

## Swiss Automatic Tooling

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## 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  $\triangle$  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

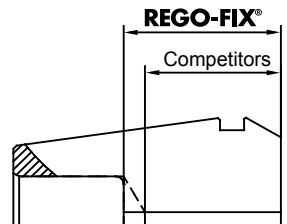
Sizes from ER 8 up to ER 50 for diameters from 0.0079" (0.2 mm) up to 1.334" (34 mm).

### 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 run-out.



### Matched Tooling System

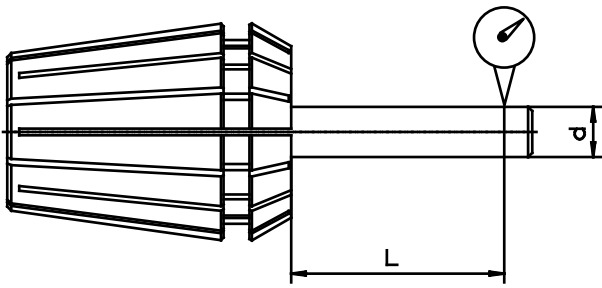
All REGO-FIX® components such as collets, toolholders, clamping nuts are all manufactured by REGO-FIX®. The compatibility of the whole system results in maximum precision, balance and tool life.



**!** When buying ER collets, please note the REGO-FIX® quality symbol  $\triangle$  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.  $\leq 0.0004"$  (10  $\mu\text{m}$ ) 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-UP High Precision Collets

### Special Advantages

T.I.R.  $\leq 0.0002"$  (5  $\mu\text{m}$ ) 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

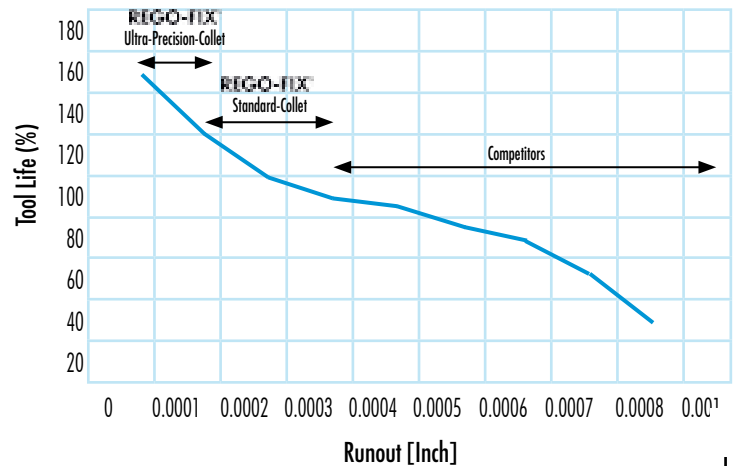
ER collets are primarily used for high-speed cutting applications, where the lowest T.I.R. (Total Indicated Runout) is required. Low T.I.R. improves tool life, part finish and reduces spindle wear.

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.

## 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	$\Delta$ ER	$\Delta$ ER-UP
1.0	1.6	6.0			
1.6	3.0	10.0	0.0006" (0.015mm)	0.0004" (0.010mm)	0.0002" (0.005mm)
3.0	6.0	16.0			
6.0	10.0	25.0			
10.0	18.0	40.0	0.0008" (0.020mm)	0.0004" (0.010mm)	0.0002" (0.005mm)
18.0	26.0	50.0			
26.0	34.0	60.0	0.001" (0.025mm)	0.0006" (0.015mm)	0.0004" (0.010mm)

## Influence of Tool Run-out (T.I.R.) on Tool Life

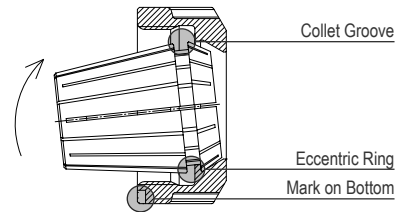


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### Collets ER and ER-UP

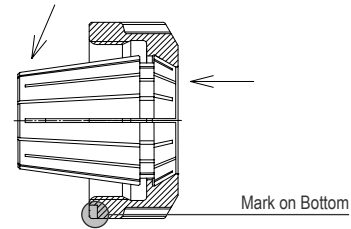
#### Assembling Instructions

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.



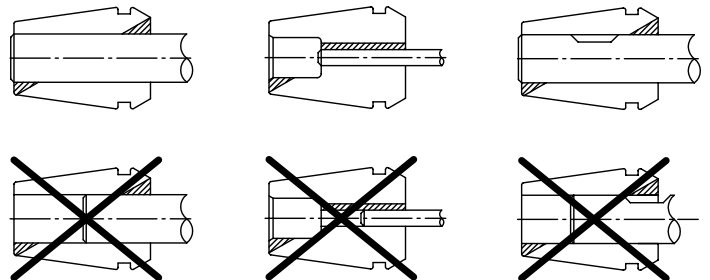
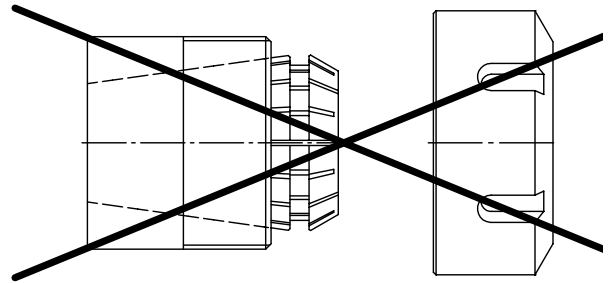
**!** Improper assembly can permanently damage the concentricity of the collet and may result in damage to the clamping nut.

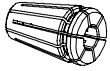
Only assemble the clamping nuts with correctly assembled collets!

Never clamp oversized tool shanks!

Example: Never use a  $\varnothing 12-11$  mm collet to clamp a  $\varnothing 12.2$  mm shank. Rather, use the next bigger collet ( $\varnothing 12.5-11.5$  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  $\frac{2}{3}$  of the collet bore length. Improper tool insertion can permanently deform the collet and will result in poor run-out.





