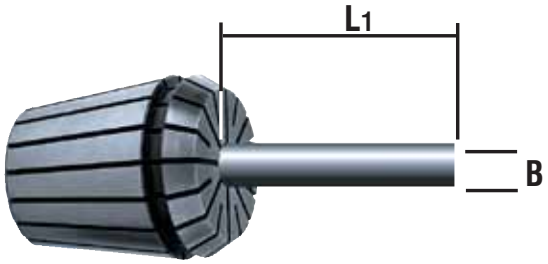
ECX (ER) Super Flex

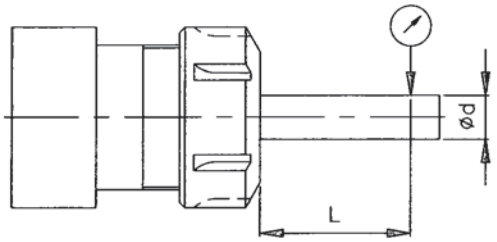
Standard & Ultra Precision Collets

See pages 1-9 and 1-16 for Collet Chucks and Extensions

Our ECX/ER is equivalent to the following competitors' styles: DR, ER, ESX & RD

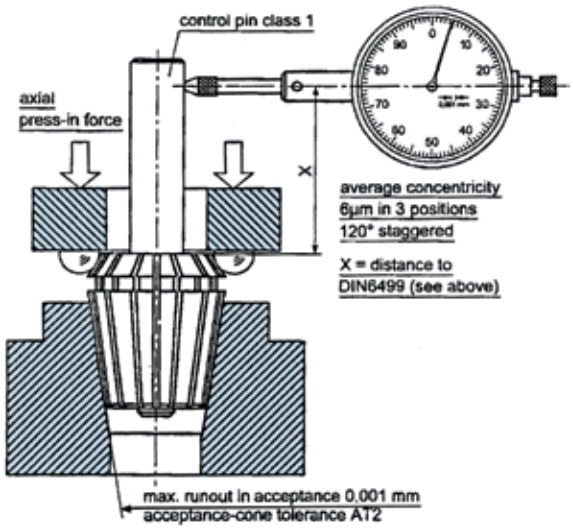


Concentricity details for Collets to DIN6499 (ECX/ER) are checked to the test method described below.



CLAMPING RANGE d (mm)		L (mm)	RUNOUT (TIR)	
ABOVE	UP TO		NORMAL PRECISION	ULTRA PRECISION
1.0	1.5	6	0.015 mm (0.0006") or better	0.005 mm (0.0002")
1.5	3.0	10		
3.0	6.0	16		
6.0	10.0	25		
10.0	18.0	40	0.020 mm (0.0008") or better	0.005 mm 0.0002"
18.0	26.0	50		
26.0	34.0	60		

SP = Standard Precision
UP = Ultra Precision
(Made in Germany)



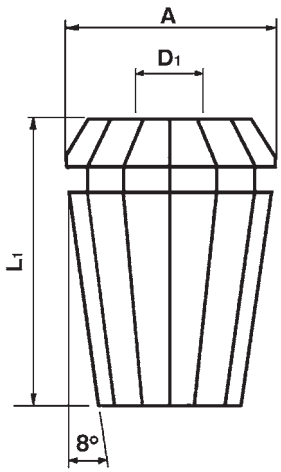
For applications which require highest concentricity, it is absolutely necessary to pay attention to the complete system (machine spindle, collet acceptance, nut, collet and cutting tool).

ECX (ER) Super Flex
Standard & Ultra Precision Collets

ECX/ER 8 Collets

L_1 = Total Length: 0.531'' (13.5 mm) A = Max. Dia: 0.355'' (8.5 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	
Inches	Metric (mm)	Order No.	Part No.	Order No.	Size
0.020 - 0.039	0.5 - 1.0	008-040-SP	008-040	–	–
0.039 - 0.059	1.0 - 1.5	008-060-SP	008-060	–	–
0.059 - 0.079	1.5 - 2.0	008-080-SP	008-080	–	–
0.079 - 0.098	2.0 - 2.5	008-100-SP	008-100	–	–
0.098 - 0.118	2.5 - 3.0	008-120-SP	008-120	–	–
0.118 - 0.138	3.0 - 3.5	008-140-SP	008-140	–	–
0.138 - 0.157	3.5 - 4.0	008-160-SP	008-160	–	–
0.157 - 0.177	4.0 - 4.5	008-180-SP	008-180	–	–
0.177 - 0.197	4.5 - 5.0	008-200-SP	008-200	–	–



Collet Sets

Order No.	No. of Pieces	Device Type	Range
008-ST9SP	9 PC (Metric)	ECX/ER 8 SP Collet Set	0.5 mm to 5 mm By 0.5 mm Incr.
008-ST9	9 PC (Metric)	ECX/ER 8 UP Collet Set	0.5 mm to 5 mm By 0.5 mm Incr.

