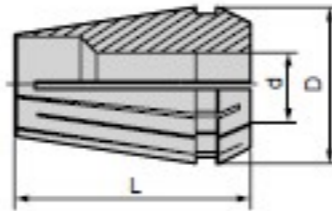


Milling Tooling System - Accessories

ER-S Collet (Standard)

Feature

- Average T.I.R. 0.02mm (0.00079")
- Clamping range from 3.0mm(0.1181")up to 26mm(1.0236")
- Material: made of SUJ2
- Cold treatment



Metric Size

Code No.	D	L	d
S-ER11	11.5	18	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
S-ER16	17	27	3, 4, 5, 6, 7, 8, 9, 10
S-ER20	21	31	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
S-ER25	26	35	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
S-ER32	33	40	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
S-ER40	41	46	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

Inch Size

Code No.	D	L	d
S-ER11	11.5	18	1/8, 3/16, 7/32, 1/4
S-ER16	17	27	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8
S-ER20	21	31	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2
S-ER25	26	35	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8
S-ER32	33	40	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32
S-ER40	41	46	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1

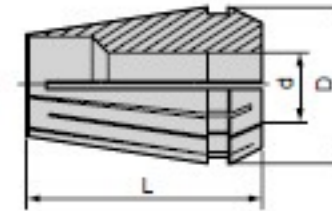
ER11		ER16		ER20		ER25		ER32		ER40	
SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}
S-ER11-3	3.0-2.5	S-ER16-3	3.0-2.0	S-ER20-3	3.0-2.0	S-ER25-3	3.0-2.0	S-ER32-3	3.0-2.0	S-ER40-3	3.0-2.0
S-ER11-3.5	3.5-3.0	S-ER16-4	4.0-3.0	S-ER20-4	4.0-3.0	S-ER25-4	4.0-3.0	S-ER32-4	4.0-3.0	S-ER40-4	4.0-3.0
S-ER11-4	4.0-3.5	S-ER16-5	5.0-4.0	S-ER20-5	5.0-4.0	S-ER25-5	5.0-4.0	S-ER32-5	5.0-4.0	S-ER40-5	5.0-4.0
S-ER11-4.5	4.5-4.0	S-ER16-6	6.0-5.0	S-ER20-6	6.0-5.0	S-ER25-6	6.0-5.0	S-ER32-6	6.0-5.0	S-ER40-6	6.0-5.0
S-ER11-5	5.0-4.5	S-ER16-7	7.0-6.0	S-ER20-7	7.0-6.0	S-ER25-7	7.0-6.0	S-ER32-7	7.0-6.0	S-ER40-7	7.0-6.0
S-ER11-5.5	5.5-5.0	S-ER16-8	8.0-7.0	S-ER20-8	8.0-7.0	S-ER25-8	8.0-7.0	S-ER32-8	8.0-7.0	S-ER40-8	8.0-7.0
S-ER11-6	6.0-5.5	S-ER16-9	9.0-8.0	S-ER20-9	9.0-8.0	S-ER25-9	9.0-8.0	S-ER32-9	9.0-8.0	S-ER40-9	9.0-8.0
S-ER11-6.5	6.5-6.0	S-ER16-10	10-9.0	S-ER20-10	10-9.0	S-ER25-10	10-9.0	S-ER32-10	10-9.0	S-ER40-10	10-9.0
S-ER11-7	7.0-6.5			S-ER20-11	11-10	S-ER25-11	11-10	S-ER32-11	11-10	S-ER40-11	11-10
				S-ER20-12	12-11	S-ER25-12	12-11	S-ER32-12	12-11	S-ER40-12	12-11
				S-ER20-13	13-12	S-ER25-13	13-12	S-ER32-13	13-12	S-ER40-13	13-12
						S-ER25-14	14-13	S-ER32-14	14-13	S-ER40-14	14-13
						S-ER25-15	15-14	S-ER32-15	15-14	S-ER40-15	15-14
						S-ER25-16	16-15	S-ER32-16	16-15	S-ER40-16	16-15
								S-ER32-17	17-16	S-ER40-17	17-16
								S-ER32-18	18-17	S-ER40-18	18-17
								S-ER32-19	19-18	S-ER40-19	19-18
								S-ER32-20	20-19	S-ER40-20	20-19
										S-ER40-21	21-20
										S-ER40-22	22-21
										S-ER40-23	23-22
										S-ER40-24	24-23
										S-ER40-25	25-24
										S-ER40-26	26-25

