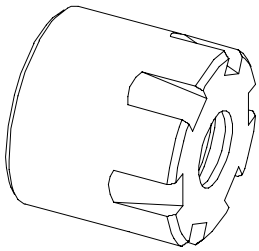
Clamping Nuts with Built-In Sealing System for Coolant Through Tools

Type	Part No.	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	Wrench
Hi-Q®/ERC 11 Ø 3.0 mm	3411.20300	3.00 – 2.50	0.1181 – 0.0984	3/32	7112.11010
Hi-Q®/ERC 11 Ø 3.5 mm	3411.20350	3.50 – 3.00	0.1378 – 0.1181	1/8	7112.11010
Hi-Q®/ERC 11 Ø 4.0 mm	3411.20400	4.00 – 3.50	0.1575 – 0.1378	5/32	7112.11010
Hi-Q®/ERC 11 Ø 4.5 mm	3411.20450	4.50 – 4.00	0.1772 – 0.1575	–	7112.11010
Hi-Q®/ERC 11 Ø 5.0 mm	3411.20500	5.00 – 4.50	0.1969 – 0.1772	3/16	7112.11010
Hi-Q®/ERC 11 Ø 5.5 mm	3411.20550	5.50 – 5.00	0.2165 – 0.1969	7/32	7112.11010
Hi-Q®/ERC 11 Ø 6.0 mm	3411.20600	6.00 – 5.50	0.2362 – 0.2165	–	7112.11010
Hi-Q®/ERC 11 Ø 6.5 mm	3411.20650	6.50 – 6.00	0.2559 – 0.2362	1/4	7112.11010
Hi-Q®/ERC 11 Ø 7.0 mm	3411.20700	7.00 – 6.50	0.2756 – 0.2559	–	7112.11010



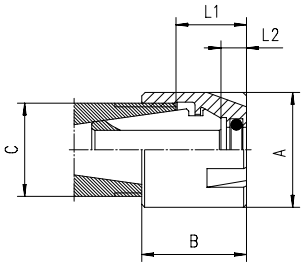
Higher clamping force of the clamping nut at the same time means higher stress on the toolholder. We recommend the use of a REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

The maximum torque shall not be more than 25% above the recommended tightening torque.



Hi-Q®/ERMC 11 Clamping Nuts with Built-In Sealing System for Coolant Through Tools

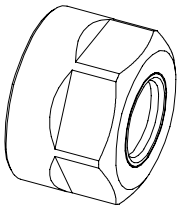
Type	Part No.	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	Wrench
Hi-Q®/ERMC 11 Ø 3.0 mm	3511.20300	3.00 – 2.50	0.1181 – 0.0984	3/32	7113.11000
Hi-Q®/ERMC 11 Ø 3.5 mm	3511.20350	3.50 – 3.00	0.1378 – 0.1181	1/8	7113.11000
Hi-Q®/ERMC 11 Ø 4.0 mm	3511.20400	4.00 – 3.50	0.1575 – 0.1378	5/32	7113.11000
Hi-Q®/ERMC 11 Ø 4.5 mm	3511.20450	4.50 – 4.00	0.1772 – 0.1575	–	7113.11000
Hi-Q®/ERMC 11 Ø 5.0 mm	3511.20500	5.00 – 4.50	0.1969 – 0.1772	3/16	7113.11000
Hi-Q®/ERMC 11 Ø 5.5 mm	3511.20550	5.50 – 5.00	0.2165 – 0.1969	7/32	7113.11000
Hi-Q®/ERMC 11 Ø 6.0 mm	3511.20600	6.00 – 5.50	0.2362 – 0.2165	–	7113.11000
Hi-Q®/ERMC 11 Ø 6.5 mm	3511.20650	6.50 – 6.00	0.2559 – 0.2362	1/4	7113.11000
Hi-Q®/ERMC 11 Ø 7.0 mm	3511.20700	7.00 – 6.50	0.2756 – 0.2559	–	7113.11000



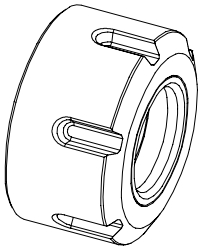
Hi-Q®/ER Friction Bearing Clamping Nuts

Features | Benefits

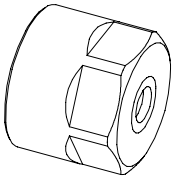
1 Hi-Q®/ERB 16 – ERB 20



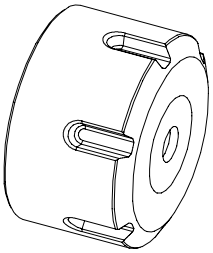
2 Hi-Q®/ERB 25 – ERB 50



3 Hi-Q®/ERBC 16 – ERBC 20



4 Hi-Q®/ERBC 25 – ERBC 40



Application

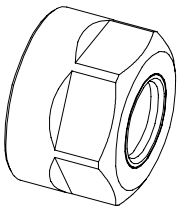
The Hi-Q®/ERB is a friction-bearing nut that offers the highest clamping force available. It is interchangeable with all other nuts per DIN 6499.

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, ultra precision collets and tapping collets for coolant through tools.

For Peripheral Cooling of Non Coolant Through Tools we recommend the coolant flush disks KS/ER.

-Up to 2000 psi (150 bar) coolant pressure
-Prevents dirt and chips from entering the collet

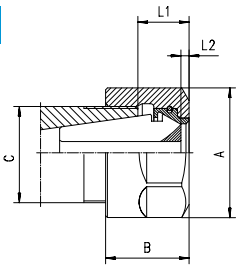


Hi-Q®/ERB Friction Bearing
Hi-Q®/ERBC Friction Bearing for Internal Coolant Through Tools

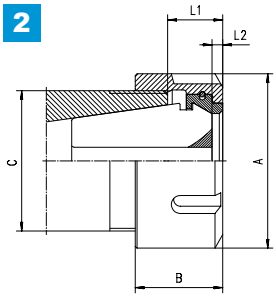
Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERB 16	3416.30000	28	20.2	M22 x 1.50	10.0 – 13.6	3.0	1	7112.16010
Hi-Q®/ERB 20	3420.30000	34	21.7	M25 x 1.50	11.0 – 14.5	3.0	1	7112.20010
Hi-Q®/ERB 25	3425.30000	42	22.6	M32 x 1.50	11.5 – 15.0	3.0	2	7111.25000
Hi-Q®/ERB 32	3432.30000	50	25.0	M40 x 1.50	12.5 – 16.0	3.0	2	7111.32000
Hi-Q®/ERB 40	3440.30000	63	28.2	M50 x 1.50	14.5 – 18.0	3.0	2	7111.40000
Hi-Q®/ERB 50	3450.30000	78	38.1	M64 x 2.00	17.0 – 24.0	3.0	2	7111.50000
Cooltant Through Capable								
Hi-Q®/ERBC 16	3416.40000	28	22.7	M22 x 1.50	12.5 – 16.0	5.5	3	7112.16010
Hi-Q®/ERBC 20	3420.40000	34	24.2	M25 x 1.50	13.5 – 17.0	5.5	3	7112.20010
Hi-Q®/ERBC 25	3425.40000	42	25.2	M32 x 1.50	14.0 – 17.5	5.5	4	7111.25000
Hi-Q®/ERBC 32	3432.40000	50	27.4	M40 x 1.50	15.0 – 18.5	5.5	4	7111.32000
Hi-Q®/ERBC 40	3440.40000	63	30.7	M50 x 1.50	17.0 – 20.5	5.5	4	7111.40000

See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

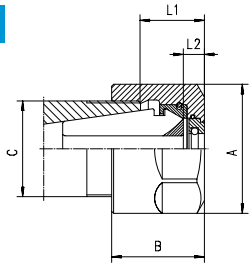
1



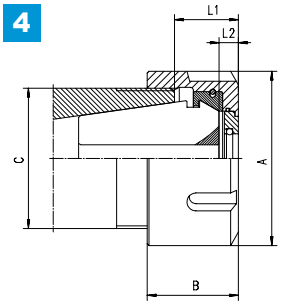
2



3



4



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

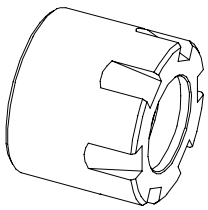
! The maximum torque shall not be more than 25% above the recommended tightening torque.

Hi-Q®/ERM Clamping Nuts

Features | Benefits

Hi-Q®/ERM

1



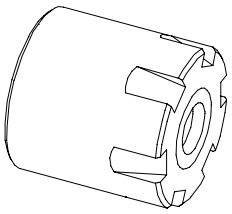
Application

This mini clamping nut is recommended for use where minimal external diameters are important. For example, it is ideal for multi-spindle drilling heads and colletholder extensions. The corresponding spanners have the same external dimensions as the clamping nuts.

-Clamping nuts with left-hand thread upon request.

Hi-Q®/ERMC

2

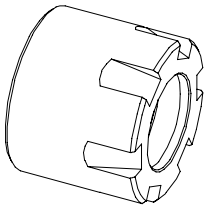


Application with Sealing Disk / Coolant Flush Disk

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, ultra precision collets and tapping collets for coolant through tools.

For Peripheral Cooling of Non Coolant Through Tools we recommend the coolant flush disks KS/ER.

-Up to 2000 psi (150 bar) coolant pressure
-Prevents dirt and chips from entering the collet

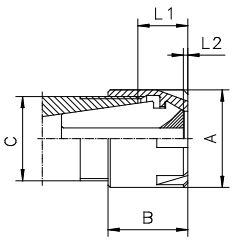


Hi-Q®/ERM Clamping Nuts with Minimal External Diameter
Hi-Q®/ERMC Clamping Nuts with Minimal External Diameter for Internal Coolant

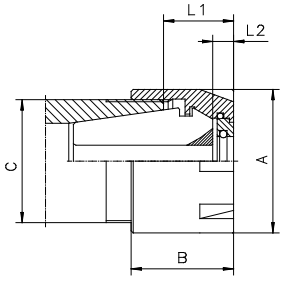
Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERM 8	3508.00000	12	10.8	M10 x 0.75	4.3 – 6.1	1.5	1	7113.08000
Hi-Q®/ERM 11	3511.00000	16	12.0	M13 x 0.75	5.7 – 7.5	0.9	1	7113.11000
Hi-Q®/ERM 16	3516.00000	22	18.4	M19 x 1.00	8.0 – 11.5	0.9	1	7113.16000
Hi-Q®/ERM 20	3520.00000	28	19.0	M24 x 1.00	8.0 – 11.5	–	1	7113.20000
Hi-Q®/ERM 25	3525.00000	35	20.0	M30 x 1.00	8.5 – 12.0	–	1	7113.25000
Coolant Through Capable								
Hi-Q®/ERMC 16	3516.20000	22	22.0	M19 x 1.00	11.5 – 15.0	4.5	2	7113.16000
Hi-Q®/ERMC 20	3520.20000	28	24.0	M24 x 1.00	13.0 – 16.5	5.0	2	7113.20000
Hi-Q®/ERMC 25	3525.20000	35	25.0	M30 x 1.00	13.5 – 17.0	5.0	2	7113.25000

See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

1



2



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

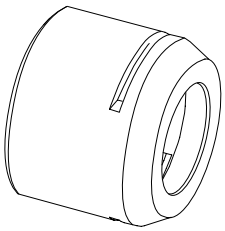
The maximum torque shall not be more than 25% above the recommended tightening torque.

Hi-Q®/ERMS Clamping Nuts

Features | Benefits

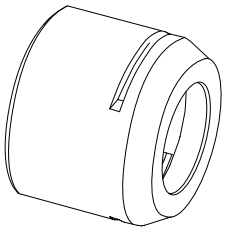
Application

The ER MS clamping nut for highest RPM with minimal external diameter does not have the extractor ring and all the contours are ground. This provides best balancing for critical high-speed machining applications. The collet is released with the special E MS spanner. ER MS nuts are also interchangeable with the Hi-Q®/ERM and with Hi-Q®/ERMC nuts.



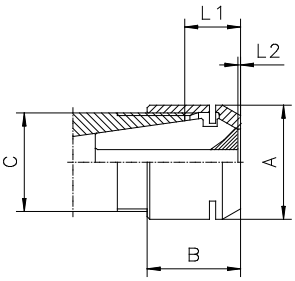
With the ER MS clamping nuts we recommend using ER-UP (ultra-precision) collets to achieve the highest concentricity.

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



ER MS Clamping Nuts for Highest RPM

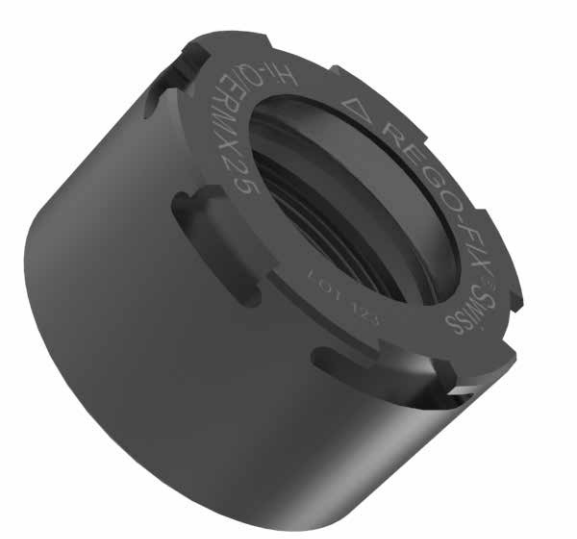
Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Wrench
ER 8 MS	3208.50000	12	10.8	M10 x 0.75	4.3 – 6.1	1.5	7114.08000
ER 11 MS	3211.50000	16	11.5	M13 x 0.75	4.6 – 6.8	0.4	7114.11000
ER 16 MS	3216.50000	22	17.8	M19 x 1.00	6.1 – 10.5	0.3	7114.16000
ER 20 MS	3220.50000	28	19.0	M24 x 1.00	7.1 – 11.5	0.3	7114.20000



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

The maximum torque shall not be more than 25% above the recommended tightening torque.

intRlox Mini-Clamping Nuts

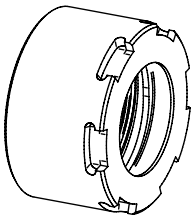


The new intRlox mini nuts feature an anti-slip locking design that will keep the wrench from slipping off during the assembly/disassembly operation. The new nut features a wrench that fits over and onto the nut that has locking grooves to keep it from slipping.

- Replaces older standard mini-nuts
- Reduces the chances of operator injury from the wrench slipping off the nut
- Requires a new MX type wrench

Hi-Q®/ERMX

1

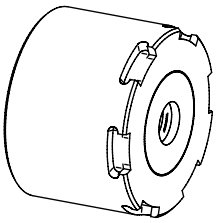


Application

This intRlox mini clamping nut is recommended for a direct replacement anywhere a standard mini-nut is used. For example, it is ideal for multi-spindle drilling heads and colletholder extensions. The corresponding spanners have the same external dimensions as the clamping nuts.

Hi-Q®/ERMXC

2

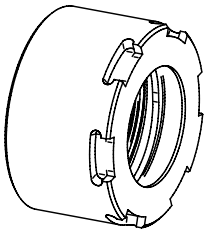


Application with Sealing Disk / Coolant Flush Disk

The intRlox mini 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, ultra precision collets and tapping collets for coolant through tools.

For peripheral cooling of non-coolant through tools we recommend the coolant flush disks KS/ER.

-Up to 2000 psi (150 bar) coolant pressure
-Prevents dirt and chips from entering the collet

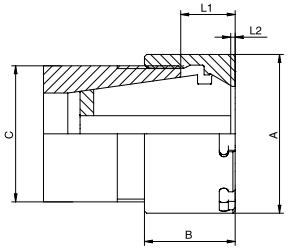


ER intRlox Mini-Clamping Nuts
ER intRlox Mini-Clamping Nuts for Internal Coolant

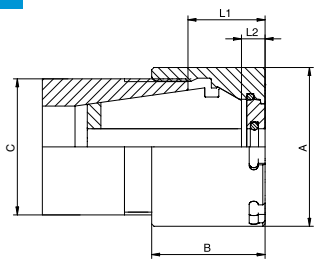
Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERMX 11	3511.60000	16	12.0	M13 x 0.75	5.7 – 7.5	0.9	1	7118.11000
Hi-Q®/ERMX 16	3516.60000	22	18.4	M 9 x 1.00	8.0 – 11.5	0.9	1	7118.16000
Hi-Q®/ERMX 20	3520.60000	28	19.0	M24 x 1.00	8.0 – 11.5	–	1	7118.20000
Coolant Through Capable								
Hi-Q®/ERMXC 16	3516.70000	22	22.0	M19 x 1.00	11.5 – 15.0	4.5	2	7118.16000
Hi-Q®/ERMXC 20	3520.70000	28	24.0	M24 x 1.00	13.0 – 16.5	5.0	2	7118.20000

See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

1



2



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

The maximum torque shall not be more than 25% above the recommended tightening torque.

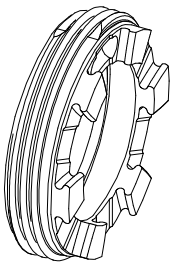
ER/MX nuts use a different wrench than the standard mini-nuts. Please select the correct wrench from the chart above.

intRlox
External Thread Clamping Nuts

Features | Benefits

Hi-Q®/ERAX (pat. pend.)

1



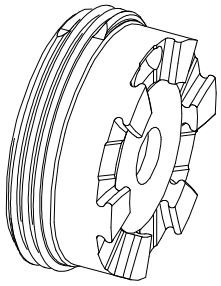
Application

For REGO-FIX® floating chucks and other ER toolholders with internal thread (such as ERA Zero-Z® colletholders).

-Space Saving Design
-S-Profile spanner is self centering on the nut and prevents slipping off

Hi-Q®/ERAXC (pat. pend.)

2

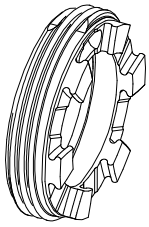


Application with Sealing Disk / Coolant Flush Disk

The intRlox external thread clamping nut for internal coolant 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, ultra precision collets and tapping collets for coolant through tools.

For peripheral cooling of non-coolant through tools we recommend the coolant flush disks KS/ER.

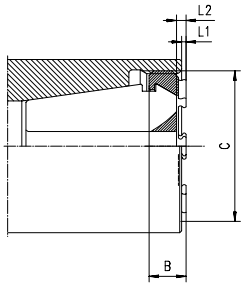
-Up to 2000 psi (150 bar) coolant pressure
-Prevents dirt and chips from entering the collet



ER intRlox External Thread Clamping Nuts
ER intRlox External Thread Clamping Nuts for Internal Coolant

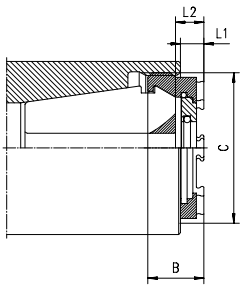
Type	Part No.	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERAX 11	3311.60000	7.5	M18 x 1.00	1.0 – 3.2	3.9	1	7117.11000
Hi-Q®/ERAX 16	3316.60000	7.6	M24 x 1.00	0.0 – 2.6	2.3	1	7117.16000
Hi-Q®/ERAX 20	3320.60000	8.5	M28 x 1.50	0.0 – 2.5	2.3	1	7117.20000
Hi-Q®/ERAX 25	3325.60000	8.8	M32 x 1.50	0.0 – 1.9	2.3	1	7117.25000
Hi-Q®/ERAX 32	3332.60000	9.8	M40 x 1.50	0.0 – 1.1	2.5	1	7117.32000
Hi-Q®/ERAX 40	3340.60000	11.7	M50 x 1.50	0.0 – 1.0	2.4	1	7117.40000

1



Type	Part No.	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q®/ERAXC 16	3316.70000	12.5	M24 x 1.00	3.1 – 7.5	7.2	2	7117.16000
Hi-Q®/ERAXC 20	3320.70000	13.5	M28 x 1.50	3.1 – 7.5	7.3	2	7117.20000
Hi-Q®/ERAXC 25	3325.70000	13.8	M32 x 1.50	2.5 – 6.9	7.3	2	7117.25000
Hi-Q®/ERAXC 32	3332.70000	14.9	M40 x 1.50	1.8 – 6.2	7.6	2	7117.32000
Hi-Q®/ERAXC 40	3340.70000	16.6	M50 x 1.50	1.5 – 5.9	7.3	2	7117.40000

2



See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

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

The maximum torque shall not be more than 25% above the recommended tightening torque.

reCool® Coolant System

Features | Benefits

Swiss Quality
Made in Switzerland to ISO9001/ISO14001.

Marking
With type and size (reduces selection error).

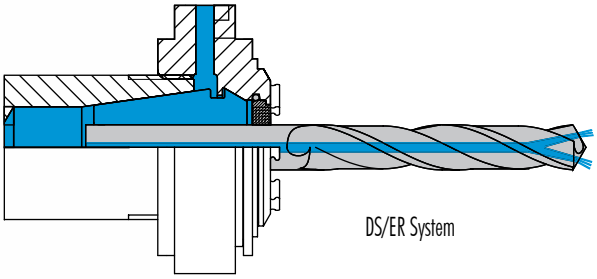
Product Traceability
Lot numbers are marked on products for traceability throughout the entire manufacturing process.

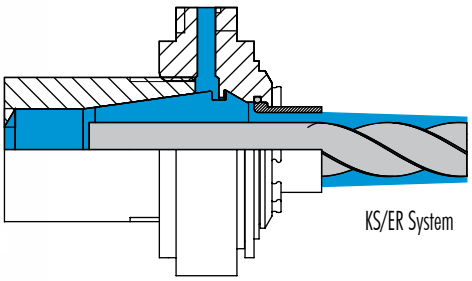
Original REGO-FIX®
Our extensive experience results in a well-engineered system. When buying ER clamping nuts please note the REGO-FIX® quality symbol △ on the front of the clamping nut.

Collet Locking-System (pat. pend.)
Retains collet in nut for easier assembly.

Interchangeable
Designed to work with most externally threaded ER Live Tooling Systems

Coolant Coverage
Optimizes coolant coverage by converting flood coolant tools to through coolant tools





More Technical Information available at WWW.REGO-FIX.COM

What is reCool®?

Rotary reCool® (pat. pend.)

REGO-FIX's reCool® is a unique system that converts existing live tooling systems to utilize coolant through tooling.

- For tools with metric male thread with ER collet
- Speeds of up to 12,000 rpm*
- Coolant pressures up to 1,000 PSI*
- Coolant lubricated bearings maintenance free
- Water based coolants only
- For through cutter coolant (with sealing disc DS)
- For peripheral coolant (with flush disc KS)
- Converts existing tooling to coolant through

* Call for more details on the latest models/versions.

