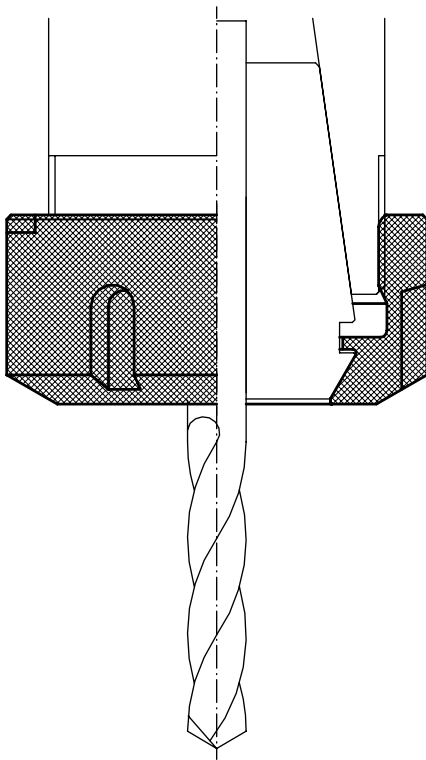


CLAMPING NUTS

4

FEATURES AND BENEFITS



Quality: Swiss-made to ISO 9001
 ⇒ Product consistency and worldwide acceptance

Material: High tensile strength steel
 ⇒ Reduced wear and increased life

Protection Against Corrosion: With a special treatment of the surface
 ⇒ Longer life

Collet Locking System: Hi-Q snap-in collet design
 ⇒ Retains collet in nut for easier assembly

Q+ Balancing: Balanced-by-design
 ⇒ Ideal for high-speed applications

Wide Product Range: Sizes ER 8- 50, in many different types:

- Friction-bearing
- Coolant through tools
- Mini-nut
- High-speed nuts (for high rpm)
- Externally threaded nut

⇒ Greater selection of specific products for virtually any application

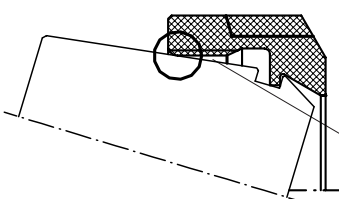
Marking: Type and size markings easy to read
 ⇒ Reduced selection errors

Product Traceability: Lot number marked on clamping nut
 ⇒ Quality control and accountability

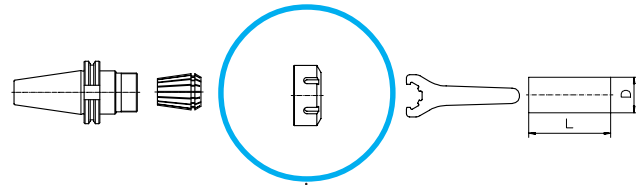
Higher Clamping Force: Resulting from special nut processing
 ⇒ Lower frictional forces resulting in up to 80% higher gripping force over standard non-treated clamping nuts

Matched Tooling System for Best Fit: ER collet, toolholder, clamping nut and spanner, all from **REGO-FIX®**
 ⇒ Whole system stands for highest precision and longest tool life

Ergonomy: Rounded thread start
 ⇒ Prevents damaging of collets on tool changes



CLAMPING NUTS



Hi-Q/ER

4

■ Hi-Q/ER STANDARD CLAMPING NUTS



The new **REGO-FIX®** Hi-Q nuts have the following benefits:

- Imbalance compensation for high speed applications
- Up to 80% higher clamping force
- New “Collet Locking System”
- Protection against corrosion



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

Maximum Imbalance [gmm]

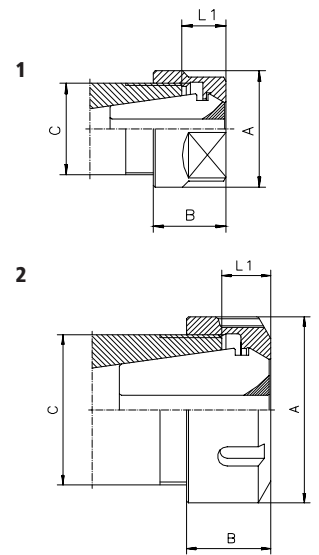
Torque Comparison Clamping Nuts UM/ER - Hi-Q/ER - Hi-Q/ERB

