Clamping Nuts
Sealing Disks
Coolant Flush Disks

4

ER *SYSTEM*

Clamping Nuts

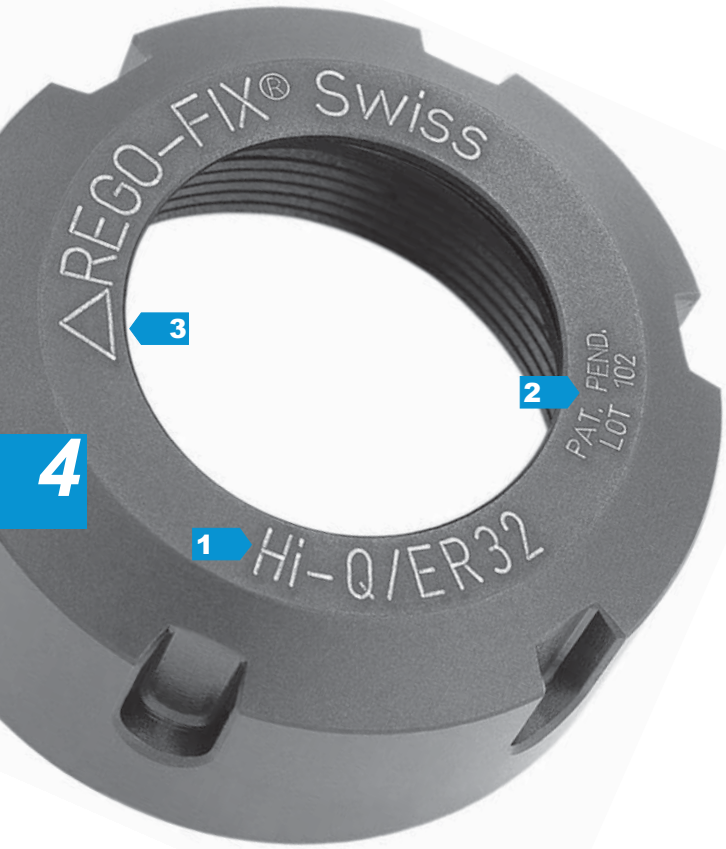
Sealing Disks

Coolant Flush Disks

rego fix Swiss Precision Tools

ER
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.

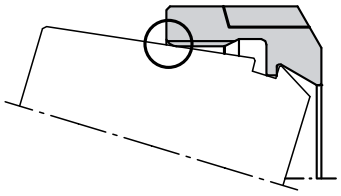
Collet Locking-System (pat. pend.)
Retains collet in nut for easier assembly.

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

Edition 11/2011

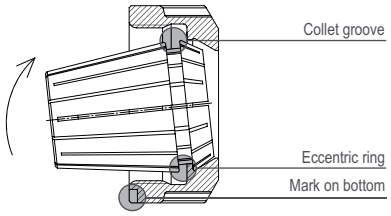
Mounting Instructions

DIN 6499/ISO 15488

Hi-Q® Clamping Nuts (pat. pend.)

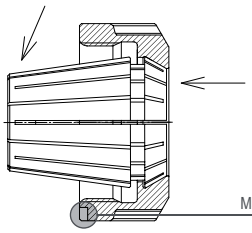
Assembling Collet

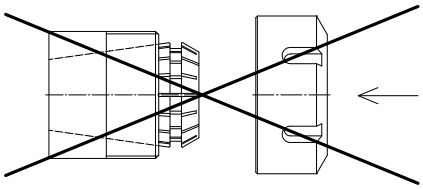
Insert groove of the collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in. Insert tool. Screw nut with collet onto tool holder.



Removing Collet

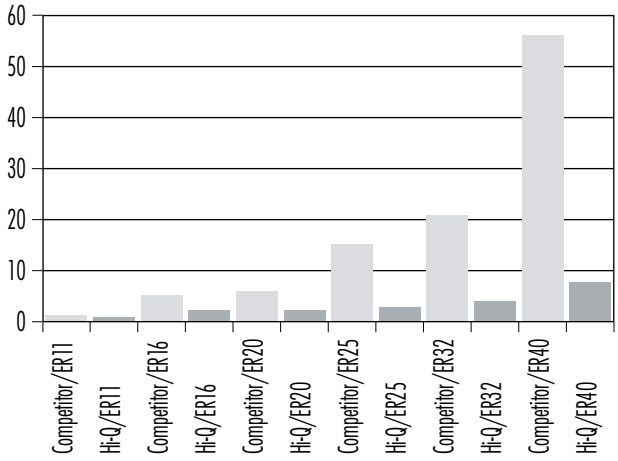
After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark until it disengages from the clamping nut.



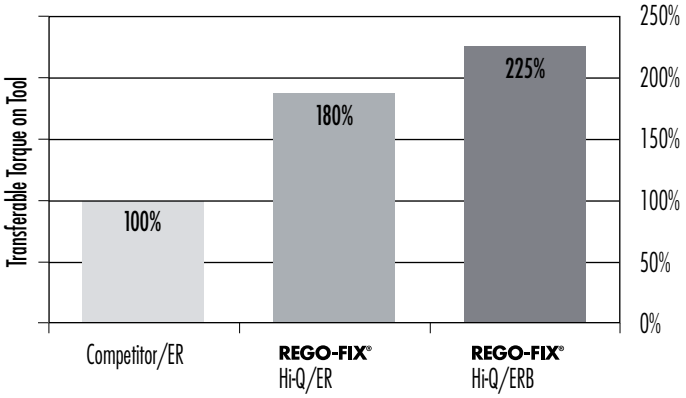


! Improper assembly can permanently damage the concentricity of the collet and may result in the destruction of the clamping nut.
Only mount nuts with correctly inserted collets! Never place the collet into the holder without first assembling into the nut.