Peripheral Cooling Without reCool®

- Adjustment of the nozzles or spray tubes, with different tool length and tool diameter limited
- Coolant is not directly at the cutting edge and thus higher wear and tear on the tool
- Scattering losses of the spray jet
- Bad chip removal

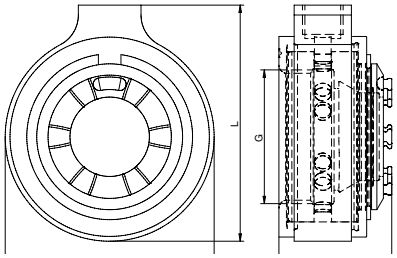
Internal Cooling With reCool®

- Optimum coolant coverage (for every tool, also for difficult to access machining)
- No scattering or spray losses
- Lubricant quantity of each tool optimized (via through tool flow)
- Best chip removal

Rotary RCR | ER

reCool® Rotary Sets:

Part No.	Description	D (mm)	L (mm)	H (mm)	G	Wrench
3716.00000	SET RCR / ER 16 Set reCool®	34.00	40.50	24.50	M22 x 1.5	7117.16000
3720.00000	SET RCR / ER 20 Set reCool®	40.00	46.50	26.00	M25 x 1.5	7117.20000
3725.00000	SET RCR / ER 25 Set reCool®	50.00	56.50	27.00	M32 x 1.5	7117.25000
3732.00000	SET RCR / ER 32 Set reCool®	62.50	68.25	29.50	M40 x 1.5	7117.32000
3740.00000	SET RCR / ER 40 Set reCool®	72.50	78.25	32.50	M50 x 1.5	7117.40000



See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

reCool® Additional Accessories

Type	Part number	Description
SET RHS	3799.91000	Coolant pipe with protective cover, 6mm x 400mm
SET RVG 1/8" - 0°	3799.92180	1/8" BSP straight push-in fitting
SET RVA 1/8" - 90°	3799.92189	1/8" BSP elbow push-in fitting
SET RVG M8 x 1 - 0°	3799.92810	M8x1 straight push-in fitting
RBA 10	3799.93100	Ball adapter 1/8" BSP 10mm
RBA 11	3799.93110	Ball adapter 1/8" BSP 11mm
RBA 12	3799.93120	Ball adapter 1/8" BSP 12mm
RBA 13	3799.93130	Ball adapter 1/8" BSP 13mm
RBA 14	3799.93140	Ball adapter 1/8" BSP 14mm
RBA 15	3799.93150	Ball adapter 1/8" BSP 15mm
RBA 16	3799.93160	Ball adapter 1/8" BSP 16mm
RRA 10	3799.94100	Press fit thread adapter 1/8" BSP 10mm
RRA 11	3799.94110	Press fit thread adapter 1/8" BSP 11mm
RRA 12	3799.94120	Press fit thread adapter 1/8" BSP 12mm
RRA 13	3799.94130	Press fit thread adapter 1/8" BSP 13mm
RRA 14	3799.94140	Press fit thread adapter 1/8" BSP 14mm
RRA 15	3799.94150	Press fit thread adapter 1/8" BSP 15mm
RRA 16	3799.94160	Press fit thread adapter 1/8" BSP 16mm

! High pressure and high RPM models available upon request.

! Suitable for use with some angleheads. Special plumbing may be required.

reCool® for Swiss Automatics

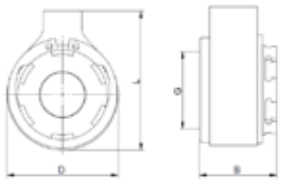
- Designed to replace standard ER mini-nuts type ER 16 & ER 20.
- No longer requires access to the back of the tools to induce coolant with fittings
- No more coolant fittings on the front of your holders reducing your working area.
- Coolant pressures up to 1,450 PSI with standard hose and 2100psi with braided hose.
- Suitable for water based or oil type coolants
- For through cutter coolant (with sealing disc DS)
- For peripheral coolant (with flush disc KS)
- Converts existing tooling to coolant through
- Uses new anti-slip nut design profile ER/MX

Peripheral Cooling Without reCool®

Internal Cooling With reCool®

Static reCool® Sets:

Part No	Description	D (mm)	L (mm)	H (mm)	Wrench
3716.50000	SET RCS / ERMX 16 Set reCool®	34.00	40.50	24.50	7118.16000
3720.50000	SET RCS / ERMX 20 Set reCool®	40.00	46.50	26.00	7118.20000



See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

Static reCool® Accessories:

Part No	Description
3799.95000	SET RHS-100 Coolant pipe with protector Ø 6 mm, 400 mm length
3799.97100	RHS-HP L100 Braided steel hose to 150 bar length 100 mm
3799.97200	RHS-HP L200 Braided steel hose to 150 bar length 200 mm
3799.97300	RHS-HP L300 Braided steel hose to 150 bar length 300 mm
3799.97400	RHS-HP L400 Braided steel hose to 150 bar length 400 mm

reCool® RCS & RCR suitable for use with REGO-FIX® coolant disk systems DS/ER and KS/ER

Sealing Disks

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and size (reduced sealing disk selection errors).

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

3 Original REGO-FIX®
Our extensive experience results in a well-engineered system. When buying ER sealing disks please note the REGO-FIX® quality seal △ on the sealing disk. Guarantee for best Quality.

Sealing Range
0.5 mm per disk.

High Pressure
For applications up to 2,000 psi (150 bar).

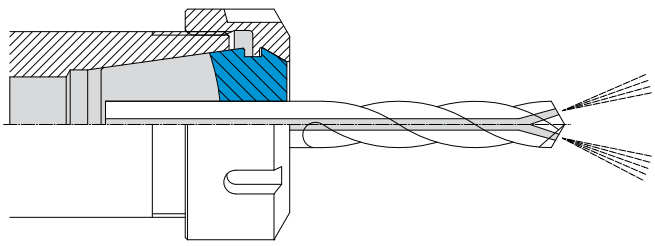
Protection
Protects against all kind of dirt and chips entering the slots of the collet.

Matched Tooling System for Best Fit
ER collet, toolholder, clamping nut and sealing disk all from REGO-FIX®.

Coolant Resistent
O-Ring for aggressive coolant (VITON®-quality).

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

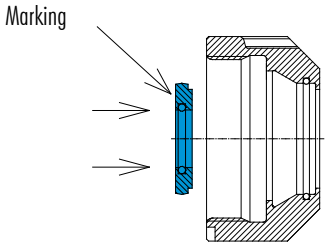
Coolant Through
For better cooling and lubrication.
Extends tool life and supports chip removal.



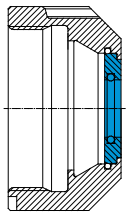
Sealing Disks DS/ER **(pat. pend.)**

Assembling

Insert the small diameter of the disk into the center of the coolant nut and apply even pressure until the disk is properly seated into the nut.

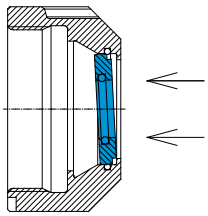


The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

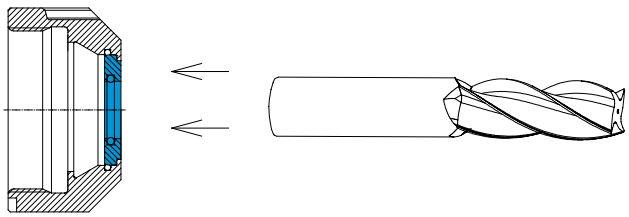


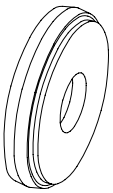
Removing

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



! Insert tool from the front. O-ring might be destroyed if cutting tool is inserted from the back.



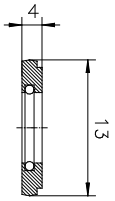


Sealing Disks DS/ER 16 and DS/ER 20

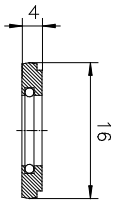
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 16 Part No.	DS/ER 20 Part No.
3.00 - 2.50	0.1181 - 0.0984	3/32	3916.00300	3920.00300
3.50 - 3.00	0.1378 - 0.1181	1/8	3916.00350*	3920.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32	3916.00400*	3920.00400*
4.50 - 4.00	0.1772 - 0.1575	–	3916.00450*	3920.00450*
5.00 - 4.50	0.1969 - 0.1772	3/16	3916.00500*	3920.00500*
5.50 - 5.00	0.2165 - 0.1969	7/32	3916.00550*	3920.00550*
6.00 - 5.50	0.2362 - 0.2165	–	3916.00600*	3920.00600*
6.50 - 6.00	0.2559 - 0.2362	1/4	3916.00650*	3920.00650*
7.00 - 6.50	0.2756 - 0.2559	–	3916.00700*	3920.00700*
7.50 - 7.00	0.2953 - 0.2756	9/32	3916.00750*	3920.00750*
8.00 - 7.50	0.3150 - 0.2953	5/16	3916.00800*	3920.00800*
8.50 - 8.00	0.3347 - 0.3150	–	3916.00850*	3920.00850*
9.00 - 8.50	0.3543 - 0.3347	11/32	3916.00900*	3920.00900*
9.50 - 9.00	0.3740 - 0.3543	3/8	3916.00950*	3920.00950*
10.00 - 9.50	0.3937 - 0.3740	–	3916.01000*	3920.01000*
10.50 - 10.00	0.4134 - 0.3937	13/32	–	3920.01050*
11.00 - 10.50	0.4330 - 0.4134	–	–	3920.01100*
11.50 - 11.00	0.4528 - 0.4330	7/16	–	3920.01150*
12.00 - 11.50	0.4724 - 0.4528	15/32	–	3920.01200*
12.50 - 12.00	0.4921 - 0.4724	–	–	3920.01250*
13.00 - 12.50	0.5118 - 0.4921	1/2	–	3920.01300*

*Included in sealing disk set.

DS/ER 16



DS/ER 20

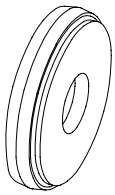


Sealing Disk Sets
DS/ER 16 and DS/ER 20

Part Description	Part No.	Sealing Capacity [mm]	Supplied with
Set DS/ER 16	3916.00000	3.50 – 10.00	14 sealing disks with 1 tray DSR/16
Set DS/ER 20	3920.00000	3.50 – 13.00	20 sealing disks with 1 tray DSR/20

Tray
DS/ER 16 and DS/ER 20

Part Description	Part No.
Tray DSR/16	0712.21600
Tray DSR/20	0712.22000

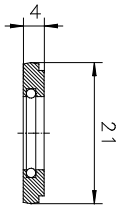


Sealing Disks DS/ER 25 and DS/ER 32

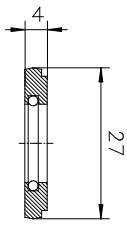
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 25 Part No.	DS/ER 32 Part No.
3.00 - 2.50	0.1181 - 0.0984	3/32	3925.00300	3932.00300
3.50 - 3.00	0.1378 - 0.1181	1/8	3925.00350*	3932.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32	3925.00400*	3932.00400*
4.50 - 4.00	0.1772 - 0.1575	–	3925.00450*	3932.00450*
5.00 - 4.50	0.1969 - 0.1772	3/16	3925.00500*	3932.00500*
5.50 - 5.00	0.2165 - 0.1969	7/32	3925.00550*	3932.00550*
6.00 - 5.50	0.2362 - 0.2165	–	3925.00600*	3932.00600*
6.50 - 6.00	0.2559 - 0.2362	1/4	3925.00650*	3932.00650*
7.00 - 6.50	0.2756 - 0.2559	–	3925.00700*	3932.00700*
7.50 - 7.00	0.2953 - 0.2756	9/32	3925.00750*	3932.00750*
8.00 - 7.50	0.3150 - 0.2953	5/16	3925.00800*	3932.00800*
8.50 - 8.00	0.3347 - 0.3150	–	3925.00850*	3932.00850*
9.00 - 8.50	0.3543 - 0.3347	11/32	3925.00900*	3932.00900*
9.50 - 9.00	0.3740 - 0.3543	3/8	3925.00950*	3932.00950*
10.00 - 9.50	0.3937 - 0.3740	–	3925.01000*	3932.01000*
10.50 - 10.00	0.4134 - 0.3937	13/32	3925.01050*	3932.01050*
11.00 - 10.50	0.4330 - 0.4134	–	3925.01100*	3932.01100*
11.50 - 11.00	0.4528 - 0.4330	7/16	3925.01150*	3932.01150*
12.00-11.50	0.4724 - t0.4528	15/32	3925.01200*	3932.01200*
12.50 - 12.00	0.4921 - 0.4724	–	3925.01250*	3932.01250*
13.00 - 12.50	0.5118 - 0.4921	1/2	3925.01300*	3932.01300*
13.50 - 13.00	0.5315 - 0.5118	17/32	3925.01350*	3932.01350*
14.00 - 13.50	0.5512 - 0.5315	–	3925.01400*	3932.01400*
14.50 - 14.00	0.5709 - 0.5512	9/16	3925.01450*	3932.01450*
15.00 - 14.50	0.5905 - 0.5709	–	3925.01500*	3932.01500*
15.50 - 15.00	0.6102 - 0.5905	19/32	3925.01550*	3932.01550*
16.00 - 15.50	0.6300 - 0.6102	5/8	3925.01600*	3932.01600*
16.50 - 16.00	0.6496 - 0.6300	–	–	3932.01650*
17.00 - 16.50	0.6693 - 0.6496	21/32	–	3932.01700*
17.50 - 17.00	0.6890 - 0.6693	11/16	–	3932.01750*
18.00 - 17.50	0.7087 - 0.6890	–	–	3932.01800*
18.50 - 18.00	0.7284 - 0.7087	23/32	–	3932.01850*
19.00 - 18.50	0.7480 - 0.7284	3/4	–	3932.01900*
19.50 - 19.00	0.7677 - 0.7480	–	–	3932.01950*
20.00 - 19.50	0.7874 - 0.7677	25/32	–	3932.02000*

*Included in sealing disk set.

DS/ER 25



DS/ER 32



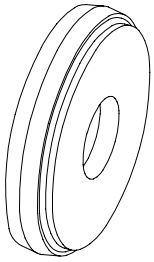
Sealing Disk Sets
DS/ER 25 and DS/ER 32

Part Description	Part No.	Sealing Capacity [mm]	Supplied with
Set DS/ER 25	3925.00000	3.50 – 16.00	26 sealing disks with 1 tray DSR/25
Set DS/ER 32	3932.00000	3.50 – 20.00	34 sealing disks with 1 tray DSR/32

Tray
DS/ER 25 and DS/ER 32

Part Description	Part No.
Tray DSR/25	0712.23200
Tray DSR/32	0712.24000

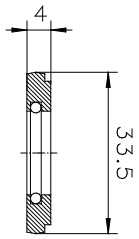
DS/ER 40



Sealing Disks DS/ER 40

Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 40 Part No.
3.00 - 2.50	0.1181 - 0.0984	3/32	3940.00300
3.50 - 3.00	0.1378 - 0.1181	1/8	3940.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32	3940.00400*
4.50 - 4.00	0.1772 - 0.1575	–	3940.00450*
5.00 - 4.50	0.1969 - 0.1772	3/16	3940.00500*
5.50 - 5.00	0.2165 - 0.1969	7/32	3940.00550*
6.00 - 5.50	0.2362 - 0.2165	–	3940.00600*
6.50 - 6.00	0.2559 - 0.2362	1/4	3940.00650*
7.00 - 6.50	0.2756 - 0.2559	–	3940.00700*
7.50 - 7.00	0.2953 - 0.2756	9/32	3940.00750*
8.00 - 7.50	0.3150 - 0.2953	5/16	3940.00800*
8.50 - 8.00	0.3347 - 0.3150	–	3940.00850*
9.00 - 8.50	0.3543 - 0.3347	11/32	3940.00900*
9.50 - 9.00	0.3740 - 0.3543	3/8	3940.00950*
10.00 - 9.50	0.3937 - 0.3740	–	3940.01000*
10.50 - 10.00	0.4134 - 0.3937	13/32	3940.01050*
11.00 - 10.50	0.4330 - 0.4134	–	3940.01100*
11.50 - 11.00	0.4528 - 0.4330	7/16	3940.01150*
12.00 - 11.50	0.4724 - 0.4528	15/32	3940.01200*
12.50 - 12.00	0.4921 - 0.4724	–	3940.01250*
13.00 - 12.50	0.5118 - 0.4921	1/2	3940.01300*
13.50 - 13.00	0.5315 - 0.5118	17/32	3940.01350*
14.00 - 13.50	0.5512 - 0.5315	–	3940.01400*
14.50 - 14.00	0.5709 - 0.5512	9/16	3940.01450*
15.00 - 14.50	0.5905 - 0.5709	–	3940.01500*
15.50 - 15.00	0.6102 - 0.5905	19/32	3940.01550*
16.00 - 15.50	0.6300 - 0.6102	5/8	3940.01600*
16.50 - 16.00	0.6496 - 0.6300	–	3940.01650*
17.00 - 16.50	0.6693 - 0.6496	21/32	3940.01700*
17.50 - 17.00	0.6890 - 0.6693	11/16	3940.01750*
18.00 - 17.50	0.7087 - 0.6890	–	3940.01800*
18.50 - 18.00	0.7283 - 0.7087	23/32	3940.01850*
19.00 - 18.50	0.7480 - 0.7283	3/4	3940.01900*
19.50 - 19.00	0.7677 - 0.7480	–	3940.01950*
20.00 - 19.50	0.7874 - 0.7677	25/32	3940.02000*
20.50 - 20.00	0.8071 - 0.7874	–	3940.02050*
21.00 - 20.50	0.8268 - 0.8071	13/16	3940.02100*
21.50 - 21.00	0.8465 - 0.7874	27/32	3940.02150*
22.00 - 21.50	0.8661 - 0.8465	–	3940.02200*
22.50 - 21.00	0.8858 - 0.8661	7/8	3940.02250*
23.00 - 22.50	0.9055 - 0.8858	29/32	3940.02300*
23.50 - 23.00	0.9252 - 0.9055	–	3940.02350*
24.00 - 23.50	0.9449 - 0.9252	15/16	3940.02400*
24.50 - 24.00	0.9646 - 0.9449	–	3940.02450*
25.00 - 24.50	0.9843 - 0.9646	31/32	3940.02500*
25.50 - 25.00	1.0039 - 0.9843	1	3940.02550*
26.00 - 25.50	1.0236 - 1.0039	–	3940.02600*

*Included in sealing disk set.



Sealing Disk Set
DS/ER 40

Part Description	Part No.	Sealing Capacity [mm]	Supplied with
Set DS/ER 40	3940.00000	3.50 – 26.00	46 sealing disks with 1 tray DSR/40

Tray
DS/ER 40

Part Description	Part No.
Tray DSR/40	0712.24000

DS/ER 50 Sealing Disk Option

The new Hi-QERC 50 nut continues the line of ER nuts available from REGO-FIX. Designed for the larger ER50 tools. A special adapter is available to allow the use of all ER 40 coolant and flush type disks reducing the number of disks required specifically for ER 50 applications.

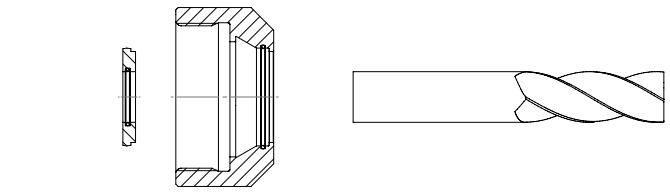
Sealing Disks DS/ER 50

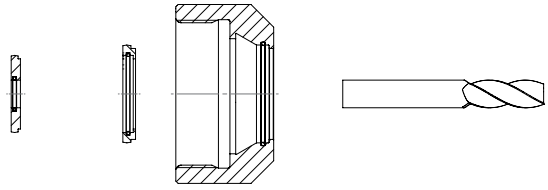
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 50 Part No.
22.00 - 21.50	0.8661 - 0.8465	–	3950.02200
25.00 - 24.50	0.9843 - 0.9646	31/32	3950.02500
28.00 - 27.50	1.1024 - 1.0827	1 1/16	3950.02800
32.00 - 31.50	1.2600 - 1.2401	1 1/4	3950.03200
36.00 - 35.50	1.4173 - 1.3976	1 3/8	3950.03600

Adapter Hi-Q®/ERC to DS/ER 40

Description	Part No.
Adapter to convert Hi-Q®/ERC 50 coolant nut to accept DS/ER 40 coolant disk and KS/ER 40 coolant flush disks	3950.40000

Assembly Instructions





Coolant Flush Disks

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 ### Marking
Type and size (reduced disk selection errors).

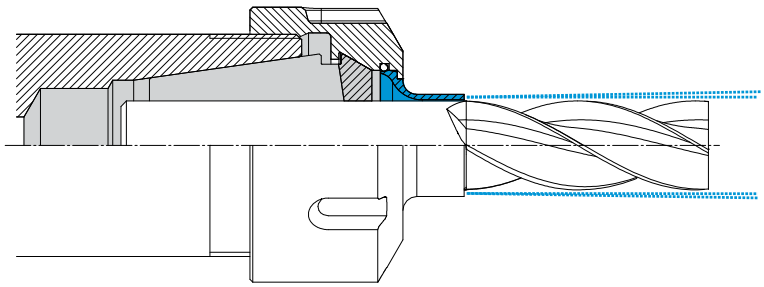
2 ### Traceability
Lot number marking on all products for traceability through the entire manufacturing process.

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. When buying ER coolant flush disks please note the REGO-FIX® quality seal △ on the coolant flush disk. Guarantee for best quality.

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.

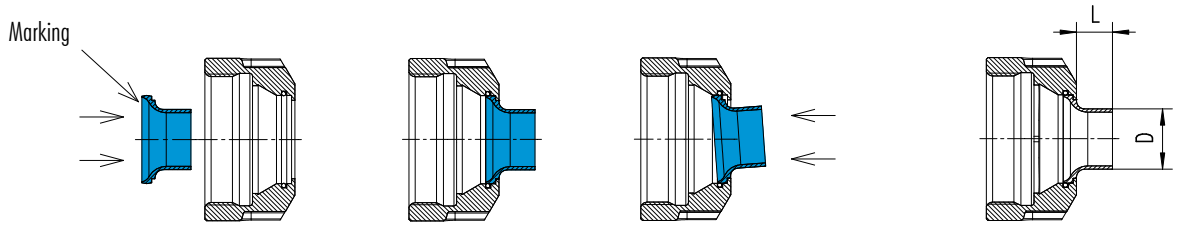
Peripheral Cooling
For better cooling and lubrication.
Extends tool life and supports chip removal.