Torque Transferred to Tool

Hi-Q/ER

■ CLAMPING NUTS

Type	Part No.	Standard	With Friction Bearing Balanced	For Coolant Through Tools Collet Locking System	Mini-Nut	Nut with External Thread	A [mm]	B [mm]	C	L1 [mm]	Ma max*		Drawing
											[Nm]	[Nm]	
Hi-Q/ER 11	3411.00000	■	▲	⊗			19	11.3	M 14 x 0.75	4.4 ... 6.6	18	30	1
Hi-Q/ER 16	3416.00000	■	▲	⊗			28	17.5	M 22 x 1.5	6.1 ... 10.5	50	70	1
Hi-Q/ER 20	3420.00000	■	▲	⊗			34	19.0	M 25 x 1.5	7.1 ... 11.5	40	100	1
Hi-Q/ER 25	3425.00000	■	▲	⊗			42	20.0	M 32 x 1.5	7.6 ... 12.0	130	130	2
Hi-Q/ER 32	3432.00000	■	▲	⊗			50	22.5	M 40 x 1.5	8.6 ... 13.0	170	170	2
Hi-Q/ER 40	3440.00000	■	▲	⊗			63	25.5	M 50 x 1.5	10.6 ... 15.0	220	220	2
Hi-Q/ER 50	3450.00000	■	▲	⊗			78	35.3	M 64 x 2.0	12.2 ... 21.0	300	300	2

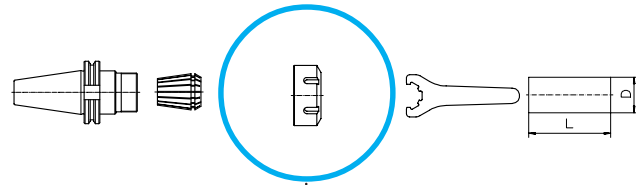


Ma* max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ MATCHING PRODUCTS

Size	Counter			Sealing Disks		For Collets		For Tapping Collets without Axial Compensation		For Tapping Collets with Axial Compensation		Spanner	Part No.	Page	
	Nut	Part No.	Page	Page	Page	Page	Page	Page							
ER 11	-	-	-	-	-	ER 11	2- 8	ER 11-GB	3-4	ET1-12	3-8		GS 17	7112.11000	12- 1
ER 16	CM/ER 16	3116.90000	12- 4	-	-	ER 16	2-10	ER 16-GB	3- 4	ET1-16	3-8		GS 25	7112.16000	12- 1
ER 20	CM/ER 20	3120.90000	12- 4	-	-	ER 20	2-12	ER 20-GB	3- 4	ET1-20	3-8		GS 30	7112.20000	12- 1
ER 25	CM/ER 25	3125.90000	12- 4	-	-	ER 25	2-14	ER 25-GB	3- 4	ET1-25	3-8		E 25	7111.25000	12- 1
ER 32	CM/ER 32	3132.90000	12- 4	-	-	ER 32	2-16	ER 32-GB	3- 4	ET1-32	3-8		E 32	7111.32000	12- 1
ER 40	CM/ER 40	3140.90000	12- 4	-	-	ER 40	2-18	ER 40-GB	3- 4	ET1-40	3-8		E 40	7111.40000	12- 1
ER 50	-	-	-	-	-	ER 50	2-20	-	-	-	-		E 50	7111.50000	12- 1

CLAMPING NUTS



Hi-Q/ERC

4

■ Hi-Q/ERC CLAMPING NUTS FOR COOLANT THROUGH TOOLS



The Hi-Q/ERC clamping nut is the internal cooling version for Hi-Q/ER clamping nuts. *This nut together with the coolant disk DS/ER allows the use of coolant through tools.*

The system offers the following benefits:

- Up to 150 bar (2'000 psi) coolant pressure
- Prebalanced for high speed applications
- Prevents dirt and chips from entering the collet
- The "Collet Locking System" prevents collets from falling out of the clamping nut upon assembly
- Corrosion resistant surface

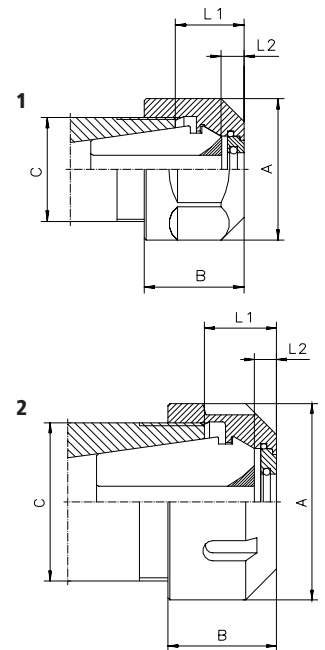
Caution: Higher clamping force of the clamping nut at the same time means higher stress on the toolholder. We recommend the use of REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers.

Hi-Q/ERC

CLAMPING NUTS

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	A	B	C	L1	L2	Ma max*		Drawing
									[mm]	[mm]		[mm]	[mm]	[Nm]	[Nm]	
Hi-Q/ERC 11	see page 4-8															
Hi-Q/ERC 16	3416.20000		▲	●	⊕				28	22.5	M 22 x 1.5	11.1 ... 15.5	5.0	50	70	1
Hi-Q/ERC 20	3420.20000		▲	●	⊕				34	24.0	M 25 x 1.5	12.1 ... 16.5	5.0	40	100	1
Hi-Q/ERC 25	3425.20000		▲	●	⊕				42	25.0	M 32 x 1.5	12.6 ... 17.0	5.0	130	130	2
Hi-Q/ERC 32	3432.20000		▲	●	⊕				50	27.5	M 40 x 1.5	13.6 ... 18.0	5.0	170	170	2
Hi-Q/ERC 40	3440.20000		▲	●	⊕				63	30.5	M 50 x 1.5	15.6 ... 20.0	5.0	220	220	2

* **Ma max** = maximum tightening torque[Nm]. Recommended torque = 80% of Ma max. Additional technical information on page 13- 7 and 13- 8.