Balancing Quality [gmm]

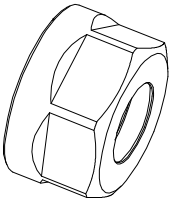


Torque Comparison of Clamping Nuts

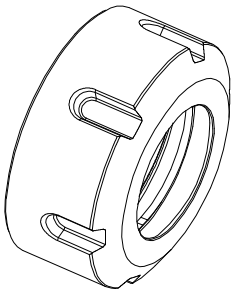


Features | Benefits

1 Hi-Q®/ER 11 – ER 20



2 Hi-Q®/ER 25 – ER 50



Standard

Hi-Q®/ER Clamping Nuts with corrosion resistant surface are standard on all REGO-FIX® ER toolholders.

■ Clamping nuts with left-hand thread upon request.

4

Matching Products

Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation	Page	Spanner	Page
ER 11	–	–	–	–	ER 11	2.8	ER 11-DM	2.22	ER 11-MB	2.8	ER 11–GB	3.4	ET1–12	3.8	E 11 P	12.1
ER 16	–	–	–	–	ER 16	2.10	ER 16-DM	2.24	ER 16-MB	2.10	ER 16–GB	3.4	ET1–16	3.8	E 16 P	12.1
ER 20	–	–	–	–	ER 20	2.12	ER 20-DM	2.26	–	–	ER 20–GB	3.4	ET1–20	3.8	E 20 P	12.1
ER 25	–	–	–	–	ER 25	2.14	ER 25-DM	2.28	–	–	ER 25–GB	3.4	ET1–25	3.8	E 25	12.1
ER 32	–	–	–	–	ER 32	2.16	ER 32-DM	2.30	–	–	ER 32–GB	3.4	ET1–32	3.8	E 32	12.1
ER 40	–	–	–	–	ER 40	2.18	ER 40-DM	2.32	–	–	ER 40–GB	3.4	ET1–40	3.8	E 40	12.1
ER 50	–	–	–	–	ER 50	2.20	–	–	–	–	ER 50–GB	3.4	–	–	E 50	12.1

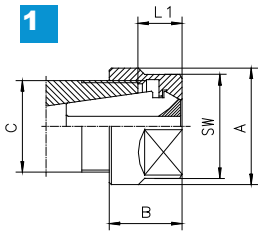
Edition 11/2011

Hi-Q® | ER
DIN 6499/ISO 15488

Hi-Q®/ER Standard

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]	SW	Drawing
Hi-Q / ER 11	3411.00000	■		■		■			19	11.3	M 14 x 0.75	4.9 - 6.6	17	1
Hi-Q / ER 16	3416.00000	■		■		■			28	17.5	M 22 x 1.50	7.0 - 10.5	25	1
Hi-Q / ER 20	3420.00000	■		■		■			34	19.0	M 25 x 1.50	8.0 - 11.5	30	1
Hi-Q / ER 25	3425.00000	■		■		■			42	20.0	M 32 x 1.50	8.5 - 12.0	-	2
Hi-Q / ER 32	3432.00000	■		■		■			50	22.5	M 40 x 1.50	9.5 - 13.0	-	2
Hi-Q / ER 40	3440.00000	■		■		■			63	25.5	M 50 x 1.50	11.5 - 15.0	-	2
Hi-Q / ER 50	3450.00000	■		■		■			78	35.3	M 64 x 2.00	14.0 - 21.0	-	2

1



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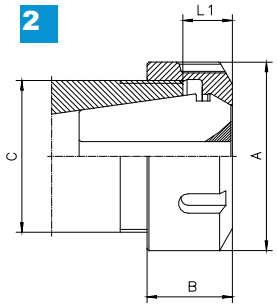


4

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

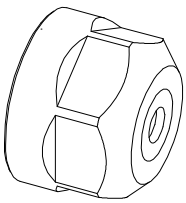
Recommended tightening torque on page 13.3/13.4.

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

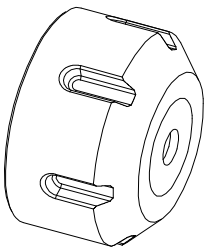
Edition 11/2011

Features | Benefits

1 Hi-Q®/ERC 11 – ERC 20



2 Hi-Q®/ERC 25 – ERC 40



Application with Sealing Disk / Coolant Flush Disk

The Hi-Q®/ERC clamping nut is intended for use with the sealing disk system DS/ER and the cool flush system KS/ER. The disk system allows the use of all standard ER collets, 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.
See page 4.27/4.28.

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

Matching Products

Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation*	Page	Spanner	Page
ER 11	–	–	–	–	ER11	2.8	–	–	ER 11-MB	2.8	ER 11–GB	3.4	–	–	E 11 P	12.1
ER 16	DS / ER 16	4.22	KS / ER 16	4.28	ER 16	2.10	–	–	ER 16-MB	2.10	ER 16–GB	3.4	–	–	E 16 P	12.1
ER 20	DS / ER 20	4.22	KS / ER 20	4.28	ER 20	2.12	–	–	–	–	ER 20–GB	3.4	–	–	E 20 P	12.1
ER 25	DS / ER 25	4.24	KS / ER 25	4.28	ER 25	2.14	–	–	–	–	ER 25–GB	3.4	–	–	E 25	12.1
ER 32	DS / ER 32	4.24	KS / ER 32	4.28	ER 32	2.16	–	–	–	–	ER 32–GB	3.4	–	–	E 32	12.1
ER 40	DS / ER 40	4.26	–	–	ER 40	2.18	–	–	–	–	ER 40–GB	3.4	–	–	E 40	12.1
ER 50	–	–	–	–	ER 50	2.20	–	–	–	–	ER 50–GB	3.4	–	–	E 50	12.1

*Not for coolant through tools.