More Technical Information available at WWW.REGO-FIX.COM

Coolant Flush Disks KS/ER (pat. pend.)

Assembly/Disassembly Identical to sealing disks.



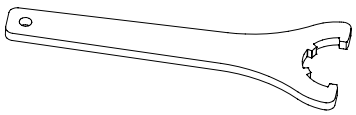
Nominal Size [mm]	Ø [Inch]	KS/ER 16 Part No.	L [mm]	D [mm]	KS/ER 20 Part No.	L [mm]	D [mm]	KS/ER 25 Part No.	L [mm]	D [mm]	KS/ER 32 Part No.	L [mm]	D [mm]
3.000	–	3916.20300	11.0	6.4	3920.20300	11.0	6.4	3925.20300	11.0	6.4	3932.20300	11.0	6.4
3.175	1/8	3916.30318	11.0	6.6	3920.30318	11.0	6.6	3925.30318	11.0	6.6	3932.30318	11.0	6.6
4.000	–	3916.20400	11.0	7.4	3920.20400	11.0	7.4	3925.20400	11.0	7.4	3932.20400	11.0	7.4
4.763	3/16	3916.30476	11.0	8.2	3920.30476	11.0	8.2	3925.30476	11.0	8.2	3932.30476	11.0	8.2
5.000	–	3916.20500	11.0	8.4	3920.20500	11.0	8.4	3925.20500	11.0	8.4	3932.20500	11.0	8.4
6.000	–	3916.20600	11.0	9.4	3920.20600	11.0	9.4	3925.20600	11.0	9.4	3932.20600	11.0	9.4
6.350	1/4	3916.30635	11.0	9.7	3920.30635	11.0	9.7	3925.30635	11.0	9.7	3932.30635	11.0	9.7
7.000	–	3916.20700	11.0	12.0	3920.20700	11.0	10.4	3925.20700	11.0	10.4	3932.20700	11.0	10.4
7.938	5/16	3916.30794	11.0	11.0	3920.30794	11.0	11.3	3925.30794	11.0	11.3	3932.30794	11.0	11.3
8.000	–	3916.20800	11.0	11.0	3920.20800	11.0	11.4	3925.20800	11.0	11.3	3932.20800	11.0	11.4
9.000	–	3916.20900	3.0	11.0	3920.20900	11.0	12.4	3925.20900	11.0	12.4	3932.20900	11.0	12.4
9.525	3/8	3916.30953	3.0	11.0	3920.30953	11.0	14.0	3925.30953	11.0	12.9	3932.30953	11.0	12.9
10.000	–	3916.21000	3.0	11.0	3920.21000	11.0	14.0	3925.21000	11.0	13.4	3932.21000	11.0	13.4
11.113	7/16	–	–	–	3920.31111	11.0	14.0	3925.31111	11.0	14.5	3932.31111	11.0	14.5
12.000	–	–	–	–	3920.21200	3.0	14.0	3925.21200	11.0	15.4	3932.21200	11.0	15.4
12.700	1/2	–	–	–	3920.31270	3.0	14.0	3925.31270	11.0	16.1	3932.31270	11.0	16.1
14.000	–	–	–	–	–	–	–	3925.21400	11.0	17.4	3932.21400	11.0	17.4
14.288	9/16	–	–	–	–	–	–	3925.31429	11.0	17.7	3932.31429	11.0	17.7
15.875	5/8	–	–	–	–	–	–	3925.31588	11.0	19.0	3932.31588	11.0	19.3
16.000	–	–	–	–	–	–	–	3925.21600	11.0	19.0	3932.21600	11.0	19.4
18.000	–	–	–	–	–	–	–	–	–	–	3932.21800	11.0	19.4
19.050	3/4	–	–	–	–	–	–	–	–	–	3932.31905	11.0	24.0
20.000	–	–	–	–	–	–	–	–	–	–	3932.22000	11.0	24.0

Coolant Flush Disk Blanks

Coolant Flush Disk Blanks without bore for making special diameters

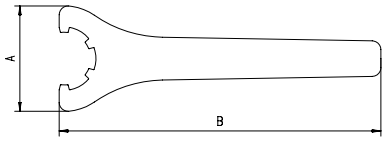
Blanks	3916.29999	11.0	11.0	3920.29999	11.0	14.0	3925.29999	11.0	19.0	3932.29999	11.0	24.0

Wrenches

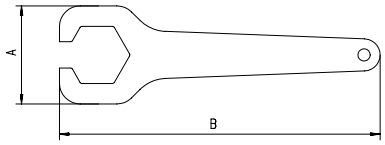


Types: Spanner | Hex | Mini-Nut | MX | MS | AX

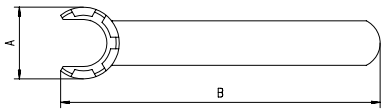
Type	Part No.	Size	A [mm]	B [mm]
Spanner Style Wrenches				
E 16	7111.16000	ER 16	50.0	160
E 20	7111.20000	ER 20	55.0	180
E 25	7111.25000	ER 25	65.0	210
E 32	7111.32000	ER 32	75.0	250
E 40	7111.40000	ER 40	90.0	290
E 50	7111.50000	ER 50	110.0	350
Hex Style Wrenches				
E 11 P	7112.11010	ER 11	32.0	95
E 16 P	7112.16010	ER 16	44.0	145
E 20 P	7112.20010	ER 20	52.0	170
Mini-Nut Style Wrenches				
E 8 M	7113.08000	ER 8	12.4	74
E 11 M	7113.11000	ER 11	16.8	95
E 16 M	7113.16000	ER 16	22.5	117
E 20 M	7113.20000	ER 20	29.0	129
E 25 M	7113.25000	ER 25	36.0	141
Mini-Nut MX Locking Wrenches (Profiled)				
E 11 MX	7118.11000	ER 11	17.0	96.5
E 16 MX	7118.16000	ER 16	22.5	117.5
E 20 MX	7118.20000	ER 20	29.0	129.5
MS Nut Wrenches (Slotted)				
E 8 MS	7114.08000	ER 8	19.2	76
E 11 MS	7114.11000	ER 11	22.0	100
E 16 MS	7114.16000	ER 16	33.0	130
E 20 MS	7114.20000	ER 20	42.0	140
AX Nut Wrenches (Dovetail)				
E 11 AX	7117.11000	ER 11	16.5	108
E 16 AX	7117.16000	ER 16	22.5	131
E 20 AX	7117.20000	ER 20	26.0	148
E 25 AX	7117.25000	ER 25	29.5	162
E 32 AX	7117.32000	ER 32	37.5	196
E 40 AX	7117.40000	ER 40	47.5	220



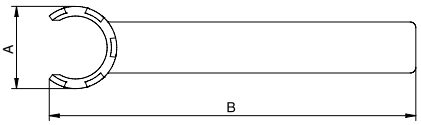
Spanner Nut Type



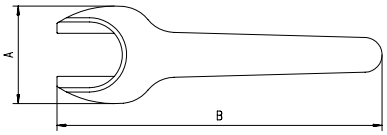
Hex Nut Type



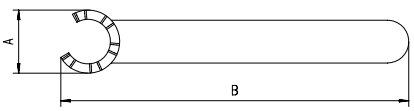
Mini-Nut Type



Mini-Nut MX Type (Profiled)

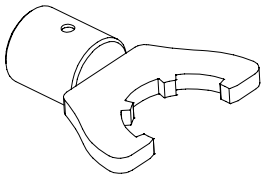


MS Nut Wrench (Slotted)



AX Nut Wrench (Dovetail)

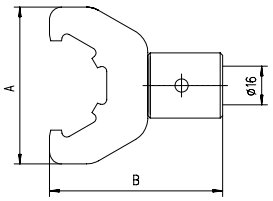
More Technical Information available at WWW.REGO-FIX.COM



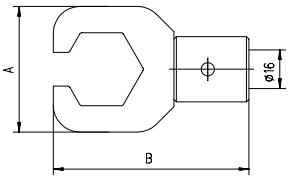
Torque Wrench Heads

Torque Wrench Heads: Spanner | Hex | Mini | AX

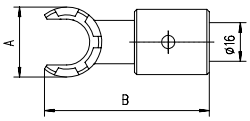
Type	Part No.	Size	A [mm]	B [mm]
Spanner Nut Style				
A-E 16	7151.16000	ER 16	50.0	62.0
A-E 20	7151.20000	ER 20	55.0	62.0
A-E 25	7151.25000	ER 25	65.0	72.0
A-E 32	7151.32000	ER 32	75.0	72.0
A-E 40	7151.40000	ER 40	90.0	82.0
A-E 50	7151.50000	ER 50	110.0	94.0
Hex Nut Style				
A-E 11 P	7152.11010	ER 11	32.0	61.0
A-E 16 P	7152.16010	ER 16	44.0	71.0
A-E 20 P	7152.20010	ER 20	52.0	81.0
Mini-Nut Style				
A-E 8 M	7153.08000	ER 8	12.4	53.0
A-E 11 M	7153.11000	ER 11	16.8	54.0
A-E 16 M	7153.16000	ER 16	22.5	56.0
A-E 20 M	7153.20000	ER 20	29.0	68.0
A-E 25 M	7153.25000	ER 25	36.0	70.0
Mini-Nut MX Locking Wrenches (Profiled)				
A-E 11 MX	7158.11000	ER 11	17.0	55.5
A-E 16 MX	7158.16000	ER 16	22.5	56.5
A-E 20 MX	7158.20000	ER 20	29.0	68.5
Mini-High Speed Nut Style				
A-E 8 MS	7154.08000	ER 8	19.2	51.0
A-E 11 MS	7154.11000	ER 11	22.0	57.0
A-E 16 MS	7154.16000	ER 16	33.0	60.0
A-E 20 MS	7154.20000	ER 20	42.0	73.0
AX Nut Style (dovetail)				
A-E 11 AX	7157.11000	ER 11	16.5	62.1
A-E 16 AX	7157.16000	ER 16	22.5	63.5
A-E 20 AX	7157.20000	ER 20	26.0	64.8
A-E 25 AX	7157.25000	ER 25	29.5	93.0
A-E 32 AX	7157.32000	ER 32	37.5	95.8
A-E 40 AX	7157.40000	ER 40	47.5	99.4



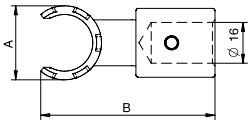
Spanner Nut Type



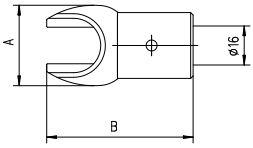
Hex Nut Type



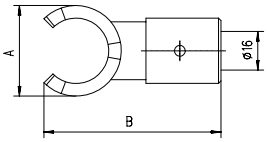
Mini-Nut Type



Mini-Nut MX Type (Profiled)

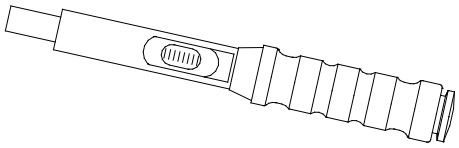


Mini-High Speed Nut Type



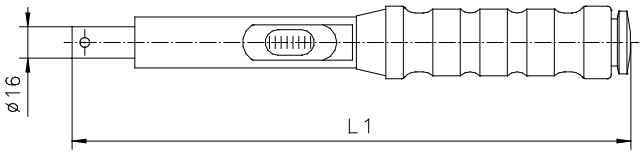
AX Nut Type (Dovetail)

Wrenches



Torque Wrench

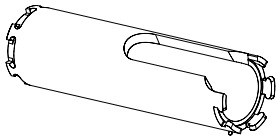
Type	Part No.	Range [Nm]	Range [ft-lbs]	L1 [mm]
Micro	7150.05050	5 – 50	3.7 – 37	335
Small	8020.08060	5 – 50	5.9 – 44	300
Medium	8020.20100	20 – 100	14.8 – 73.8	340
Large	8020.60300	60 – 300	44.3 – 221	545



ER/MX Wrench Extension

Type	Part No.	D [mm]	L [mm]	Square
Wrench Extension for ER 11 MX nuts	7159.11000	17.0	60	1/4"
Wrench Extension for ER 16 MX nuts	7159.16000	22.5	80	1/4"
Wrench Extension for ER 20 MX nuts	7159.20000	29.0	95	1/4"

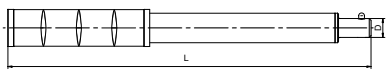
ER/MX wrench extensions have a built-in square drive for use with a standard socket wrench



Clamping Nut Wrench Handle

Type	Part No.
Wrench handle 230mm long	7655.99900

Not a torque wrench. All torque wrench heads can be used.



ER Steep Taper Toolholders

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

Marking
Type and part number (reduces selection errors).

Traceability
Lot numbers are marked on all products for traceability throughout the entire manufacturing process.

Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality symbol △ guarantees the best quality.

T.I.R. < 0.0001" (3 µm)
Inner Diameter to Outer Diameter

Taper Accuracy AT3
Better spindle-to-holder fit and accuracy.

Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

Q+® Balancing
100% balanced with 40T and 50T holders to G 2.5 @ 22,000 rpm. 30T holders balanced to 30,000 rpm.

Hi-Q® Balancing System
Ready to accept Hi-Q® balancing rings which will allow for the offset of the imbalance introduced by the cutting tool up to 80,000 rpm.

Hi-Q® Clamping Nut Included
Guarantees highest clamping force and best balancing by design.

Vibration Dampening
For best machining results.

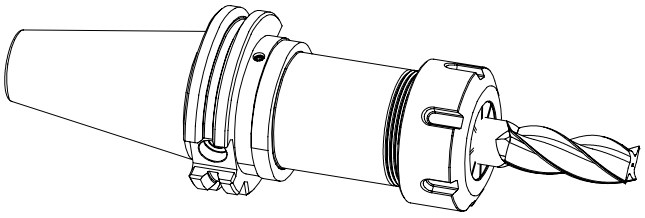
ER Toolholder

Applications
These toolholders are designed for use on CNC machining centers with an automatic tool changer. They are universally suitable for drilling, machining, reaming, tapping and grinding. The vibration dampening of these systems reduce spindle wear and extends tool life.

Balancing
REGO-FIX® Q+® System ER toolholders are balanced by design to G 2.5 @ 22,000 rpm. Type H toolholders are ready to accept Hi-Q® balancing rings which allow precision balancing of the system up to 80,000 rpm depending on the balancing rings used.

Special Applications
When additional clamping force is needed, e.g. when tapping with ER-GB or milling we recommend the use our friction bearing clamping nuts, Hi-Q®/ERB and Hi-Q®/ERBC.

Matched Tooling System for Best Fit
For highest precision and best results the whole system counts. For that reason REGO-FIX® components are carefully matched for optimum fit and accuracy. This guarantees the best run-out and balance.



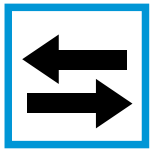
! We recommend tightening the clamping nuts with a torque wrench. The maximum torque should not be more than 25% above the recommended tightening torque.

REGO+PLUS
dual contact toolholders

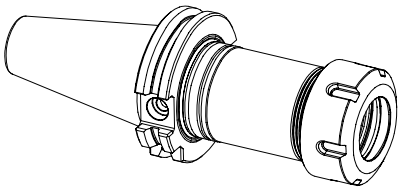
Applications
These toolholders are manufactured under licensing from BIG Daishowa and are completely interchangeable with all BIG-PLUS tapers. They are universally suitable for drilling, machining, reaming, tapping and grinding. The vibration dampening of these systems reduce spindle wear and extends tool life.

Higher toolholder stiffness due to taper (AT1) and face contact

Form AD+B coolant supplied as standard

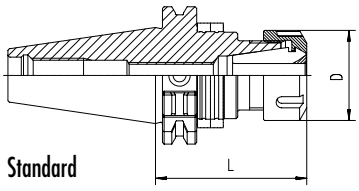


Compatible with BIG-PLUS spindles and standard spindles

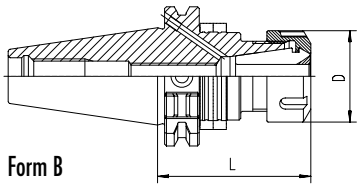


CAT 30 & 40 ER Toolholders

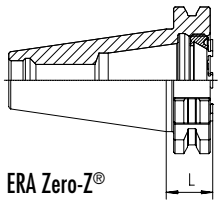
Type	Standard Part No.	Form B Part No.	REGO-PLUS Part No.	D [mm]	L [inch]	Balancing Rings	Wrench
CAT 30 / ER 16 x 4"*	2330.11651	–	–	28	4	–	7112.16010
CAT 30 / ER 25 x 060 mm*	2330.12520	–	–	42	60mm	–	7111.25000
CAT 30 / ER 32 x 3"*	2330.13231	–	–	50	3	–	7111.32000
CAT 30 / ER 20 x 3" H	4330.12031	–	–	34	3	FWR 285	7112.20010
CAT 40 / ER 11 x 3" H	4340.11131	4340.11134	4340.11136	19	3	FWR 325	7112.11010
CAT 40 / ER 11 x 6" H	4340.11171	4340.11174	–	19	6	FWR 325	7112.11010
CAT 40 / ER 16 x 3" H	4340.11631	4340.11634	4340.11636	28	3	FWR 325	7112.16010
CAT 40 / ER 16 x 4" H	4340.11651	4340.11654	–	28	4	FWR 285	7112.16010
CAT 40 / ER 16 x 6" H	4340.11671	4340.11674	4340.11676	28	6	FWR 325/225	7112.16010
CAT 40 / ER 20 x 3" H	4340.12031	4340.12034	4340.12036	34	3	FWR 285	7112.20010
CAT 40 / ER 20 x 4" H	4340.12051	4340.12054	–	34	4	FWR 325	7112.20010
CAT 40 / ER 20 x 6" H	4340.12071	4340.12074	4340.12076	34	6	FWR 405/285	7112.20010
CAT 40 / ER 25 x 4" H	4340.12551	4340.12554	4340.12556	42	4	FWR 325	7111.25000
CAT 40 / ER 25 x 6" H	4340.12571	4340.12574	4340.12576	42	6	FWR 405/325	7111.25000
CAT 40 / ER 32 x 019 mm*	2340.13200	–	–	35	19mm	–	7117.32000
CAT 40 / ER 32 x 3" H	4340.13231	4340.13234	4340.13236	50	3	FWR 405	7111.32000
CAT 40 / ER 32 x 4" H	4340.13251	4340.13254	–	50	4	FWR 405	7111.32000
CAT 40 / ER 32 x 5" H	4340.13261	4340.13264	–	50	5	FWR 405	7111.32000
CAT 40 / ER 32 x 6" H	4340.13271	4340.13274	4340.13276	50	6	FWR 405/405	7111.32000
CAT 40 / ER 40 x 3.5" H	4340.14041	4340.14044	–	63	3.5	FWR 505	7111.40000
CAT 40 / ER 40 x 6" H	4340.14071	4340.14074	–	63	6	FWR 505/505	7111.40000



Standard



Form B



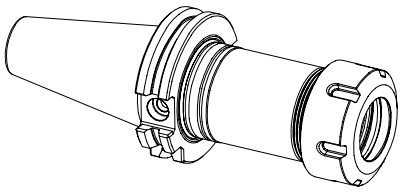
ERA Zero-Z®

Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.

*Not for use with balancing rings.

REGO-PLUS "BIG-PLUS SYSTEM - Licensed by BIG Daishowa"

Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000



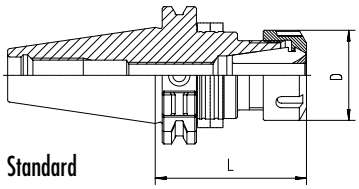
CAT 50 ER Toolholders

Type	Standard Part No.	Form B Part No.	REGO-PLUS Part No.	D [mm]	L [inch]	Balancing Rings	Wrench
CAT 50 / ER 16 x 4" H	4350.11651	4350.11654	4350.11656	28	4	FWR 505	7112.16010
CAT 50 / ER 16 x 6" H	4350.11671	4350.11674	4350.11676	28	6	FWR 505/225	7112.16010
CAT 50 / ER 20 x 4" H	4350.12051	4350.12054	4350.12056	34	4	FWR 505	7112.20010
CAT 50 / ER 20 x 6" H	4350.12071	4350.12074	–	34	6	FWR 505/285	7112.20010
CAT 50 / ER 25 x 4" H	4350.12551	4350.12554	4350.12556	42	4	FWR 505	7111.25000
CAT 50 / ER 25 x 6" H	4350.12571	4350.12574	–	42	6	FWR 505/325	7111.25000
CAT 50 / ER 32 x 4" H	4350.13251	4350.13254	4350.13256	50	4	FWR 505	7111.32000
CAT 50 / ER 32 x 6" H	4350.13271	4350.13274	4350.13276	50	6	FWR 505/405	7111.32000
CAT 50 / ERA 40 x 019mm	2350.14007	–	–	44	19mm	–	7117.40000
CAT 50 / ER 40 x 4" H	4350.14051	4350.14054	4350.14056	63	4	FWR 505	7111.40000
CAT 50 / ER 40 x 6" H	4350.14071	4350.14074	–	63	6	FWR 505/505	7111.40000

Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.

*Not for use with balancing rings.

