

ER Collet Chuck

- High Precision Multi Purpose Machining



COMPLETE METALWORKING SOLUTIONS
(800) 991-4225 www.ahbinc.com
ISO Certified customerservice@ahbinc.com



High Precision Multi Purpose Machining

Technical information for ER Collet Chuck

ER Collet Chuck

- Superior efficiency for general machining due to affordable pricing and stable performance
- Allows stable run-out when compared to other companies
- Wide fastening range applicable
- Various machining available just by replacing the collet
- Clamping Range : $\varnothing 1/16'' \sim \varnothing 13/16''$, $\varnothing 1 \sim \varnothing 20\text{mm}$

Code system



Bearing Nuts Designed for Improved Precision

- Soft Sleeve Bearing RN Nut

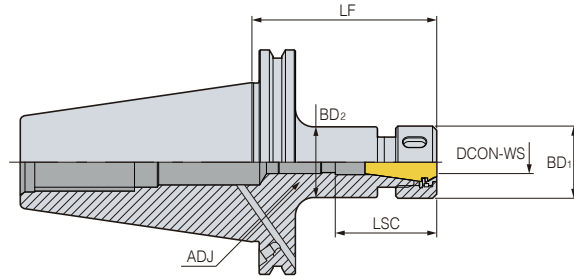


Jet Coolant Disk Applicable

- After replacing with RT/RUT nut, connect RTJW to use jet coolant - internal coolant



ER Collet Chuck



Internal coolant system optional

(inch)

Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LSC	Collet	ADJ
CAT40B-	ER11-3.00	6-01-083478	◆	0.0625~0.250	3.00	0.71	0.67	1.3	ER11 M7
	ER16-3.00	6-01-083479	◆	0.0625~0.406	3.00	1.26	1.22	1.77	ER16 M10
	ER16-5.00	6-01-083480	◆	0.0625~0.406	5.00	1.26	1.22	1.77	ER16 M10
	ER20-3.00	6-01-083481	◆	0.125~0.500	3.00	1.38	1.34	1.93	ER20 M13
	ER20-5.00	6-01-083482	◆	0.125~0.500	5.00	1.38	1.34	1.93	ER20 M13
	ER25-3.00	6-01-083483	◆	0.125~0.625	3.00	1.65	1.61	1.97	ER25 M10
	ER25-6.00	6-01-083484	◆	0.125~0.625	6.00	1.65	1.61	1.97	ER25 M18
	ER32-3.00	6-01-083485	◆	0.125~0.8125	3.00	1.97	1.93	2.36	ER32 M10
	ER32-6.00	6-01-083486	◆	0.125~0.8125	6.00	1.97	1.93	2.36	ER32 M22
CAT50B-	ER16-4.00	6-01-083487	◆	0.0625~0.406	4.00	1.26	1.22	1.77	ER16 M10
	ER16-6.00	6-01-083488	◆	0.0625~0.406	6.00	1.26	1.22	1.77	ER16 M10
	ER20-4.00	6-01-083489	◆	0.125~0.500	4.00	1.38	1.34	1.93	ER20 M13
	ER20-6.00	6-01-083490	◆	0.125~0.500	6.00	1.38	1.34	1.93	ER20 M13
	ER25-4.00	6-01-083491	◆	0.125~0.625	4.00	1.65	1.61	1.97	ER25 M18
	ER25-6.00	6-01-083492	◆	0.125~0.625	6.00	1.65	1.61	1.97	ER25 M18
	ER32-4.00	6-01-083493	◆	0.125~0.8125	4.00	1.97	1.93	2.36	ER32 M22
	ER32-6.00	6-01-083494	◆	0.125~0.8125	6.00	1.97	1.93	2.36	ER32 M22

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

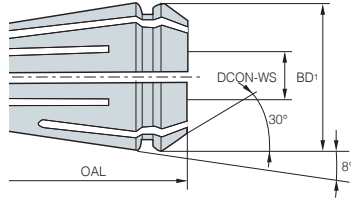
Parts

Included with the Tool			For Separate Purchase	
Division	Nut	Adjust Screw	Spanner	Collet
Parts				
Designation				
ER11	RN11	BN0716F	20-22	ER11-ØD
ER16	RN16	BN1025F	32-35	ER16-ØD
ER20	RN20	BN1325F	35-38	ER20-ØD
ER25	RN25	BN1830F	42-46	ER25-ØD
ER32	RN32	BN2230F	48-52	ER32-ØD