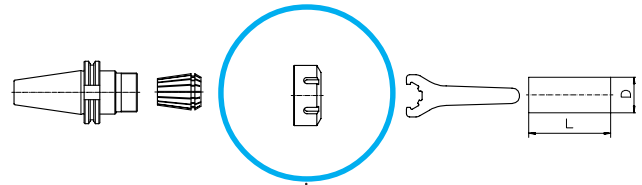


MATCHING PRODUCTS

Size	Counter Nut	Part No.	Page	Sealing Disks		Page	For Collets		Page	For Tapping Collets without Axial Compensation		Page	For Tapping Collets with Axial Compensation **		Page	Spanner	Part No.	Page
ER 11	-	-	-	-	-	-	ER 11	2- 8	ER 11-GB	3- 4	-	-	GS 17	7112.11000	12- 1			
ER 16	CM/ER 16	3116.90000	12- 4	DS/ER 16	4-20	ER 16	2-10	ER 16-GB	3- 4	-	-	GS 25	7112.16000	12- 1				
ER 20	CM/ER 20	3120.90000	12- 4	DS/ER 20	4-20	ER 20	2-12	ER 20-GB	3- 4	-	-	GS 30	7112.20000	12- 1				
ER 25	CM/ER 25	3125.90000	12- 4	DS/ER 25	4-22	ER 25	2-14	ER 25-GB	3- 4	-	-	E 25	7111.25000	12- 1				
ER 32	CM/ER 32	3132.90000	12- 4	DS/ER 32	4-22	ER 32	2-16	ER 32-GB	3- 4	-	-	E 32	7111.32000	12- 1				
ER 40	CM/ER 40	3140.90000	12- 4	DS/ER 40	4-24	ER 40	2-18	ER 40-GB	3- 4	-	-	E 40	7111.40000	12- 1				

** not recommended for coolant through applications

CLAMPING NUTS



Hi-Q/ERC 11

4

■ Hi-Q/ERC 11 CLAMPING NUTS WITH BUILT-IN SEALING SYSTEM



The Hi-Q/ERC 11 clamping nut for coolant through tools is the internal cooling version of the Hi-Q/ER 1 clamping nut.

This clamping nut does not require sealing disks. For different tool shank diameters please order the appropriate clamping nuts.

The system offers the following benefits:

- Up to 150 bar (2000 psi) coolant pressure
- Prebalanced for high-speed applications
- Prevents dirt and chips from entering the collet
- The "Collet Locking System" prevents collets from falling out of the clamping nut upon assembly
- Corrosion resistant surface

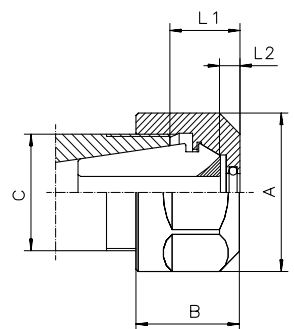
Caution: Higher clamping force of the clamping nut at the same time means higher stress on the toolholder. REGO-FIX® will not be responsible for damages to toolholders or spindles of other manufacturers. We recommend the use of REGO-FIX® torque wrench.

Hi-Q/ERC 11

■ CLAMPING NUTS

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools Collet Locking System	Mini-Nut	Nut with External Thread	Sealing Capacity		
								[mm]	[inch]	Ø [inch]
Hi-Q / ERC 11 Ø 3.0	3411.20300		▲	●	⊕			3.00 ... 2.50	0.1181 ... 0.0984	3/32"
Hi-Q / ERC 11 Ø 3.5	3411.20350		▲	●	⊕			3.50 ... 3.00	0.1378 ... 0.1181	1/8"
Hi-Q / ERC 11 Ø 4.0	3411.20400		▲	●	⊕			4.00 ... 3.50	0.1575 ... 0.1378	5/32"
Hi-Q / ERC 11 Ø 4.5	3411.20450		▲	●	⊕			4.50 ... 4.00	0.1772 ... 0.1575	
Hi-Q / ERC 11 Ø 5.0	3411.20500		▲	●	⊕			5.00 ... 4.50	0.1969 ... 0.1772	3/16"
Hi-Q / ERC 11 Ø 5.5	3411.20550		▲	●	⊕			5.50 ... 5.00	0.2165 ... 0.1969	7/32"
Hi-Q / ERC 11 Ø 6.0	3411.20600		▲	●	⊕			6.00 ... 5.50	0.2362 ... 0.2165	
Hi-Q / ERC 11 Ø 6.5	3411.20650		▲	●	⊕			6.50 ... 6.00	0.2559 ... 0.2362	1/4"
Hi-Q / ERC 11 Ø 7.0	3411.20700		▲	●	⊕			7.00 ... 6.50	0.2756 ... 0.2559	