REGO-PLUS "BIG-PLUS SYSTEM - Licensed by BIG Daishowa"



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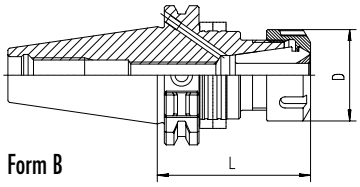
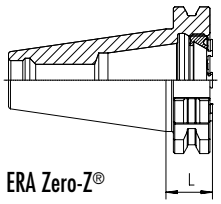
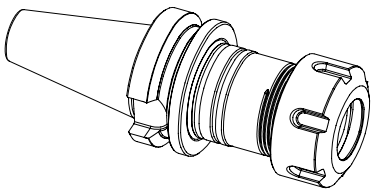


Form B



ERA Zero-Z®

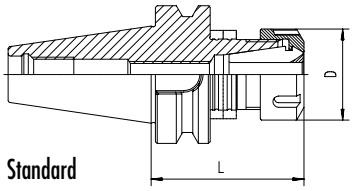
Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000



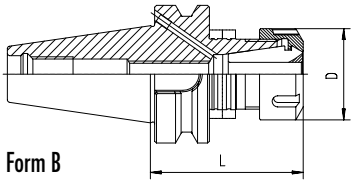
BT 30 & 40 ER Toolholders

Type	Standard Part No.	Form B Part No.	REGO-PLUS Part No.	D [mm]	L [mm]	Balancing Rings
BT 30 / ER 8M x 100*	2130.10855	–	–	12	100	–
BT 30 / ER 11 x 050*	2130.11110	–	–	19	50	–
BT 30 / ER 11 x 100 H	4130.11150	–	4130.11156	19	100	FWR 225
BT 30 / ER 11M x 100	4130.11155	–	–	16	100	FWR 225
BT 30 / ER 16 x 050*	2130.11610	–	2130.11616	28	50	–
BT 30 / ER 16 x 080 H	4130.11640	–	4130.11646	28	80	FWR 285
BT 30 / ER 16 x 100 H	4130.11650	–	–	28	100	FWR 285
BT 30 / ER 16M x 100 H	4130.11655	–	–	22	100	FWR 285
BT 30 / ERA 20 x 022 Zero-Z®*	2130.12007	–	–	–	22	–
BT 30 / ER 20 x 050*	2130.12010	–	2130.12016	34	50	–
BT 30 / ER 20 x 070 H	4130.12030	–	4130.12036	34	70	FWR 325
BT 30 / ER 20 x 100 H	4130.12050	–	–	34	100	FWR 325
BT 30 / ER 25 x 060 H	4130.12520	–	4130.12526	42	60	FWR 325
BT 30 / ER 25 x 100 H	4130.12550	–	–	42	100	FWR 325
BT 30 / ER 32 x 060*	2130.13220	–	2130.13226	50	60	–
BT 30 / ER 32 x 100 H	4130.13250	–	–	50	100	FWR 405
BT 40 / ER 11 x 100 H	4140.11150	–	–	19	100	FWR 285
BT 40 / ER 11 x 160 H	4140.11180	–	–	19	160	FWR 285
BT 40 / ER 16 x 070 H	4140.11630	4140.11633	4140.11636	28	70	FWR 285
BT 40 / ER 16 x 100 H	4140.11650	4140.11653	4140.11656	28	100	FWR 285
BT 40 / ER 16 x 160 H	4140.11680	4140.11683	–	28	160	FWR 285/225
BT 40 / ER 20 x 070 H	4140.12030	4140.12033	4140.12036	34	70	FWR 325
BT 40 / ER 20 x 100 H	4140.12050	4140.12053	–	34	100	FWR 285
BT 40 / ER 20 x 160 H	4140.12080	4140.12083	–	34	160	FWR 405/285
BT 40 / ER 25 x 070 H	4140.12530	4140.12533	4140.12536	42	70	FWR 405
BT 40 / ER 25 x 100 H	4140.12550	4140.12553	–	42	100	FWR 405
BT 40 / ER 25 x 160 H	4140.12580	4140.12583	–	42	160	FWR 405/325
BT 40 / ERA 32 x 027 Zero-Z®*	2140.13207	–	–	–	27	–
BT 40 / ER 32 x 070 H	4140.13230	4140.13233	4140.13236	50	70	FWR 405
BT 40 / ER 32 x 100 H	4140.13250	4140.13253	4140.13256	50	100	FWR 405
BT 40 / ER 32 x 160 H	4140.13280	4140.13283	4140.13286	50	160	FWR 405/325
BT 40 / ER 40 x 080*	2140.14040	2140.14043	–	63	80	–
BT 40 / ER 40 x 100 H	4140.14050	4140.14053	–	63	100	FWR 505
BT 40 / ER 40 x 160 H	4140.14080	4140.14083	–	63	160	FWR 505/505

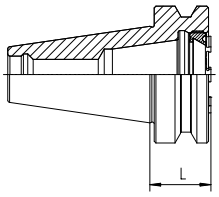
Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.



Standard



Form B



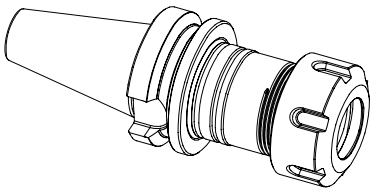
ERA Zero-Z®

Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.

*Not for use with balancing rings.

REGO-PLUS "BIG-PLUS SYSTEM Licensed by BIG Daishowa"

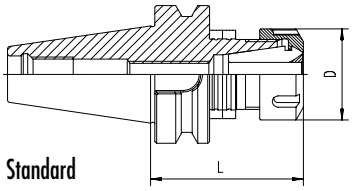


BT | ER
BT + | ER

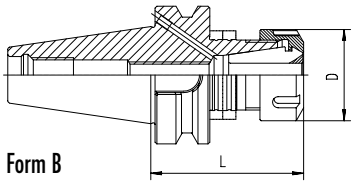
BT 50 ER Toolholders

Type	Standard Part No.	Form B Part No.	REGO-PLUS Part No.	D [mm]	L [mm]	Balancing Rings
BT 50 / ER 16 x 100 H	4150.11650	4150.11653	–	28	100	FWR 505
BT 50 / ER 16 x 160 H	4150.11680	4150.11683	–	28	160	FWR 505/225
BT 50 / ER 20 x 070*	2150.12030	2150.12033	–	34	70	–
BT 50 / ER 20 x 100 H	4150.12050	4150.12053	–	34	100	FWR 325
BT 50 / ER 25 x 070*	2150.12530	2150.12533	–	42	70	–
BT 50 / ER 25 x 100 H	4150.12550	4150.12553	–	42	100	FWR 405
BT 50 / ER 25 x 160 H	4150.12580	4150.12583	–	42	160	FWR 405/325
BT 50 / ER 32 x 100 H	4150.13250	4150.13253	4150.13256	50	100	FWR 505
BT 50 / ER 32 x 160 H	4150.13280	4150.13283	4150.13286	50	160	FWR 505/225
BT 50 / ER 32 x 200 H	4150.13290	–	–	50	200	FWR 505/225
BT 50 / ER 40 x 100 H	4150.14050	4150.14053	–	63	100	FWR 505
BT 50 / ER 40 x 160 H	4150.14080	4150.14083	–	63	160	FWR 505
BT 50 / ER 50 x 100*	2150.15050	–	–	78	100	–

Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.
*Not for use with balancing rings.
REGO-PLUS "BIG-PLUS SYSTEM" Licensed by BIG Daishowa"



Standard



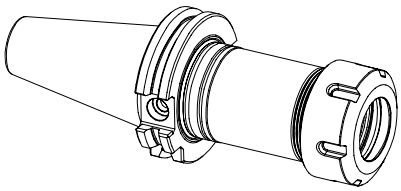
Form B

ER Toolholders Type OM / BT30

Type	Part No.	D [mm]	L [mm]	Balancing Rings
BT-OM 30 / ER 16 x 080 H	4130.11648	28	80	FWR 285
BT-OM 30 / ERA 20 x 022*	2130.12008	34	22	–
BT-OM 30 / ER 25 x 060 H	4130.12528	42	62.5	FWR 325
BT-OM 30 / ER 32 x 060*	2130.13228	50	62.5	–

OM Type holders do not have drive keys
Supplied with Hi-Q® ER clamping nut
*Not for use with balancing rings.

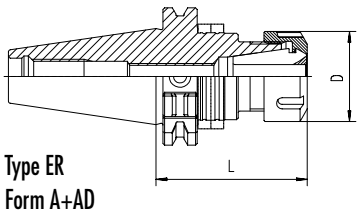
Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000



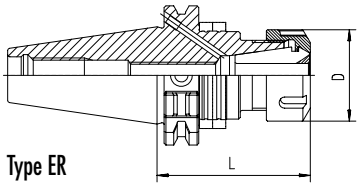
TC 30 & 40 ER Toolholders

Type	Standard Part No.	Form B Part No.	D [mm]	L [mm]	Balancing Rings
TC 30 / ER 16 x 070 H	4230.11630	4230.11633	28	70	FWR 285
TC 30 / ER 16 x 100 H	4230.11650	4230.11653	28	100	FWR 285
TC 30 / ER 25 x 060 H	4230.12520	4230.12523	42	60	FWR 325
TC 30 / ER 32 x 065*	2230.13220	2230.13223	50	65	–
TC 40 / ER 11 x 100 H	4240.11150	4240.11153	19	100	FWR 325
TC 40 / ER 11 x 160 H	4240.11180	4240.11183	19	160	FWR 325
TC 40 / ER 16 x 070 H	4240.11630	4240.11633	28	70	FWR 405
TC 40 / ER 16 x 100 H	4240.11650	4240.11653	28	100	FWR 405
TC 40 / ER 16 x 160 H	4240.11680	4240.11683	28	160	FWR 405/225
TC 40 / ER 16 x 200 H	4240.11690	4240.11693	28	200	FWR 405/225
TC 40 / ER 20 x 070 H	4240.12030	4240.12033	34	70	FWR 325
TC 40 / ER 20 x 100 H	4240.12050	4240.12053	34	100	FWR 325
TC 40 / ER 25 x 070 H	4240.12530	4240.12533	42	70	FWR 405
TC 40 / ER 25 x 100 H	4240.12550	4240.12553	42	100	FWR 405
TC 40 / ER 25 x 160 H	4240.12580	4240.12583	42	160	FWR 405/325
TC 40 / ER 25 x 200 H	4240.12590	4240.12593	42	200	FWR 405/325
TC 40 / ERA 32 x 019 Zero-Z®*	2240.13207	–	–	19	–
TC 40 / ER 32 x 070 H	4240.13230	4240.13233	50	70	FWR 405
TC 40 / ER 32 x 100 H	4240.13250	4240.13253	50	100	FWR 405
TC 40 / ER 32 x 160 H	4240.13280	4240.13283	50	160	FWR 405/405
TC 40 / ER 32 x 200 H	4240.13290	4240.13293	50	200	FWR 405/405
TC 40 / ER 40 x 080*	2240.14040	2240.14043	63	80	–
TC 40 / ER 40 x 100 H	4240.14050	4240.14053	63	100	FWR 505
TC 40 / ER 40 x 160 H	4240.14080	4240.14083	63	160	FWR 505/505

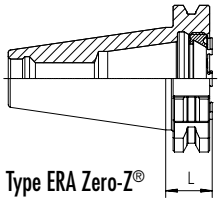
Supplied with Hi-Q® ER clamping nut or ERA Toolholders with Hi-Q® AX clamping nut.
*Not for use with balancing rings.



Type ER
Form A+AD

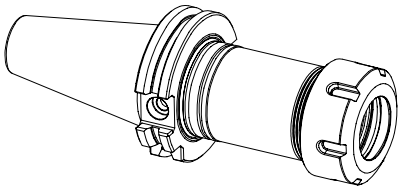


Type ER
Form AD+B



Type ERA Zero-Z®
Form A+AD

Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

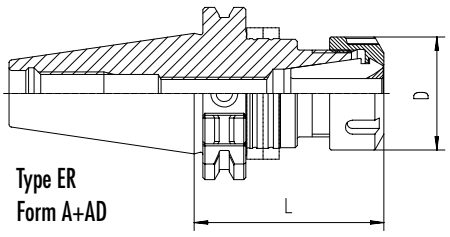


TC | ER
DIN 69871

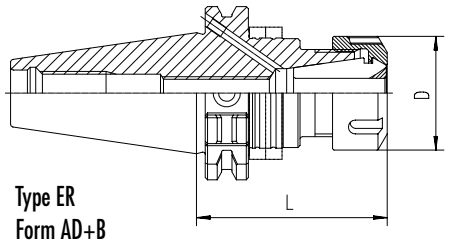
TC 50 ER Toolholders

Type	Standard Part No.	Form B Part No.	D [mm]	L [mm]	Balancing Rings
TC 50 / ER 16 x 100 H	4250.11650	4250.11653	28	100	FWR 505
TC 50 / ER 16 x 160 H	4250.11680	4250.11683	28	160	FWR 505/225
TC 50 / ER 16 x 200 H	4250.11690	4250.11693	28	200	FWR 505/225
TC 50 / ER 20 x 070 H	4250.12030	4250.12033	34	70	FWR 325
TC 50 / ER 20 x 100 H	4250.12050	4250.12053	34	100	FWR 325
TC 50 / ER 25 x 070 H	4250.12530	4250.12533	42	70	FWR 405
TC 50 / ER 25 x 100 H	4250.12550	4250.12553	42	100	FWR 405
TC 50 / ER 25 x 160 H	4250.12580	4250.12583	42	160	FWR 405/325
TC 50 / ER 25 x 200 H	4250.12590	4250.12593	42	200	FWR 405/325
TC 50 / ER 32 x 100 H	4250.13250	4250.13253	50	100	FWR 505
TC 50 / ER 32 x 160 H	4250.13280	4250.13283	50	160	FWR 505/405
TC 50 / ER 32 x 200 H	4250.13290	4250.13293	50	200	FWR 505/405
TC 50 / ER 40 x 100 H	4250.14050	4250.14053	63	100	FWR 505
TC 50 / ER 40 x 160 H	4250.14080	4250.14083	63	160	FWR 505/505
TC 50 / ER 40 x 200 H	4250.14090	4250.14093	63	200	FWR 505/505
TC 50 / ER 50 x 100*	2250.15050	–	78	100	–

Supplied with Hi-Q® ER clamping nut
*Not for use with balancing rings.



Type ER
Form A+AD



Type ER
Form AD+B

Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

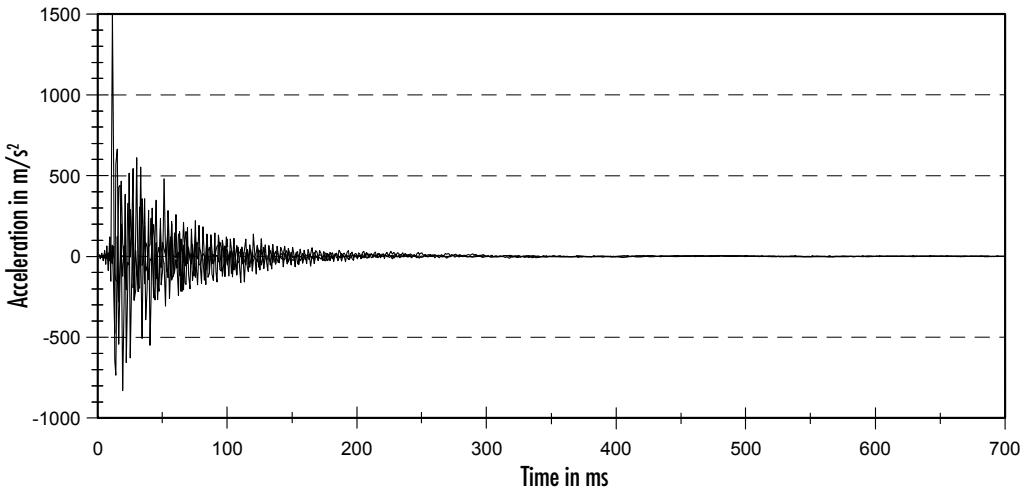
XLtoolholder made by REGO-FIX

REGO-FIX® Xtended Length Toolholder with MFD™ Technology.

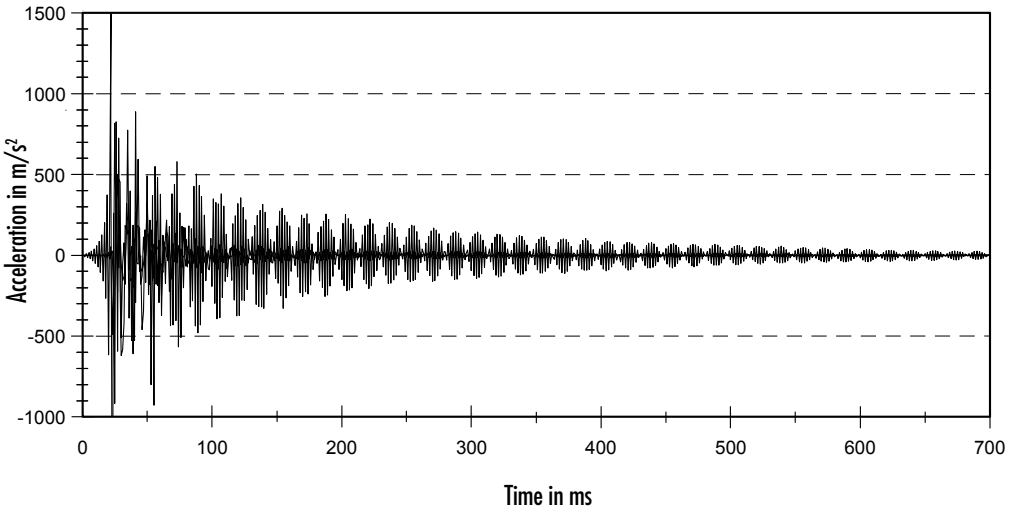
This New **MICRO-FRICTION DAMPENING™ (MFD)** technology (pat. pending) from REGO-FIX® allows the holders to dissipate vibrations faster than standard long reach holders. Dampening the vibrations faster means that your cutting tool, part and spindle will see less vibrations resulting in better surface finishes, longer tool life and less spindle wear.

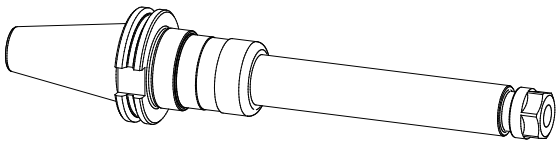
Vibration Decay Chart

REGO-FIX® XL Toolholder



Standard Toolholder

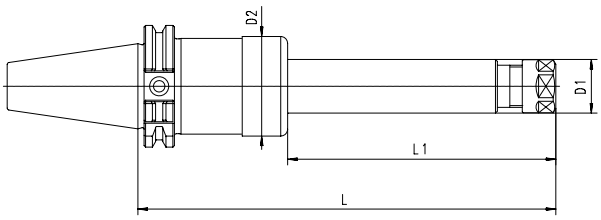


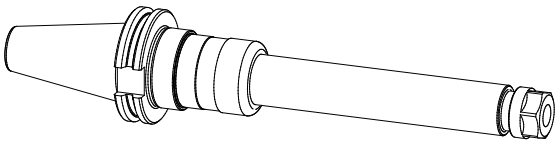


CAT 40 & 50 ER XL Toolholders

Type	Part No.	D1 [mm]	D2 [mm]	L1 [inch]	L [inch]
CAT40 / ER 16 x 8 XL	8843.13031	28	42	4.0	8.00
CAT40 / ER 16 x 10 XL	8843.13101	28	42	4.0	10.00
CAT40 / ER 16 x 12 XL	8843.13131	28	42	8.0	12.00
CAT40 / ER 16 x 14 XL	8843.13181	28	42	8.0	14.00
CAT40 / ER 32 x 10 XL	8843.16081	50	52	4.0	10.00
CAT40 / ER 32 x 14 XL	8843.16141	50	52	8.0	14.00
CAT50 / ER 16 x 8 XL	8853.13031	28	42	4.0	8.00
CAT50 / ER 16 x 10 XL	8853.13081	28	42	4.0	10.00
CAT50 / ER 16 x 12 XL	8853.13131	28	42	8.0	12.00
CAT50 / ER 16 x 14 XL	8853.13181	28	42	8.0	14.00
CAT50 / ER 32 x 10 XL	8853.16081	50	52	4.0	10.00
CAT50 / ER 32 x 14 XL	8853.16181	50	52	8.0	14.00

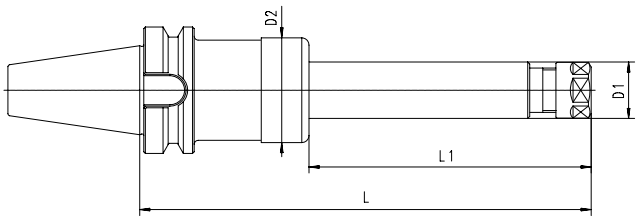
Supplied with Hi-Q® ER clamping nut
Note: Maximum 5,000 rpm



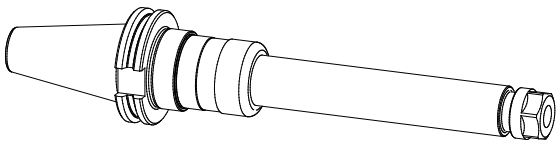


BT 40 & 50 ER XL Toolholders

Type	Part No.	D1 [mm]	D2 [mm]	L1 [mm]	L [mm]
BT40 / ER 16 x 220 XL	8841.13050	28	42	140	220
BT40 / ER 16 x 260 XL	8841.13090	28	42	140	260
BT40 / ER 16 x 300 XL	8841.13130	28	42	140	300
BT40 / ER 16 x 320 XL	8841.13150	28	42	240	320
BT40 / ER 16 x 360 XL	8841.13190	28	42	240	360
BT40 / ER 16 x 400 XL	8841.13230	28	42	240	400
BT40 / ER 32 x 226 XL	8841.16050	50	52	140	226
BT40 / ER 32 x 326 XL	8841.16150	50	52	240	326
BT50 / ER 16 x 240 XL	8851.13070	28	42	140	240
BT50 / ER 16 x 260 XL	8851.13090	28	42	140	260
BT50 / ER 16 x 300 XL	8851.13130	28	42	140	300
BT50 / ER 16 x 340 XL	8851.13170	28	42	240	340
BT50 / ER 16 x 360 XL	8851.13190	28	42	240	360
BT50 / ER 16 x 400 XL	8851.13230	28	42	240	400
BT50 / ER 32 x 240 XL	8851.16070	50	52	140	240
BT50 / ER 32 x 340 XL	8851.16170	50	52	240	340



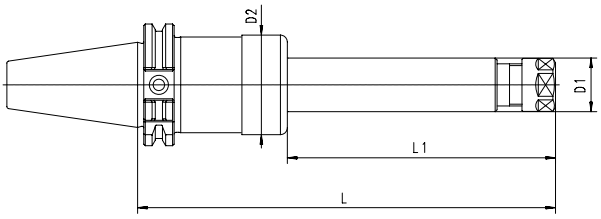
Supplied with Hi-Q® ER clamping nut
Note: Maximum 5,000 rpm



TC 40 & 50 ER XL Toolholders

Type	Part No.	D1 [mm]	D2 [mm]	L1 [mm]	L [mm]
TC40 / ER 16 x 260 XL	8842.13090	42	16	140	260
TC40 / ER 16 x 300 XL	8842.13130	42	16	140	300
TC40 / ER 16 x 320 XL	8842.13150	42	16	240	320
TC40 / ER 16 x 360 XL	8842.13190	42	16	240	360
TC40 / ER 16 x 400 XL	8842.13230	42	16	240	400
TC40 / ER 32 x 320 XL	8842.16150	52	40	240	320
TC50 / ER 16 x 240 XL	8852.13070	42	16	140	240
TC50 / ER 16 x 300 XL	8852.13130	42	16	140	300
TC50 / ER 16 x 340 XL	8852.13170	42	16	240	340
TC50 / ER 16 x 400 XL	8852.13230	42	16	240	400
TC50 / ER 32 x 320 XL	8852.16150	52	40	240	320

Supplied with Hi-Q® ER clamping nut
Note: Maximum 5,000 rpm



HSK Toolholders

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 ### Marking
Type and part number (reduces selection error).