# ER 8 | ER 8-UP (Ultra Precision)

DIN 6499/ISO 15488

## Metric

Clamping Capacity		ER 8	ER 8-UP
[mm]	[Inch]	Part No.	Part No.
1.00 – 0.70*	0.0394 – 0.0276	1108.01000	1108.01001
1.50 – 1.00*	0.0591 – 0.0394	1108.01500	1108.01501
2.00 – 1.50*	0.0787 – 0.0591	1108.02000	1108.02001
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		1108.00000	1108.00001
*Sizes are included in Sets		9 Collets and 1 Tray	

## Inch

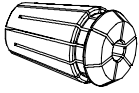
Ø [inch]	Clamping Capacity		ER 8	ER 8-UP
	[inch]	[mm]	Part No.	Part No.
1/16*	0.0625 – 0.0425	1.59 – 1.09	1108.01592	1108.01593
1/8*	0.1250 – 0.1055	3.18 – 2.68	1108.03182	1108.03183
3/16*	0.1875 – 0.1675	4.76 – 4.26	1108.04762	1108.04763
Collet Sets come in Standard and UP			1108.00002	1108.00003
All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

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

## ER 8 Microbore

Clamping Diameter h7		ER 8-MB
[mm]	[Inch]	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 run-out of 0.0002" (6µm). They have been developed by REGO-FIX® specifically for small tool shank diameters.



# ER 11 | ER 11-UP (Ultra Precision)

DIN 6499/ISO 15488

## Metric

Clamping Capacity		ER 11	ER 11-UP
[mm]	[Inch]	Part No.	Part No.
1.00 – 0.50*	0.0394 – 0.0197	1111.01000	1111.01001
1.50 – 1.00*	0.0591 – 0.0394	1111.01500	1111.01501
2.00 – 1.50*	0.0787 – 0.0591	1111.02000	1111.02001
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		1111.00000	1111.00001
*Sizes are included in Sets		13 Collets and 1 Tray	

## Inch

Ø	Clamping Capacity		ER 11	ER 11-UP
	[Inch]	[mm]		
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			1111.00002	1111.00003
*Sizes are included in Sets			7 Collets and 1 Tray	

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

## ER 11 Microbore

Clamping Diameter h7		ER 11 - MB
[mm]	[Inch]	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

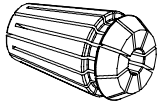
Microbore Collets have a run-out of 0.0002" (6µm). They have been developed by REGO-FIX® especially for small tool shank diameters.

## ER 11-ND (Nominal Diameter)

DIN 6499/ISO 15488

Ø	Clamping Capacity		ER 11ND
	[Inch]	[mm]	
		3.00	1111.03005
1/8		3.175	1111.03185
		4.00	1111.04005
		6.00	1111.06005

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



# ER 16 | ER 16-UP (Ultra Precision)

DIN 6499/ISO 15488

## Metric

Clamping Capacity		ER 16	ER 16-UP
[mm]	[Inch]	Part No.	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

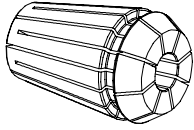
Ø [Inch]	Clamping Capacity		ER 16	ER 16-UP
	[inch]	[mm]	Part No.	Part No.
1/16*	0.0625 – 0.0425	1.59 – 1.09	1116.01592	1116.01593
3/32*	0.0938 – 0.0738	2.38 – 1.88	1116.02382	1116.02383
1/8*	0.1250 – 0.0850	3.18 – 2.18	1116.03182	1116.03183
5/32*	0.1563 – 0.1163	3.97 – 2.97	1116.03972	1116.03973
3/16*	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		ER 16- MB
[mm]	[Inch]	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 run-out of 0.0002" (6µm).  
They have been developed by REGO-FIX® especially for small tool shank diameters.



# ER 20 | ER 20-UP (Ultra Precision)

DIN 6499/ISO 15488

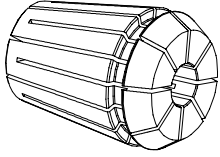
## Metric

Clamping Capacity		ER 20	ER 20-UP
[mm]	[Inch]	Part No.	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 – 0.4330	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		1120.00000	1120.00001
*Sizes are included in Sets		12 Collets and 1 Tray	

## Inch

Ø [Inch]	Clamping Capacity		ER 20	ER 20-UP
	[inch]	[mm]	Part No.	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			1120.00002	1120.00003
*Sizes are included in Sets			7 Collets and 1 Tray	





# ER 25 | ER 25-UP (Ultra Precision)

DIN 6499/ISO15488

## Metric

Clamping Capacity		ER 25	ER 25-UP
[mm]	[Inch]	Part No.	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 – 0.4330	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		ER 25	ER 25-UP
[mm]	[Inch]	Part No.	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 – 0.5709	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		ER 25	ER 25-UP
	[inch]	[mm]	Part No.	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	

### Metallic Sealed ER Collets (For Coolant Throught Tools)

#### 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  $\triangle$  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.

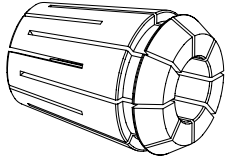
#### Best in Class TIR

T.I.R.  $\leq 0.0002"$  (6  $\mu\text{m}$ ) 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.