Milling Tooling System - Accessories

ER-A Collet (Precision)

Feature

- Average T.I.R. 0.01mm (0.0004")
- Clamping range from 3.0mm(0.1181")up to 26mm(1.0236")
- Material: made of SUJ2
- Cold treatment



Metric Size

Code No.	D	L	d
A-ER11	11.5	18	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
A-ER16	17	27	3, 4, 5, 6, 7, 8, 9, 10
A-ER20	21	31	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
A-ER25	26	35	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
A-ER32	33	40	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
A-ER40	41	46	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

Inch Size

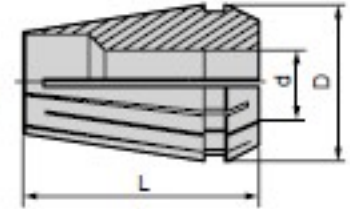
Code No.	D	L	d
A-ER11	11.5	18	1/8, 3/16, 7/32, 1/4
A-ER16	17	27	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8
A-ER20	21	31	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2
A-ER25	26	35	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8
A-ER32	33	40	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32
A-ER40	41	46	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1

ER11		ER16		ER20		ER25		ER32		ER40	
SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}
A-ER11-3	3.0-2.5	A-ER16-3	3.0-2.0	A-ER20-3	3.0-2.0	A-ER25-3	3.0-2.0	A-ER32-3	3.0-2.0	A-ER40-3	3.0-2.0
A-ER11-3.5	3.5-3.0	A-ER16-4	4.0-3.0	A-ER20-4	4.0-3.0	A-ER25-4	4.0-3.0	A-ER32-4	4.0-3.0	A-ER40-4	4.0-3.0
A-ER11-4	4.0-3.5	A-ER16-5	5.0-4.0	A-ER20-5	5.0-4.0	A-ER25-5	5.0-4.0	A-ER32-5	5.0-4.0	A-ER40-5	5.0-4.0
A-ER11-4.5	4.5-4.0	A-ER16-6	6.0-5.0	A-ER20-6	6.0-5.0	A-ER25-6	6.0-5.0	A-ER32-6	6.0-5.0	A-ER40-6	6.0-5.0
A-ER11-5	5.0-4.5	A-ER16-7	7.0-6.0	A-ER20-7	7.0-6.0	A-ER25-7	7.0-6.0	A-ER32-7	7.0-6.0	A-ER40-7	7.0-6.0
A-ER11-5.5	5.5-5.0	A-ER16-8	8.0-7.0	A-ER20-8	8.0-7.0	A-ER25-8	8.0-7.0	A-ER32-8	8.0-7.0	A-ER40-8	8.0-7.0
A-ER11-6	6.0-5.5	A-ER16-9	9.0-8.0	A-ER20-9	9.0-8.0	A-ER25-9	9.0-8.0	A-ER32-9	9.0-8.0	A-ER40-9	9.0-8.0
A-ER11-6.5	6.5-6.0	A-ER16-10	10-9.0	A-ER20-10	10-9.0	A-ER25-10	10-9.0	A-ER32-10	10-9.0	A-ER40-10	10-9.0
A-ER11-7	7.0-6.5			A-ER20-11	11-10	A-ER25-11	11-10	A-ER32-11	11-10	A-ER40-11	11-10
				A-ER20-12	12-11	A-ER25-12	12-11	A-ER32-12	12-11	A-ER40-12	12-11
				A-ER20-13	13-12	A-ER25-13	13-12	A-ER32-13	13-12	A-ER40-13	13-12
						A-ER25-14	14-13	A-ER32-14	14-13	A-ER40-14	14-13
						A-ER25-15	15-14	A-ER32-15	15-14	A-ER40-15	15-14
						A-ER25-16	16-15	A-ER32-16	16-15	A-ER40-16	16-15
								A-ER32-17	17-16	A-ER40-17	17-16
								A-ER32-18	18-17	A-ER40-18	18-17
								A-ER32-19	19-18	A-ER40-19	19-18
								A-ER32-20	20-19	A-ER40-20	20-19
										A-ER40-21	21-20
										A-ER40-22	22-21
										A-ER40-23	23-22
										A-ER40-24	24-23
										A-ER40-25	25-24
										A-ER40-26	26-25