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

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

T.I.R. <0.0001" (3 µm)
Inner diameter to outer diameter.

Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

Q+® Balancing
100% balanced to lowest possible residual imbalance.
- HSK 25 balanced to 90,000 rpm
- HSK 32 balanced to 60,000 rpm
- HSK 40 balanced to 45,000 rpm
- HSK 50 balanced to 36,000 rpm
- HSK 63 G2.5 @ 25,000 rpm
- HSK 80 G2.5 @ 25,000 rpm
- HSK 100 G2.5 @ 25,000 rpm
- HSK 125 G2.5 @ 25,000 rpm

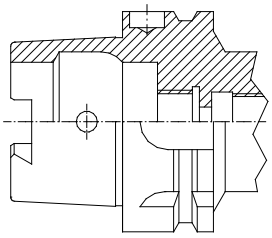
Hi-Q® Balancing System
Ready to accept Hi-Q® balancing rings which allow to offset the imbalance introduced by the cutting tool up to 80,000 rpm.

Hi-Q® Clamping Nut Included
Guarantees highest clamping force and best balancing.

Vibration Dampening
For best machining results.

ID Chip Hole (only HSK Form A+B)
Per DIN 69873 with 10 mm diameter pocket.

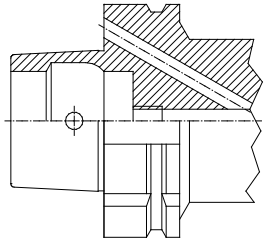
More Technical Information available at WWW.REGO-FIX.COM



FORM A*

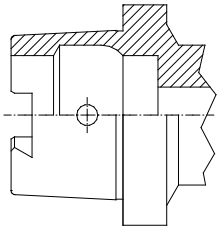
- Standard type for machining centers and milling machines
- For automatic tool change
- Coolant supply through center via coolant tube
- Drive keys at the end of HSK taper
- Hole for data carrier DIN STD 69873 in the flange

*Can also be used in Form C applications, supplied with side hole form manual tool change



FORM B

- For machining centers, milling and turning machines
- With enlarged flange size for higher radial rigidity
- For automatic tool change
- Coolant supply through the flange
- Drive keys at the flange
- Hole for data carrier DIN STD 69873 at the flange



FORM C

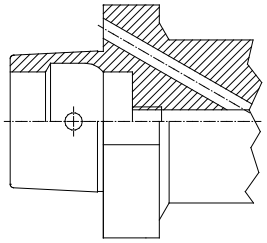
- For transfer lines, special machines and modular tooling systems
- For manual tool change
- Drive keys at the end of HSK taper

HSK

DIN 69893/ISO12164

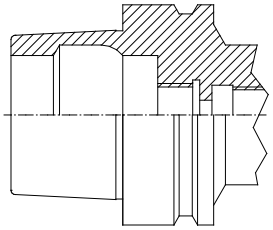
FORM D

- For special machines
- With enlarged flange size for higher radial rigidity
- For manual tool change
- Coolant supply through the flange
- Drive keys at the flange



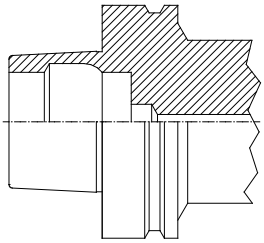
FORM E

- For high-speed applications
- For automatic tool change
- Without any drive keys for absolute symmetry



FORM F

- For high-speed applications
- With enlarged flange size for higher radial rigidity
- For automatic tool change
- Without any drive keys for absolute symmetry



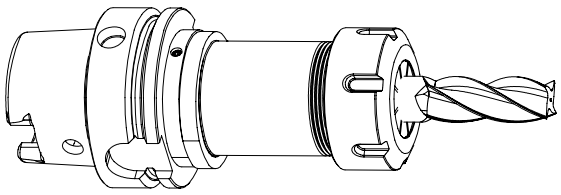
HSK/ER Toolholder

Applications
CNC-milling machines of the latest generation.

Coolant
For coolant through tools these toolholders can be equipped with a coolant tube (KSR) that leads the coolant directly to the cutting tool avoiding coolant entering the HSK taper area.

Special Applications
When extra high clamping force is needed, e.g. when tapping with ER-GB or ET1, we recommend the use of our friction bearing clamping nuts Hi-Q®/ERB and Hi-Q®/ERBC.

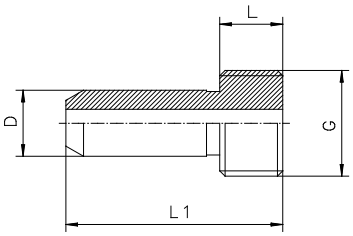
Matched Tooling System for Best Fit
For highest precision and best results the whole system counts. Therefore, REGO-FIX® components are carefully matched for optimum fit and accuracy. This guarantees the best runout and balance.

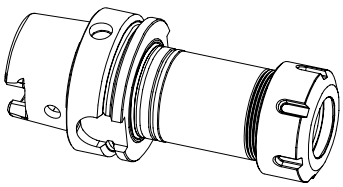


Coolant Tubes | Spanners for Coolant Tubes

Type	Part No.	For HSK-Type	G	D [mm]	L [mm]	L1 [mm]	Spanner	Part No.
KSR 32	7211.32000	HSK 32	M10 x 1.0	6.00	5.5	25.7	SKR 32	7212.32000
KSR 40	7211.40000	HSK 40	M12 x 1.0	8.00	7.5	29.2	SKR 40	7212.40000
KSR 50	7211.50000	HSK 50	M16 x 1.0	10.00	9.5	32.7	SKR 50	7212.50000
KSR 63	7211.63000	HSK 63	M18 x 1.0	12.00	11.5	36.2	SKR 63	7212.63000
KSR 80	7211.80000	HSK 80	M20 x 1.5	14.00	13.5	39.7	SKR 80	7212.80000
KSR 100	7211.00000	HSK 100	M24 x 1.5	16.00	15.5	43.6	SKR 100	7212.00000

Coolant Tube Supplied with O-ring Seal.





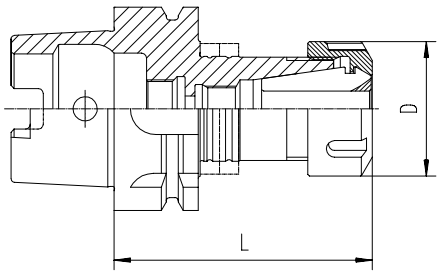
HSK-A | ER

DIN 69893/ISO12164

ER Toolholders

Type	Part No.	D [mm]	L [mm]	Balancing Rings
HSK-A 32 / ER 11 x 050*	2532.11110	19	50	–
HSK-A 32 / ER 16 x 060*	2532.11620	28	60	–
HSK-A 32 / ER 20 x 060*	2532.12020	34	60	–
HSK-A 32 / ER 25 x 065*	2532.12520	42	65	–
HSK-A 40 / ER 16 x 080 H	4540.11640	28	80	FWR 225
HSK-A 40 / ER 25 x 080 H	4540.12540	42	80	FWR 325
HSK-A 50 / ER 16 x 100 H	4550.11650	28	100	FWR 325
HSK-A 50 / ER 25 x 080 H	4550.12540	42	80	FWR 325
HSK-A 50 / ER 25 x 100 H	4550.12550	42	100	FWR 325
HSK-A 50 / ER 32 x 100 H	4550.13250	50	100	FWR 405
HSK-A 63 / ER 11 x 100 H	4563.11150	19	100	FWR 325
HSK-A 63 / ER 16 x 080 H	4563.11640	28	80	FWR 325
HSK-A 63 / ER 16 x 100 H	4563.11650	28	100	FWR 325
HSK-A 63 / ER 16 x 160 H	4563.11680	28	160	FWR 325/225
HSK-A 63 / ER 20 x 075*	2563.12030	34	75	–
HSK-A 63 / ER 25 x 080 H	4563.12540	42	80	FWR 325
HSK-A 63 / ER 25 x 100 H	4563.12550	42	100	FWR 325
HSK-A 63 / ER 25 x 160 H	4563.12580	42	160	FWR 325
HSK-A 63 / ER 25 x 200 H	4563.12590	42	200	FWR 325/325
HSK-A 63 / ER 32 x 080 H	4563.13240	50	80	FWR 405
HSK-A 63 / ER 32 x 100 H	4563.13250	50	100	FWR 405
HSK-A 63 / ER 32 x 160 H	4563.13280	50	160	FWR 405
HSK-A 63 / ER 32 x 200 H	4563.13290	50	200	FWR 405/405
HSK-A 63 / ER 40 x 080*	2563.14040	63	80	–
HSK-A 63 / ER 40 x 120 H	4563.14060	63	120	FWR 405
HSK-A 63 / ER 40 x 160 H	4563.14080	63	160	FWR 505
HSK-A 80 / ER 16 x 100 H	4580.11650	28	100	FWR 325
HSK-A 80 / ER 16 x 160 H	4580.11680	28	160	FWR 325/225
HSK-A 80 / ER 32 x 100 H	4580.13250	50	100	FWR 405
HSK-A 80 / ER 40 x 120 H	4580.14060	63	120	FWR 505
HSK-A 100 / ER 16 x 100 H	4500.11650	28	100	FWR 405
HSK-A 100 / ER 16 x 160 H	4500.11680	28	160	FWR 405/225
HSK-A 100 / ER 16 x 200 H	4500.11690	28	200	FWR 405/225
HSK-A 100 / ER 25 x 100 H	4500.12550	42	100	FWR 405
HSK-A 100 / ER 25 x 160 H	4500.12580	42	160	FWR 405/325
HSK-A 100 / ER 25 x 200 H	4500.12590	42	200	FWR 405/225
HSK-A 100 / ER 32 x 100 H	4500.13250	50	100	FWR 405
HSK-A 100 / ER 32 x 150 H	4500.13280	50	150	FWR 405
HSK-A 100 / ER 40 x 120 H	4500.14060	63	120	FWR 505
HSK-A 100 / ER 40 x 200 H	4500.14090	63	200	FWR 505/505
HSK-A 125	For information: sales@rego-fix.com or 800-999-7346			

Supplied with: Toolholder with Hi-Q® clamping nut and back-up screw.
Matching coolant tubes are available
*Not for use with balancing rings.



Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

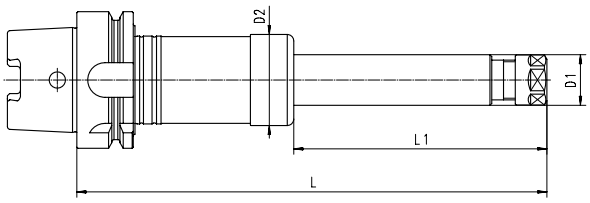
! We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.

Extended Length ER Toolholders

Type	Part No.	D1 [mm]	D2 [mm]	L2 [mm]	L [mm]
HSK-A 63 / ER 16 x 240 XL	8865.13070	28	42	140	240
HSK-A 63 / ER 16 x 260 XL	8865.13090	28	42	140	260
HSK-A 63 / ER 16 x 300 XL	8865.13130	28	42	140	300
HSK-A 63 / ER 16 x 340 XL	8865.13170	28	42	240	340
HSK-A 63 / ER 16 x 360 XL	8865.13190	28	42	240	360
HSK-A 63 / ER 16 x 400 XL	8865.13230	28	42	240	400
HSK-A 63 / ER 32 x 240 XL	8865.16070	50	52	140	240
HSK-A 63 / ER 32 x 260 XL	8865.16090	50	52	140	260
HSK-A 63 / ER 32 x 340 XL	8865.16170	50	52	240	340
HSK-A 63 / ER 32 x 360 XL	8865.16190	50	52	240	360
HSK-A 100 / ER 16 x 240 XL	8885.13070	28	42	140	240
HSK-A 100 / ER 16 x 300 XL	8885.13130	28	42	140	300
HSK-A 100 / ER 16 x 340 XL	8885.13170	28	42	240	340
HSK-A 100 / ER 16 x 400 XL	8885.13230	28	42	240	400
HSK-A 100 / ER 32 x 246 XL	8885.16070	50	52	140	246
HSK-A 100 / ER 32 x 346 XL	8885.16170	50	52	240	346

Supplied with Hi-Q® ER clamping nut
Note: Maximum 5,000 rpm

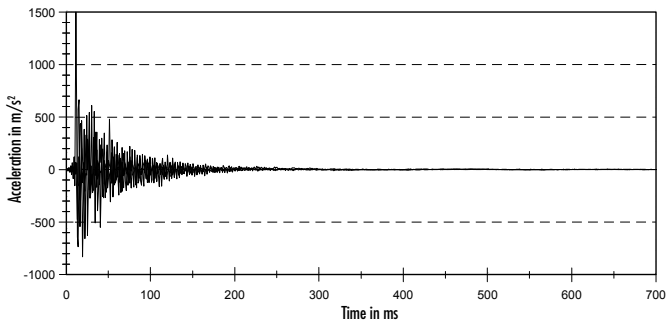
This New *MICRO-FRICTION DAMPENING™ (MFD)* technology (pat. pending) from REGO-FIX® allows the holders to dissipate vibrations faster than standard long reach holders. Dampening the vibrations faster means that your cutting tool, part and spindle will see less vibrations resulting in better surface finishes, longer tool life and less spindle wear.



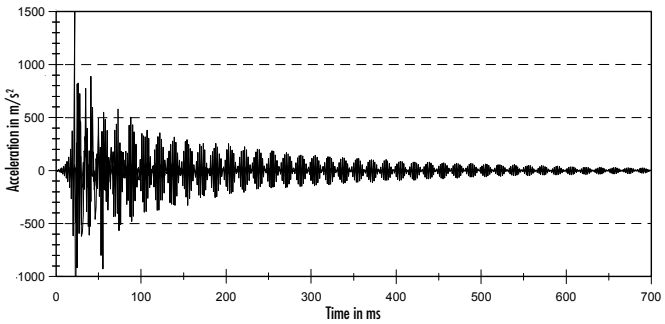
Machining parameters have to be adapted to the gauge length of the Xtended Length Toolholders.

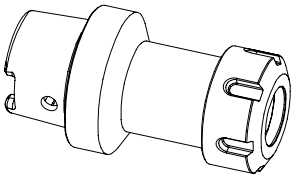
Vibration Decay Chart

REGO-FIX® Xtended Length Toolholder with MFD™ Technology



Standard Toolholder





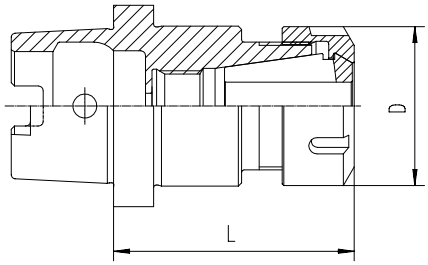
HSK-C | ER

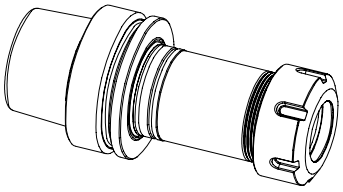
DIN 69893 / ISO 12164

ER Toolholders

Type	Part No.	D [mm]	L [mm]
HSK-C 32 / ER 16 x 060	2532.11622	28	60
HSK-C 32 / ER 20 x 060	2532.12022	34	60
HSK-C 32 / ER 25 x 070	2532.12532	42	70
HSK-C 40 / ER 20 x 060	2540.12022	34	60
HSK-C 40 / ER 25 x 070	2540.12532	42	70
HSK-C 40 / ER 32 x 075	2540.13232	50	75
HSK-C 50 / ER 16 x 060	2550.11622	28	60
HSK-C 50 / ER 25 x 070	2550.12532	42	70
HSK-C 50 / ER 32 x 075	2550.13232	50	75
HSK-C 50 / ER 40 x 080	2550.14042	63	80
HSK-C 63 / ER 32 x 075	2563.13232	50	75
HSK-C 63 / ER 40 x 080	2563.14042	63	80
HSK-C 80	More info: sales@rego-fix.com or Call: 1-800-999-7346		
HSK-C 100			
HSK-C 125			

Supplied with: Toolholder with Hi-Q® clamping nut and back-up screw.





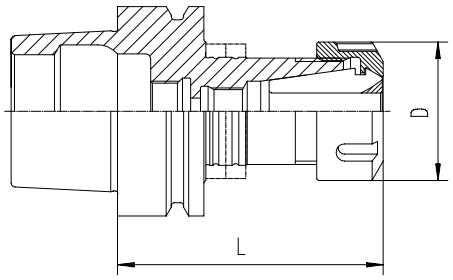
HSK-E | ER
ER HSK-F | ER

DIN 69893 / ISO 12164

ER Toolholders

Type	Part No.	D [mm]	L [mm]	Balancing Rings
HSK-E 25 / ER 16 M x 048*	2525.11618	22	48	–
HSK-E 32 / ER 16 M x 060*	2532.11628	22	60	–
HSK-E 32 / ER 20 M x 060*	2532.12028	28	60	–
HSK-E 40 / ER 11 x 060 H	4540.11124	19	60	FWR 225
HSK-E 40 / ER 16 x 060 H	4540.11624	28	60	FWR 225
HSK-E 40 / ER 16 x 080 H	4540.11644	28	80	FWR 225
HSK-E 40 / ER 20 M x 075 H	4540.12038	28	75	FWR 285
HSK-E 40 / ER 25 M x 080 H	4540.12548	35	80	FWR 325
HSK-E 50 / ER 16 x 060*	2550.11624	28	60	–
HSK-E 50 / ER 16 x 100 H	4550.11654	28	100	FWR 325
HSK-E 50 / ER 16 x 160 H	4550.11684	28	160	FWR 325/225
HSK-E 50 / ER 20 x 070 H	4550.12034	34	70	FWR 325
HSK-E 50 / ER 25 x 080 H	4550.12544	42	80	FWR 325
HSK-E 50 / ER 25 x 100 H	4550.12554	42	100	FWR 325
HSK-E 50 / ER 32 x 100 H	4550.13254	50	100	FWR 405
HSK-E 50 / ER 32 x 160 H	4550.13284	50	160	FWR 405
HSK-E 63 / ER 32 x 090 H	4563.13244	50	90	FWR 405
HSK-E 63 / ER 40 x 080*	2563.14044	63	80	–
HSK-E 63 / ER 40 x 120 H	4563.14064	63	120	FWR 505
HSK-F 63 / ER 16 x 100 H	4563.11655	28	100	FWR 325
HSK-F 63 / ER 32 x 100 H	4563.13255	50	100	FWR 405

Supplied with: Toolholder with Hi-Q® clamping nut and back-up screw.
Matching coolant tubes (KSR) are available
*Not for use with balancing rings.



Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

MS Toolholders

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 ### Marking
Type and part number (reduces selection error).

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

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

T.I.R. <0.0001" (3 µm)
High T.I.R of the whole Microsystem

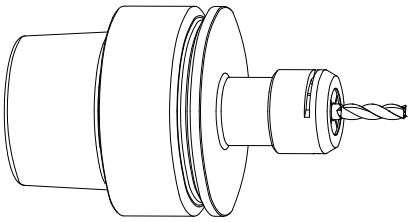
Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

ER MS Clamping Nut Included
Designed especially for highest rpm.

Vibration Dampening
For best machining results.

HSK/ER MS Toolholder for Micromachining

Applications
For micromachining with highest rpm on CNC-milling machines of the latest generation. Max. rpm 80,000.



Coolant
For coolant through tools these toolholders can be equipped with a coolant tube (KSR) that duct the coolant directly to the cutting tool, hereby avoiding coolant to enter and soil the HSK taper area.

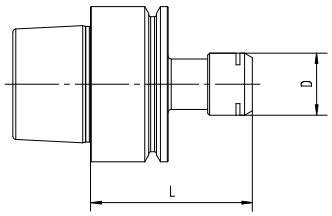
Special Applications
The ER MS clamping nut is especially designed for hightest RPM. It has minimal external diameter and does not have the extractor ring and all the contours are ground.

Matched Tooling System for Best Fit
For highest precision and best results the whole system counts. Therefore REGO-FIX® components are carefully matched for optimum fit and accuracy. This guarantees the best runout and balance.

HSK-E/ER Toolholders for Micromachining

Type	Part No.	D [mm]	L [mm]
HSK-E 25/ER 11 MS x 035	2525.11109	16	35
HSK-E 32/ER 11 MS x 038	2532.11109	16	38
HSK-E 40/ER 11 MS x 040	2540.11119	16	40

Supplied: Toolholder with ER MS clamping nut.
For best results use with ER 11 ND collets



We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.

Softsynchro® Toolholders

Features | Benefits

Quality
Made to ISO 9001/ISO 14001 standards.

1 ### Marking
Type and part number (reduces selection error).

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

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

T.I.R.
Best concentricity values – equal to rigid toolholders.

Absorbing Link
Acts as absorbing link between the synchronous spindle and the tap/cold forming tap and compensates pitch differences between threading tool and synchronous spindle.

Minimal Length Adjustment
In push - and pull direction.

Tool Shanks
All taps/cold forming taps with tool shanks in h9 tolerance can be clamped.

Secure Clamping
Secure clamping of the tap/cold forming tap by ER-GB tapping collets with internal square.

For Coolant Through Tools
Up to 725 psi (50 bar) coolant pressure.

Process Reliability
Increases process reliability of synchronous thread manufacturing.