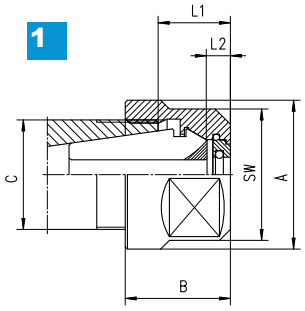
Hi-Q® | ERC

Hi-Q® ERC Clamping Nuts for Coolant Through Tools

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]	SW	Drawing
Hi-Q / ERC 16	3416.20000			■	■	■			28	22.5	M 22 x 1.50	12.0 - 15.5	5.0	25	1
Hi-Q / ERC 20	3420.20000			■	■	■			34	24.0	M 25 x 1.50	13.0 - 16.5	5.0	30	1
Hi-Q / ERC 25	3425.20000			■	■	■			42	25.0	M 32 x 1.50	13.5 - 17.0	5.0		2
Hi-Q / ERC 32	3432.20000			■	■	■			50	27.5	M 40 x 1.50	14.5 - 18.0	5.0		2
Hi-Q / ERC 40	3440.20000			■	■	■			63	30.5	M 50 x 1.50	16.5 - 20.0	5.0		2

Hi-Q/ERC 11 see page 4.8.

1



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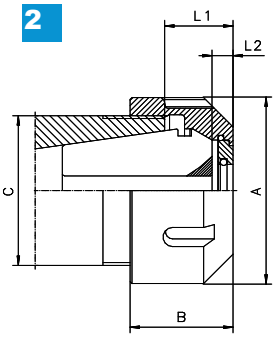


4

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

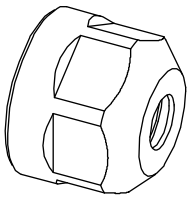
Recommended tightening torque on page 13.3/13.4.

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

Edition 11/2011

ER
Clamping Nuts

Features | Benefits



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

Does not Require Sealing Disks
The sealing system is built into the clamping nut.

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

Matching Products

Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation*	Page	Spanner	Page
ER 11	–	–	–	–	ER 11	2.8	–	–	ER 11-MB	2.8	ER 11–GB	3.4	–	–	E 11 P	12.1

*Not for coolant through tools.

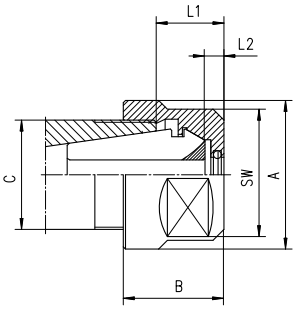
Edition 11/2011

Hi-Q® | ERC 11

Clamping Nuts with Built-In Sealing System

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]
Hi-Q / ERC 11 3,0 mm	3411.20300			■	■	■			3.00 - 2.50	0.1181 - 0.0984	3/32"
Hi-Q / ERC 11 3,5 mm	3411.20350			■	■	■			3.50 - 3.00	0.1378 - 0.1181	1/8"
Hi-Q / ERC 11 4,0 mm	3411.20400			■	■	■			4.00 - 3.50	0.1575 - 0.1378	5/32"
Hi-Q / ERC 11 4,5 mm	3411.20450			■	■	■			4.50 - 4.00	0.1772 - 0.1575	-
Hi-Q / ERC 11 5,0 mm	3411.20500			■	■	■			5.00 - 4.50	0.1969 - 0.1772	3/16"
Hi-Q / ERC 11 5,5 mm	3411.20550			■	■	■			5.50 - 5.00	0.2165 - 0.1969	7/32"
Hi-Q / ERC 11 6,0 mm	3411.20600			■	■	■			6.00 - 5.50	0.2362 - 0.2165	-
Hi-Q / ERC 11 6,5 mm	3411.20650			■	■	■			6.50 - 6.00	0.2559 - 0.2362	1/4"
Hi-Q / ERC 11 7,0 mm	3411.20700			■	■	■			7.00 - 6.50	0.2756 - 0.2559	-

Type	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]	SW
Hi-Q/ERC 11	19	14.6	M 14 x 0.75	8.10 – 9.80	3.5	17



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

Recommended tightening torque on page 13.3/13.4.

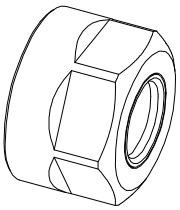
Higher clamping force of the clamping nut at the same time means higher stress on the toolholer. We recommend the use of REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to tool-holders or spindles of other manufacturers.

Edition 11/2011

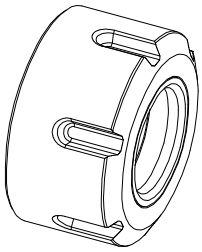
ER
Clamping Nuts

Features | Benefits

1 Hi-Q®/ERB 16 – ERB 20



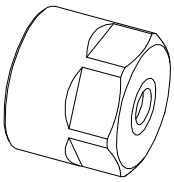
2 Hi-Q®/ERB 25 – ERB 50



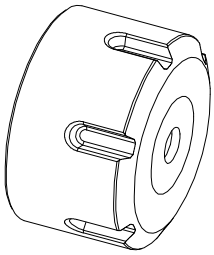
Application

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.

3 Hi-Q®/ERBC 16 – ERBC 20



4 Hi-Q®/ERBC 25 – ERBC 40



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.
See page 4.27/4.28.