ECX/ER 11 Collets

L_1 = Total Length: 0.709'' (18 mm) A = Max. Dia: 0.453'' (11.5 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
0.020 - 0.039	0.5 - 1.0	011-040-SP	011-040	1/16"	011-004ISP	011-004-I
0.039 - 0.059	1.0 - 1.5	011-060-SP	011-060	3/32"	011-006ISP	–
0.059 - 0.079	1.5 - 2.0	011-080-SP	011-080	1/8"	011-008ISP	011-008-I
0.079 - 0.098	2.0 - 2.5	011-100-SP	011-100	5/32"	011-010ISP	–
0.098 - 0.118	2.5 - 3.0	011-120-SP	011-120	3/16"	011-012ISP	011-012-I
0.118 - 0.138	3.0 - 3.5	011-140-SP	011-140	7/32"	011-014ISP	–
0.138 - 0.157	3.5 - 4.0	011-160-SP	011-160	1/4"	011-016ISP	011-016-I
0.157 - 0.177	4.0 - 4.5	011-180-SP	011-180	–	–	–
0.177 - 0.197	4.5 - 5.0	011-200-SP	011-200	–	–	–
0.197 - 0.217	5.0 - 5.5	011-220-SP	011-220	–	–	–
0.217 - 0.236	5.5 - 6.0	011-240-SP	011-240	–	–	–
0.236 - 0.256	6.0 - 6.5	011-260-SP	011-260	–	–	–
0.256 - 0.276	6.5 - 7.0	011-280-SP	011-280	–	–	–

Collet Sets

Order No.	No. of Pieces	Device Type	Range
011-ST13SP	13 PC (Metric)	ECX/ER 11 SP Collet Set	1 mm to 7 mm By 0.5 mm Incr.
011-ST13	13 PC (Metric)	ECX/ER 11 UP Collet Set	1 mm to 7 mm By 0.5 mm Incr.
011-ST7SP	7 PC (Inch)	ECX/ER 11 SP Collet Set	1/16" to 1/4" By 32nds Incr.

ECX (ER) Super Flex
Standard & Ultra Precision Collets

ECX/ER 12 Collets

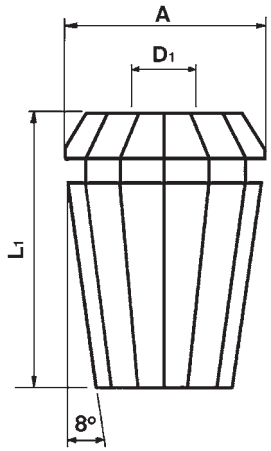
L_1 = Total Length: 0.767'' (19.5 mm) A = Max. Dia: 0.472'' (12 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	
Inches	Metric (mm)	Order No.	Order No.	Order No.	Size
0.020 - 0.039	0.5 - 1.0	012-040-SP	012-040	–	–
0.039 - 0.059	1.0 - 1.5	012-060-SP	012-060	–	–
0.059 - 0.079	1.5 - 2.0	012-080-SP	012-080	–	–
0.079 - 0.0984	2.0 - 2.5	012-100-SP	012-100	–	–
0.0984 - 0.118	2.5 - 3.0	012-120-SP	012-120	–	–
0.118 - 0.158	3.0 - 4.0	012-160-SP	012-160	–	–
0.158 - 0.197	4.0 - 5.0	012-200-SP	012-200	–	–
0.197 - 0.236	5.0 - 6.0	012-240-SP	012-240	–	–
0.236 - 0.276	6.0 - 7.0	012-280-SP	012-280	–	–