More Technical Information available at WWW.REGO-FIX.COM

HSK-A SSY/ERC Softsynchro® Tapping Holder

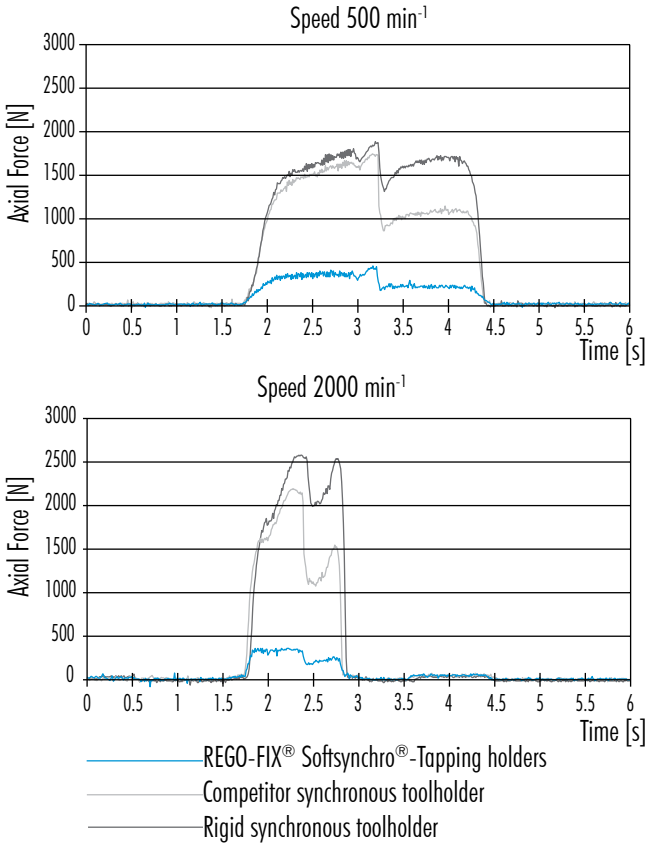
Applications

REGO-FIX® Softsynchro® tapping holders are used on machines that are designed for direct tapping. Many of the newer CNC machines feature synchronization between spindle turning and feed rate. This allows to use rigid tapping holders. However due to the dynamics of spindle and linear motors, synchronization errors occur. To compensate for these synchronization errors Softsynchro® tapping holders with minimal length adjustment are necessary. Depending on the application Softsynchro® tapping holders increase tool life up to 150%.

Comparison Tests

The two diagrams show the axial forces when cold-forming M10 threads in St37 steel.

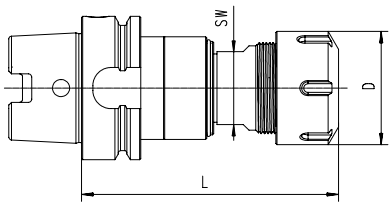
Conclusion: Axial forces increase with increasing rpm. With REGO-FIX® Softsynchro® tapping holders the forces are considerably lower than when using rigid tapping toolholders. Therefore the surface quality and tool life are optimized when using Softsynchro® tapping holders on a synchronized machine spindle.

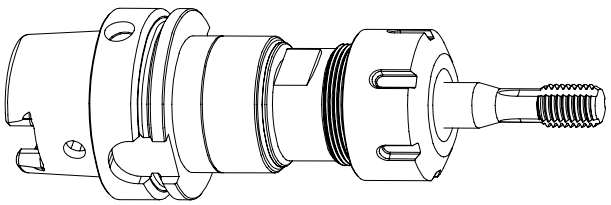


HSK-A SSY/ERC Softsynchro® Tapping Holder

Type	Part No.	D [mm]	L [mm]	Com-pression [mm]	Tension [mm]	SW [mm]
HSK-A 63 SSY / ERC 20	2563.62000	34	95.5	0.5	0.5	19
HSK-A 63 SSY / ERC 32	2563.63200	50	108.8	0.5	0.5	32

Supplied with: Tapping holder with Hi-Q®/ERC clamping nut.





REGO-FIX CAPTO

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and part number (reduces selection error).

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

3 Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

T.I.R. <0.0001" (3 µm)
Inner diameter to outer diameter.

Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

Q+ Balancing
100% balanced to G 2.5 @ 25,000rpm

Hi-Q® Balancing System
Ready to accept Hi-Q® balancing rings which allow to offset the imbalance introduced by the cutting tool up to 80,000 rpm.

Hi-Q® Clamping Nut Included
Guarantees highest clamping force and best balancing.

Vibration Dampening
For best machining results.

ID Chip Hole
Per DIN 69873 with 10 mm diameter pocket.

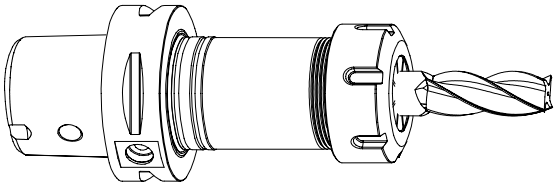
REGO-FIX® CAPTO

Certified by Sandvik

REGO-FIX® CAPTO/ER Toolholder

Applications

These toolholders are designed for use on CNC machining centers with automatic tool changer. Thanks to their precision and positive locking in the machine spindle CAPTO/ER toolholders are suitable for highest requirements.



Balancing

REGO-FIX® Q+® System CAPTO/ER toolholders are balanced by design to G 2.5 @ 25,000 rpm. Type H toolholders are ready to accept Hi-Q® balancing rings which allow precision balancing of the system including cutting tool up to 80,000 rpm depending on the balancing rings used.

Special Applications

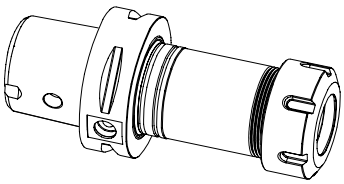
When extra high clamping force is needed, e.g. when tapping with ER-GB or ET1*, we recommend to use our friction bearing clamping nuts Hi-Q®/ERB and Hi-Q®/ERBC.

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

Matched Tooling System for Best Fit

For highest precision and best results the whole system counts. Therefore REGO-FIX® components are carefully matched for optimum fit and accuracy. This guarantees the best runout and balance.

! We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.



REGO-FIX® CAPTO | ER

ISO 26623

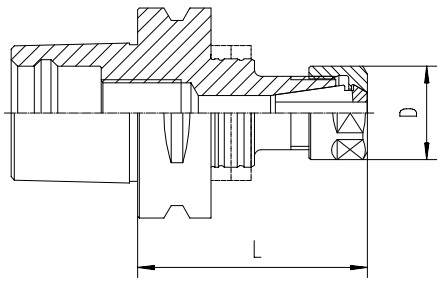
ER Toolholders

Type	Part No.	D [mm]	L [mm]	Balancing Rings
C3 / ER 16 x 045*	2803.11610	28	45	–
C3 / ER 20 x 045*	2803.12010	34	45	–
C4 / ER 16 x 070*	2804.11630	28	70	–
C4 / ER 20 x 052*	2804.12010	34	52	–
C4 / ER 25 x 052*	2804.12510	42	52	–
C4 / ER 32 x 054*	2804.13210	50	54	–
C5 / ER 16 x 070 H	4805.11630	28	70	FWR 285
C5 / ER 16 x 100 H	4805.11650	28	100	FWR 285
C5 / ER 20 x 055*	2805.12010	34	55	–
C5 / ER 20 x 100 H	4805.12050	34	100	FWR 325
C5 / ER 25 x 055*	2805.12510	42	55	–
C5 / ER 25 x 100 H	4805.12550	42	100	FWR 405
C5 / ER 32 x 057*	2805.13210	50	57	–
C5 / ER 32 x 070 H	4805.13230	50	70	FWR 405
C5 / ER 32 x 100 H	4805.13250	50	100	FWR 405
C6 / ER 11 x 150 H	4806.11170	19	150	FWR 325

Supplied: Toolholder with Hi-Q® clamping nut.
*Not for use with balancing rings.

Type	Part No.	D [mm]	L [mm]	Balancing Rings
C6 / ER 16 x 070 H	4806.11630	28	70	FWR 325
C6 / ER 16 x 100 H	4806.11650	28	100	FWR 325
C6 / ER 16 x 150 H	4806.11670	28	150	FWR 325
C6 / ER 20 x 060*	2806.12020	34	60	–
C6 / ER 25 x 060*	2806.12520	42	60	–
C6 / ER 25 x 100 H	4806.12550	42	100	FWR 405
C6 / ER 25 x 130 H	4806.12560	42	130	FWR 405
C6 / ER 32 x 060*	2806.13220	50	60	–
C6 / ER 32 x 070 H	4806.13230	50	70	FWR 405
C6 / ER 32 x 100 H	4806.13250	50	100	FWR 505
C6 / ER 40 x 065*	2806.14020	63	65	–
C8 / ER 25 x 070*	2808.12530	42	70	–
C8 / ER 32 x 070*	2808.13230	50	70	–
C8 / ER 40 x 070*	2808.14030	63	70	–
C8 / ER 50 x 080*	2808.15040	78	80	–

Supplied: Toolholder with Hi-Q® clamping nut.
*Not for use with balancing rings.



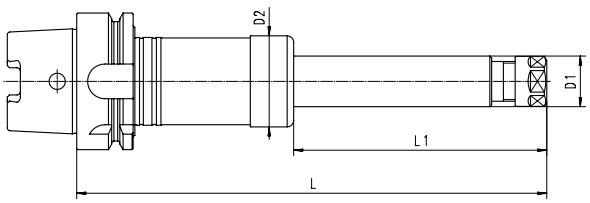
Hi-Q® Balancing Rings	Part No.
Set FWR 225	7490.22500
Set FWR 285	7490.28500
Set FWR 325	7490.32500
Set FWR 405	7490.40500
Set FWR 505	7490.50500
Torque screwdriver (TSD)	7159.09000

Extended Length ER Toolholders

Type	Part No.	D1 [mm]	D2 [mm]	L2 [mm]	L [mm]
C6 / ER16 x 225 XL	8886.13050	28	42	140	225
C6 / ER16 x 240 XL	8886.13070	28	42	140	240
C6 / ER16 x 260 XL	8886.13090	28	42	140	260
C6 / ER16 x 300 XL	8886.13130	28	42	140	300
C6 / ER16 x 325 XL	8886.13150	28	42	240	325
C6 / ER16 x 340 XL	8886.13170	28	42	240	340
C6 / ER16 x 360 XL	8886.13190	28	42	240	360
C6 / ER16 x 400 XL	8886.13230	28	42	240	400
C6 / ER32 x 230 XL	8886.16060	50	52	140	230
C6 / ER32 x 330 XL	8886.16160	50	52	240	330
C8 / ER16 x 232 XL	8888.13060	28	42	140	232
C8 / ER16 x 332 XL	8888.13160	28	42	240	332
C8 / ER32 x 230 XL	8888.16060	50	52	140	230
C8 / ER32 x 330 XL	8888.16160	50	52	240	330

Supplied with Hi-Q® ER clamping nut
Note: Maximum 5,000 rpm

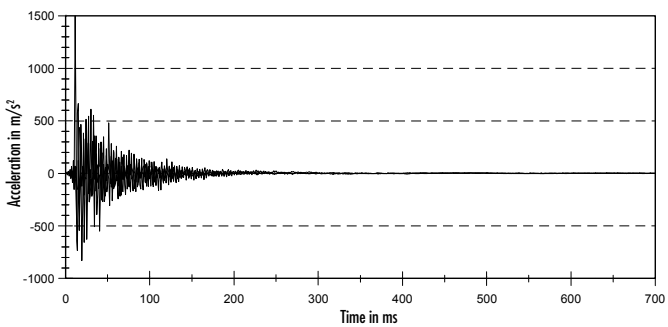
This New ***MICRO-FRICTION DAMPENING™ (MFD)*** technology (pat. pending) from REGO-FIX® allows the holders to dissipate vibrations faster than standard long reach holders. Dampening the vibrations faster means that your cutting tool, part and spindle will see less vibrations resulting in better surface finishes, longer tool life and less spindle wear.



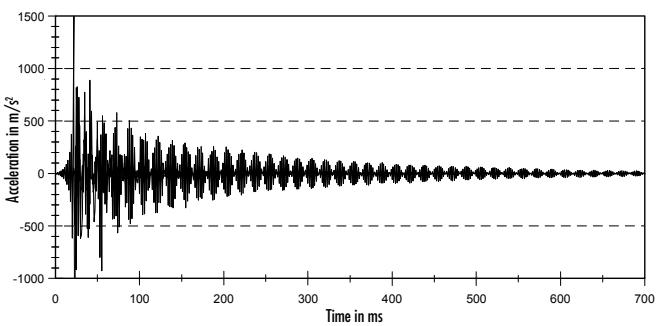
Machining parameters have to be adapted to the gauge length of the Xtended Length Toolholders

Vibration Decay Chart

REGO-FIX® Xtended Length Toolholder with MFD™ Technology



Standard Toolholder



Cylindrical Holders

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 ### Marking
Type and part number.

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

3 ### Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

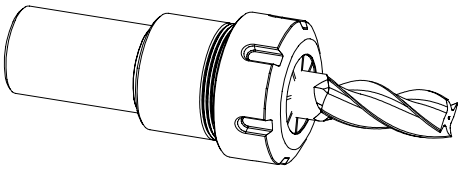
Sizes
ER 8 – ER 40

Types
With flat or double ended colletholders.

T.I.R. < 0.0001" (3 µm)
Inner diameter to outer diameter.

Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

More Technical Information available at WWW.REGO-FIX.COM



CYL/ER Toolholders

Applications

Cylindrical REGO-FIX® colletholders are designed to be used in Swiss Automatic machines, lathes and as extensions. They are available in different types. These holders accept ER, ER-UP, ER-GB and ET1 type collets.

CYL/ER

This type of holder is available with different shanks lengths. The shorter lengths are most commonly used on turret lathes where a short projection is often desired.

CYL/ER M

These holders are well suited for Swiss Automatic machines where a small diameter nut is required. All of these holders feature the Hi-Q® mini-nut for minimal outside diameter and improved clamping forces.

The CYL/ERM holders include a through hole so tools can be accurately preset to the same length.

CYL/ER MF

These collet holders are designed with a clamping flat along the shank to be used in Swiss Automatic machines.

CYD/ER MF

These collets holders are designed with a double ER collet cavity. They are made to work in machines that offer the possibility of utilizing two cutting tool in the same holder.

CYL/ER NC

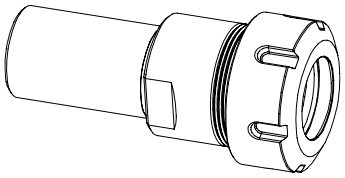
These colletholders are particularly suitable on CNC turning machines, but can be used on conventional turning machines as well.

CYL SSY/ERC

Softsynchro® tapping holders are designed to compensate pitch differences between synchronous spindles and tapping tools.

CYL GSF/ERC

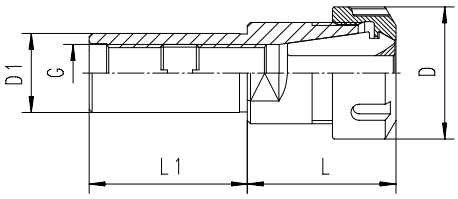
Tapping holders with length compensation in compression and tension directions are used on machines without synchronization of spindle feed and the pitch of the thread.



Toolholders
Straight Shank with Standard Hi-Q® Nut

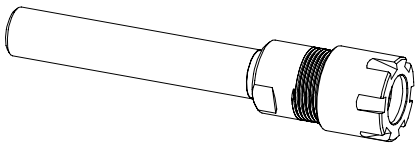
Type	Part No.	D [mm]	D1 h6	L [mm]	L1 [mm]	G [mm]	Wrenches
Inch Diameter							
CYL 1/2" x 070 / ER 11	2613.11141	19	1/2"	28.5	70	M6	7112.11010
CYL 1/2" x 100 / ER 16	2613.11661	28	1/2"	36.0	100	M6	7112.16010
CYL 1/2" x 100 / ER 20	2613.12061	34	1/2"	44.5	100	M6	7112.20010
CYL 5/8" x 060 / ER 16	2616.11631	28	5/8"	36.5	60	M8 x 1	7112.16010
CYL 5/8" x 100 / ER 20	2616.12061	34	5/8"	44.5	100	M8 x 1	7112.20010
CYL 3/4" x 050 / ER 16	2619.11621	28	3/4"	30.5	50	M12 x 1	7112.16010
CYL 3/4" x 100 / ER 16	2619.11661	28	3/4"	30.5	100	M12 x 1	7112.16010
CYL 3/4" x 060 / ER 20	2619.12031	34	3/4"	36.5	60	M12 x 1	7112.20010
CYL 3/4" x 050 / ER 25	2619.12521	42	3/4"	47.0	50	M12 x 1	7111.25000
CYL 1" x 100 / ER 20	2625.12061	34	1"	39.5	100	M18 x 1.5	7112.20010
CYL 1" x 050 / ER 25	2625.12521	42	1"	47.0	50	M18 x 1.5	7111.25000
CYL 1" x 100 / ER 25	2625.12561	42	1"	47.0	100	M18 x 1.5	7111.25000
CYL 1" x 050 / ER 32	2625.13221	50	1"	53.0	50	M18 x 1.5	7111.32000
CYL 1" x 050 / ER 40	2625.14021	63	1"	60.0	50	M18 x 1.5	7111.40000
CYL 1 1/4" x 060 / ER 32	2632.13231	50	1 1/4"	53.0	60	M22 x 1.5	7111.32000
Metric Diameter							
CYL 14 x 060 / ER 16	2614.11630	28	14	36.5	60	M6	7112.16010
CYL 16 x 060 / ER 16	2616.11630	28	16	36.5	60	M8 x 1	7112.16010
CYL 20 x 050 / ER 16	2620.11620	28	20	30.5	50	M12 x 1	7112.16010
CYL 20 x 100 / ER 16	2620.11660	28	20	30.5	100	M12 x 1	7112.16010
CYL 20 x 030 / ER 20	2620.12010	34	20	36.5	30	M12 x 1	7112.20010
CYL 20 x 060 / ER 20	2620.12030	34	20	36.5	60	M12 x 1	7112.20010
CYL 20 x 050 / ER 25	2620.12520	42	20	47.0	50	M12 x 1	7111.25000
CYL 20 x 100 / ER 25	2620.12560	42	20	47.0	100	M12 x 1	7111.25000
CYL 20 x 050 / ER 32	2620.13220	50	20	54.0	50	M12 x 1	7111.32000
CYL 20 x 100 / ER 32	2620.13260	50	20	54.0	100	M12 x 1	7111.32000
CYL 22 x 100 / ER 25	8020.22000	42	22	47.0	100	M12 x 1	7111.25000
CYL 25 x 050 / ER 25	2625.12520	42	25	47.0	50	M18 x 1.5	7111.25000
CYL 25 x 100 / ER 25	2625.12560	42	25	47.0	100	M18 x 1.5	7111.25000
CYL 25 x 050 / ER 32	2625.13220	50	25	54.0	50	M18 x 1.5	7111.32000
CYL 25 x 050 / ER 40	2625.14020	63	25	60.0	50	M18 x 1.5	7111.40000
CYL 30 x 050 / ER 25	2630.12520	42	30	42.0	50	M18 x 1.5	7111.25000
CYL 30 x 050 / ER 32	2630.13220	50	30	53.0	50	M22 x 1.5	7111.32000

Supplied with Hi-Q® clamping nut and back-up screw



Thread	Port	Part No.
M12X1	1/8 NPT	A2600.12000
M14X1	1/4 NPT	A2600.14000
M18X1.5	1/4 NPT	A2600.18000
M22X1.5	1/4 NPT	A2600.22000

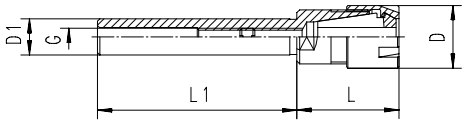
Converts back-up screw threads to coolant port for through coolant applications



Toolholders
Straight Shank with Mini-Style Hi-Q® Nut

Type	Part No.	D [mm]	D1 h6	L [mm]	L1 [mm]	G [mm]	Wrenches
Inch Diameter							
CYL 3/8" x 070 / ER 8 M	2609.20841	12	9.52	23.0	70	M 5	7113.08000
CYL 1/2" x 140 / ER 11 M	2613.21191	16	12.7	29.5	140	M 6	7113.11000
CYL 1/2" x 140 / ER 16 M	2613.21691	22	12.7	37.0	140	M 6	7113.16000
CYL 5/8" x 150 / ER 11 M	2616.21191	16	15.87	22.5	150	M8 x 1	7113.11000
CYL 3/4" x 155 / ER 16 M	2619.21691	22	19.05	26.5	155	M12 x 1	7113.16000
CYL 3/4" x 100 / ER 25 M	2619.22561	35	19.05	47.0	100	M12 x 1	7113.25000
CYL 1" x 155 / ER 20 M	2625.22091	28	25.5	26.5	155	M14 x 1	7113.20000
Metric Diameter							
CYL 06 x 045 / ER 11 M+	2606.21120	16	6	26.5	45	3	7113.11000
CYL 07 x 045 / ER 11 M+	2607.21120	16	7	26.5	45	3	7113.11000
CYL 08 x 080 / ER 8 M+	2608.20850	12	8	26.0	80	3	7113.08000
CYL 08 x 056 / ER 11 M+	2608.21130	16	8	26.5	56	4	7113.11000
CYL 10 x 060 / ER 16 M+	2610.21630	22	10	38.5	60	4	7113.16000
CYL 12 x 080 / ER 8 M+	2612.20850	12	12	17.0	80	4	7113.08000
CYL 12 x 080 / ER 16 M+	2612.21650	22	12	38.5	80	4	7113.16000
CYL 15 x 100 / ER 20 M+	2615.22060	28	15	42.5	100	7	7113.20000
CYL 16 x 150 / ER 11 M	2616.21190	16	16	21.0	150	M8 x 1	7113.11000
CYL 16 x 100 / ER 20 M+	2616.22060	28	16	42.5	100	7	7113.20000
CYL 20 x 155 / ER 16 M	2620.21690	22	20	26.5	155	M12 x 1	7113.16000
CYL 25 x 155 / ER 20 M	2625.22090	28	25	26.5	155	M14 x 1	7113.20000

Supplied with Hi-Q® clamping nut and back-up screw.
+Coolant hole - no back-up screw

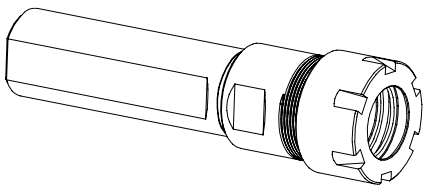


! Suitable for use with Static reCool® page 49.