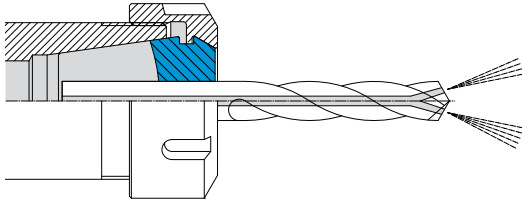
# ER 11 – ER 25 | DM

Metallic Sealed Collets

## Inch Collets

Ø [Inch]	Clamping Capacity		ER 11 DM	ER 16 DM	ER 20 DM	ER 25 DM
	[Inch]	[mm]	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 <sup>+</sup>	1220.03972 <sup>+</sup>	
3/16	0.1875	4.76	1211.04762*+	1216.04762*+	1220.04762*+	
7/32	0.2187	5.55	1211.05562*	1216.05562	1220.05562 <sup>+</sup>	1225.05562 <sup>+</sup>
1/4	0.2500	6.35	1211.06352*	1216.06352*	1220.06352*+	1225.06352*+
9/32	0.2812	7.14		1216.07142	1220.07142	1225.07142
5/16	0.3125	7.94		1216.07942*	1220.07942*	1225.07942*
11/32	0.3437	8.73		1216.08732	1220.08732	1225.08732
3/8	0.3750	9.53		1216.09532*	1220.09532*	1225.09532*
13/32	0.4062	10.32		1216.10322	1220.10322	1225.10322
7/16	0.4375	11.11			1220.11112*	1225.11112*
15/32	0.4687	11.91			1220.11912	1225.11912
1/2	0.5000	12.70			1220.12702*	1225.12702*
17/32	0.5312	13.49				1225.13492
9/16	0.5625	14.29				1225.14292*
19/32	0.5937	15.08				1225.15082
5/8	0.6250	15.88				1225.15882*
21/32	0.6532	16.67				
11/16	0.6875	17.46				
23/32	0.7187	18.26				
3/4	0.7500	19.05				
13/16	0.8125	20.64				
7/8	0.8750	22.23				
1	1.0000	25.40				
*Metallic Sealed Collet Sets			*1211.00002	*1216.00002	*1220.00002	*1225.00002

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

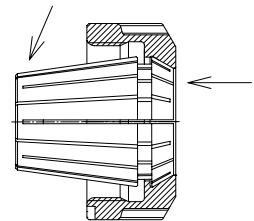
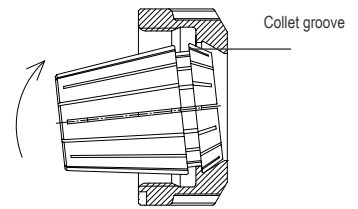


### Metric Collets

Clamping Capacity		ER 11 DM	ER 16 DM	ER 20 DM	ER 25 DM
[mm]	[Inch]	Part No.	Part No.	Part No.	Part No.
3.00	0.1181	1211.03000*+	1216.0.3000*+	1220.0.3000*+	
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*+
7.00	0.2756	1211.07000	1216.07000*	1220.07000*	1225.07000
8.00	0.3150		1216.08000*	1220.08000*	1225.08000*
9.00	0.3543		1216.09000*	1220.09000*	1225.09000
10.00	0.3937		1216.10000*	1220.10000*	1225.10000*
11.00	0.4331			1220.11000*	1225.11000
12.00	0.4724			1220.12000*	1225.12000*
13.00	0.5118			1220.13000*	1225.13000
14.00	0.5512				1225.14000*
15.00	0.5905				1225.15000
16.00	0.6300				1225.16000*
17.00	0.6692				
18.00	0.7087				
19.00	0.7480				
20.00	0.7874				
21.00	0.8268				
22.00	0.8661				
23.00	0.9055				
24.00	0.9449				
25.00	0.9843				
26.00	1.0236				
*Metallic Sealed Collet Sets		*1211.00000	*1216.00000	*1220.00000	*1225.00000

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

### Assembly Instructions



## 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  $\triangle$  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.

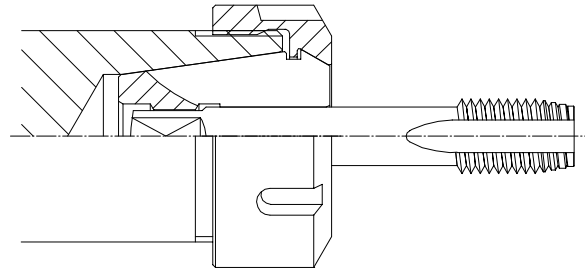
## ER-GB Tapping Collets without Axial Compensation

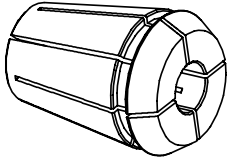
These rigid tapping collets are compatible with taps per DIN, ISO, JIS and ANSI standards.

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.

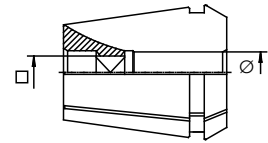
For machines without tapping option we recommend the use of our axial compensating GSF tapping holders.

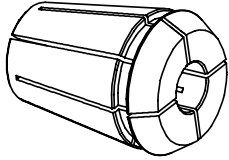




## Rigid Tapping Collets Metric Sizes (DIN, ISO, JIS)

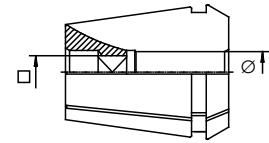
Shank (Ø) [mm]	Square (□) [mm]	Standard	ER 11-GB Part No.	ER 16-GB Part No.	ER 20-GB Part No.	ER 25-GB Part No.
2.5	2.1	DIN	1411.02500			
2.8	2.1	DIN	1411.02800			
3.5	2.7	DIN	1411.03500			
4.0	3.0	DIN	1411.04000			
4.0	3.15/3.2	ISO, JIS	1411.04002	1416.04002	1420.04002	1425.04002
4.5	3.4	DIN	1411.04500	1416.04500	1420.04500	1425.04500
5.0	4.0	ISO, JIS	1411.05002	1416.05002	1420.05002	1425.05002
5.5	4.3	DIN		1416.05500	1420.05500	1425.05500
5.5	4.5	JIS		1416.05501	1420.05501	1425.05501
6.0	4.5	JIS		1416.06001	1420.06001	1425.06001
6.0	4.9	DIN	1411.06000	1416.06000	1420.06000	1425.06000
6.2	5.0	JIS		1416.06201	1420.06201	1425.06201
6.3	5.0	ISO		1416.06302	1420.06302	1425.06302
7.0	5.5	DIN, JIS		1416.07000	1420.07000	1425.07000
7.1	5.6	ISO		1416.07102	1420.07102	1425.07102
8.0	6.2/6.3	DIN, ISO		1416.08000	1420.08000	1425.08000
8.5	6.5	JIS		1416.08501	1420.08501	1425.08501
9.0	7.0/7.1	DIN, ISO		1416.09000	1420.09000	1425.09000
10.0	8.0	DIN, ISO			1420.10000	1425.10000
10.5	8.0	JIS			1420.10501	1425.10501
11.0	9.0	DIN			1420.11000	1425.11000
11.2	9.0	ISO			1420.11202	1425.11202
12.0	9.0	DIN			1420.12000	1425.12000
12.5	10.0	ISO, JIS				1425.12502
14.0	11.0/11.2	DIN, ISO, JIS				1425.14000
15.0	12.0	JIS				1425.15001
16.0	12.0	DIN				1425.16000
17.0	13.0	JIS				
18.0	14.0/14.5	DIN, ISO				
20.0	16.0	DIN, ISO				
22.0	18.0	DIN				
25.0	20.0	DIN				
28.0	22.0	DIN				
32.0	24.0	DIN				