ECX/ER 16 Collets

L_1 = Total Length: 1.063'' (27 mm) A = Max. Dia: 0.669'' (17 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
0.020 - 0.039	0.5 - 1.0	016-040-SP	016-040	1/16”	016-004ISP	016-004-I
UP 0.039 - 0.059	**UP** 1.0 - 1.5	–	016-060	3/32”	016-006ISP	–
SP 0.039 - 0.079/ **UP** 0.059 - 0.079	**SP** 1.0 - 2.0 / **UP** 1.5 - 2.0	016-080-SP	016-080	1/8”	016-008ISP	016-008-I
UP 0.079-0.098	UP 2.0 - 2.5	–	016-100	5/32”	016-010ISP	–
SP 0.079-0.118/**UP** 0.098 - 0.118	**SP** 2.0 - 3.0 / **UP** 2.5 - 3.0	016-120-SP	016-120	3/16"	016-012ISP	016-012-I
0.118 - 0.158	3.0 - 4.0	016-160-SP	016-160	7/32"	016-014ISP	–
0.158 - 0.197	4.0 - 5.0	016-200-SP	016-200	1/4"	016-016ISP	016-016-I
0.197 - 0.236	5.0 - 6.0	016-240-SP	016-240	9/32"	016-018ISP	–
0.236 - 0.276	6.0 - 7.0	016-280-SP	016-280	5/16"	016-020ISP	016-020-I
0.276 - 0.315	7.0 - 8.0	016-320-SP	016-320	11/32"	016-022ISP	–
0.315 - 0.354	8.0 - 9.0	016-360-SP	016-360	3/8"	016-024ISP	016-024-I
0.354 - 0.394	9.0 - 10.0	016-400-SP	016-400	–	–	–



Collet Sets

Order No.	No. of Pieces	Device Type	Range
016-ST10SP	10 PC (Metric)	ECX/ER 16 SP Collet Set	1 mm to 10 mm By 1 mm Incr.
016-ST12	12 PC (Metric)	ECX/ER 16 UP Collet Set	1 mm to 3 mm By 0.5 mm Incr. 4 mm to 10 mm By 1 mm Incr.
016-ST6SP	6 PC (Inch)	ECX/ER 16 SP Collet Set	1/16" to 3/8" By 16ths Incr.
016-ST11SP	11 PC (Inch)	ECX/ER 16 SP Collet Set	1/16" to 3/8" By 32nds Incr.

ECX (ER) Super Flex
Standard & Ultra Precision Collets

ECX/ER 20 Collets
L_1 = Total Length: 1.220" (31 mm) A = Max. Dia: 0.826" (21 mm)

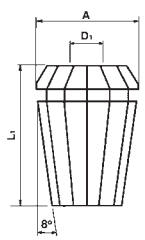
METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
0.020 - 0.039	0.5 - 1.0	020-040-SP	020-040	3/32"	020-006ISP	–
UP 0.039 - 0.059	**UP** 1.0 - 1.5	–	020-060	1/8"	020-008ISP	020-008-I
SP 0.039 - 0.079 / **UP** 0.059 - 0.079	**SP** 1.0 - 2.0 / **UP** 1.5 - 2.0	020-080-SP	020-080	5/32"	020-010ISP	–
UP 0.079 - 0.098	**UP** 2.0 - 2.5	–	020-100	3/16"	020-012ISP	020-012-I
SP 0.079 - 0.118 / **UP** 0.098 - 0.118	**SP** 2.0 - 3.0 / **UP** 2.5 - 3.0	020-120-SP	020-120	7/32"	020-014ISP	–
0.118 - 0.158	3.0 - 4.0	020-160-SP	020-160	1/4"	020-016ISP	020-016-I
0.158 - 0.197	4.0 - 5.0	020-200-SP	020-200	9/32"	020-018ISP	–
0.197 - 0.236	5.0 - 6.0	020-240-SP	020-240	5/16"	020-020ISP	020-020-I
0.236 - 0.276	6.0 - 7.0	020-280-SP	020-280	11/32"	020-022ISP	–
0.276 - 0.315	7.0 - 8.0	020-320-SP	020-320	3/8"	020-024ISP	020-024-I
0.315 - 0.354	8.0 - 9.0	020-360-SP	020-360	13/32"	020-026ISP	–
0.354 - 0.394	9.0 - 10.0	020-400-SP	020-400	7/16"	020-028ISP	020-028-I
0.393 - 0.433	10.0 - 11.0	020-440-SP	020-440	15/32"	020-030ISP	–
0.433 - 0.472	11.0 - 12.0	020-480-SP	020-480	1/2"	020-032ISP	020-032-I
0.472 - 0.512	12.0 - 13.0	020-520-SP	020-520	–	–	–

