



Guide Bushes

Bar Feeder Collets

Collets - Main spindle

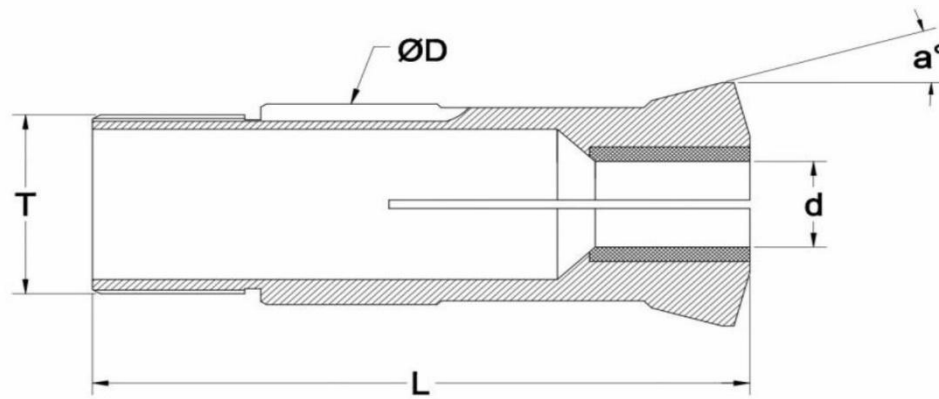
Custom make Collets

ER Holders

Collets - Sub Spindle



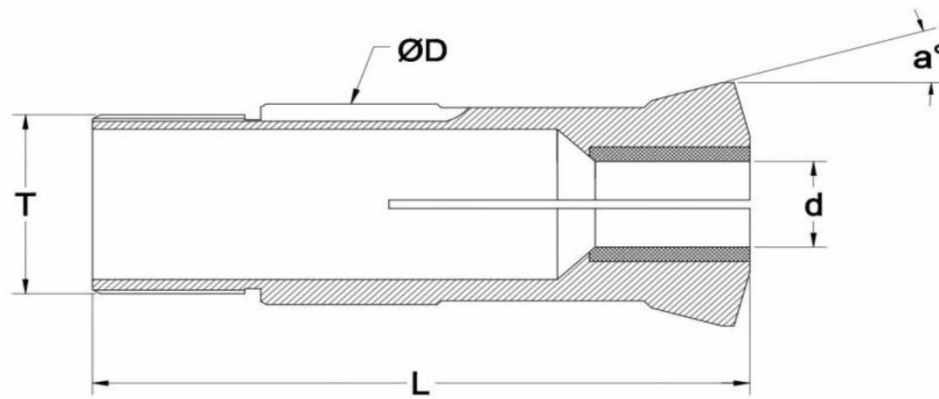
CARBIDE LINED GUIDE BUSH - DRAWN TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	Thread	Angle	Round	Capacity	
	Dia ϕD	Length L				Hexagon	Square
GB 7-02	7	30	M6x0.5	16°	35		
GB 9-01	9	44	M8X0.5	16°	5	4	3
GB 9-03	9	38.5	M8x0.75	16°	5	4	3
GB 9-06	9	51	M8x0.8	30°	5	4	3
GB 9-09	9	44	M8x0.75	16°	5	4	3
GB 10-03	10	58	M10x0.75	12°	5.5	4	3
GB 11-02	11	53	M10x0.75	16°	7	5	4
GB 11-09	11	53	M10x1	16°	7	5	4
GB 11-10	11	57	M10x0.75	16°	7	5	4
GB 11-11	11	52.4	M10x0.75	16°	7	5	4
GB 11-12	11	53	M10x0.80	16°	7	5	4
GB 12-01	12	52	M12x1	30°	7	6	5
GB 12-02	12	50	M10x0.75	16°	7	6	5
GB 12-05	12	50	M10x0.75	16°	7	6	5
GB 12-07	12	50	M12x1	30°	7.5	6	5
GB 12-08	12	50	M10x0.5	30°	7	5	4
GB 12-09	12	50	M12x1	30°	7.5	6	5
GB 13-01	13	41.5	M12x0.75	15°	8	6	5
GB 14-02	14	64	M13x0.75	16°	8.5	7	6
GB 14-03	14	62	M14x1	15°30'	8.5	7	6