Type	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Ma max*	
						[Nm]	[Nm]
Hi-Q / ERC 11	19	14.6	M14 x 0,75	7.6 ... 9.8	3.5	18	30



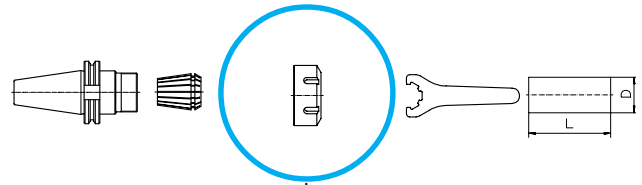
* **Ma max** = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13-7 and 13-8.

For other sizes see page 4-6.

■ MATCHING PRODUCTS

Size	Counter		Page	Sealing Disks	Page	For Collets	Page	For Tapping Collets Without Axial Compensation	Page	For Tapping Collets with Axial Compensation **	Page	Spanner	Part No.	Page
	Nut	Part No.												
ER 11	-	-	-	-	-	ER 11	2-8	ER 11-GB	3-4	-	-	GS 17	7112.11000	12-1

CLAMPING NUTS



Hi-Q/ERB
Hi-Q/ERBC

4

■ *Hi-Q/ERB FRICTION-BEARING CLAMPING NUTS*



The **REGO-FIX**® Hi-Q/ERB is a friction-bearing nut that offers the highest clamping force available; more than twice the clamping force of standard nuts. It is interchangeable with all other nuts per DIN STD 6499.

These clamping nuts also offer the new "Collet Locking System". The Hi-Q/ERB clamping nut replaces the GM/ER clamping nut .

Other clamping nuts with the friction-bearing system are listed on the following pages.

■ *Hi-Q/ERBC FRICTION BEARING CLAMPING NUTS FOR COOLANT THROUGH TOOLS*



The **REGO-FIX**® Hi-Q/ERBC is a friction-bearing, coolant through tools clamping nut that offers high clamping force: twice as much as that of standard nuts. The Hi-Q/ERBC clamping nut replaces the KC/ER clamping nut. It is interchangeable with other nuts per DIN STD 6499.

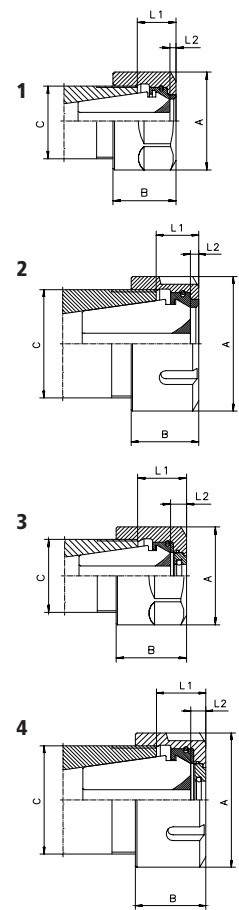
The system offers the following benefits:

- Up to 150 bar (2'000 psi) coolant pressure
- All **REGO-FIX**® collets can be used
- Prevents dirt and chips from entering the collet
- Interchangeable with all other nuts per DIN STD 6499

Hi-Q/ERB
Hi-Q/ERBC

■ **CLAMPING NUTS**

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	A	B	C	L1	L2	Ma max*		Drawing
									[mm]	[mm]		[mm]	[mm]	[Nm]	[Nm]	
Hi-Q/ERB 16	3416.30000	☐	☐	☐	☐	☐	☐	☐	28	20.2	M 22 x 1.5	9.2 ... 13.6	3.0	50	70	1
Hi-Q/ERB 20	3420.30000	☐	☐	☐	☐	☐	☐	☐	34	21.7	M 25 x 1.5	10.1 ... 14.5	3.0	30	100	1
Hi-Q/ERB 25	3425.30000	☐	☐	☐	☐	☐	☐	☐	42	22.6	M 32 x 1.5	10.6 ... 15.0	3.0	90	130	2
Hi-Q/ERB 32	3432.30000	☐	☐	☐	☐	☐	☐	☐	50	25.0	M 40 x 1.5	11.6 ... 16.0	3.0	130	170	2
Hi-Q/ERB 40	3440.30000	☐	☐	☐	☐	☐	☐	☐	63	28.2	M 50 x 1.5	13.6 ... 18.0	3.0	220	220	2
Hi-Q/ERB 50	3450.30000	☐	☐	☐	☐	☐	☐	☐	78	38.1	M 64 x 2.0	15.2 ... 24.0	3.0	300	300	2
Hi-Q/ERBC 16	3416.40000	☐	☐	☐	☐	☐	☐	☐	28	22.7	M 22 x 1.5	11.6 ... 16.0	5.5	50	70	3
Hi-Q/ERBC 20	3420.40000	☐	☐	☐	☐	☐	☐	☐	34	24.2	M 25 x 1.5	12.6 ... 17.0	5.5	30	100	3
Hi-Q/ERBC 25	3425.40000	☐	☐	☐	☐	☐	☐	☐	42	25.2	M 32 x 1.5	13.1 ... 17.5	5.5	90	130	4
Hi-Q/ERBC 32	3432.40000	☐	☐	☐	☐	☐	☐	☐	50	27.4	M 40 x 1.5	14.1 ... 18.5	5.5	130	170	4
Hi-Q/ERBC 40	3440.40000	☐	☐	☐	☐	☐	☐	☐	63	30.7	M 50 x 1.5	16.1 ... 20.5	5.5	220	220	4