### 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.
0.141	0.110		1411.03585	1416.03585		
0.168	0.131		1411.04275	1416.04275	1420.04275	1425.04275
0.194	0.152		1411.04935	1416.04935	1420.04935	1425.04935
0.220	0.165			1416.05595	1420.05595	1425.05595
0.255	0.191			1416.06485	1420.06485	1425.06485
0.318	0.238			1416.08085	1420.08085	1425.08085
0.323	0.242				1420.08215	1425.08215
0.367	0.275				1420.09325	1425.09325
0.381	0.286				1420.09685	1425.09685
0.429	0.322					1425.10905
0.437	0.328	•				1425.11104
0.480	0.360					1425.12195
0.542	0.406					
0.562	0.421	•				
0.590	0.442					1425.14995
0.652	0.489					
0.687	0.515	•				
0.697	0.523					
0.700	0.531	•				
0.760	0.570					
0.800	0.600					
0.896	0.672					
1.021	0.766					
1.108	0.831					
1.233	0.925					



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





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ER

## 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.

## ET-1 Tapping Collets with Axial Compensation

PCM ET-1 tapping collets with axial compensation offer a smart and cost-effective tool holding option for machines which need axial compensation for tapping.

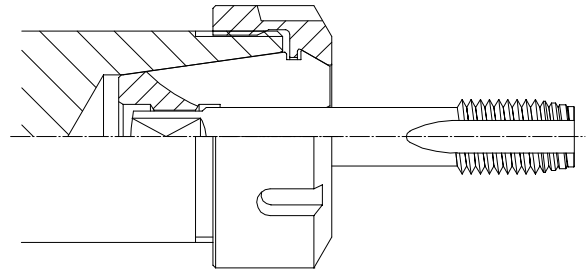
### Directions for Use

The following tapping process is recommended for tapping collets PCM ET-1:

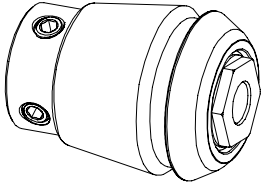
Fast approach, then tapping feed with approximately 95% of the pitch value, which uses 20-30% of the compensation stroke when the spindle rotation and the feed movement are simultaneously reversed.

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.
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
5.00	ISO, JIS		1516.05000	1520.05000	1525.05000
5.50	DIN, ISO		1516.05500	1520.05500	1525.05500
5.60	ISO		1516.05600	1520.05600	1525.05600
6.00	DIN, JIS		1516.06000	1520.06000	1525.06000
6.20	JIS		1516.06200	1520.06200	1525.06200
6.30	ISO		1516.06300	1520.06300	1525.06300
7.00	DIN, JIS			1520.07000	1525.07000
7.10	ISO				1525.07100
8.00	DIN, ISO, JIS				1525.08000
8.50	JIS				1525.08500
9.00	DIN, ISO				1525.09000
10.00	DIN, ISO				1525.10000
10.50	JIS				
11.00	DIN				
11.20	ISO				
12.00	DIN				
12.50	ISO, JIS				
14.00	DIN, ISO, JIS				
15.00	JIS				
16.00	DIN, ISO				
17.00	JIS				

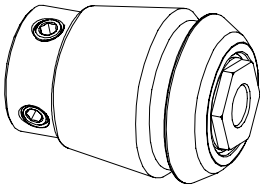


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**ET-1 Axial Compensating Tap Collets  
Inch Sizes (ANSI)**

Shank Ø [inch]	Shank Ø [mm]	ET1-12 Part No.	ET1-16 Part No.	ET1-20 Part No.	ET1-25 Part No.
0.141	3.580	1512.03581	1516.03581	1520.03581	1525.03581
0.168	4.270		1516.04271	1520.04271	1525.04271
0.194	4.930		1516.04931	1520.04931	1525.04931
0.220	5.590		1516.05591	1520.05591	1525.05591
0.255	6.480			1520.06481	1525.06481
0.318	8.080				1525.08081
0.323	8.205				1525.08211
0.367	9.320				1525.09321
0.381	9.680				1525.09681
0.429	10.900				
0.437	11.113				
0.480	12.192				
0.542	13.770				
0.562	14.290				
0.590	14.990				
0.652	16.560				
0.697	17.700				

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 is marked on all products for traceability throughout the 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  $\Delta$  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

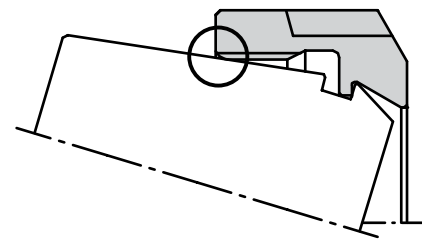
Lower frictional forces resulting in up to 80% higher gripping force over standard non-treated clamping nuts.

### 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.



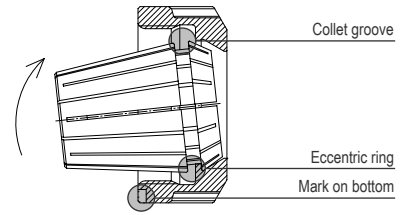
### Great Selection of Specific Products for Virtually any Application

- 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

## Hi-Q® Clamping Nuts (pat. pend.)

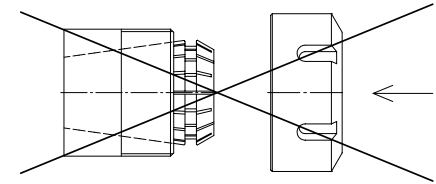
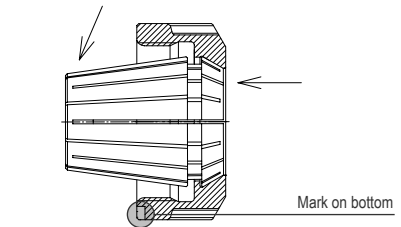
### Assembling Collet

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.