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

Matching Products

Size	Sealing Disks**	Page	Coolant Flush Disks**	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation*	Page	Spanner	Page
ER 16	DS / ER 16	4.22	KS / ER 16	4.28	ER 16	2.10	ER 16-DM	2.24	ER 16-MB	2.10	ER 16–GB	3.4	ET1–16	3.8	E 16 P	12.1
ER 20	DS / ER 20	4.22	KS / ER 20	4.28	ER 20	2.12	ER 20-DM	2.26	–	–	ER 20–GB	3.4	ET1–20	3.8	E 20 P	12.1
ER 25	DS / ER 25	4.24	KS / ER 25	4.28	ER 25	2.14	ER 25-DM	2.28	–	–	ER 25–GB	3.4	ET1–25	3.8	E 25	12.1
ER 32	DS / ER 32	4.24	KS / ER 32	4.28	ER 32	2.16	ER 32-DM	2.30	–	–	ER 32–GB	3.4	ET1–32	3.8	E 32	12.1
ER 40	DS / ER 40	4.26	–	–	ER 40	2.18	ER 40-DM	2.32	–	–	ER 40–GB	3.4	ET1–40	3.8	E 40	12.1
ER 50	–	–	–	–	ER 50	2.20	–	–	–	–	ER 50–GB	3.4	–	–	E 50	12.1

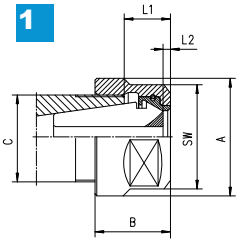
*Not for coolant through tools – use with Hi-Q/ERB clamping nut only. ** Use only with Hi-Q/ERBC.

Hi-Q® | ERB | ERBC

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

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]	SW	Drawing
Hi-Q / ERB 16	3416.30000		■	■		■			28	20.2	M 22 x 1.50	10.0 - 13.6	3.0	25	1
Hi-Q / ERB 20	3420.30000		■	■		■			34	21.7	M 25 x 1.50	11.0 - 14.5	3.0	30	1
Hi-Q / ERB 25	3425.30000		■	■		■			42	22.6	M 32 x 1.50	11.5 - 15.0	3.0	-	2
Hi-Q / ERB 32	3432.30000		■	■		■			50	25.0	M 40 x 1.50	12.5 - 16.0	3.0	-	2
Hi-Q / ERB 40	3440.30000		■	■		■			63	28.2	M 50 x 1.50	14.5 - 18.0	3.0	-	2
Hi-Q / ERB 50	3450.30000		■	■		■			78	38.1	M 64 x 2.00	17.0 - 24.0	3.0	-	2
Hi-Q / ERBC 16	3416.40000		■	■	■	■			28	22.7	M 22 x 1.50	12.5 - 16.0	5.5	25	3
Hi-Q / ERBC 20	3420.40000		■	■	■	■			34	24.2	M 25 x 1.50	13.5 - 17.0	5.5	30	3
Hi-Q / ERBC 25	3425.40000		■	■	■	■			42	25.2	M 32 x 1.50	14.0 - 17.5	5.5	-	4
Hi-Q / ERBC 32	3432.40000		■	■	■	■			50	27.4	M 40 x 1.50	15.0 - 18.5	5.5	-	4
Hi-Q / ERBC 40	3440.40000		■	■	■	■			63	30.7	M 50 x 1.50	17.0 - 20.5	5.5	-	4

1



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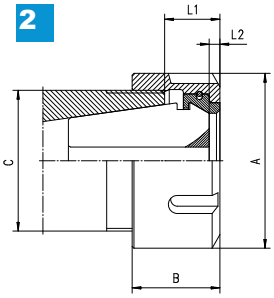

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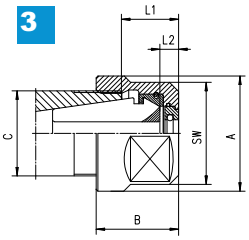

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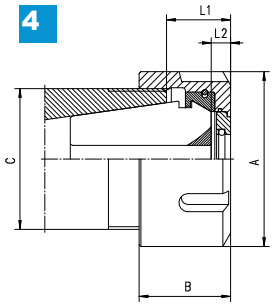


4

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

Recommended tightening torque on page 13.3/13.4.

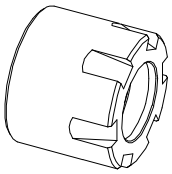
! Higher clamping force of the clamping nut at the same time means higher stress on the toolholer. We recommend the use of REGO-FIX® torque wrench. REGO-FIX® will not be responsible for damages to tool-holders or spindles of other manufacturers.

Edition 11/2011

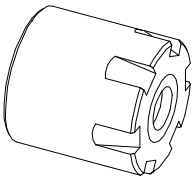
ER
Clamping Nuts

Features | Benefits

1 Hi-Q®/ERM



2 Hi-Q®/ERMC



4

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.

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.
See page 4.27/4.28.

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

Matching Products

Size	Sealing Disks**	Page	Coolant Flush Disks**	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation*	Page	Spanner	Page
ER 8	–	–	–	–	ER 8	2.8	–	–	ER 8-MB	2.6	–	3.4	–	3.8	E 8 M	12.1
ER 11	–	–	–	–	ER 11	2.8	ER 11-DM	2.22	ER 11-MB	2.8	ER 11–GB	3.4	ET1–12	3.8	E 11 M	12.1
ER 16	DS / ER 16	4.22	KS / ER 16	4.28	ER 16	2.10	ER 16-DM	2.24	ER 16-MB	2.10	ER 16–GB	3.4	ET1–16	3.8	E 16 M	12.1
ER 20	DS / ER 20	4.22	KS / ER 20	4.28	ER 20	2.12	ER 20-DM	2.26	–	–	ER 20–GB	3.4	ET1–20	3.8	E 20 M	12.1
ER 25	DS / ER 25	4.24	KS / ER 25	4.28	ER 25	2.14	ER 25-DM	2.28	–	–	ER 25–GB	3.4	ET1–25	3.8	E 25 M	12.1

*Not for coolant through tools – use with Hi-Q/ERM clamping nut only. **Use only with Hi-Q/ERMC.

