



ROYAL ULTRA-PRECISION ER COLLETS – 0.0002" TIR

Royal Sets a Higher Standard for ER Collets

Extremely Accurate

Runout is guaranteed to be 6 microns (**0.0002"** TIR), or better. Each collet is inspected to this standard prior to shipping.

Versatile

Available in both **sealed** and **standard** versions.

Wide Gripping Range

Royal standard ER Collets contain 16 slots, providing a larger gripping range than other brands.



Heavy Duty Construction

Royal ER Collets are made from high-grade steels imported from Germany and are hardened for long life.

Great Value

Very **competitive prices** make these high-quality ER Collets the best value in the industry.

Large Inventory

All sizes are **in stock**, ready for immediate shipment.

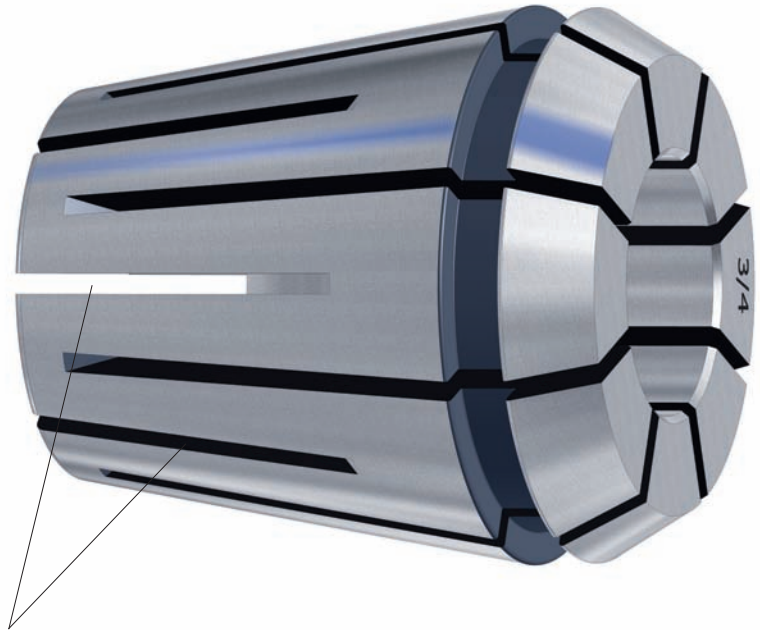
Inch and Metric Sizes

Royal ER Collets are available in both **inch and metric sizes**. This optimizes the surface contact between the collet and cutting tool and results in higher accuracies, stronger grip force, better part finishes, and longer cutting tool life.

ROYAL SEALED ULTRA-PRECISION ER COLLETS



- ❑ Ultra-Precision Accuracy – 0.0002" TIR guaranteed.
- ❑ **High-pressure approved to 1400 psi.**
- ❑ Unique design is mechanically sealed by virtue of the rear slots terminating prior to the annular groove, completely blocking the path of coolant flow to the front of the collet.
- ❑ When using thru-coolant cutting tools, these collets ensure **100% coolant delivery** to the tip of the cutting tool.
- ❑ Superior to collets sealed with silicone/rubber plugs because the plugs are limited to lower operating pressures and are subject to wear.
- ❑ Unlike standard ER collets, sealed models do not have a wide collapsibility range, requiring the collet bore to be matched to the cutting tool shank diameter.

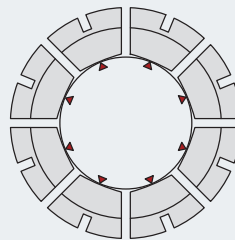


Short slots block flow, ensuring that all coolant is delivered thru the cutting tool.

A Perfect Match to Your Cutting Tool Diameter

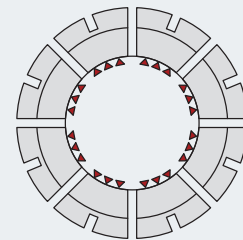
All Royal ER Collets are available from stock in both inch and metric sizes. This is very important because it enables you to select a collet that has been ground to your precise cutting tool size.

Using a collet that is **perfectly matched to the cutting tool diameter** ensures that full surface contact is achieved, resulting in higher gripping force, better accuracy, less vibration, better surface finishes, and longer tool life.