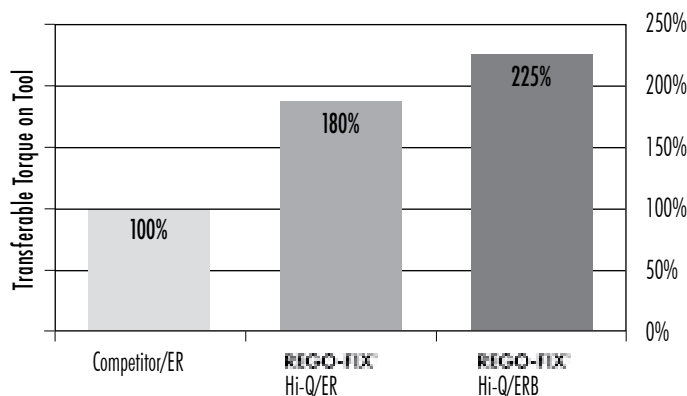
### Removing Collet

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.



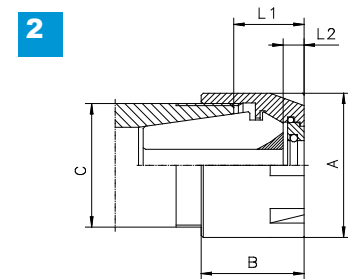
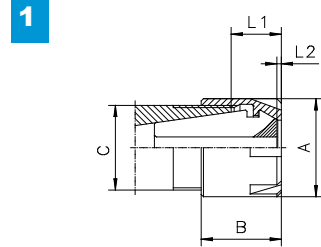
- ! Improper assembly can permanently damage the concentricity of the collet and may result in the destruction of the clamping nut.
- Only mount nuts with correctly inserted collets!  
Never place the collet into the holder without first assembling into the nut.

## Torque Comparison of Clamping Nuts



**Hi-Q<sup>®</sup>/ERM Clamping Nuts with Minimal External Diameter**  
**Hi-Q<sup>®</sup>/ERM C Clamping Nuts with Minimal External Diameter for Internal Cooling**

Type	Part No.	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Drawing	Wrench
Hi-Q/ERM 8	3508.00000	12	10.8	M 10 x 0.75	4.3 – 6.1	1.5	1	7113.08000
Hi-Q/ERM 11	3511.00000	16	12.0	M 13 x 0.75	5.7 – 7.5	0.9	1	7113.11000
Hi-Q/ERM 16	3516.00000	22	18.4	M 19 x 1.00	8.0 – 11.5	0.9	1	7113.16000
Hi-Q/ERM 20	3520.00000	28	19.0	M 24 x 1.00	8.0 – 11.5	–	1	7113.20000
Hi-Q/ERM 25	3525.00000	35	20.0	M 30 x 1.00	8.5 – 12.0	–	1	7113.25000
Coolant Through Capable								
Hi-Q/ERM C 16	3516.20000	22	22.0	M 19 x 1.00	11.5 – 15.0	4.5	2	7113.16000
Hi-Q/ERM C 20	3520.20000	28	24.0	M 24 x 1.00	13.0 – 16.5	5.0	2	7113.20000
Hi-Q/ERM C 25	3525.20000	35	25.0	M 30 x 1.00	13.5 – 17.0	5.0	2	7113.25000

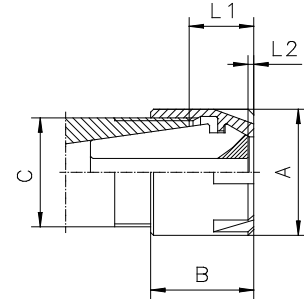


Higher clamping force of the clamping nut at the same time means higher stress on the toolholder. We recommend the use of REGO-FIX<sup>®</sup> torque wrench. REGO-FIX<sup>®</sup> will not be responsible for damages to tool-holders or spindles of other manufacturers.

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

### Hi-Q®/ERM C 11 Clamping Nuts with Built-In Sealing System For Coolant Throught Tools

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

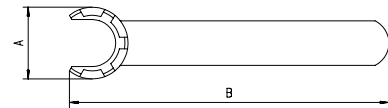




## Type: Spanner | Mini-Nut

Type	Part No.	Size	A [mm]	B [mm]
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

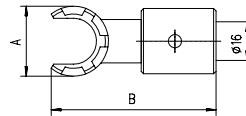
Mini-Nut Type



## Torque Wrench Head: Spanner | Mini

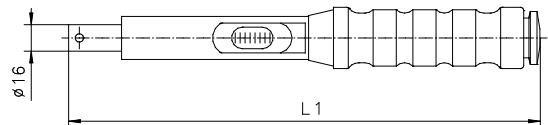
Type	Part No.	Size	A [mm]	B [mm]
A-E 8 M	7153.08000	ER 8	12.4	53.0
A-E 11 M	7153.11000	ER 11	16.8	54.0
A-E 16 M	7153.16000	ER 16	22.5	56.0
A-E 20 M	7153.20000	ER 20	29.0	68.0
A-E 25 M	7153.25000	ER 25	36.0	70.0

Hex Nut Type



## Torque Wrench

Type	Part No.	Range		L1 [mm]
		[Nm]	[ft-lbs]	
Micro	7150.05050	5 – 50	3.7 – 37	335
Small	8020.08060	5 – 50	5.9 – 44	300
Medium	8020.20100	20 – 200	14.8 – 73.8	340
Large	8020.60300	60 – 300	44.3 – 221	545



## 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 2000 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 Resistant

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

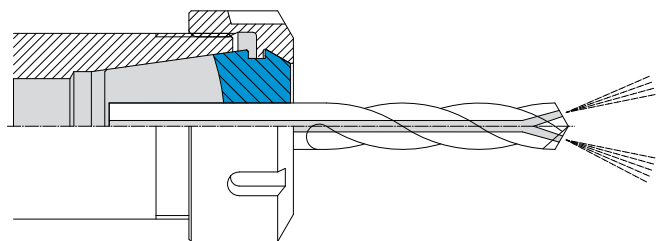
### Interchangeable

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

### Coolant Through

For better cooling and lubrication.

Extends tool life and supports chip removal.