Edition 11/2011

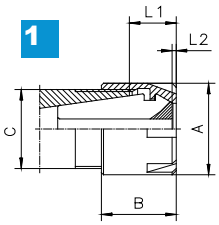
Hi-Q® | ERM | ERMC

Hi-Q®/ERM Clamping Nuts with Minimal External Diameter
Hi-Q®/ERMC Clamping Nuts with Minimal External Diameter for internal Cooling

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]	Drawing
Hi-Q / ERM 8	3508.00000			■			■		12	10.8	M 10 x 0.75	4.3 - 6.1	1.5	1
Hi-Q / ERM 11	3511.00000			■		■	■		16	12.0	M 13 x 0.75	5.7 - 7.5	0.9	1
Hi-Q / ERM 16	3516.00000			■		■	■		22	18.4	M 19 x 1.00	8.0 - 11.5	0.9	1
Hi-Q / ERM 20	3520.00000			■		■	■		28	19.0	M 24 x 1.00	8.0 - 11.5	-	1
Hi-Q / ERM 25	3525.00000			■		■	■		35	20.0	M 30 x 1.00	8.5 - 12.0	-	1
Hi-Q / ERMC 16	3516.20000			■	■	■	■		22	22.0	M 19 x 1.00	11.5 - 15.0	4.5	2
Hi-Q / ERMC 20	3520.20000			■	■	■	■		28	24.0	M 24 x 1.00	13.0 - 16.5	5.0	2
Hi-Q / ERMC 25	3525.20000			■	■	■	■		35	25.0	M 30 x 1.00	13.5 - 17.0	5.0	2

Hi-Q/ERMC 11 see page 4.14.

1



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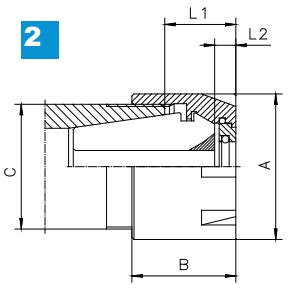


4

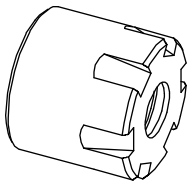
! The maximum torque shall not be more than 25% above the recommended tightening torque.

Recommended tightening torque on page 13.3/13.4.

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

Edition 11/2011

Features | Benefits



Application

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®/ERM 11 clamping nut.

Does not Require Sealing Disks

The sealing system is built into the clamping nut.

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

4

Matching Products

Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation	Page	Spanner	Page
ER 11	–	–	–	–	ER 11	2.8	–	–	ER 11-MB	2.8	ER 11–GB	3.4	–	–	E 11 M	12.1

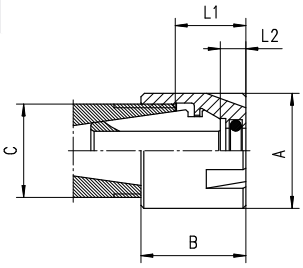
Hi-Q | ERMC 11

Hi-Q®/ERMC 11 Clamping Nuts with Build-In Sealing System

Type	Part No.	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System*	Mini-Nut	Nut with External Thread	Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]
Hi-Q / ERMC 11 3,0 mm	3511.20300			■	■	■	■		3.00 - 2.50	0.1181 - 0.0984	3/32"
Hi-Q / ERMC 11 3,5 mm	3511.20350			■	■	■	■		3.50 - 3.00	0.1378 - 0.1181	1/8"
Hi-Q / ERMC 11 4,0 mm	3511.20400			■	■	■	■		4.00 - 3.50	0.1575 - 0.1378	5/32"
Hi-Q / ERMC 11 4,5 mm	3511.20450			■	■	■	■		4.50 - 4.00	0.1772 - 0.1575	-
Hi-Q / ERMC 11 5,0 mm	3511.20500			■	■	■	■		5.00 - 4.50	0.1969 - 0.1772	3/16"
Hi-Q / ERMC 11 5,5 mm	3511.20550			■	■	■	■		5.50 - 5.00	0.2165 - 0.1969	7/32"
Hi-Q / ERMC 11 6,0 mm	3511.20600			■	■	■	■		6.00 - 5.50	0.2362 - 0.2165	-
Hi-Q / ERMC 11 6,5 mm	3511.20650			■	■	■	■		6.50 - 6.00	0.2559 - 0.2362	1/4"
Hi-Q / ERMC 11 7,0 mm	3511.20700			■	■	■	■		7.00 - 6.50	0.2756 - 0.2559	-

*Not applicable for tapping collets ER 11-GB.

Type	A [mm]	B [mm]	C	L1 [mm]	L2 [mm]
Hi-Q/ERMC 11	16	14.6	M 13 x 0.75	8.10 – 9.80	3.5



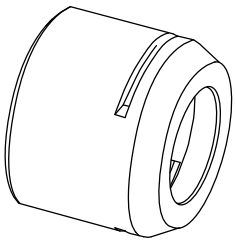
The maximum torque shall not be more than 25% above the recommended tightening torque.

Recommended tightening torque on page 13.3/13.4.