Collet Sets

Order No.	No. of Pieces	Device Type	Range
020-ST13SP	13 PC (Metric)	ECX/ER 20 SP Collet Set	1 mm to 13 mm By 1 mm Incr.
020-ST15	15 PC (Metric)	ECX/ER 20 UP Collet Set	1 mm to 3 mm By 0.5 mm Incr. 4 mm to 13 mm By 1 mm Incr.
020-ST7SP	7 PC (Inch)	ECX/ER 20 SP Collet Set	1/8" to 1/2" By 16ths Incr.
020-ST14SP	14 PC (Inch)	ECX/ER 20 SP Collet Set	3/32" to 1/2" By 32nds Incr.

ECX/ER 25 Collets
L_1 = Total Length: 1.338" (34 mm) A = Max. Dia: 1.023" (26 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
0.020 - 0.039	0.5 - 1.0	025-040-SP	025-040	3/32"	025-006ISP	–
UP 0.039 - 0.059	**UP** 1.0 - 1.5	–	025-060	1/8"	025-008ISP	025-008-I
SP 0.039 - 0.079/ **UP** 0.059 - 0.079	**SP** 1.0 - 2.0 / **UP** 1.5 - 2.0	025-080-SP	025-080	5/32"	025-010ISP	–
UP 0.079 - 0.098	**UP** 2.0 - 2.5	–	025-100	3/16"	025-012ISP	025-012-I
SP 0.079 - 0.118/ **UP** 0.098 - 0.118	**SP** 2.0 - 3.0 / **UP** 2.5 - 3.0	025-120-SP	025-120	7/32"	025-014ISP	–
0.118 - 0.158	3.0 - 4.0	025-160-SP	025-160	1/4"	025-016ISP	025-016-I
0.158 - 0.197	4.0 - 5.0	025-200-SP	025-200	9/32"	025-018ISP	–
0.197 - 0.236	5.0 - 6.0	025-240-SP	025-240	5/16"	025-020ISP	025-020-I
0.236 - 0.276	6.0 - 7.0	025-280-SP	025-280	11/32"	025-022ISP	–
0.276 - 0.315	7.0 - 8.0	025-320-SP	025-320	3/8"	025-024ISP	025-024-I
0.315 - 0.354	8.0 - 9.0	025-360-SP	025-360	13/32"	025-026ISP	–
0.354 - 0.394	9.0 - 10.0	025-400-SP	025-400	7/16"	025-028ISP	025-028-I
0.393 - 0.433	10.0 - 11.0	025-440-SP	025-440	15/32"	025-030ISP	–
0.433 - 0.472	11.0 - 12.0	025-480-SP	025-480	1/2"	025-032ISP	025-032-I
0.472 - 0.512	12.0 - 13.0	025-520-SP	025-520	17/32"	025-034ISP	–
0.512 - 0.551	13.0 - 14.0	025-560-SP	025-560	9/16"	025-036ISP	025-036-I
0.551 - 0.590	14.0 - 15.0	025-600-SP	025-600	19/32"	025-038ISP	–
0.590 - 0.629	15.0 - 16.0	025-640-SP	025-640	5/8"	025-040ISP	025-040-I



Collet Sets

Order No.	No. of Pieces	Device Type	Range
025-ST16SP	16 PC (Metric)	ECX/ER 25 SP Collet Set	1 mm to 16 mm By 1 mm Incr.
025-ST18	18 PC (Metric)	ECX/ER 25 UP Collet Set	1 mm to 3 mm By 0.5 mm Incr. 4 mm to 16 mm By 1 mm Incr.
025-ST9SP	9 PC (Inch)	ECX/ER 25 SP Collet Set	1/8" to 5/8" By 16ths Incr.
025-ST18SP	18 PC (Inch)	ECX/ER 25 SP Collet Set	3/32" to 5/8" By 32nds Incr.