ER Collet(Inch)



General type



ER Collet Series	Collet Capacity			
	mm		Inch	
	min	max	min	max
ER16	0.5	10.0	0.02	0.41
ER20	0.5	13.0	0.02	0.50
ER25	1.0	16	0.04	0.63
ER32	2.0	20.0	0.08	0.81

(inch)

Designation	K.P.Code	STOCK	ER size	DCON-WS	OAL	BD1	Accuracy
ER16- 1/16	6-01-083495	○	16	1/16	1.083	0.669	10 μ m
	3/32	○	16	3/32	1.083	0.669	10 μ m
	1/8	◆	16	1/8	1.083	0.669	10 μ m
	5/32	○	16	5/32	1.083	0.669	10 μ m
	3/16	◆	16	3/16	1.083	0.669	10 μ m
	7/32	◆	16	7/32	1.083	0.669	10 μ m
	1/4	◆	16	1/4	1.083	0.669	10 μ m
	9/32	○	16	9/32	1.083	0.669	10 μ m
	5/16	◆	16	5/16	1.083	0.669	10 μ m
	11/32	○	16	11/32	1.083	0.669	10 μ m
	3/8	◆	16	3/8	1.083	0.669	10 μ m
	13/32	○	16	13/32	1.083	0.669	10 μ m
	1/2	◆	16	1/2	1.083	0.669	10 μ m
ER20- 1/16	6-01-083507	◆	20	1/16	1.240	0.827	10 μ m
	3/32	○	20	3/32	1.240	0.827	10 μ m
	1/8	◆	20	1/8	1.240	0.827	10 μ m
	5/32	○	20	5/32	1.240	0.827	10 μ m
	3/16	◆	20	3/16	1.240	0.827	10 μ m
	7/32	○	20	7/32	1.240	0.827	10 μ m
	1/4	◆	20	1/4	1.240	0.827	10 μ m
	9/32	○	20	9/32	1.240	0.827	10 μ m
	5/16	◆	20	5/16	1.240	0.827	10 μ m
	11/32	○	20	11/32	1.240	0.827	10 μ m
	3/8	◆	20	3/8	1.240	0.827	10 μ m
	13/32	○	20	13/32	1.240	0.827	10 μ m
	7/16	◆	20	7/16	1.240	0.827	10 μ m
	15/32	○	20	15/32	1.240	0.827	10 μ m
	1/2	◆	20	1/2	1.240	0.827	10 μ m

●: Korea stock ◆: US stock ○: Made to order

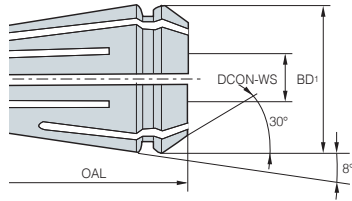
Designation	K.P.Code	STOCK	ER size	DCON-WS	OAL	BD1	Accuracy
ER25- 1/16	6-01-083522	◆	25	1/16	1.339	1.024	10 μ m
	3/32	○	25	3/32	1.339	1.024	10 μ m
	1/8	◆	25	1/8	1.339	1.024	10 μ m
	5/32	○	25	5/32	1.339	1.024	10 μ m
	3/16	◆	25	3/16	1.339	1.024	10 μ m
	7/32	○	25	7/32	1.339	1.024	10 μ m
	1/4	◆	25	1/4	1.339	1.024	10 μ m
	9/32	○	25	9/32	1.339	1.024	10 μ m
	5/16	◆	25	5/16	1.339	1.024	10 μ m
	11/32	○	25	11/32	1.339	1.024	10 μ m
	3/8	◆	25	3/8	1.339	1.024	10 μ m
	13/32	○	25	13/32	1.339	1.024	10 μ m
	7/16	◆	25	7/16	1.339	1.024	10 μ m
ER32- 1/16	6-01-083535	○	25	15/32	1.339	1.024	10 μ m
	1/2	◆	25	1/2	1.339	1.024	10 μ m
	17/32	○	25	17/32	1.339	1.024	10 μ m
	9/16	◆	25	9/16	1.339	1.024	10 μ m
	19/32	○	25	19/32	1.339	1.024	10 μ m
	5/8	◆	25	5/8	1.339	1.024	10 μ m
	11/32	○	32	11/32	1.575	1.299	10 μ m
	3/8	◆	32	3/8	1.575	1.299	10 μ m
	13/32	○	32	13/32	1.575	1.299	10 μ m
	7/16	◆	32	7/16	1.575	1.299	10 μ m
	15/32	○	32	15/32	1.575	1.299	10 μ m
	1/2	◆	32	1/2	1.575	1.299	10 μ m
	17/32	○	32	17/32	1.575	1.299	10 μ m
	9/16	◆	32	9/16	1.575	1.299	10 μ m
	19/32	○	32	19/32	1.575	1.299	10 μ m
	5/8	◆	32	5/8	1.575	1.299	10 μ m
	21/32	○	32	21/32	1.575	1.299	10 μ m
	11/16	◆	32	11/16	1.575	1.299	10 μ m
	23/32	○	32	23/32	1.575	1.299	10 μ m
	3/4	◆	32	3/4	1.575	1.299	10 μ m
	25/32	○	32	25/32	1.575	1.299	10 μ m
	13/16	○	32	13/16	1.575	1.299	10 μ m