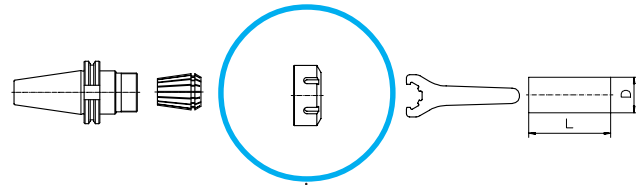
*Ma max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ **MATCHING PRODUCTS**

Size	Counter Nut		Page	Sealing Disks (for Hi-Q/ERBC only)	Page	For Collets	Page	For Tapping Collets without Axial Compensation	Page	For Tapping Collets with Axial Compensation**	Page	Spanner	Part No.	Page	
	Part No.	Page													
ER 16	CM/ER 16	3116.90000	12- 4	DS/ER 16	4-20	ER 16	2-10	ER 16-GB	3- 4	ET1-16	3- 8	☞	GS 25	7112.16000	12- 1
ER 20	CM/ER 20	3120.90000	12- 4	DS/ER 20	4-20	ER 20	2-12	ER 20-GB	3- 4	ET1-20	3- 8	☞	GS 30	7112.20000	12- 1
ER 25	CM/ER 25	3125.90000	12- 4	DS/ER 25	4-22	ER 25	2-14	ER 25-GB	3- 4	ET1-25	3- 8	☞	E 25	7111.25000	12- 1
ER 32	CM/ER 32	3132.90000	12- 4	DS/ER 32	4-22	ER 32	2-16	ER 32-GB	3- 4	ET1-32	3- 8	☞	E 32	7111.32000	12- 1
ER 40	CM/ER 40	3140.90000	12- 4	DS/ER 40	4-24	ER 40	2-18	ER 40-GB	3- 4	ET1-40	3- 8	☞	E 40	7111.40000	12- 1
ER 50	-	-	-	-	-	ER 50	2-20	-	-	-	-	☞	E 50	7111.50000	12- 1

** not recommended for coolant through applications

CLAMPING NUTS



Hi-Q/ERM
Hi-Q/ERMC

4

■ *Hi-Q/ERM CLAMPING NUTS WITH MINIMAL EXTERNAL DIAMETER*



The **REGO-FIX®** Hi-Q/ERM mini clamping nut is recommended for use where minimal external diameters are important. For example, it is ideal for multi-spindle drilling heads and collet holder extensions. The corresponding spanners have the same external dimensions as the clamping nuts.

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

■ *Hi-Q/ERMC COOLANT THROUGH TOOLS CLAMPING NUTS WITH MINIMAL EXTERNAL DIAMETER*



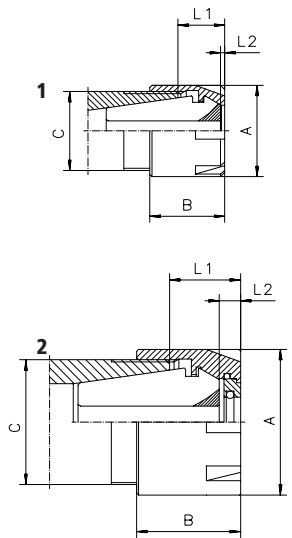
The Hi-Q/ERMC coolant through tools clamping nut is the internal coolant version of the Hi-Q/ERM clamping nut. Together with the sealant disks this nut allows the use of the standard ER collet system for internally cooled tools. This system has many advantages over other sealing systems:

- High pressure, up to 150 bar (2'000 psi)
- All **REGO-FIX®** collets can be used
- Use of regular ER collets
- Prevents dirt and chips from entering the collet