Coolant Adapters

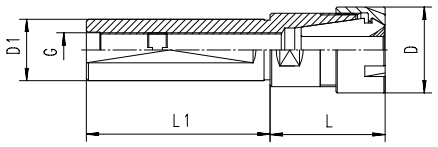
Thread	Port	Part No.
M12X1	1/8 NPT	A2600.12000
M14X1	1/4 NPT	A2600.14000
M18X1.5	1/4 NPT	A2600.18000
M22X1.5	1/4 NPT	A2600.22000

Converts back-up screw threads to coolant port for through coolant applications



Toolholders
Straight Shank with Flat and Mini-Style Hi-Q® Nut

Type	Part No.	D [mm]	D1 h6	L [mm]	L1 [mm]	G [mm]	Wrenches
Inch Diameter							
CYL 5/8" x 043 / ER 8 MF	2616.20811	12	5/8"	15	43	M5	7113.08000
CYL 3/4" x 115 / ER 11 MF	2619.21173	16	3/4"	20	115	M8 x 1	7113.11000
CYL 3/4" x 038 / ER 16 MF	2619.21613	22	3/4"	28	38	M12 x 1	7113.16000
CYL 3/4" x 050 / ER 16 MF	2619.21623	22	3/4"	28	50	M12 x 1	7113.16000
CYL 3/4" x 070 / ER 16 MF	2619.21643	22	3/4"	28	70	M12 x 1	7113.16000
CYL 3/4" x 120 / ER 16 MF	2619.21683	22	3/4"	28	120	M12 x 1	7113.16000
CYL 3/4" x 140 / ER 16 MF	2619.21693	22	3/4"	28	140	M12 x 1	7113.16000
CYL 1" x 033 / ER 16 MF	2625.21613	22	1"	28	33	M12 x 1	7113.16000
CYL 1" x 065 / ER 16 MF	2625.21643	22	1"	28	65	M12 x 1	7113.16000
CYL 1" x 075 / ER 16 MF	2625.21653	22	1"	28	75	M12 x 1	7113.16000
CYL 1" x 100 / ER 16 MF	2625.21663	22	1"	28	100	M12 x 1	7113.16000
CYL 1" x 100 / ER 20 MF	2625.22063	28	1"	28	100	M14 x 1	7113.20000
CYL 1" x 140 / ER 20 MF	2625.22093	28	1"	28	140	M14 x 1	7113.20000
Metric Diameter							
CYL 12 x 043 / ER 8 MF	2612.20822	12	12	17	43	M5	7113.08000
CYL 16 x 038 / ER 11 MF	2616.21112	16	16	20	38	M8 x 1	7113.11000
CYL 16 x 140 / ER 11 MF	2616.21122	16	16	60	140	M8 x 1	7113.11000
CYL 16 x 035 / ER 16 MF	2616.21612	22	16	38	35	M8 x 1	7113.16000
CYL 20 x 050 / ER 16 MF	2620.21622	22	20	28	50	M12 x 1	7113.16000
CYL 20 x 070 / ER 16 MF	2620.21642	22	20	28	70	M12 x 1	7113.16000
CYL 20 x 060 / ER 11 MF	2620.21132	16	20	20	60	M8 x 1	7113.11000
CYL 20 x 120 / ER 16 MF	2620.21682	22	20	28	120	M12 x 1	7113.16000
CYL 20 x 140/ ER 16 MF	2620.21692	22	20	8	140	M12 x 1	7113.16000
CYL 22 x 038 / ER 16 MF	2622.21612	22	22	28	38	M12 x 1	7113.16000
CYL 22 x 070 / ER 16 MF	2622.21642	22	22	28	70	M12 x 1	7113.16000
CYL 22 x 100 / ER 16 MF	2622.21662	22	22	28	100	M12 x 1	7113.16000
CYL 22 x 080 / ER 20 MF	2622.22052	28	22	39	80	M12 x 1	7113.20000
CYL 22 x 070 / ER 25 MF	2622.22542	35	22	47	70	M12 x 1	7113.25000
CYL 25 x 065 / ER 16 MF	2625.21642	22	25	28	65	M12 x 1	7113.16000
CYL 25 x 100 / ER 20 MF	2625.22062	28	25	28	100	M14 x 1	7113.20000
CYL 25 x 154 / ER 20 MF	2625.22002	28	25	28	154	M14 x 1	7113.20000
CYL 25 x 075 / ER 25 MF	2625.22552	35	25	47	75	M14 x 1	7113.25000
CYL 25 x 145 / ER 25 MF	2625.22592	35	25	36	145	M14 x 1	7113.25000
CYL 32 x 070 / ER 25 MF	2632.22542	35	32	30	70	M18 x 1.5	7113.25000



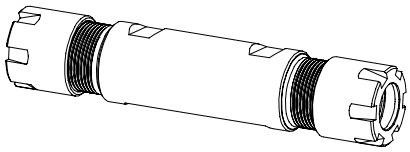
Supplied with Hi-Q® clamping nut and back-up screw

Suitable for use with Static reCool® page 49.

Coolant Adapters

Thread	Port	Part No.
M12X1	1/8 NPT	A2600.12000
M14X1	1/4 NPT	A2600.14000
M18X1.5	1/4 NPT	A2600.18000
M22X1.5	1/4 NPT	A2600.22000

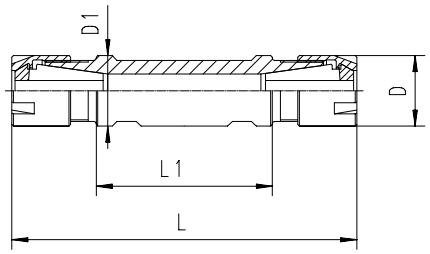
Converts back-up screw threads to coolant port for through coolant applications



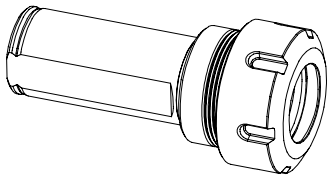
Toolholders
Double Ended Straight Shank with Flat and Mini-Style Hi-Q® Nut

Type	Part No.	D [mm]	D1 h6	L [mm]	L1 [mm]	Wrenches
Inch Diameter						
CYD 5/8" x 015 / ER 8 MF	2616.20805	12	5/8"	45	15	7113.08000
CYD 5/8" x 025 / ER 8 MF	2616.20895	12	5/8"	55	25	7113.08000
CYD 3/4" x 040 / ER 11 MF	2619.21125	16	3/4"	80	40	7113.11000
CYD 3/4" x 070 / ER 11 MF	2619.21145	16	3/4"	110	70	7113.11000
CYD 3/4" x 090 / ER 11 MF	2619.21165	16	3/4"	130	90	7113.11000
CYD 3/4" x 055 / ER 16 MF	2619.21635	22	3/4"	107	55	7113.16000
CYD 1" x 030 / ER 16 MF	2625.21615	22	1"	85	30	7113.16000
CYD 1" x 062 / ER 16 MF	2625.21635	22	1"	118	62	7113.16000
Metric Diameter						
CYD 12 x 015 / ER 8 MF	2612.20804	12	12	46	15	7113.08000
CYD 12 x 025 / ER 8 MF	2612.20814	12	12	56	25	7113.08000
CYD 16 x 040 / ER 11 MF	2616.21114	16	16	79	40	7113.11000
CYD 16 x 050 / ER 11 MF	2616.21124	16	16	90	50	7113.11000
CYD 20 x 030 / ER 11 MF	2620.21114	16	20	70	30	7113.11000
CYD 20 x 050 / ER 11 MF	2620.21124	16	20	90	50	7113.11000
CYD 20 x 055 / ER 16 MF	2620.21634	22	20	107	55	7113.16000
CYD 22 x 055 / ER 16 MF	2622.21634	22	22	111	55	7113.16000
CYD 22 x 075 / ER 16 MF	2622.21654	22	22	131	75	7113.16000
CYD 25 x 062 / ER 16 MF	2625.21634	22	25	117	62	7113.16000
CYD 32 x 055 / ER 20 MF	2632.22034	28	32	111	55	7113.20000
CYD 32 x 075 / ER 20 MF	2632.22054	28	32	131	75	7113.20000

Supplied with Hi-Q® clamping nut and back-up



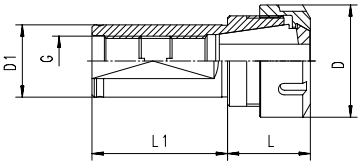
! Suitable for use with Static reCool® page 49.



Toolholders
Straight Shank with Flat and Standard Hi-Q® Nut

Type	Part. No.	D [mm]	D1 h6	L [mm]	L1 [mm]	G [mm]	Wrenches
Inch Diameter							
CYL 1 1/4" x 060 / ER 25 NC	2632.12533	42	1 1/4"	32	60	M18 x 1.5	7111.25000
CYL 1 1/4" x 060 / ER 32 NC	2632.13233	50	1 1/4"	38	60	M22 x 1.5	7111.32000
CYL 1 1/2" X 075 / ER 40 NC	2638.14053	63	1 1/2"	55	75	M22 x 1.5	7111.40000
CYL 1 1/2" x 080 / ER 32 NC	2638.13253	50	1 1/2"	33	80	M22 x 1.5	7111.32000
Metric Diameter							
CYL 32 x 060 / ER 25 NC	2632.12532	42	32	32	60	M18 x 1.5	7111.25000
CYL 32 x 060 / ER 32 NC	2632.13232	50	32	38	60	M22 x 1.5	7111.32000
CYL 40 x 075 / ER 40 NC	2640.14052	63	40	55	75	M22 x 1.5	7111.40000
CYL 40 x 080 / ER 32 NC	2640.13252	50	40	33	80	M22 x 1.5	7111.32000

Supplied with Hi-Q® clamping nut and back-up screw.



Coolant Adapters

Thread	Port	Part No.
M12X1	1/8 NPT	A2600.12000
M14X1	1/4 NPT	A2600.14000
M18X1.5	1/4 NPT	A2600.18000
M22X1.5	1/4 NPT	A2600.22000

Converts back-up screw threads to coolant port for through coolant applications

ERM | ERM
ER | ERM

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

Marking
Type and part number.

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

Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantee for best quality.

Sizes
ER 8 – ER 25

Types
With flat or double ended colletholders.

T.I.R. <0.0001" (3 µm)
Inner diameter to outer diameter.

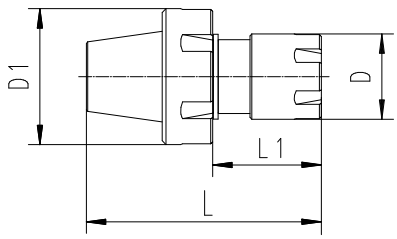
Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

SwissQuick® Collet Reductions

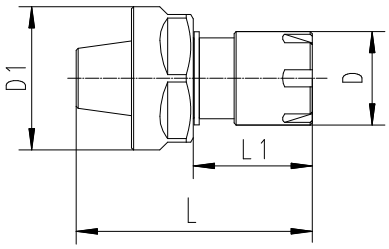
Type	Part No.	L [mm]	L1 [mm]	D [mm]	D1 [mm]	Wrenches
Mini-Nut Reductions						
ER 11 M / ER 8 M	7161.11080	33	16.5	12	16	7113.11000 / 7113.08000
ER 16 M / ER 11 M	7161.16110	42.5	18.5	16	23	7113.16000 / 7113.11000
ER 20 M / ER 16 M	7161.20160	55.5	28	22	28	7113.20000 / 7113.16000
ER 25 M / ER 11 M	7161.25110	54.5	22	16	35	7113.25000 / 7113.11000
ER 25 M / ER 16 M	7161.25160	60.5	28	22	35	7113.25000 / 7113.16000
ER 25 M / ER 20 M	7161.25200	60.5	28	28	35	7113.25000 / 7113.20000
Standard Nut Reductions						
ER 11 / ER 8 M	7162.11080	33	16.5	12	19	7112.11010 / 7113.08000
ER 16 / ER 11 M	7162.16110	42.5	18.5	16	28	7112.16100 / 7113.11000
ER 20 / ER 11M	7162.20110	42	16.5	16	34	7112.20010 / 7113.11000
ER 20 / ER 16 M	7162.20160	55.5	28	22	34	7112.20010 / 7113.16000
ER 25 / ER 11 M	7162.25110	54.5	16.5	16	42	7111.25000 / 7113.11000
ER 25 / ER 16 M	7162.25160	60.5	28	22	42	7111.25000 / 7113.16000
ER 25 / ER 20 M	7162.25200	60.5	28	28	42	7111.25000 / 7113.25000
ER 32 / ER 16	7160.32160	56	29.5	28	50	7111.32000 / 7113.16000
ER 32 / ER 20	7160.32200	69.5	32.5	34	50	7111.32000 / 7113.20000

Available in PG Please Call 800-999-7346 or E-mail sales@rego-fix.com for Availability

Type ERM/ERM
with Mini-Thread



Type ER/ERM
with Standard-Thread



Non-Synchronous Tapping Holder

Features | Benefits

Quality
Made to ISO 9001/ISO 14001 standards.

1 ### Marking
Type and part number.

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

3 ### Quality Seal
The REGO-FIX® seal △ marked on the products guarantees for best quality.

T.I.R.
Best concentricity values – equal to rigid toolholders.

Length Compensation
In compression and tension directions.

Pressure-point Mechanism
Guarantees proper start of thread cutting/forming.

Secure Clamping
Secure clamping of the tap/cold forming tap by ER-GB collets with internal square.

For Coolant Through Tools
Up to 725 psi (50 bar) coolant pressure.

Process Reliability
Increases process reliability of non-synchronous thread manufacturing.

More Technical Information available at WWW.REGO-FIX.COM

CYL GSF/ERC Tapping Holder

with Length Compensation

Applications

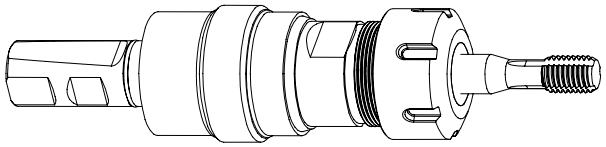
REGO-FIX® tapping holders with length compensation are used on machines without synchronization of spindle feed and the pitch of the thread. These machines require tapping holders with compression and tension compensation to compensate for the difference in spindle feed and thread pitch.

REGO-FIX® tapping holders with length compensation feature a pressure-point mechanism. This guarantees the proper start of the thread cutting or forming and also allows to produce reproducible thread depth.
A special design allows to feed coolant up to 725 psi (50 bar) to the tap without affecting the function of the length compensation. The compact design and the short extension allow a very flexible use of REGO-FIX® tapping holders.

CYL SSY/ERC Softsynchro® Tapping Holder

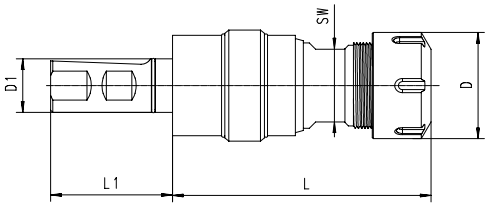
Applications

REGO-FIX® Softsynchro® tapping holders are used on machines that are designed for direct tapping. Many of the newer CNC machines feature synchronization between spindle turning and feed rate. This allows to use rigid tapping holders. However due to the dynamics of spindle and linear motors, synchronization errors occur. To compensate for these synchronization errors Softsynchro® tapping holders with minimal length adjustment are necessary. Depending on the application Softsynchro® tapping holders increase tool life up to 150%.



CYL Tapping Holders

Type	Part No.	D [mm]	D1 [mm]	L [mm]	L1 [mm]	Com-pression [mm]	Tension [mm]	SW [mm]
CYL 25 GSF / ERMC 20	2625.62001	28	25	85	57	5.0	7.5	24
CYL 25 GSF / ERC 32	2625.63201	50	25	115	57	7.0	10.0	34
CYL 25 SSY / ERC 20	2625.62000	34	25	73	57	0.5	0.5	19
CYL 25 SSY / ERC 32	2625.63200	50	25	87.5	57	0.5	0.5	34



Supplied: Tapping holder with Hi-Q®/ERC clamping nut.
For adapting the tapping holders to different steep tapers, please use the appropriate Weldon toolholders.

Floating Chuck

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 Marking
Type and part number.

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

3 Original REGO-FIX®
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantee for best quality.

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.

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
Low load applications:
- Ball bearing for easy floating.
- High load applications:
- Friction bearing to withstand the high pressure.

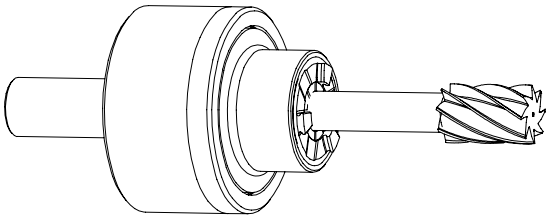
Double Sealing Against Dirt
Prevents coolant and chips from entering the floating chuck.

Excellent Bore Quality
Only parallel floatation of tool possible.

Floating Chuck PH/ER Standard

Applications

REGO-FIX® floating chucks are excellent tools for reaming and tapping. Their design is such that the tool is self-centering in the vertical and horizontal position. The float is always parallel to the rotational axis and the rotation is both clockwise and counter clockwise. 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.REGO-FIX® floating chucks are a very universal and economical solution to your reaming and tapping applications.



Floating Chuck PHC/ER

For Coolant Through Tools

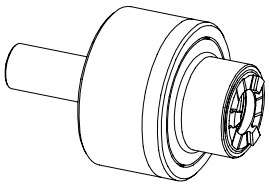
REGO-FIX® Floating Chucks PHC/ER for coolant through tools are especially designed for internal cooling and have the same advantages as the PH/ER Floating Chucks.

Floating Chuck MPH/ER

For Tight Space Applications

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

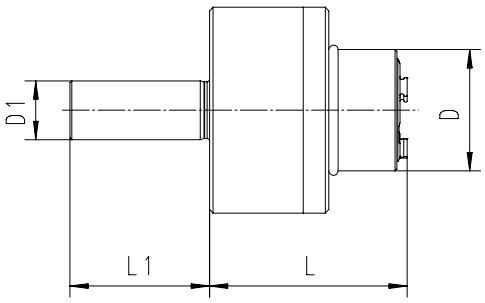
! When using coolant through tools please order AXC clamping nuts and the appropriate sealing disks.

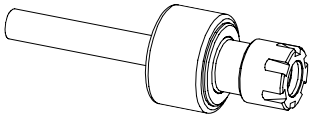


Floating Chucks
For Non Coolant Through Tools

Type	Part No.	D [mm]	D1 h6	D2 [mm]	G float [mm]	L [mm]	L1 [mm]	Wrenches
Inch Diameter								
PH 5/8" / ER 11	2616.91102	22	5/8"	38	0.8	36	34	7117.11000
PH 3/4" / ER 11	2619.91102	22	3/4"	38	0.8	36	34	7117.11000
Metric Diameter								
PH 16 / ER 11	2616.91100	22	16	38	0.8	36	34	7117.11000
PH 20 / ER 11	2620.91100	22	20	38	0.8	36	34	7117.11000
PH 22 / ER 11	2622.91100	22	22	38	0.8	36	34	7117.11000

Supplied with: Floating holder, clamping nut and spanner.

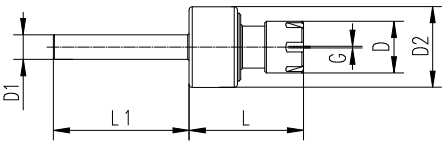


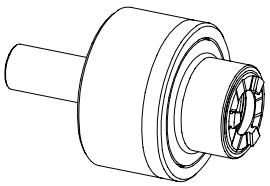


Mini-Floating Chucks
For Non Coolant Through Tools

Type	Part No.	D [mm]	D1 h6	D2 [mm]	G float [mm]	L [mm]	L1 [mm]	Wrenches
Inch Diameter								
MPH 3/4" / ER 11 M	2619.91108	16	3/4"	25	0.5	35	70	7113.11000
MPH 1" / ER 11 M	2625.91108	16	1"	25	0.5	35	40	7113.11000
Metric Diameter								
MPH 8 / ER 11 M	2608.91107	16	8	25	0.5	35	42	7113.11000
MPH 10 / ER 11 M	2610.91107	16	10	25	0.5	35	42	7113.11000
MPH 16 / ER 11 M	2616.91107	16	16	25	0.5	35	42	7113.11000
MPH 20 / ER 11 M	2620.91107	16	20	25	0.5	35	42	7113.11000
MPH 22 / ER 11 M	2622.91107	16	22	25	0.5	35	42	7113.11000
MPH 25 / ER 11 M	2625.91107	16	25	25	0.5	35	40	7113.11000

Supplied with: Floating holder, clamping nut and spanner



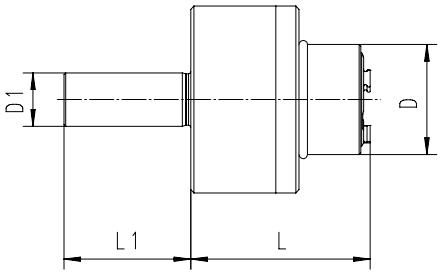


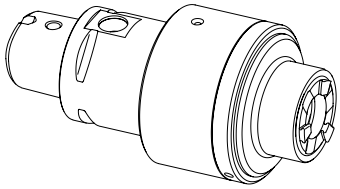
PHC | ER
REGO-FIX® CAPTO | ER

Floating Chucks For Coolant Through Tools

Type	Part No.	D [mm]	D1 h6	D2 [mm]	G float [mm]	L [mm]	L1 [mm]	Wrenches
Inch Diameter								
PHC 5/8" / ER 20	2616.92004	33	5/8"	56	1.0	53.5	38	7117.20000
PHC 3/4" / ER 20	2619.92004	33	3/4"	56	1.0	53.5	38	7117.20000
PHC 1" / ER 20	2625.92004	33	1"	56	1.5	53.5	38	7117.20000
PHC 3/4" / ER 32	2619.93204	46	3/4"	70	1.5	64.5	46	7117.32000
PHC 1" / ER 32	2625.93204	46	1"	70	1.5	64.5	46	7117.32000
PHC 1 1/4" / ER 32	2632.93204	46	1 1/4"	70	1.5	64.5	46	7117.32000
PHC 1 3/4" / ER 32	2644.93204	46	1 3/4"	70	1.5	64.5	46	7117.32000
Metric Diameter								
PHC 16 / ER 20	2616.92003	33	16.00	56	1.0	53.5	38	7117.20000
PHC 20 / ER 20	2620.92003	33	20.00	56	1.0	53.5	38	7117.20000
PHC 22 / ER 20	2622.92003	33	22.00	56	1.0	53.5	38	7117.20000
PHC 25 / ER 20	2625.92003	33	25.00	56	1.0	53.5	38	7117.20000
PHC 20 / ER 32	2620.93203	46	20.00	70	1.5	64.5	46	7117.32000
PHC 22 / ER 32	2622.93203	46	22.00	70	1.5	64.5	46	7117.32000
PHC 25 / ER 32	2625.93203	46	25.00	70	1.5	64.5	46	7117.32000
PHC 32 / ER 32	2632.93203	46	32.00	70	1.5	64.5	46	7117.32000

Supplied with: Floating holder, clamping nut, spanner and adjusting key



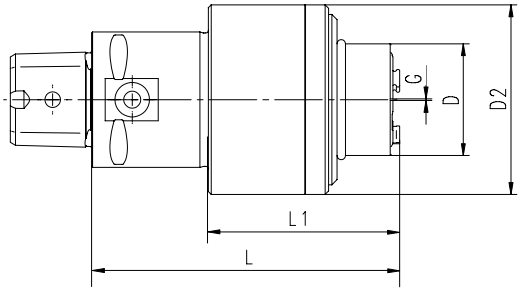


! When using coolant through tools please specify an AXC clamping nut, one will be substituted free of charge with your order

Floating Chucks For Coolant Through Tools and with REGO-FIX® CAPTO Interface

Type	Part No.	D [mm]	D2 [mm]	G float [mm]	L [mm]	L1 [mm]	Wrench
PHC-C3 / ER 20	2803.92003	33	56	0.8	91	53.5	7117.20000
PHC-C4 / ER 20	2804.92003	33	56	0.8	91	56.5	7117.20000
PHC-C4 / ER 32	2804.93203	46	70	0.8	100	64.0	7117.32000

Supplied with: Floating holder, clamping nut and spanner.