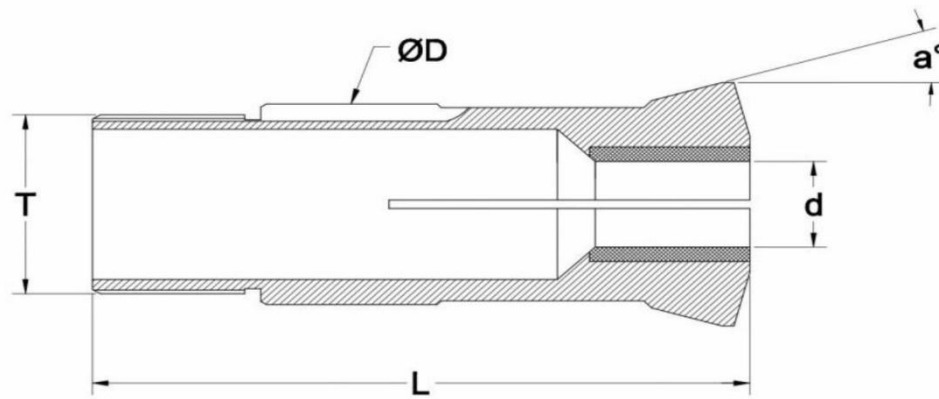
CARBIDE LINED GUIDE BUSH - DRAWN TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	Thread	Angle	Round	Capacity	
	Dia $\varnothing D$	Length L				Hexagon	Square
			T	α°			
GB 15-02	15	54	M14x1	16°	10	8	7
GB 15-03	15	54	M14x0.75	15°	8.5	7	6
GB 16-01	16	50	M14x1	16°	10	8	7
GB 16-03	16	60	M14x1	30°	10	8	7
GB 16-06	16	55	M16x1	30°	10	8	7
GB 16-07	16	63	M14x1	15°30'	10	8	7
GB 16-10	16	58	M14x1	16°	10	8	7
GB 16-12	16	59	M14x1	16°	10	8	7
GB 16-15	16	59	M15x1	16°	11	9	8
GB 16-16	16	58.5	M14x1	20°	10	8	7
GB 16-18	16	63	M14x1	16°30'	10	8	7
GB 18-01	18	59	M16x1	30°	12	10	8
GB 18-02	18	60	M18x1	30°	13	10	9
GB 18-03	18	60	M18x1	30°	13	10	9
GB 18-06	18	76	M18X1	22°	13	10	9
GB 18-08	18	60	M18X1	30°	12.5	10	8
GB 20-01	20	55	M20x1	30°	14	11	9
GB 20-06	20	55	M20x1	30°	13	11	9
GB 20-07	20	58	M18x1	15°	13	11	9
GB 21-03	21	57.5	M18x1	12°	14	11	9