Hi-Q/ERM
Hi-Q/ERMC

■ CLAMPING NUTS

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	A	B	C	L1	L2	Ma max*		Drawing
									[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[Nm]	
Hi-Q/ERM 8	3508.00000		▲						12	10.8	M 10 x 0.75	4.3 ... 6.1	1.5	6	6	1
Hi-Q/ERM 11	3511.00000		▲						16	12.0	M 13 x 0.75	5.3 ... 7.5	0.9	15	20	1
Hi-Q/ERM 16	3516.00000		▲						22	18.4	M 19 x 1.00	7.1 ... 11.5	0.9	30	30	1
Hi-Q/ERM 20	3520.00000		▲						28	19.0	M 24 x 1.00	7.1 ... 11.5	-	35	35	1
Hi-Q/ERM 25	3525.00000		▲						35	20.0	M 30 x 1.00	7.6 ... 12.0	-	40	40	1
Hi-Q/ERMC 11	see page 4-14															
Hi-Q/ERMC 16	3516.20000		▲	●					22	22.5	M 19 x 1.00	10.6 ... 15.0	5.0	30	30	2
Hi-Q/ERMC 20	3520.20000		▲	●					28	24.0	M 24 x 1.00	12.1 ... 16.5	5.0	35	35	2
Hi-Q/ERMC 25	3525.20000		▲	●					35	25.0	M 30 x 1.00	12.6 ... 17.0	5.0	40	40	2

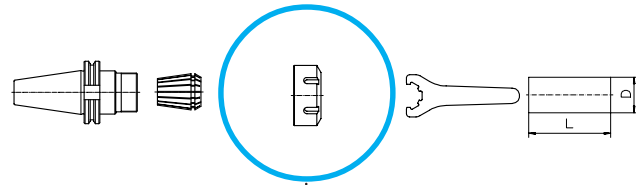


*Ma max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ MATCHING PRODUCTS

Counter		Part No.	Page	Sealing Disks (for Hi-Q/ERMC only)	Page	For Collets	Page	For Tapping Collets Without Axial Compensation	Page	For Tapping Collets with Axial Compensation**	Page	Spanner	Part No.	Page
Size	Nut													
ER 8	-	-	-	-	-	ER 8	2- 6	-	-	-	-	E 8 M	7113.08000	12- 1
ER 11	-	-	-	-	-	ER 11	2- 8	ER 11-GB	3- 4	ET1-12	3-10	E 11 M	7113.11000	12- 1
ER 16	-	-	-	DS/ER 16	4-20	ER 16	2-10	ER 16-GB	3- 4	ET1-16	3-10	E 16 M	7113.16000	12- 1
ER 20	-	-	-	DS/ER 20	4-20	ER 20	2-12	ER 20-GB	3- 4	ET1-20	3-10	E 20 M	7113.20000	12- 1
ER 25	-	-	-	DS/ER 25	4-22	ER 25	2-14	ER 25-GB	3- 4	ET1-25	3-10	E 25 M	7113.25000	12- 1

** not recommended for coolant through applications



Hi-Q/ERMC 11

4

■ Hi-Q/ERMC 11 CLAMPING NUTS WITH BUILT-IN SEALING SYSTEM



The Hi-Q/ERMC 11 clamping nut is recommended for use where minimal external diameters are important. It is the coolant through tools version of the Hi-Q/ERM11 clamping nut.

This clamping nut does not require sealing disks. For different tool shank diameters please order the appropriate clamping nuts.

The system offers the following benefits:

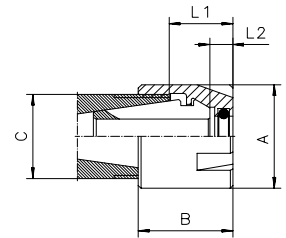
- Up to 150 bar (2000 psi) coolant pressure
- Prebalanced for high-speed applications
- Prevents dirt and chips from entering the collet
- The "Collet Locking System" prevents collets from falling out of the clamping nut upon assembly
- Corrosion resistant surface

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

Hi-Q/ERMC 11

■ CLAMPING NUTS

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	Sealing [mm]	Capacity [inch]	Ø [inch]
Hi-Q / ERM 11 Ø 3.0 mm	3511.20300		▲	●	☐	☐	☐		3.00 ... 2.50	0.1181 ... 0.0984	3/32"
Hi-Q / ERM 11 Ø 3.5 mm	3511.20350		▲	●	☐	☐	☐		3.50 ... 3.00	0.1378 ... 0.1181	1/8"
Hi-Q / ERM 11 Ø 4.0 mm	3511.20400		▲	●	☐	☐	☐		4.00 ... 3.50	0.1575 ... 0.1378	5/32"
Hi-Q / ERM 11 Ø 4.5 mm	3511.20450		▲	●	☐	☐	☐		4.50 ... 4.00	0.1772 ... 0.1575	
Hi-Q / ERM 11 Ø 5.0 mm	3511.20500		▲	●	☐	☐	☐		5.00 ... 4.50	0.1969 ... 0.1772	3/16"
Hi-Q / ERM 11 Ø 5.5 mm	3511.20550		▲	●	☐	☐	☐		5.50 ... 5.00	0.2165 ... 0.1969	7/32"
Hi-Q / ERM 11 Ø 6.0 mm	3511.20600		▲	●	☐	☐	☐		6.00 ... 5.50	0.2362 ... 0.2165	
Hi-Q / ERM 11 Ø 6.5 mm	3511.20650		▲	●	☐	☐	☐		6.50 ... 6.00	0.2559 ... 0.2362	1/4"
Hi-Q / ERM 11 Ø 7.0 mm	3511.20700		▲	●	☐	☐	☐		7.00 ... 6.50	0.2756 ... 0.2559	