●: Korea stock ◆: US stock ○: Made to order

ER Collet(Metric)



General type



Designation	K.P. Code	STOCK	ER size	DCON-WS	OAL	BD1	Accuracy
ER11-	1.0	6-01-010864 ●	11	1.0	18.0	11.5	10 μ m
	1.5	6-01-011024 ●	11	1.5	18.0	11.5	10 μ m
	2.0	6-01-010865 ●	11	2.0	18.0	11.5	10 μ m
	2.5	6-01-010977 ●	11	2.5	18.0	11.5	10 μ m
	3.0	6-01-010866 ●	11	3.0	18.0	11.5	10 μ m
	3.5	6-01-010978 ●	11	3.5	18.0	11.5	10 μ m
	4.0	6-01-010867 ◆	11	4.0	18.0	11.5	10 μ m
	4.5	6-01-004265 ●	11	4.5	18.0	11.5	10 μ m
	5.0	6-01-010868 ●	11	5.0	18.0	11.5	10 μ m
	5.5	6-01-011025 ●	11	5.5	18.0	11.5	10 μ m
	6.0	6-01-010869 ◆	11	6.0	18.0	11.5	10 μ m
	6.5	6-01-004875 ●	11	6.5	18.0	11.5	10 μ m
	7.0	6-01-010913 ●	11	7.0	18.0	11.5	10 μ m
	7.0	6-01-010913 ●	11	7.0	18.0	11.5	10 μ m
ER16-	1.0	6-01-004512 ●	16	1.0	27.5	17.0	10 μ m
	2.0	6-01-010871 ●	16	2.0	27.5	17.0	10 μ m
	3.0	6-01-010872 ●	16	3.0	27.5	17.0	10 μ m
	4.0	6-01-010873 ◆	16	4.0	27.5	17.0	10 μ m
	5.0	6-01-010874 ●	16	5.0	27.5	17.0	10 μ m
	6.0	6-01-010875 ◆	16	6.0	27.5	17.0	10 μ m
	7.0	6-01-010876 ●	16	7.0	27.5	17.0	10 μ m
	8.0	6-01-010877 ◆	16	8.0	27.5	17.0	10 μ m
	9.0	6-01-010878 ●	16	9.0	27.5	17.0	10 μ m
	10.0	6-01-010879 ◆	16	10.0	27.5	17.0	10 μ m
ER20-	1.0	6-01-010881 ●	20	1.0	31.5	21.0	10 μ m
	2.0	6-01-010882 ●	20	2.0	31.5	21.0	10 μ m
	3.0	6-01-010883 ●	20	3.0	31.5	21.0	10 μ m
	4.0	6-01-010884 ◆	20	4.0	31.5	21.0	10 μ m
	5.0	6-01-010885 ●	20	5.0	31.5	21.0	10 μ m
	6.0	6-01-010886 ◆	20	6.0	31.5	21.0	10 μ m
	7.0	6-01-010887 ●	20	7.0	31.5	21.0	10 μ m
	8.0	6-01-010888 ◆	20	8.0	31.5	21.0	10 μ m
	9.0	6-01-010889 ●	20	9.0	31.5	21.0	10 μ m
	10.0	6-01-010890 ◆	20	10.0	31.5	21.0	10 μ m
	11.0	6-01-010891 ●	20	10.0	31.5	21.0	10 μ m
	12.0	6-01-010892 ◆	20	12.0	31.5	21.0	10 μ m
	13.0	6-01-010893 ●	20	13.0	31.5	21.0	10 μ m