# Mounting Instructions

## Sealing Disks DS/ER

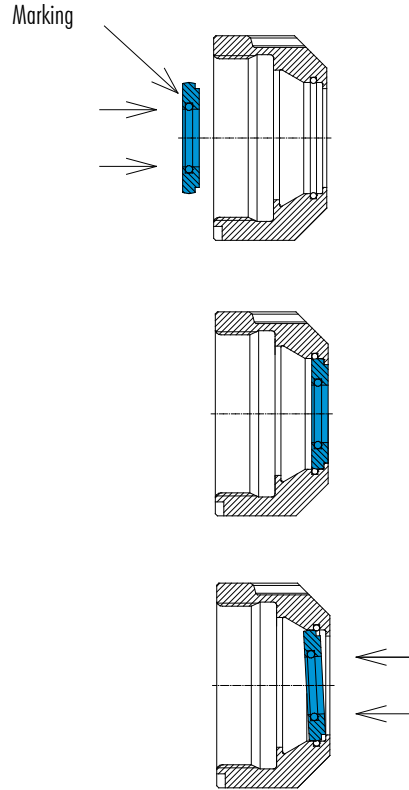
### Assembling

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.

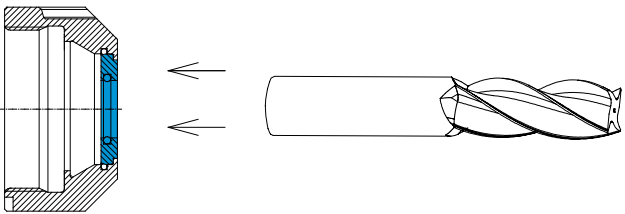
The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

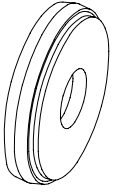
### Removing

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.

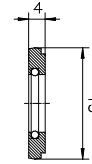




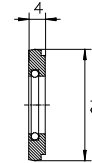
## Sealing Disks DS/ER 16 - DS/ER 20 - DS/ER 25

Sealing Capacity		Ø [Inch]	DS/ER 16 Part No.	DS/ER 20 Part No.	DS/ER 25 Part No.
[mm]	[Inch]				
3.00 - 2.50	0.1181 - 0.0984	3/32	3916.00300	3920.00300	3925.00300
3.50 - 3.00	0.1378 - 0.1181	1/8	3916.00350*	3920.00350*	3925.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32	3916.00400*	3920.00400*	3925.00400*
4.50 - 4.00	0.1772 - 0.1575		3916.00450*	3920.00450*	3925.00450*
5.00 - 4.50	0.1969 - 0.1772	3/16	3916.00500*	3920.00500*	3925.00500*
5.50 - 5.00	0.2165 - 0.1969	7/32	3916.00550*	3920.00550*	3925.00550*
6.00 - 5.50	0.2362 - 0.2165		3916.00600*	3920.00600*	3925.00600*
6.50 - 6.00	0.2559 - 0.2362	1/4	3916.00650*	3920.00650*	3925.00650*
7.00 - 6.50	0.2756 - 0.2559		3916.00700*	3920.00700*	3925.00700*
7.50 - 7.00	0.2953 - 0.2756	9/32	3916.00750*	3920.00750*	3925.00750*
8.00 - 7.50	0.3150 - 0.2953	5/16	3916.00800*	3920.00800*	3925.00800*
8.50 - 8.00	0.3347 - 0.3150		3916.00850*	3920.00850*	3925.00850*
9.00 - 8.50	0.3543 - 0.3347	11/32	3916.00900*	3920.00900*	3925.00900*
9.50 - 9.00	0.3740 - 0.3543	3/8	3916.00950*	3920.00950*	3925.00950*
10.00 - 9.50	0.3937 - 0.3740		3916.01000*	3920.01000*	3925.01000*
10.50 - 10.00	0.4134 - 0.3937	13/32		3920.01050*	3925.01050*
11.00 - 10.50	0.4330 - 0.4134			3920.01100*	3925.01100*
11.50 - 11.00	0.4528 - 0.4330	7/16		3920.01150*	3925.01150*
12.00 - 11.50	0.4724 - 0.4528	15/32		3920.01200*	3925.01200*
12.50 - 12.00	0.4921 - 0.4724			3920.01250*	3925.01250*
13.00 - 12.50	0.5118 - 0.4921	1/2		3920.01300*	3925.01300*
13.50 - 13.00	0.5315 - 0.5118	17/32			3925.01350*
14.00 - 13.50	0.5512 - 0.5315				3925.01400*
14.50 - 14.00	0.5709 - 0.5512	9/16			3925.01450*
15.00 - 14.50	0.5905 - 0.5709				3925.01500*
15.50 - 15.00	0.6102 - 0.5905	19/32			3925.01550*
16.00 - 15.50	0.6300 - 0.6102	5/8			3925.01600*

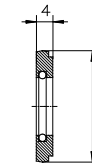
### DS/ER 16



### DS/ER 20



### DS/ER 25



\*Sizes are included in Disc Sets

14 sealing disks with 1 tray DSR/16	3916.00000		
20 sealing disks with 1 tray DSR/20		3920.00000	
26 sealing disks with 1 tray DSR/25			3925.00000
Tray Only DSR/16	7122.16000		
Tray Only DSR/20		7122.20000	
Tray Only DSR/25			7122.25000



**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  $\triangle$  on the coolant flush disk. Guarantee for best quality.

**Universal Use**

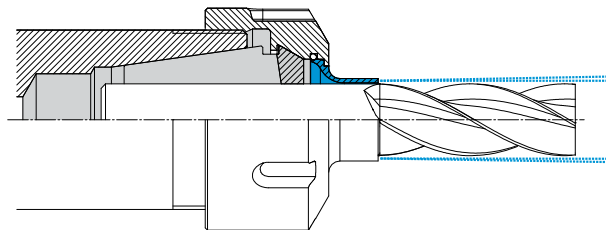
For all REGO-FIX® collets and coolant nuts with interchangeable disk.