Other Brands

Single Point Contact when Using Metric Collets to Hold Inch-Sized Tooling, or Vice Versa



Royal Brand

Full Surface Contact Because Royal ER Collets are Ground to Exact Inch and Metric Sizes



ROYAL ULTRA-PRECISION ER COLLETS – 0.0002" TIR

Standard and Sealed

Inch Sizes



ER-11
\$29 / \$32



ER-16
\$29 / \$32



ER-20
\$32 / \$37



ER-25
\$34 / \$39



ER-32
\$36 / \$43



ER-40
\$39 / \$49

Royal Ultra-Precision ER Collets (Inch)

DRILL/ENDMILL DIAMETER	STANDARD COLLET GRIP RANGE*	ER-11*		ER-16		ER-20		ER-25		ER-32		ER-40	
		Standard \$29	Sealed \$32	Standard \$29	Sealed \$32	Standard \$32	Sealed \$37	Standard \$34	Sealed \$39	Standard \$36	Sealed \$43	Standard \$39	Sealed \$49
1/16"	.062 – .043	53002		53020		53050		53090					
3/32"	.093 – .054	53004		53022		53052		53092		53140			
1/8"	.125 – .086	53006	56006	53024	56024	53054	56054	53094	56094	53142		53200	
5/32"	.156 – .117	53008	56008	53026	56026	53056	56056	53096	56096	53144	56144	53202	56202
3/16"	.187 – .148	53010	56010	53028	56028	53058	56058	53098	56098	53146	56146	53204	56204
7/32"	.218 – .179	53012	56012	53030	56030	53060	56060	53100	56100	53148	56148	53206	56206
1/4"	.250 – .211	53014	56014	53032	56032	53062	56062	53102	56102	53150	56150	53208	56208
9/32"	.281 – .242			53034	56034	53064	56064	53104	56104	53152	56152	53210	56210
5/16"	.312 – .273			53036	56036	53066	56066	53106	56106	53154	56154	53212	56212
11/32"	.343 – .304			53038	56038	53068	56068	53108	56108	53156	56156	53214	56214
3/8"	.375 – .336			53040	56040	53070	56070	53110	56110	53158	56158	53216	56216
13/32"	.406 – .367			53042	56042	53072	56072	53112	56112	53160	56160	53218	56218
7/16"	.437 – .398					53074	56074	53114	56114	53162	56162	53220	56220
15/32"	.468 – .429					53076	56076	53116	56116	53164	56164	53222	56222
1/2"	.500 – .461					53078	56078	53118	56118	53166	56166	53224	56224
17/32"	.531 – .492							53120	56120	53168	56168	53226	56226
9/16"	.562 – .523							53122	56122	53170	56170	53228	56228
19/32"	.593 – .554							53124	56124	53172	56172	53230	56230
5/8"	.625 – .586							53126	56126	53174	56174	53232	56232
21/32"	.656 – .617									53176	56176	53234	56234
11/16"	.687 – .648									53178	56178	53236	56236
23/32"	.718 – .679									53180	56180	53238	56238
3/4"	.750 – .711									53182	56182	53240	56240
25/32"	.781 – .742									53184	56184	53242	56242
13/16"	.812 – .773									53186	56186	53244	56244
27/32"	.843 – .804											53246	56246
7/8"	.875 – .836											53248	56248
29/32"	.906 – .867											53250	56250
15/16"	.937 – .898											53252	56252
31/32"	.969 – .930											53254	56254
1"	1.000 – .961											53256	56256

* Grip Range for ER-11 is 1/64". Sealed collets have no range – must be sized exactly.

ROYAL ULTRA-PRECISION ER COLLETS – 0.0002" TIR

Standard and Sealed



Metric Sizes



Royal Ultra-Precision ER Collets (Metric)