●: Korea stock ◆: US stock ○: Made to order

ER Collet Series	Collet Capacity			
	mm		Inch	
	min	max	min	max
ER16	0.5	10.0	0.02	0.41
ER20	0.5	13.0	0.02	0.50
ER25	1.0	16	0.04	0.63
ER32	2.0	20.0	0.08	0.81

(mm)

Designation	K.P. Code	STOCK	ER size	DCON-WS	OAL	BD1	Accuracy
ER25-	2.0	6-01-021888 ●	25	2.0	34.0	26.0	10 μ m
	3.0	6-01-020116 ●	25	3.0	34.0	26.0	10 μ m
	4.0	6-01-019134 ◆	25	4.0	34.0	26.0	10 μ m
	5.0	6-01-015500 ●	25	5.0	34.0	26.0	10 μ m
	6.0	6-01-015514 ◆	25	6.0	34.0	26.0	10 μ m
	7.0	6-01-004011 ●	25	7.0	34.0	26.0	10 μ m
	8.0	6-01-003605 ◆	25	8.0	34.0	26.0	10 μ m
	9.0	6-01-001693 ●	25	9.0	34.0	26.0	10 μ m
	10.0	6-01-003606 ◆	25	10.0	34.0	26.0	10 μ m
	11.0	6-01-001687 ●	25	11.0	34.0	26.0	10 μ m
	12.0	6-01-001688 ◆	25	12.0	34.0	26.0	10 μ m
	13.0	6-01-001689 ●	25	13.0	34.0	26.0	10 μ m
	14.0	6-01-003489 ◆	25	14.0	34.0	26.0	10 μ m
	15.0	6-01-021889 ●	25	15.0	34.0	26.0	10 μ m
	16.0	6-01-001691 ◆	25	16.0	34.0	26.0	10 μ m
ER32-	2.0	6-01-010914 ●	32	2.0	40.0	33.0	10 μ m
	3.0	6-01-010895 ●	32	3.0	40.0	33.0	10 μ m
	4.0	6-01-010896 ◆	32	4.0	40.0	33.0	10 μ m
	5.0	6-01-010897 ●	32	5.0	40.0	33.0	10 μ m
	6.0	6-01-010898 ◆	32	6.0	40.0	33.0	10 μ m
	7.0	6-01-010899 ●	32	7.0	40.0	33.0	10 μ m
	8.0	6-01-010900 ◆	32	8.0	40.0	33.0	10 μ m
	9.0	6-01-010694 ●	32	9.0	40.0	33.0	10 μ m
	10.0	6-01-010901 ◆	32	10.0	40.0	33.0	10 μ m
	11.0	6-01-010902 ●	32	11.0	40.0	33.0	10 μ m
	12.0	6-01-010903 ◆	32	12.0	40.0	33.0	10 μ m
	13.0	6-01-010904 ●	32	13.0	40.0	33.0	10 μ m
	14.0	6-01-010905 ◆	32	14.0	40.0	33.0	10 μ m
	15.0	6-01-010906 ●	32	15.0	40.0	33.0	10 μ m
	16.0	6-01-010907 ◆	32	16.0	40.0	33.0	10 μ m
	17.0	6-01-010908 ●	32	17.0	40.0	33.0	10 μ m
	18.0	6-01-010909 ◆	32	18.0	40.0	33.0	10 μ m
	19.0	6-01-010910 ●	32	19.0	40.0	33.0	10 μ m
	20.0	6-01-010911 ◆	32	20.0	40.0	33.0	10 μ m

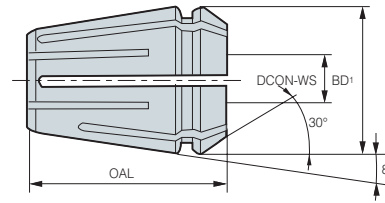
●: Korea stock ◆: US stock ○: Made to order

ER Collet(Metric)

General
10μm
T.I.RWalter
proof

ER Collet

General Sealed type



(mm)