ER-UP Collet (Ultra Precision)

Feature

- Average T.I.R. 0.005mm (0.0002")
- Clamping range from 3.0mm(0.1181") up to 26mm(1.0236")
- Material: made of SUJ2
- Cold treatment



Metric Size

Code No.	D	L	d
UP-ER11	11.5	18	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
UP-ER16	17	27	3, 4, 5, 6, 7, 8, 9, 10
UP-ER20	21	31	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
UP-ER25	26	35	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
UP-ER32	33	40	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
UP-ER40	41	46	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

Inch Size

Code No.	D	L	d
UP-ER11	11.5	18	1/8, 3/16, 7/32, 1/4
UP-ER16	17	27	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8
UP-ER20	21	31	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2
UP-ER25	26	35	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8
UP-ER32	33	40	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32
UP-ER40	41	46	1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1

ER11		ER16		ER20		ER25		ER32		ER40	
SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}	SET NO.	RANGE _{mm}
UP-ER11-3	3.0-2.5	UP-ER16-3	3.0-2.0	UP-ER20-3	3.0-2.0	UP-ER25-3	3.0-2.0	UP-ER32-3	3.0-2.0	UP-ER40-3	3.0-2.0
UP-ER11-3.5	3.5-3.0	UP-ER16-4	4.0-3.0	UP-ER20-4	4.0-3.0	UP-ER25-4	4.0-3.0	UP-ER32-4	4.0-3.0	UP-ER40-4	4.0-3.0
UP-ER11-4	4.0-3.5	UP-ER16-5	5.0-4.0	UP-ER20-5	5.0-4.0	UP-ER25-5	5.0-4.0	UP-ER32-5	5.0-4.0	UP-ER40-5	5.0-4.0
UP-ER11-4.5	4.5-4.0	UP-ER16-6	6.0-5.0	UP-ER20-6	6.0-5.0	UP-ER25-6	6.0-5.0	UP-ER32-6	6.0-5.0	UP-ER40-6	6.0-5.0
UP-ER11-5	5.0-4.5	UP-ER16-7	7.0-6.0	UP-ER20-7	7.0-6.0	UP-ER25-7	7.0-6.0	UP-ER32-7	7.0-6.0	UP-ER40-7	7.0-6.0
UP-ER11-5.5	5.5-5.0	UP-ER16-8	8.0-7.0	UP-ER20-8	8.0-7.0	UP-ER25-8	8.0-7.0	UP-ER32-8	8.0-7.0	UP-ER40-8	8.0-7.0
UP-ER11-6	6.0-5.5	UP-ER16-9	9.0-8.0	UP-ER20-9	9.0-8.0	UP-ER25-9	9.0-8.0	UP-ER32-9	9.0-8.0	UP-ER40-9	9.0-8.0
UP-ER11-6.5	6.5-6.0	UP-ER16-10	10-9.0	UP-ER20-10	10-9.0	UP-ER25-10	10-9.0	UP-ER32-10	10-9.0	UP-ER40-10	10-9.0
UP-ER11-7	7.0-6.5			UP-ER20-11	11-10	UP-ER25-11	11-10	UP-ER32-11	11-10	UP-ER40-11	11-10
				UP-ER20-12	12-11	UP-ER25-12	12-11	UP-ER32-12	12-11	UP-ER40-12	12-11
				UP-ER20-13	13-12	UP-ER25-13	13-12	UP-ER32-13	13-12	UP-ER40-13	13-12
						UP-ER25-14	14-13	UP-ER32-14	14-13	UP-ER40-14	14-13
						UP-ER25-15	15-14	UP-ER32-15	15-14	UP-ER40-15	15-14
						UP-ER25-16	16-15	UP-ER32-16	16-15	UP-ER40-16	16-15
								UP-ER32-17	17-16	UP-ER40-17	17-16
								UP-ER32-18	18-17	UP-ER40-18	18-17
								UP-ER32-19	19-18	UP-ER40-19	19-18
								UP-ER32-20	20-19	UP-ER40-20	20-19
										UP-ER40-21	21-20
										UP-ER40-22	22-21
										UP-ER40-23	23-22
										UP-ER40-24	24-23
										UP-ER40-25	25-24
										UP-ER40-26	26-25