DRILL/ENDMILL DIAMETER	STANDARD COLLET GRIP RANGE*	ER-11*		ER-16		ER-20		ER-25		ER-32		ER-40	
		Standard \$29	Sealed \$32	Standard \$29	Sealed \$32	Standard \$32	Sealed \$37	Standard \$34	Sealed \$39	Standard \$36	Sealed \$43	Standard \$39	Sealed \$49
1 mm	1 – 0.5	53402		53430									
2 mm	2 – 1	53404		53432		53460		53502					
3 mm	3 – 2	53406	56406	53434	56434	53462	56462	53504	56504	53550			
4 mm	4 – 3	53408	56408	53436	56436	53464	56464	53506	56506	53552	56552	53602	56602
5 mm	5 – 4	53410	56410	53438	56438	53466	56466	53508	56508	53554	56554	53604	56604
6 mm	6 – 5	53412	56412	53440	56440	53468	56468	53510	56510	53556	56556	53606	56606
7 mm	7 – 6	53414	56414	53442	56442	53470	56470	53512	56512	53558	56558	53608	56608
8 mm	8 – 7			53444	56444	53472	56472	53514	56514	53560	56560	53610	56610
9 mm	9 – 8			53446	56446	53474	56474	53516	56516	53562	56562	53612	56612
10 mm	10 – 9			53448	56448	53476	56476	53518	56518	53564	56564	53614	56614
11 mm	11 – 10					53478	56478	53520	56520	53566	56566	53616	56616
12 mm	12 – 11					53480	56480	53522	56522	53568	56568	53618	56618
13 mm	13 – 12					53482	56482	53524	56524	53570	56570	53620	56620
14 mm	14 – 13							53526	56526	53572	56572	53622	56622
15 mm	15 – 14							53528	56528	53574	56574	53624	56624
16 mm	16 – 15							53530	56530	53576	56576	53626	56626
17 mm	17 – 16									53578	56578	53628	56628
18 mm	18 – 17									53580	56580	53630	56630
19 mm	19 – 18									53582	56582	53632	56632
20 mm	20 – 19									53584	56584	53634	56634
21 mm	21 – 20											53636	56636
22 mm	22 – 21											53638	56638
23 mm	23 – 22											53640	56640
24 mm	24 – 23											53642	56642
25 mm	25 – 24											53644	56644
26 mm	26 – 25											53646	56646

* Grip Range for ER-11 is 0.5 mm. Sealed collets have no range – must be sized exactly.



ROYAL ULTRA-PRECISION ER COLLET SETS

Standard and Sealed



- 0.0002" TIR guaranteed.
- Convenient sets include all popular sizes.
- Available in inch, metric, standard, and sealed models.

Royal ER Collet Sets (Inch – Standard)

COLLET SERIES	RANGE	NUMBER OF COLLETS IN SET	PART NUMBER	PRICE
ER-11	1/16"–1/4" x 32nds	7	53300	\$203
ER-16	1/16"–3/8" x 32nds	11	53302	319
ER-20	5/32"–1/2" x 32nds	12	53304	384
ER-25	5/32"–5/8" x 32nds	16	53306	544
ER-32	7/32"–3/4" x 32nds	18	53308	648
ER-40	1/8"–1" x 16ths	15	53310	585

Royal ER Collet Sets (Metric – Standard)

COLLET SERIES	RANGE	NUMBER OF COLLETS IN SET	PART NUMBER	PRICE
ER-11	1–7 mm x 1 mm	7	53700	\$203
ER-16	1–10 mm x 1 mm	10	53702	290
ER-20	2–13 mm x 1 mm	12	53704	384
ER-25	2–16 mm x 1 mm	15	53706	510
ER-32	3–20 mm x 1 mm	18	53708	648
ER-40	4–26 mm x 1 mm	23	53710	897

Royal ER Collet Sets (Inch – Sealed*)

COLLET SERIES	RANGE	NUMBER OF COLLETS IN SET	PART NUMBER	PRICE
ER-16	1/8"–3/8" x 32nds	9	56302	\$288
ER-20	5/32"–1/2" x 32nds	12	56304	444
ER-25	5/32"–5/8" x 32nds	16	56306	624
ER-32	7/32"–3/4" x 32nds	18	56308	774
ER-40	3/16"–1" x 16ths	14	56310	686

* Unlike standard ER collets, sealed models do not have a wide collapsibility range and therefore must be sized to the cutting tool diameter.

Royal ER Collet Sets (Metric – Sealed*)

COLLET SERIES	RANGE	NUMBER OF COLLETS IN SET	PART NUMBER	PRICE
ER-16	3–10 mm x 1 mm	8	56702	\$256
ER-20	3–13 mm x 1 mm	11	56704	407
ER-25	3–16 mm x 1 mm	14	56706	546
ER-32	4–20 mm x 1 mm	17	56708	731
ER-40	4–26 mm x 1 mm	23	56710	1,127

* Unlike standard ER collets, sealed models do not have a wide collapsibility range and therefore must be sized to the cutting tool diameter.