Other Toolholders

Features | Benefits

Swiss Quality
Made in Switzerland to ISO 9001/ISO 14001.

1 **Marking**
Type and part number (reduces selection error).

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

3 **Original REGO-FIX®**
Our extensive experience results in a well-engineered system. Original only with the REGO-FIX® quality seal △. Guarantees the best quality.

T.I.R. <0.0001" (3 µm)
Inner diameter to outer diameter.

Surface Finish max. Ra 0.25
Higher clamping force and higher transferable torque.

Q+® Balancing
100% balanced to G 2.5 @ 22,000 rpm.

Hi-Q® Balancing System
Ready to accept Hi-Q® balancing rings which allow to offset the imbalance introduced by the cutting tool up wto 80,000 rpm.

Hi-Q® Clamping Nut Included
Guarantees highest clamping force and best balancing.

Vibration Dampening
For best machining results.

MK/ER Toolholder

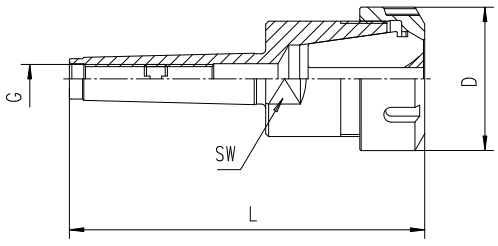
Applications

Morse taper colletholders are designed for drawbar thread application. They can be used on milling or combined drilling-milling machines as well as on boring machines. For drilling machines we supply the corresponding tangs (ATL) on request.

Morse Taper Colletholders

Type	Part No.	D [mm]	L [mm]	G	SW [mm]
MK 1 / ER 16 x 041	2701.11600	28	93.5	M6	17
MK 2 / ER 20 x 049	2702.12000	34	111.5	M10	22
MK 2 / ER 25 x 052	2702.12500	42	115	M10	24
MK 2 / ER 32 x 060	2702.13200	50	123	M10	36
MK 3 / ER 25 x 052	2703.12500	42	132	M12	24
MK 3 / ER 32 x 070	2703.13200	50	150	M12	24
MK 4 / ER 32 x 060	2704.13200	50	163	M16	32
MK 4 / ER 40 x 082	2704.14000	63	183	M16	32
MK 5 / ER 40 x 064	2705.14000	63	192	M20	45
MK 5 / ER 50 x 086	2705.15900	78	214	M20	45

Supplied with: Colletholder, clamping nut and back-up screw.



! We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.

ISO 20/ERM Toolholder

Q+® Balancing

100% balanced to G 2.5 @ 40,000 rpm.

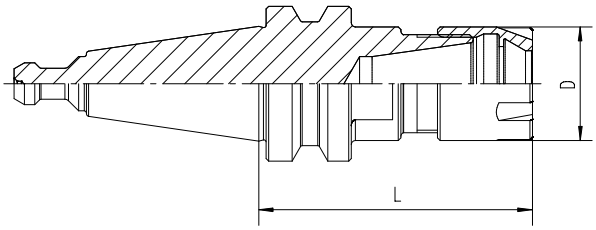
Applications

The REGO-FIX® ISO 20 toolholders are designed to work with the Haas Office Mill. To utilize your machine to it‘s full potential, use the REGO-FIX® brand of holders and collets to see the difference quality can make in your machining operations.

ISO Colletholder

Type	Standard Part No.	D [mm]	L [mm]
ISO 20 / ERM 11 x 048 HAAS	2420.11116	16	46
ISO 20 / ERM 16 x 053 HAAS	2420.11616	22	53
ISO 20 / ERM 20 x 055 HAAS	2420.12016	28	55

Supplied: ISO colletholder with ERM clamping nut and integral pull stud.
Also Available in PG.



! We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.

SH/ER Toolholder

Applications

Automotive shank colletholders with trapezoidal thread are supplied with a setting nut. With this type of colletholder, ER, ER-GB and ET1 REGO-FIX® collets can be used.

Special Applications

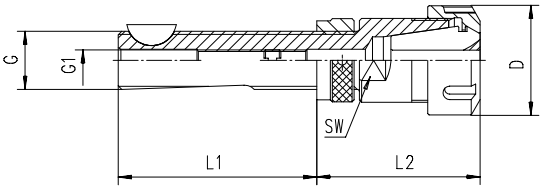
A quick-change setting nut according to system BILZ is available as an option. This option must be ordered separately and is supplied at extra charge. When extra high clamping force is needed, e.g. when tapping with ER-GB or ET1*, we recommend the use of our friction bearing clamping nuts Hi-Q®/ERB and Hi-Q®/ERBC.

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

Automotive Shank Colletholders

Type	Part No.	D [mm]	G	G1	L1 [mm]	L2 [mm]	SW [mm]
SH 12 x 050 / ER 11	2612.11104	19.0	Tr 12x1.5	M5	50.0	46.6	12
SH 16 x 073 / ER 16	2616.11604	28.0	Tr 16x1.5	M6	73.0	53.5	19
SH 20 x 076 / ER 20	2620.12004	34.0	Tr 20x2.0	M8	76.0	59.5	22
SH 28 x 083 / ER 25	2628.12504	42.0	Tr 28x2.0	M18x1.5	83.0	57.0	28

Supplied with: Colletholder, clamping nut, back-up screw, setting nut and Woodruff-key.



We recommend tightening the clamping nuts with a torque wrench. The maximum torque shall not be more than 25% above the recommended tightening torque.

micRun® MR System

Features | Benefits

What is micRun®

The micRun® system is a new product designed for high speed and high accuracy machining applications. A specially designed holder, collet and nut form an assembly that achieves 0.0001" TIR at 3 x D all while providing industry leading clamping force. The patented system is an extension of REGO-FIX's long line of ER based products.

Features | Benefits

Swiss Quality

Made in Switzerland to ISO 9001/ISO 14001.
100% inspected for accuracy.

Marking

Type and size (reduces collet selection errors).

Traceability

Lot number is marked on all products for traceability throughout the entire manufacturing process.

Holder T.I.R. < 1 µm
Collet T.I.R < 2 µm
System T.I.R < 3 µm at 3 diameters

Nut Design

- Symmetrical design without grooves or flats for quiet running.
- Special Hi-Q® process for improved clamping forces
- Special thread design to keep nut aligned with the holder for improved T.I.R. repeatability and rigidity.
- No collet ejector required

Q+® Balancing

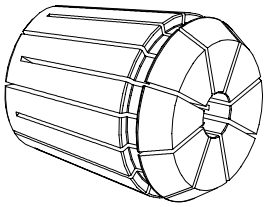
100% balanced to lowest possible residual imbalance.

Vibration Dampening

For best machining results.

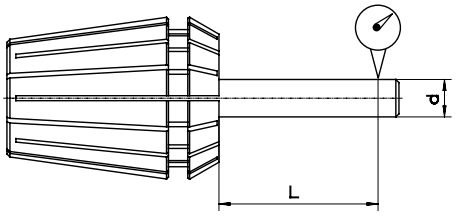
Matched Tooling System

All REGO-FIX® micRun products are to be assembled and used together. Using any other manufacturer's product can and will result in a poor assembly.



MR micRun® System

Clamping Range [mm]			T.I.R. max.	
From d	To d	L	DIN 6499/ ISO 15488 Form B	△ MR
1.0	20	3 x d	0.0006" (0.015mm)	0.0001" (0.003mm)



MR Metric Collets

Clamping Capacity [mm]	Clamping Capacity [Inch]	MR 11 Part No.	MR 16 Part No.	MR 25 Part No.	MR 32 Part No.
1.00	0.0394	1111.01006	1116.01006	1125.01006	
2.00	0.0787	1111.02006	1116.02006	1125.02006	1132.02006
3.00	0.1181	1111.03006	1116.03006	1125.03006	1132.03006
4.00	0.1575	1111.04006	1116.04006	1125.04006	1132.04006
5.00	0.1969	1111.05006	1116.05006	1125.05006	1132.05006
6.00	0.2362	1111.06006	1116.06006	1125.06006	1132.06006
8.00	0.3150	–	1116.08006	1125.08006	1132.08006
10.00	0.3937	–	1116.10006	1125.10006	1132.10006
12.00	0.4724	–	–	1125.12006	1132.12006
14.00	0.5512	–	–	1125.14006	1132.14006
16.00	0.6300	–	–	1125.16006	1132.16006
18.00	0.7087	–	–	–	1132.18006
20.00	0.7874	–	–	–	1132.20006

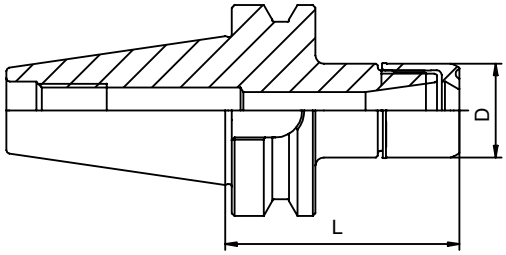
MR Inch Collets

Ø [inch]	Clamping Capacity [mm]	MR 11 Part No.	MR 16 Part No.	MR 25 Part No.	MR 32 Part No.
1/8*	3.18	1111.03186	1116.03186	1125.03186	1132.03186
1/4*	6.35	1111.06356	1116.06356	1125.06356	1132.06356
3/8*	9.53	–	1116.09536	1125.09536	1132.09536
1/2*	12.70	–	–	1125.12706	1132.12706
3/4*	19.05	–	–	–	1132.19056

! Design for use only with MR holders and nuts.

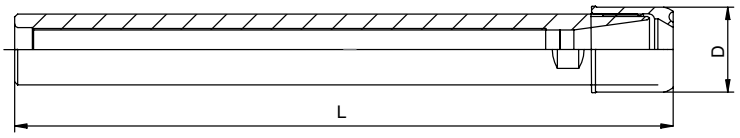
BT Holders

Type	Part No.	D [mm]	L [mm]
BT 30 / MR 11 x 050	5130.11110	16	50
BT 30 / MR 11 x 100	5130.11150	16	100
BT 30 / MR 16 x 050	5130.11610	28	50
BT 30 / MR 16 x 080	5130.11640	28	80
BT 30 / MR 16 x 100	5130.11650	28	100
BT 30 / MR 25 x 060	5130.12520	40	60
BT 30 / MR 25 x 100	5130.12550	40	100
BT 30 / ER 32 x 060	5130.13220	50	60
BT 40 / MR 11 x 100	5140.11150	16	100
BT 40 / MR 16 x 070	5140.11630	28	70
BT 40 / MR 16 x 100	5140.11650	28	100
BT 40 / MR 25 x 070	5140.12530	40	70
BT 40 / MR 25 x 100	5140.12550	40	100
BT 40 / MR 32 x 070	5140.13230	50	70
BT 40 / MR 32 x 100	5140.13250	50	100



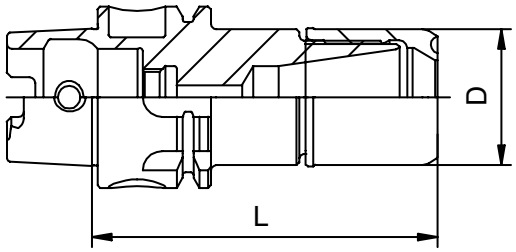
Cylindrical Extensions

Type	Part No.	D [mm]	d [mm]	L [mm]
CYL 16 / MR 11 x 150	5616.11190	16	16	150
CYL 16 / MR 11 x 200	5619.11100	16	16	200
CYL 20 / MRM 16 x 150	5620.21690	24	20	150
CYL 20 / MRM16 x 200	5620.21600	24	20	200



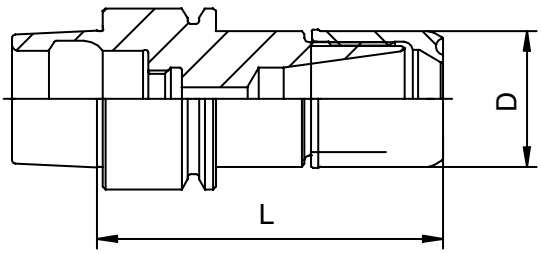
HSK-A Holders

Type	Part No.	D [mm]	L [mm]
HSK-A 32 / MRM 16 x 060	5532.11620	24	60
HSK-A 32 / MRM 16 x 100	5532.11650	24	100
HSK-A 40 / MR 16 x 060	5540.11620	28	60
HSK-A 40 / MR 16 x 100	5540.11650	28	100
HSK-A 40 / MR 25 x 080 H	5540.12540	40	80
HSK-A 50 / MR 16 x 100 H	5550.11650	28	100
HSK-A 50 / MR 25 x 080 H	5550.12540	40	80
HSK-A 63 / MR 11 x 100	5563.11150	16	100
HSK-A 63 / MR 16 x 100	5563.11650	28	100
HSK-A 63 / MR 25 x 080	5563.12540	40	80
HSK-A 63 / MR 32 x 070	5563.13230	50	70
HSK-A 63 / MR 32 x 100	5563.13250	50	100



HSK-E Holders

Type	Part No.	D [mm]	L [mm]
HSK-E 25 / MR 11 x 045	5525.11114	16	45
HSK-E 25 / MRM 16 x 045	5525.11618	24	45
HSK-E 32 / MR 11 x 060	5532.11124	16	60
HSK-E 32 / MRM 16 x 055	5532.11618	24	55
HSK-E 40 / MR 11 x 050	5540.11114	16	50
HSK-E 40 / MR 11 x 100	5540.11154	16	100
HSK-E 40 / MRM 16 x 055	5540.11618	24	55
HSK-E 40 / MRM 16 x 080	5540.11648	24	80
HSK-E 40 / MR 25 x 065	5540.12520	40	65
HSK-E 50 / MR 16 x 100	5550.11654	28	100
HSK-E 50 / MR 25 x 070	5550.12534	40	70



Hi-Q® micRun® Clamping Nuts

Features | Benefits

The new micRun® Hi-Q®/MR & Hi-Q/MRC nuts are designed to work with the REGO-FIX® micRun system. The micRun system is a new product designed for high speed and high accuracy machining applications. A specially designed holder, collet and nut form an assembly that achieves 0.0001" TIR at 3 x D all while providing industry leading clamping force. The patented system is an extension of REGO-FIX's long line of ER based products.

- Only compatible with MR holders and collets
- Requires a MR wrench

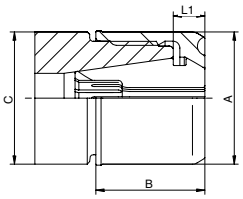
Hi-Q® | MR | MRC | MRM

Hi-Q®/MR micRun® Clamping Nuts
Hi-Q®/MRC micRun® Clamping Nuts for Internal Coolant
Hi-Q®/MRM micRun® Mini-Clamping Nuts

Type	Part No.	A [mm]	B [mm]	L1 [mm]	Drawing
Hi-Q®/ MR 11	3611.00000	16	16.2	4.5	1
Hi-Q®/ MR 16	3616.00000	28	23.1	6.7	1
Hi-Q®/ MR 25	3625.00000	40	25.5	8.1	1
Hi-Q®/ MR 32	3632.00000	50	31.8	9.1	1
Coolant Through Capable					
Hi-Q®/ MRC 16	3616.20000	28	28.1	11.7	2
Hi-Q®/ MRC 25	3625.20000	40	30.5	13.1	2
Hi-Q®/ MRC 32	3632.20000	50	36.8	14.1	2
Mini-Camping Nuts					
Hi-Q®/ MRM 16	3616.80000	24	23.1	6.7	1
Hi-Q® / MRMC 16	3616.90000	24	28.1	11.7	2

See Page 50 for Sealing Disk (DS) & Page 56 for Coolant Flush Disk (KS)

1



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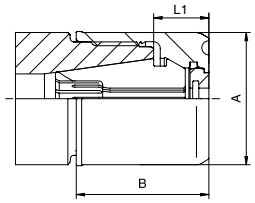
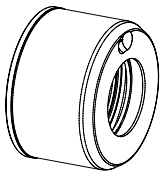
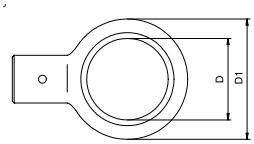




Hi-Q® micRun® Clamping Nut Wrench Heads

Type	Part No.	D [mm]
MR 11 roller bearing wrnech head	7855.11000	16
MR 16 roller bearing wrnech head	7855.16000	28
MR 16M roller bearing wrnech head	7855.16800	24
MR 25 roller bearing wrnech head	7855.25000	40
MR 32 roller bearing wrnech head	7855.32000	50

See page 60 for torque options.



Recommended Tightening Torque

Nut Torque (ft-lbs)					
Collet Size	Ø mm	Ø inch	MR & MRC MR	MRM & MRMC MR	Recommended Torque Wrench
MR 11	1.0 – 2.5	0.039 – 0.098	6	–	7150.05050
	3.0 – 7.0	0.118 – 0.256	12	–	
MR 16	1	0.039	6	6	8020.08060
	1.5 – 3.5	0.059 – 0.138	15	15	
	4.0 – 4.5	0.157 – 0.177	15	15	
	5.0 – 10.0	0.197 – 0.394	40	18	
MR 20	1	0.039	12	–	8020.20100
	1.5 – 6.5	0.059 – 0.256	24	–	
	7.0 – 13.0	0.276 – 0.512	60	–	
MR 25	1.0 –3.5	0.039 – 0.138	18	–	8020.08060
	4.0 – 4.5	0.157 – 0.177	40	–	8020.60300
	5.0 – 7.5	0.196 – 0.295	60	–	
	8.0 – 16.0	0.315 – 0.630	80	–	
MR 32	2.0 –2.5	0.079 – 0.098	18	–	8020.08060
	3.0 – 22.0	0.118 – 0.787	100	–	8020.60300

See next page for standard ER nut torque values

! Please see torque notes on next page

ERM Clamping Nuts Tightening Torque

Recommended Tightening Torque

Nut Torque (ft-lbs)							
Collet Size	Ø mm	Ø inch	Hi-QM & Hi-QMC		MS		Recommended Torque Wrench
			ER	ER-GB	ER	ER-GB	
ER 8 MB	0.2 – 0.9	0.0078 – 0.035	4	–	4	–	7150.05050
ER 8	1.0 – 1.5	0.039 – 0.060	4	–	4	–	
	2.0 – 2.5	0.079 – 0.197	4	–	4	–	
	3.0 – 5.0	0.118 – 0.197	4	–	4	–	
ER 11 MB	0.2 – 0.9	0.0078 – 0.035	6	–	6	–	8020.08060
ER 11	1.0 – 2.5	0.039 – 0.098	6	6	7	–	
	3.0 – 7.0	0.118 – 0.256	12	10	7	–	
ER 16 MB	0.2 – 0.9	0.0078 – 0.035	9	–	9	–	8020.08060
ER 16	1	0.039	9	–	9	–	
	1.5 – 3.5	0.059 – 0.138	18	–	15	–	
	4.0 – 4.5	0.157 – 0.177	18	18	15	–	
	5.0 – 10.0	0.197 – 0.394	18	18	15	–	
ER 20	1	0.039	12	–	9	–	8020.08060
	1.5 – 6.5	0.059 – 0.256	21	21	14	–	
	7.0 – 13.0	0.276 – 0.512	21	21	14	–	
ER 25	1.0 –3.5	0.039 – 0.138	18	–	–	–	8020.08060
	4.0 – 7.5	0.157 – 0.295	24	24	–	–	
	5.0 – 16.0	0.196 – 0.630	24	24	–	–	

See next page for more torque values.

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

! 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.

ER Clamping Nuts Tightening Torque

Recommended Tightening Torque

Nut Torque (ft-lbs)									
Collet Size	Ø mm	Ø inch	Hi-Q & Hi-QC		Hi-QB & Hi-QBC		AX & AXC		Recommended Torque Wrench
			ER	ER-GB	ER	ER-GB	ER	ER-GB	
ER 11 MB	0.2 – 0.9	0.0078 – 0.035	6	–	–	–	6	–	8020.08060
ER 11	1.0 – 2.5	0.0390 – 0.098	6	6	–	–	6	6	
	3.0 – 7.0	0.1180 – 0.256	20	12	–	–	20	15	
ER 16 MB	0.2 – 0.9	0.0078 – 0.035	6	–	–	–	6	–	8020.08060
ER 16	1	0.039	6	–	5	–	6	–	
	1.5 – 3.5	0.059 – 0.138	15	–	12	–	15	–	
	4.0 – 4.5	0.157 – 0.177	30	30	25	25	30	30	
	5.0 – 10.0	0.197 – 0.394	40	32	40	32	30	30	
ER 20	1	0.039	12	–	10	–	12	–	8020.08060
	1.5 – 6.5	0.059 – 0.256	25	25	20	20	25	25	8020.20100
	7.0 – 13.0	0.276 – 0.512	60	60	60	60	40	26	
ER 25	1.0 – 3.5	0.039 – 0.138	20	–	15	–	20	–	8020.20100
	4.0 – 4.5	0.157 – 0.177	40	40	35	35	40	40	
	5.0 – 7.5	0.196 – 0.295	60	60	55	55	60	60	
	8.0 – 16.0	0.315 – 0.630	80	80	80	60	60	60	
ER 32	2.0 – 2.5	0.078 – 0.098	20	–	15	–	20	–	8020.08060
	3.0 – 7.5	0.118 – 0.291	100	100	95	80	80	80	8020.60300
	8.0 – 20.0	0.315 – 0.787	100	110	100	85	80	80	
ER 40	3.0 – 8.5	0.118 – 0.335	130	130	130	130	95	95	8020.60300
	9.0 – 26.0	0.354 – 1.023	130	130	130	140	95	95	
ER 50	6.0 – 34.0	0.236 – 1.338	180	220	180	220	–	–	8020.60300

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

! 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.

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