ECX (ER) Super Flex
Standard & Ultra Precision Collets

ECX/ER 32 Collets

L_1 = Total Length: 1.575'' (40 mm) A = Max. Dia: 1.299'' (33 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
UP 0.059 - 0.079	UP 1.5 - 2.0	–	032-080	1/8	032-008ISP	032-008-I
UP .079 - 0.098	UP 2.0 - 2.5	–	032-100	5/32	032-010ISP	–
SP 0.079 - 0.118 / UP 0.098 - 0.118	SP 2.0 - 3.0 / UP 2.5 - 3.0	032-120-SP	032-120	3/16	032-012ISP	032-012-I
0.118 - 0.158	3.0 - 4.0	032-160-SP	032-160	7/32	032-014ISP	–
0.158 - 0.197	4.0 - 5.0	032-200-SP	032-200	1/4	032-016ISP	032-016-I
0.197 - 0.236	5.0 - 6.0	032-240-SP	032-240	9/32	032-018ISP	–
0.236 - 0.275	6.0 - 7.0	032-280-SP	032-280	5/16	032-020ISP	032-020-I
0.275 - 0.315	7.0 - 8.0	032-320-SP	032-320	11/32	032-022ISP	–
0.315 - 0.354	8.0 - 9.0	032-360-SP	032-360	3/8	032-024ISP	032-024-I
0.354 - 0.393	9.0 - 10.0	032-400-SP	032-400	13/32	032-026ISP	–
0.393 - 0.433	10.0 - 11.0	032-440-SP	032-440	7/16	032-028ISP	032-028-I
0.433 - 0.472	11.0 - 12.0	032-480-SP	032-480	15/32	032-030ISP	–
0.472 - 0.512	12.0 - 13.0	032-520-SP	032-520	1/2	032-032ISP	032-032-I
0.512 - 0.551	13.0 - 14.0	032-560-SP	032-560	17/32	032-034ISP	–
0.551 - 0.590	14.0 - 15.0	032-600-SP	032-600	9/16	032-036ISP	032-036-I
0.590 - 0.629	15.0 - 16.0	032-640-SP	032-640	19/32	032-038ISP	–
0.629 - 0.669	16.0 - 17.0	032-680-SP	032-680	5/8	032-040ISP	032-040-I
0.669 - 0.708	17.0 - 18.0	032-720-SP	032-720	21/32	032-042ISP	–
0.708 - 0.748	18.0 - 19.0	032-760-SP	032-760	11/16	032-044ISP	032-044-I
0.748 - 0.787	19.0 - 20.0	032-800-SP	032-800	23/32	032-046ISP	–
–	–	–	–	3/4	032-048ISP	032-048-I

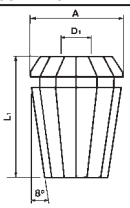
Collet Sets

Order No.	No. of Pieces	Device Type	Range
032-ST18SP	18 PC (Metric)	ECX/ER 32 SP Collet Set	3 mm to 20 mm By 1 mm Incr.
032-ST18	18 PC (Metric)	ECX/ER 32 UP Collet Set	3 mm By 0.5 mm Incr. 4 mm to 20 mm By 1 mm Incr.
032-ST11SP	11 PC (Inch)	ECX/ER 32 SP Collet Set	1/8" to 3/4" By 16ths Incr.
032-ST21SP	21 PC (Inch)	ECX/ER 32 SP Collet Set	1/8" to 3/4" By 32nds Incr.

ECX/ER 40 Collets

L_1 = Total Length: 1.811'' (46 mm) A = Max. Dia: 1.614'' (41 mm)