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

Edition 11/2011

ER
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 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 min^{-1}

Matching Products

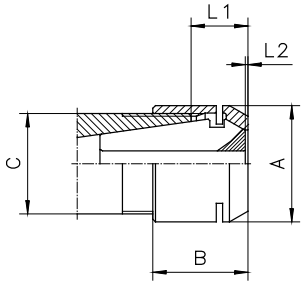
Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation	Page	Spanner	Page
ER 8	–	–	–	–	ER 8	2.8	–	–	ER 8-MB	2.6	–	3.4	–	3.8	E 8 MS	12.1
ER 11	–	–	–	–	ER 11	2.8	ER 11-DM	2.22	ER 11-MB	2.8	ER 11–GB	3.4	ET1–12	3.8	E 11 MS	12.1
ER 16	–	–	–	–	ER 16	2.10	ER 16-DM	2.24	ER 16-MB	2.10	ER 16–GB	3.4	ET1–16	3.8	E 16 MS	12.1
ER 20	–	–	–	–	ER 20	2.12	ER 20-DM	2.26	–	–	ER 20–GB	3.4	ET1–20	3.8	E 20 MS	12.1

Edition 11/2011

ER MS

ER MS Clamping Nuts for Highest RPM

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]
ER 8 MS	3208.50000			■			■		12	10.8	M 10 x 0.75	4.3 - 6.1	1.5
ER 11 MS	3211.50000			■			■		16	11.5	M 13 x 0.75	4.6 - 6.8	0.4
ER 16 MS	3216.50000			■			■		22	17.8	M 19 x 1.00	6.1 - 10.5	0.3
ER 20 MS	3220.50000			■			■		28	19.0	M 24 x 1.00	7.1 - 11.5	0.3



4

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

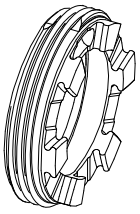
Recommended tightening torque on page 13.3/13.4.

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

Edition 11/2011

Features | Benefits

1 Hi-Q®/ERAX (pat. pend.)

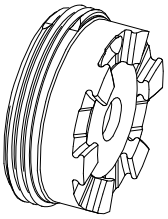


Application

For REGO-FIX® floating chucks and other ER toolholders with internal thread (such as ERA Zero-Z® colletholders, see page 5.4/6.4).

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

2 Hi-Q®/ERAXC (pat. pend.)



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.
See page 4.27/4.28.

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

Matching Products

Size	Sealing Disks	Page	Coolant Flush Disks	Page	Collets	Page	Metallic Sealed Collets	Page	Microbore Collets	Page	Tapping Collets without Axial Compensation	Page	Tapping Collets with Axial Compensation*	Page	Spanner	Page
ER 11	–	–	–	–	ER11	2.8	ER 11-DM	2.22	ER 11-MB	2.8	ER 11–GB	3.4	ET1–12	3.8	E 11 AX	12.1
ER 16	DS / ER 16	4.22	KS / ER 16	4.28	ER 16	2.10	ER 16-DM	2.24	ER 16-MB	2.10	ER 16–GB	3.4	ET1–16	3.8	E 16 AX	12.1
ER 20	DS / ER 20	4.22	KS / ER 20	4.28	ER 20	2.12	ER 20-DM	2.26	–	–	ER 20–GB	3.4	ET1–20	3.8	E 20 AX	12.1
ER 25	DS / ER 25	4.24	KS / ER 25	4.28	ER 25	2.14	ER 25-DM	2.28	–	–	ER 25–GB	3.4	ET1–25	3.8	E 25 AX	12.1
ER 32	DS / ER 32	4.24	KS / ER 32	4.28	ER 32	2.16	ER 32-DM	2.30	–	–	ER 32–GB	3.4	ET1–32	3.8	E 32 AX	12.1
ER 40	DS / ER 40	4.26	–	–	ER 40	2.18	ER 40-DM	2.32	–	–	ER 40–GB	3.4	ET1–40	3.8	E 40 AX	12.1

*Not for coolant through tools, use with Hi-Q/ERAX clamping nut only.

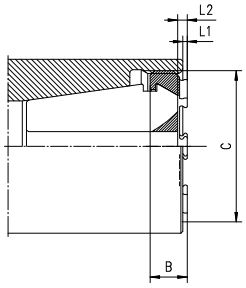
Hi-Q® | ERAX | ERAXC

Hi-Q®/ERAX Clamping Nuts with External Thread
Hi-Q®/ERAXC Clamping Nuts with External Thread for internal Cooling

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]	Drawing
Hi-Q / ERAX 11	3311.60000			■		■		■	7.5	M 18 x 1.00	1.0 - 3.2	3.9	1
Hi-Q / ERAX 16	3316.60000			■		■		■	7.6	M 24 x 1.00	0.0 - 2.6	2.3	1
Hi-Q / ERAX 20	3320.60000			■		■		■	8.5	M 28 x 1.50	0.0 - 2.5	2.3	1
Hi-Q / ERAX 25	3325.60000			■		■		■	8.8	M 32 x 1.50	0.0 - 1.9	2.3	1
Hi-Q / ERAX 32	3332.60000			■		■		■	9.8	M 40 x 1.50	0.0 - 1.1	2.5	1
Hi-Q / ERAX 40	3340.60000			■		■		■	11.7	M 50 x 1.50	0.0 - 1.0	2.4	1
Hi-Q / ERAXC 16	3316.70000			■	■	■		■	12.5	M 24 x 1.00	3.1 - 7.5	7.2	2
Hi-Q / ERAXC 20	3320.70000			■	■	■		■	13.5	M 28 x 1.50	3.1 - 7.5	7.3	2
Hi-Q / ERAXC 25	3325.70000			■	■	■		■	13.8	M 32 x 1.50	2.5 - 6.9	7.3	2
Hi-Q / ERAXC 32	3332.70000			■	■	■		■	14.9	M 40 x 1.50	1.8 - 6.2	7.6	2
Hi-Q / ERAXC 40	3340.70000			■	■	■		■	16.6	M 50 x 1.50	1.5 - 5.9	7.3	2

*Not applicable for tapping collets ER11-GB. Additional technical information see page 13.5/13.6.