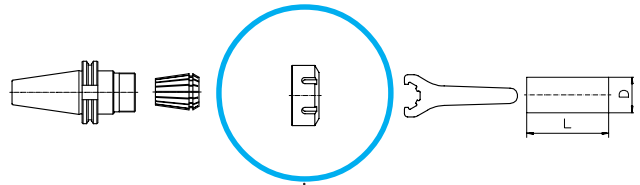
Type	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Ma max*	
						[Nm]	[Nm]
Hi-Q / ERM 11	16	14.6	M13 x 0,75	7.6 ... 9.8	3.5	15	20

Ma* max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ MATCHING PRODUCTS

Size	Counter Nut	Part No.	Page	Sealing Disks	Page	For Collets	Page	For Tapping Collets without Axial Compensation	Page	For Tapping Collets with Axial Compensation	Page	Spanner	Part No.	Page
ER 11	-	-	-	-	-	ER 11	2- 8	ER 11 GB	3-4	-	-	E 11 M	7113.11000	12- 1

CLAMPING NUTS



ER MS

4

■ ER MS CLAMPING NUTS WITH MINIMAL EXTERNAL DIAMETER



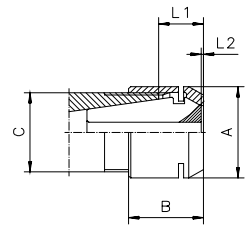
The **REGO-FIX**® ER MS clamping nut for highest RPM with minimal external diameter does not have the extractor ring and all the contours are ground. This provides best balancing for critical high-speed machining applications. The collet is released with the special EMS spanner. ER MS nuts are also interchangeable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

With the ER MS clamping nuts we recommend using ER-UP (ultra-precision) collets to achieve the highest concentricity. The design of the ER MS clamping nut allows high speed machining with low noise.

ER MS

■ **CLAMPING NUTS**

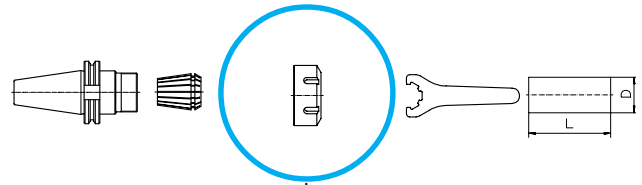
Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	Ma max* [Nm]
ER 8 MS	3208.50000		▲			■	■		12	10.8	M 10 x 0.75	4.3 ... 6.1	1.5	6
ER 11 MS	3211.50000		▲			■	■		16	11.5	M 13 x 0.75	4.6 ... 6.8	0.4	12
ER 16 MS	3216.50000		▲			■	■		22	17.8	M 19 x 1.00	6.1 ... 10.5	0.3	18
ER 20 MS	3220.50000		▲			■	■		28	19.0	M 24 x 1.00	7.1 ... 11.5	0.3	23



*Ma max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ **MATCHING PRODUCTS**

Size	Counter Nut	Part No.	Page	Sealing Disks	Page	For Collets	Page	For Tapping Collets without Axial Compensation	Page	For Tapping Collets with Axial Compensation	Page	Spanner	Part No.	Page	
ER 8	-	-	-	-	-	ER 8	2- 6	-	-	-	-		E 8 MS	7114.08000	12- 1
ER 11	-	-	-	-	-	ER 11	2- 8	-	-	-	-		E 11 MS	7114.11000	12- 1
ER 16	-	-	-	-	-	ER 16	2-10	-	-	-	-		E 16 MS	7114.16000	12- 1
ER 20	-	-	-	-	-	ER 20	2-12	-	-	-	-		E 20 MS	7114.20000	12- 1



Hi-Q/ERAX *Hi-Q/ERAXC*

■ *Hi-Q/ERAX CLAMPING NUTS WITH EXTERNAL THREAD*



The **REGO-FIX**® Hi-Q/ERAX clamping nut is an external threaded nut designed for special applications where it is necessary that the nut is flush with the end of the toolholder. The corresponding spanner is inserted from the front side. This allows optional tooling to be mounted around the collet area allowing for combined drilling and turning applications.

The Hi-Q/ERAX clamping nut is adapted in **REGO-FIX**® floating chucks and other collet holders with internal thread.