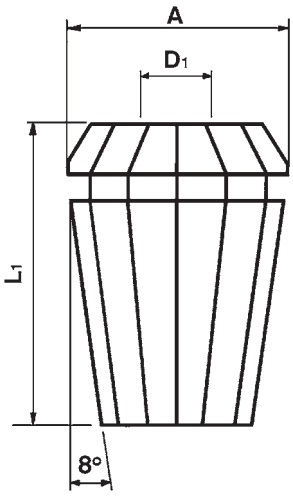
METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	STANDARD PRECISION	ULTRA PRECISION
Inches	Metric (mm)	Order No.	Order No.	Size	Order No.	Order No.
0.118 - 0.158	3.0 - 4.0	040-160-SP	040-160	1/8	040-008ISP	040-008-I
0.158 - 0.197	4.0 - 5.0	040-200-SP	040-200	3/16	040-012ISP	040-012-I
0.197 - 0.236	5.0 - 6.0	040-240-SP	040-240	1/4	040-016ISP	040-016-I
0.236 - 0.275	6.0 - 7.0	040-280-SP	040-280	5/16	040-020ISP	040-020-I
0.275 - 0.315	7.0 - 8.0	040-320-SP	040-320	3/8	040-024ISP	040-024-I
0.315 - 0.354	8.0 - 9.0	040-360-SP	040-360	7/16	040-028ISP	040-028-I
0.354 - 0.393	9.0 - 10.0	040-400-SP	040-400	1/2	040-032ISP	040-032-I
0.393 - 0.433	10.0 - 11.0	040-440-SP	040-440	9/16	040-036ISP	040-036-I
0.433 - 0.472	11.0 - 12.0	040-480-SP	040-480	5/8	040-040ISP	040-040-I
0.472 - 0.512	12.0 - 13.0	040-520-SP	040-520	11/16	040-044ISP	040-044-I
0.512 - 0.551	13.0 - 14.0	040-560-SP	040-560	3/4	040-048ISP	040-048-I
0.551 - 0.590	14.0 - 15.0	040-600-SP	040-600	13/16	040-052ISP	–
0.590 - 0.629	15.0 - 16.0	040-640-SP	040-640	7/8	040-056ISP	040-056-I
0.629 - 0.669	16.0 - 17.0	040-680-SP	040-680	15/16	040-060ISP	–
0.669 - 0.708	17.0 - 18.0	040-720-SP	040-720	1	040-064ISP	040-064-I
0.708 - 0.748	18.0 - 19.0	040-760-SP	040-760	–	–	
0.748 - 0.787	19.0 - 20.0	040-800-SP	040-800	–	–	
0.787 - 0.827	20.0 - 21.0	040-840-SP	040-840	–	–	
0.827 - 0.866	21.0 - 22.0	040-880-SP	040-880	–	–	
0.866 - 0.906	22.0 - 23.0	040-920-SP	040-920	–	–	
0.906 - 0.945	23.0 - 24.0	040-960-SP	040-960	–	–	
0.945 - 0.984	24.0 - 25.0	040-1000SP	040-1000	–	–	
0.984 - 1.024	25.0 - 26.0	040-1040SP	040-1040	–	–	



Collet Sets

Order No.	No. of Pieces	Device Type	Range
040-ST23SP	23 PC (Metric)	ECX/ER 40 SP Collet Set	4 mm to 26 mm By 1 mm Incr.
040-ST23	23 PC (Metric)	ECX/ER 40 UP Collet Set	4 mm to 26 mm By 1 mm Incr.
040-ST15SP	15 PC (Inch)	ECX/ER 40 SP Collet Set	1/8" to 1" By 16ths Incr.

ECX (ER) Super Flex
Standard & Ultra Precision Collets



ECX/ER 50 Collets

L_1 = Total Length: 2.362" (60 mm) A = Max. Dia: 2.047" (52 mm)

METRIC SERIES CLAMPING RANGE		STANDARD PRECISION	ULTRA PRECISION	INCH SERIES	
Inches	Metric (mm)	Order No.	Order No.	Order No.	Size
0.393 - 0.472	10.0 - 12.0	050-480-SP	050-480	–	–
0.472 - 0.551	12.0 - 14.0	050-560-SP	050-560	–	–
0.551 - 0.629	14.0 - 16.0	050-640-SP	050-640	–	–
0.629 - 0.708	16.0 - 18.0	050-720-SP	050-720	–	–
0.708 - 0.787	18.0 - 20.0	050-800-SP	050-800	–	–
0.787 - 0.866	20.0 - 22.0	050-880-SP	050-880	–	–
0.866 - 0.945	22.0 - 24.0	050-960-SP	050-960	–	–
0.945 - 1.024	24.0 - 26.0	050-1040SP	050-1040	–	–
1.024 - 1.102	26.0 - 28.0	050-1120SP	050-1120	–	–
1.102 - 1.181	28.0 - 30.0	050-1200SP	050-1200	–	–
1.181 - 1.259	30.0 - 32.0	050-1280SP	050-1280	–	–
1.259 - 1.338	32.0 - 34.0	050-1360SP	050-1360	–	–

Wooden Collet Trays

ORDER NO.	COLLET STYLE	NUMBER OF HOLES
011-WT	ECX/ER 11	13
016-WT	ECX/ER 16	10
020-WT	ECX/ER 20	12
025-WT	ECX/ER 25	15
032-WT	ECX/ER 32	18
040-WT	ECX/ER 40	23