1



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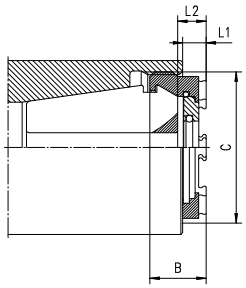


4

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

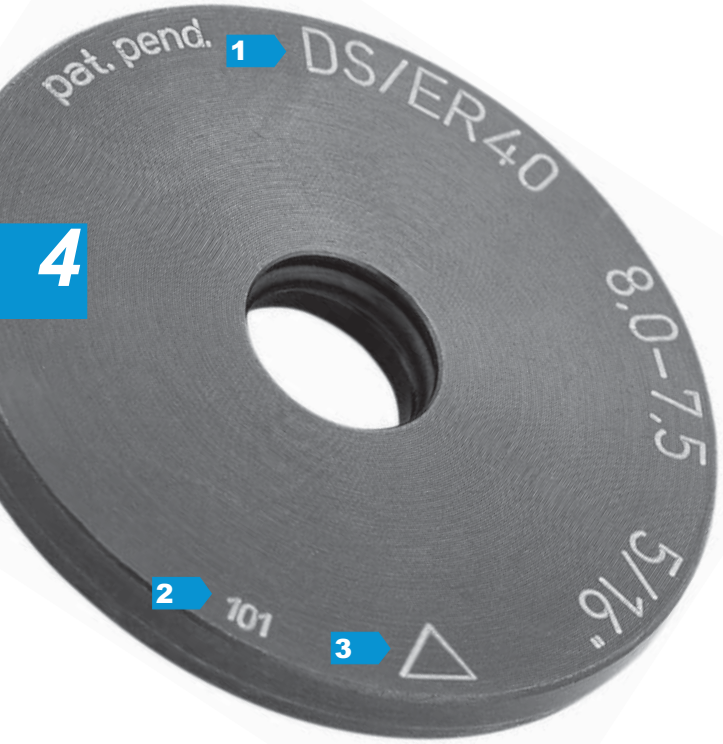
Recommended tightening torque on page 13.3/13.4.

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

Edition 11/2011

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.

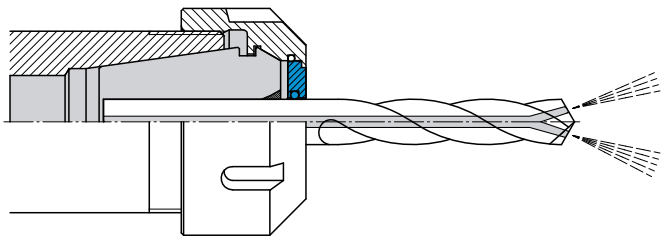
High Pressure
For applications up to 150 bar (2000 psi).

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, sealing disk and spanner 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.

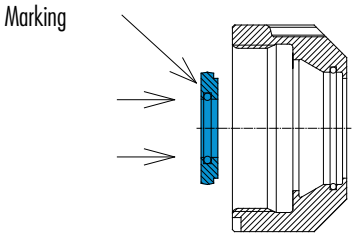
Edition 11/2011

Mounting Instructions

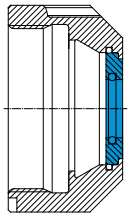
Sealing Disks DS/ER (pat. pend.)

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.

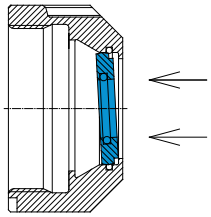


The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut.

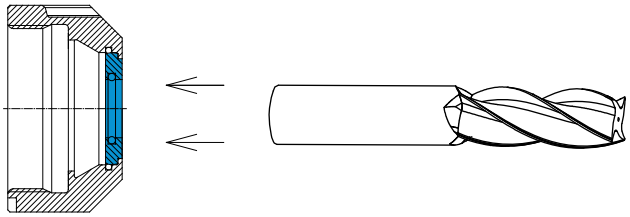


Removing

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.



Edition 11/2011

Matching Products

Clamping Nuts | Spanners

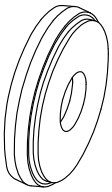
	Clamping Nut	Part No.	Page	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	Spanner	Part No.	Page
1	Hi-Q / ERC 16	3416.20000	4.6			■	■	■			E 16 P	7112.16010	12.1
	Hi-Q / ERBC 16	3416.40000	4.10		■	■	■	■			E 16 P	7112.16010	12.1
	Hi-Q / ERMC 16	3516.20000	4.12			■	■	■	■		E 16 M	7113.16000	12.1
	Hi-Q / ERAXC 16	3316.70000	4.18			■	■	■		■	E 16 AX	7117.16000	12.2
2	Hi-Q / ERC 20	3420.20000	4.6			■	■	■			E 20 P	7112.20010	12.1
	Hi-Q / ERBC 20	3420.40000	4.10		■	■	■	■			E 20 P	7112.20010	12.1
	Hi-Q / ERMC 20	3520.20000	4.12			■	■	■	■		E 20 M	7113.20000	12.1
	Hi-Q / ERAXC 20	3320.70000	4.18			■	■	■		■	E 20 AX	7117.20000	12.2

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, 1 tray DSR/16
Set DS / ER 20	3920.00000	3.50 – 13.00	20 sealing disks, 1 tray DSR/20

Tray
DS/ER 16 and DS/ER 20

Part Description	Part No.	Page
DSR / 16	7122.16000	12.6
DSR / 20	7122.20000	12.6



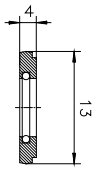
DS/ER 16 | DS/ER 20

Sealing Disks DS/ER 16 and DS/ER 20

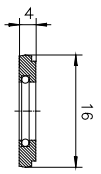
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 16 Part No.	DS/ER 20 Part No.
3.00 - 2.50	0.1181 - 0.0984	3/32"	3916.00300	3920.00300
3.50 - 3.00	0.1378 - 0.1181	1/8"	3916.00350*	3920.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32"	3916.00400*	3920.00400*
4.50 - 4.00	0.1772 - 0.1575		3916.00450*	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.