■ *Hi-Q/ERAXC CLAMPING NUTS FOR COOLANT THROUGH TOOLS WITH EXTERNAL THREAD*



The **REGO-FIX**® Hi-Q/ERAXC is a coolant through tools version of the Hi-Q/ERAX nut. This nut together with the sealing disk DS/ER allows the use of internally cooled tools

This system offers the following advantages:

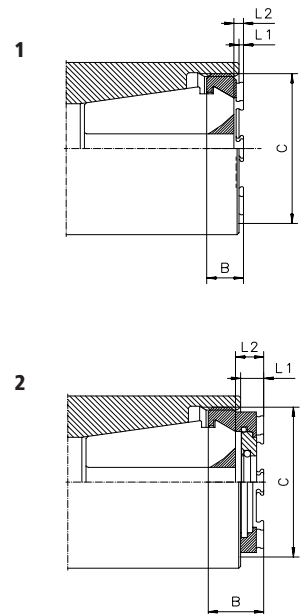
- Safety features prevent wrench from slipping off the clamping nut when tightening
- Higher transmittable torque
- Minimal length
- Coolant pressure up to 150 bar (2000 psi)
- Prebalanced for high-speed applications
- System prevents dirt and chips from entering the collet
- The "Collet Locking System" prevents collets from falling out of the clamping nut upon assembly
- Corrosion resistant surface

Hi-Q/ERAX
Hi-Q/ERAXC

■ **CLAMPING NUTS**

4

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	B [mm]	C	L1 [mm]	L2 [mm]	Ma max* [Nm]	Drawing
Hi-Q/ERAX 11	3311.60000		▲		☐	☐	☐	☐	7.5	M 18 x 1.0	1.0 ... 3.2	3.9	30	1
Hi-Q/ERAX 16	3316.60000		▲		☐	☐	☐	☐	7.6	M 24 x 1.0	0.0 ... 2.6	2.3	50	1
Hi-Q/ERAX 20	3320.60000		▲		☐	☐	☐	☐	8.5	M 28 x 1.5	0.0 ... 2.5	2.3	65	1
Hi-Q/ERAX 25	3325.60000		▲		☐	☐	☐	☐	8.8	M 32 x 1.5	0.0 ... 1.9	2.3	100	1
Hi-Q/ERAX 32	3332.60000		▲		☐	☐	☐	☐	9.8	M 40 x 1.5	0.0 ... 1.1	2.5	130	1
Hi-Q/ERAX 40	3340.60000		▲		☐	☐	☐	☐	11.7	M 50 x 1.5	0.0 ... 1.0	2.4	160	1
Hi-Q/ERAXC 16	3316.70000		▲	●	☐	☐	☐	☐	12.5	M 24 x 1.0	3.1 ... 7.5	7.2	50	2
Hi-Q/ERAXC 20	3320.70000		▲	●	☐	☐	☐	☐	13.5	M 28 x 1.5	3.1 ... 7.5	7.3	65	2
Hi-Q/ERAXC 25	3325.70000		▲	●	☐	☐	☐	☐	13.8	M 32 x 1.5	2.5 ... 6.9	7.3	100	2
Hi-Q/ERAXC 32	3332.70000		▲	●	☐	☐	☐	☐	14.9	M 40 x 1.5	1.8 ... 6.2	7.6	130	2
Hi-Q/ERAXC 40	3340.70000		▲	●	☐	☐	☐	☐	16.6	M 50 x 1.5	1.5 ... 5.9	7.3	160	2



*Ma max = maximum tightening torque [Nm]. Recommended torque = 80% of Ma max.
Additional technical information on page 13- 7 and 13- 8.

■ **MATCHING PRODUCTS**

Size	Counter Nut	Part No.	Page	Sealing Disks (for Hi-Q/ERAXC only)	Page	For Collets	Page	For Tapping Collets without Axial Compensation	Page	For Tapping Collets with Axial Compensation **	Page	Spanner	Part No.	Page	
ER 11	-	-	-	-	-	ER 11	2- 8	ER 11-GB	3- 4	ET1-12	3- 8		E 11 AX	7117.11000	12- 1
ER 16	-	-	-	DS/ER 16	4-20	ER 16	2-10	ER 16-GB	3- 4	ET1-16	3- 8		E 16 AX	7117.16000	12- 1
ER 20	-	-	-	DS/ER 20	4-20	ER 20	2-12	ER 20-GB	3- 4	ET1-20	3- 8		E 20 AX	7117.20000	12- 1
ER 25	-	-	-	DS/ER 25	4-22	ER 25	2-14	ER 25-GB	3- 4	ET1-25	3- 8		E 25 AX	7117.25000	12- 1
ER 32	-	-	-	DS/ER 32	4-22	ER 32	2-16	ER 32-GB	3- 4	ET1-32	3- 8		E 32 AX	7117.32000	12- 1
ER 40	-	-	-	DS/ER 40	4-24	ER 40	2-18	ER 40-GB	3- 4	ET1-40	3- 8		E 40 AX	7117.40000	12- 1

** not recommended for coolant through applications