ER Collet

Standard **ER Collet Type DIN 6499**



Basic Dimensions

Туре	Α	В
ER-11	.45	.71
ER-16	.67	1.06
ER-20	.83	1.22
ER-25	1.02	1.38
ER-32	1.30	1.57
ER-40	1.61	1.81
ER-50	2.05	2.36

Co	oncentricity Tolerance	8		
L	D	Standard Precision	Ultra Precision	DIN 6499
.24	.039063	.0004	.0002	0.00
.39	.063118	.0004	.0002	.0006
.63	.118236	.0004	.0002	.0006
.98	.236394	.0004	.0002	.0006
1.57	.394709	.0004	.0002	.0008
1.97	.709-1.024	.0004	.0002	.0008
2.36	1.024-1.339			.0010

ER - Coolit Sealed Collet

Two Types



Sealed Collet

For straight shank cutting tools with internal coolant supply.



Seal Jet

With angular nozzles. Coolant flow is direct to the cutting edge - for use with standard straight shank cutting tools (without coolant hole).

Standard Shank for Use in Sealed Collets









ER Collet

ER - Top Clamping Nut for DIN 6499 Collets

Description

Friction bearing ER nut is a nut with a unique twopiece exclusive friction mechanism, combining radial and angular self-centering movements.

Features

- Unique two-piece friction bearing
- Radial and angular float for better concentricity
- Powerful gripping force, 50-100% higher than the standard ER nut due to the friction bearing mechanism
- Balanced for higher spindle spin due to unique extractor teeth design
- Compact design general dimensions and size range are the same as the standard nut
- Designed for use with sealed collets

Always assemble the collet into the nut before mounting onto the collet chuck.





Insertion Procedure

- 1. Insert the collet at an angle, fitting the two extractor teeth which protrude (A) into the collet's groove (B).
- 2. Place the two parts on a clean and horizontal work surface.
- 3. Press down with your thumb on the back end of the collet until it clicks into place (C).





Important: Never insert the collet parallel to the extractor ring. Doing this will chip or break the extractor's teeth. When unclamping the nut, the collet will self-release from the chuck by means of extractor teeth.

Extraction Procedure

Align the engraved diamond shape which is on the 1.

silver ring (D), with any of the key slots (E) of the nut.

- 2. Place the nut with the collet facing down on a clean and horizontal work surface.
- 3. Insert a screwdriver vertically between the nut slots and the collet on the reverse side of the engraved diamond shape (D).
- 4. Tilt the screwdriver outwards, while helping the extraction by pushing the collet's back end in the opposite direction (F).



Nut type	LbsxFt	KgxM
E-11	36	5
ER-11M	21	3
ER-16	50	7
ER-16M	29	4
ER-20	86	12
ER-20M	58	8
ER-25	144	20
ER-32	160	22
ER-40	180	25
ER-50	252	35

Note:

For maximum performance the clamping nut thread and collet taper must be cleaned and oiled before use. Recommended Clamping Torque for Standard ER & ER-Top Clamping Nut

Important:

This torgue is calculated with the maximum diameter capacity per collet which should be gradually reduced when used with a smaller shank size.