1 DS/ER 16



2 DS/ER 20



4

Edition 11/2011

Matching Products

Clamping Nuts | Spanners

4

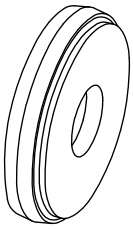
	Clamping Nut	Part No.	Page	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	Spanner	Part No.	Page
1	Hi-Q / ERC 25	3425.20000	4.6			■	■	■			E 25	7111.25000	12.1
	Hi-Q / ERBC 25	3425.40000	4.10		■	■	■	■			E 25	7111.25000	12.1
	Hi-Q / ERMC 25	3525.20000	4.12			■	■	■	■		E 25 M	7113.25000	12.1
	Hi-Q / ERAXC 25	3325.70000	4.18			■	■	■		■	E 25 AX	7117.25000	12.2
2	Hi-Q / ERC 32	3432.20000	4.6			■	■	■			E 32	7111.32000	12.1
	Hi-Q / ERBC 32	3432.40000	4.10		■	■	■	■			E 32	7111.32000	12.1
	Hi-Q / ERAXC 32	3332.70000	4.18			■	■	■		■	E 32 AX	7117.32000	12.2

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, 1 tray DSR/25
Set DS / ER 32	3932.00000	3.50 – 20.00	34 sealing disks, 1 tray DSR/32

Tray
DS/ER 25 and DS/ER 32

Part Description	Part No.	Page
DSR / 25	7122.25000	12.6
DSR / 32	7122.32000	12.6



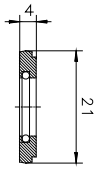
DS/ER 25 | DS/ER 32

Sealing Disks DS/ER 25 and DS/ER 32

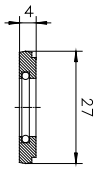
Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 25 Part No.	DS/ER 32 Part No.
3.00 - 2.50	0.1181 - 0.0984	3/32"	3925.00300	3932.00300
3.50 - 3.00	0.1378 - 0.1181	1/8"	3925.00350*	3932.00350*
4.00 - 3.50	0.1575 - 0.1378	5/32"	3925.00400*	3932.00400*
4.50 - 4.00	0.1772 - 0.1575		3925.00450*	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	0.4724-0.4528	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.

1 DS/ER 25



2 DS/ER 32



Edition 11/2011

Matching Products

Clamping Nuts | Spanners

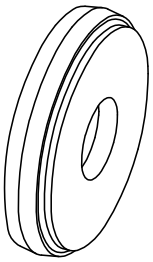
Clamping Nut	Part No.	Page	Standard	With Friction Bearing	Balanced	For Coolant Through Tools	Collet Locking System	Mini-Nut	Nut with External Thread	Spanner	Part No.	Page
Hi-Q / ERC 40	3440.20000	4.6			■	■	■			E 40	7111.40000	12.1
Hi-Q / ERBC 40	3440.40000	4.10		■	■	■	■			E 40	7111.40000	12.1
Hi-Q / ERAXC 40	3340.70000	4.18			■	■	■		■	E 40 AX	7117.40000	12.2

Sealing Disk Sets
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, 1 tray DSR/40

Tray
DS/ER 40

Part Description	Part No.	Page
DSR / 40	7122.40000	12.6



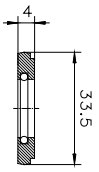
DS/ER 40

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*

Sealing Capacity [mm]	Sealing Capacity [Inch]	Ø [Inch]	DS/ER 40 Part No.
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.



Edition 11/2011

Swiss Precision Tools

ER

Coolant Flush Disk

Features | Benefits

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

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

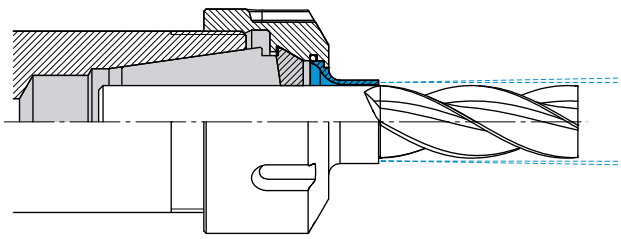
2 Traceability
Lot number marking on all products for traceability through the entire manufacturing process.

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.



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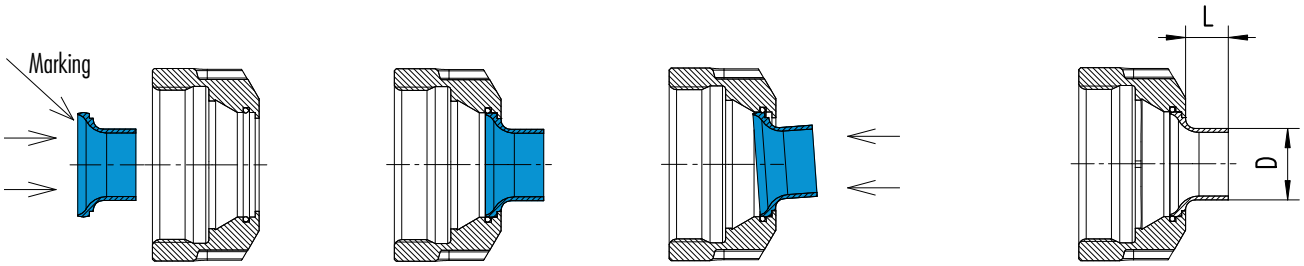
Drawings with detailed dimensions see.
search.rego-fix.ch

Mounting Instructions

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

Assembly/Disassembly Identical to sealing disks. See page 4.20.



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. Material 42CrMoS4 (1.7227).

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

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