**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.

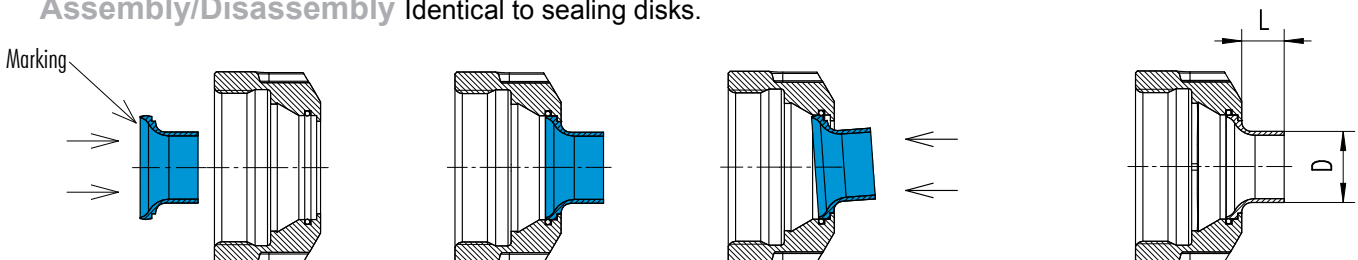


**Coolant Flush Disks KS/ER (pat. pend.)**

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]
3.000		3916.20300	11.0	6.4	3920.20300	11.0	6.4	3925.20300	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
4.000		3916.20400	11.0	7.4	3920.20400	11.0	7.4	3925.20400	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
5.000		3916.20500	11.0	8.4	3920.20500	11.0	8.4	3925.20500	11.0	8.4
6.000		3916.20600	11.0	9.4	3920.20600	11.0	9.4	3925.20600	11.0	9.4
6.350	1/4	3916.30635	11.0	9.7	3920.30635	11.0	9.7	3925.30635	11.0	9.7
7.000		3916.20700	11.0	12.0	3920.20700	11.0	10.4	3925.20700	11.0	10.4
7.938	5/16	3916.30794	11.0	11.0	3920.30794	11.0	11.3	3925.30794	11.0	11.3
8.000		3916.20800	11.0	11.0	3920.20800	11.0	11.4	3925.20800	11.0	11.3
9.000		3916.20900	3.0	11.0	3920.20900	11.0	12.4	3925.20900	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
10.000		3916.21000	3.0	11.0	3920.21000	11.0	14.0	3925.21000	11.0	13.4
11.113	7/16				3920.31111	11.0	14.0	3925.31111	11.0	14.5
12.000					3920.21200	3.0	14.0	3925.21200	11.0	15.4
12.700	1/2				3920.31270	3.0	14.0	3925.31270	11.0	16.1
14.000								3925.21400	11.0	17.4
14.288	9/16							3925.31429	11.0	17.7
15.875	5/8							3925.31588	11.0	19.0
16.000								3925.21600	11.0	19.0

## Mounting Instructions

Assembly/Disassembly Identical to sealing disks.





### 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  $\triangle$ . Guarantee for best quality.

### Sizes

ER 8 – ER 40

### Types

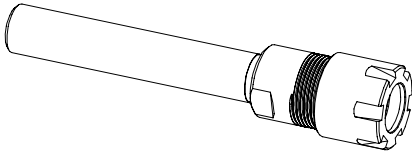
With flat or double ended collets.

### T.I.R. < 0.000" (3 $\mu$ m)

Inner diameter to outer diameter.

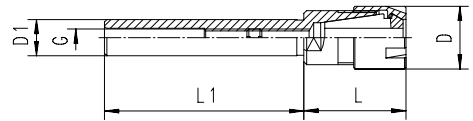
### Surface Finish max. Ra 0.25

Higher clamping force and higher transferable torque.



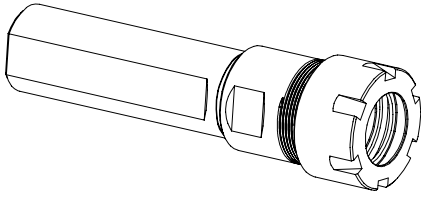
## Toolholders Straight Shank with Mini-Style Hi-Q Nut

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	M 8x1	7113.11000
CYL 3/4" x 155 / ER 16 M	2619.21691	22	19.05	26.5	155	M 12x1	7113.16000
CYL 3/4" x 100 / ER 25 M	2619.22561	35	19.05	47.0	100	M 12x1	7113.25000
CYL 1" x 155 / ER 20 M	2625.22091	28	25.5	26.5	155	M 14x1	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	M 8x1	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	M 12x1	7113.16000
CYL 25 x 155 / ER 20 M	2625.22090	28	25	26.5	155	M 14x1	7113.20000



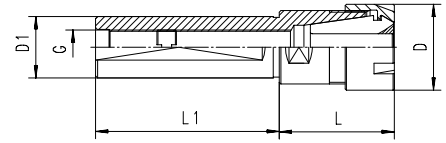
Supplied with Hi-Q® clamping nut and back-up screw.