Designation		K.P.CODE	STOCK	ER size	DCON-WS	OAL	BD1	Accuracy
ER16-	5.0C	6-01-016818	●	16	5.0	27.5	17.0	10μm
	6.0C	6-01-016099	●	16	6.0	27.5	17.0	10μm
	8.0C	6-01-015340	●	16	8.0	27.5	17.0	10μm
	10.0C	6-01-020194	●	16	10.0	27.5	17.0	10μm
ER20-	6.0C	6-01-015413	●	20	6.0	31.5	21.0	10μm
	8.0C	6-01-015510	●	20	8.0	31.5	21.0	10μm
	10.0C	6-01-015339	●	20	10.0	31.5	21.0	10μm
	12.0C	6-01-015465	●	20	12.0	31.5	21.0	10μm
ER25-	6.0C	6-01-015511	●	25	6.0	34.0	26.0	10μm
	8.0C	6-01-010936	●	25	8.0	34.0	26.0	10μm
	10.0C	6-01-015466	●	25	10.0	34.0	26.0	10μm
	12.0C	6-01-015462	●	25	12.0	34.0	26.0	10μm
	14.0C	6-01-016100	●	25	14.0	34.0	26.0	10μm
	16.0C	6-01-015342	●	25	16.0	34.0	26.0	10μm
ER32-	8.0C	6-01-010525	●	32	8.0	40.0	33.0	10μm
	9.0C	6-01-016248	●	32	9.0	40.0	33.0	10μm
	10.0C	6-01-016252	●	32	10.0	40.0	33.0	10μm
	11.0C	6-01-016255	●	32	11.0	40.0	33.0	10μm
	12.0C	6-01-016253	●	32	12.0	40.0	33.0	10μm
	13.0C	6-01-016254	●	32	13.0	40.0	33.0	10μm
	14.0C	6-01-016246	●	32	14.0	40.0	33.0	10μm
	15.0C	6-01-016247	●	32	15.0	40.0	33.0	10μm
	16.0C	6-01-016251	○	32	16.0	40.0	33.0	10μm
	18.0C	6-01-016611	●	32	18.0	40.0	33.0	10μm
	20.0C	6-01-018659	●	32	20.0	40.0	33.0	10μm

M This is in metric unit. We can also provide in inch type.

● : Korea stock ◆ : US stock ○ : Made to order

ER Collet Set

General type



(mm)

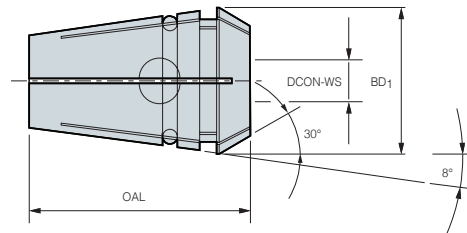
	Designation	K.P.CODE	STOCK	DCON-WS	Distance	Collet amount	Accuracy	kg
ER	11 (SET)	6-01-003362	●	1.0-7.0	0.5	13pcs	10 μ m	0.1
	16 (SET)	6-01-010880	●	1.0-10.0	1.0	10pcs	10 μ m	0.1
	20 (SET)	6-01-010894	●	2.0-13.0	1.0	12pcs	10 μ m	0.4
	25 (SET)	6-01-015217	●	2.0-16.0	1.0	15pcs	10 μ m	1.1
	32 (SET)	6-01-010912	●	3.0-20.0	1.0	18pcs	10 μ m	2.6

M This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

ER/L Collet

Lock collet for ER collet chuck



(mm)

	Designation	K.P.CODE	STOCK	ER size	DCON-WS	OAL	BD1	BD2
ER	20-6L	6-01-046112	●	20	6	31.5	20.7	20
	20-8L	6-01-047735	●	20	8	31.5	20.7	20
	20-10L	6-01-047734	●	20	10	31.5	20.7	20
	20-12L	6-01-046113	●	20	12	31.5	20.7	20
	32-12L	6-01-046114	●	32	12	40.0	32.7	32
	32-16L	6-01-046115	●	32	16	40.0	32.7	32
	32-20L	6-01-047736	●	32	20	40.0	32.7	32

M This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.



Head Office: Holystar B/D, 326, Seocho-daero, Seocho-gu, Seoul, 06633, Republic of Korea
Tel: +82-2-522-3181 Fax: +82-2-522-3184, +82-2-3474-4744 Web: www.korloy.com E-mail: sales.khq@korloy.com