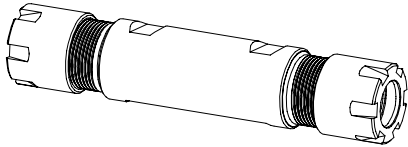


## Toolholders Straight Shank with Flat & Mini-Style Hi-Q Nut

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	M 8x1	7113.11000
CYL 3/4" x 038 / ER 16 MF	2619.21613	22	3/4"	28	38	M 12x1	7113.16000
CYL 3/4" x 050 / ER 16 MF	2619.21623	22	3/4"	28	50	M 12x1	7113.16000
CYL 3/4" x 070 / ER 16 MF	2619.21643	22	3/4"	28	70	M 12x1	7113.16000
CYL 3/4" x 120 / ER 16 MF	2619.21683	22	3/4"	28	120	M 12x1	7113.16000
CYL 3/4" x 140 / ER 16 MF	2619.21693	22	3/4"	28	140	M 12x1	7113.16000
CYL 1" x 033 / ER 16 MF	2625.21613	22	1"	28	33	M 12x1	7113.16000
CYL 1" x 065 / ER 16 MF	2625.21643	22	1"	28	65	M 12x1	7113.16000
CYL 1" x 075 / ER 16 MF	2625.21653	22	1"	28	75	M 12x1	7113.16000
CYL 1" x 100 / ER 16 MF	2625.21663	22	1"	28	100	M 12x1	7113.16000
CYL 1" x 100 / ER 20 MF	2625.22063	28	1"	28	100	M 14x1	7113.20000
CYL 1" x 140 / ER 20 MF	2625.22093	28	1"	28	140	M 14x1	7113.20000
Metric Diameter							
CYL 16 x 038 / ER 11 MF	2616.21112	16	16	20	38	M 8x1	7113.11000
CYL 16 x 140 / ER 11 MF	2616.21122	16	16	60	140	M 8x1	7113.11000
CYL 16 x 035 / ER 16 MF	2616.21612	22	16	38	35	M 8x1	7113.16000
CYL 20 x 050 / ER 16 MF	2620.21622	22	20	28	50	M 12x1	7113.16000
CYL 20 x 070 / ER 16 MF	2620.21642	22	20	28	70	M 12x1	7113.16000
CYL 20 x 060 / ER 11 MF	2620.21132	16	20	20	60	M 8x1	7113.11000
CYL 20 x 120 / ER 16 MF	2620.21682	22	20	28	120	M 12x1	7113.16000
CYL 20 x 140 / ER 16 MF	2620.21692	22	20	8	140	M 12x1	7113.16000
CYL 22 x 038 / ER 16 MF	2622.21612	22	22	28	38	M 12x1	7113.16000
CYL 22 x 070 / ER 16 MF	2622.21642	22	22	28	70	M 12x1	7113.16000
CYL 22 x 100 / ER 16 MF	2622.21662	22	22	28	100	M 12x1	7113.16000
CYL 22 x 080 / ER 20 MF	2622.22052	28	22	39	80	M 12x1	7113.20000
CYL 22 x 070 / ER 25 MF	2622.22542	35	22	47	70	M 12x1	7113.25000
CYL 25 x 065 / ER 16 MF	2625.21642	22	25	28	65	M 12x1	7113.16000
CYL 25 x 100 / ER 20 MF	2625.22062	28	25	28	100	M 14x1	7113.20000
CYL 25 x 154 / ER 20 MF	2625.22002	28	25	28	154	M 14x1	7113.20000
CYL 25 x 075 / ER 25 MF	2625.22552	35	25	47	75	M 14x1	7113.25000
CYL 25 x 145 / ER 25 MF	2625.22592	35	25	36	145	M 14x1	7113.25000
CYL 32 x 070 / ER 25 MF	2632.22542	35	32	30	70	M 18x1.5	7113.25000



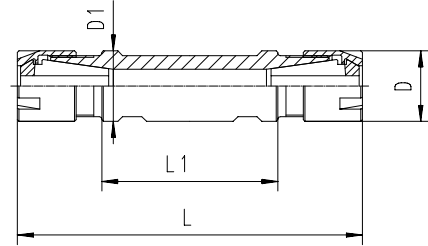
Supplied with Hi-Q® clamping nut and back-up screw.



## Toolholders

### Double Ended Straight Shank with Flat & 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 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



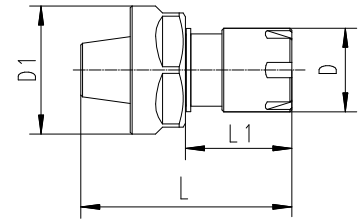
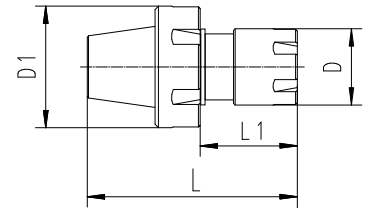


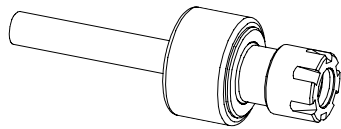
ERM | ERM  
ER | ERM

## 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 M	7060.32160	56	29.5	28	50	7111.32000 / 7113.16000
ER 32 / ER 20 M	7060.32200	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](mailto:sales@rego-fix.com) for Availability

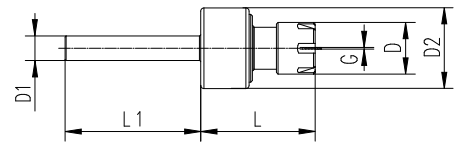




## Mini-Floating Chucks

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, spanner.





## SwissQuick powRgrip Reductions

Type	Part No.	L [mm]	D [mm]
Fine Thread Main Nut			
ER 20 M / PG 10	7661.20100	35.5	16
ER 25 M / PG 15	7661.25150	36	24
Coarse Thread Main Nut			
ER 20 / PG 10	7660.20100	35.5	16
ER 25 / PG 15	7660.25150	36	24

These holders can only be used with the powRgrip® Toolholding System. powRgrip® is a unique holding system that utilizes a special shallow tapered collet that is actually pressed into a matching holder, using one of the machine options noted below. This system delivers superior run-out, maximum clamping force, high vibration dampening, and the ultimate in ease-of-use toolholder assembly. More information can be found in the powRgrip® catalog (see back cover for ordering information)

## PGU 9006 | PGC 2506

### Automatic Machine & Inserts

Type	Part No.	Description
PGU 9006 A (PG10-PG32)	7610.90160	110 V Machine USA/Canada
APG 906	7611.06900	PG 6 clamping insert
APG 910	7611.10900	PG 10 clamping insert
APG 915	7611.15900	PG 15 clamping insert
APG 925	7611.25900	PG 25 clamping insert
APG 932	7611.32900	PG 32 clamping insert

PGU 9006 automatic clamping unit with push-button operation and auto clamping insert recognition. Designed to make operation easy, fast and reliable. Easy interchangeable inserts and safety interlocks make the machine safe for all operators.



### Handpump & Inserts

Type	Part No.	Description	Measurement W x D x H	Incl. Taper Cleaner
PGC 2506	7621.25069	powRgrip® Compact hydraulic clamping unit	450 x 492 x 280	
APC 25	7622.25000	Insert for PGC 2506 for PG 25 toolholders		■
APC 15	7622.15000	Insert for PGC 2506 for PG 15 toolholders		■
APC 10	7622.10000	Insert for PGC 2506 for PG 10 toolholders		■
APC 6	7622.06000	Insert for PGC 2506 for PG 6 toolholders		■

PGC hand pumps offer a price advantage over the PGU units while still performing the task of pressing in tools. The operator actuates the pressure by use of the lever arm until the desired pressure is achieved.