CARBIDE LINED GUIDE BUSH - DRAWN TYPE

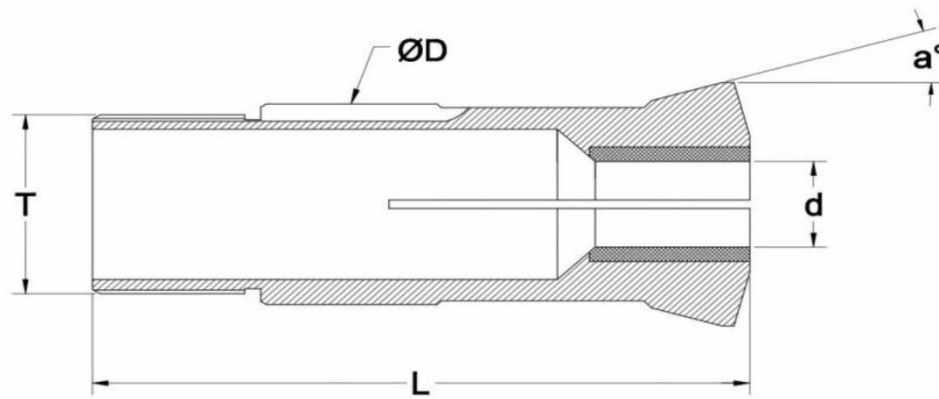


All Dimension are in mm - Unless Otherwise Specified

Capacity

Part Nr.	Sliding	Total	Thread	Angle	Round	Hexagon	Square
	Dia $\varnothing D$	Length L					
			T	α°			
GB 22-01	22	68	M19x1	16°	14	12	10
GB 22-03	22	70	M20x1	15°	15.5	13	11
GB 22-04	22	68	M19X1	16°	15	12	10
GB 22-08	22	68	M22x1	16°	16	13	11
GB 23-01	23	72	M22x1	16°	16.5	14	11
GB 24-03	24	61	M24x1	30°	16	13	11
GB 26-02	26	77	M25x1	16°	20	17	14
GB 26-04	26	71	M24X1.5	15°	18	15	13
GB 27-03	27	57.5	M24x1	12°	18	15	12
GB 28-02	28	81	M25x1	30°	20.5	17	14
GB 28-04	28	82	M25x1	16°	20.5	17	14
GB 28-05	28	82	M27x1	16°	22	18	15
GB 30-01	30	70	M28x1	16°	20.5	17	14
GB 30-02	30	85	M28x1	16°	20.5	17	14
GB 30-04	30	59	M30x1	15°	22	19	16
GB 30-05	30	59	M30x1	16°	22	19	16
GB 30-06	30	68	M30x1	16°	22	19	16
GB 30-07	30	70	M30x1	16°	22	19	16
GB 30-08	30	57.5	M30X1	16°	22	19	16
GB 32-02	32	71	M32x1	30°	23	19	16

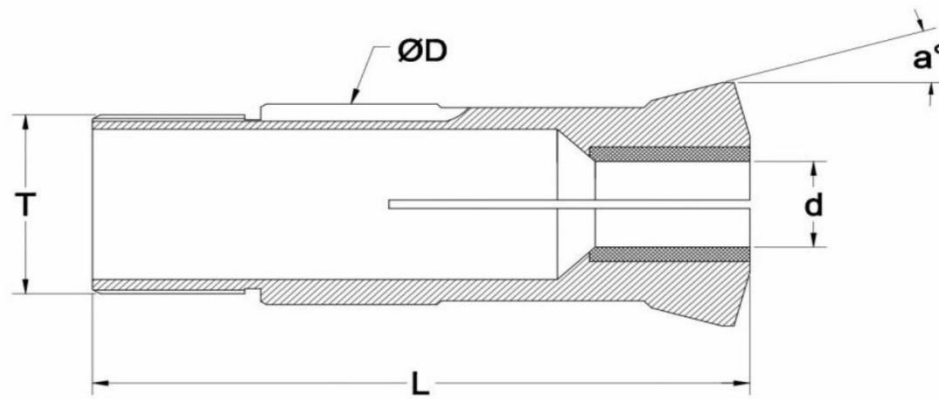
CARBIDE LINED GUIDE BUSH - DRAWN TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	Thread	Angle	Capacity		
	Dia $\varnothing D$	Length L			Round	Hexagon	Square
GB 32-03	32	74	M32x1	30°	24	21	17
GB 33-01	33	70	M30x1	16°	26	22	18
GB 34-02	34	87.5	M34x1	10°	27.5	23	19
GB 34-03	34	87.5	M34X1	10°	27.5	23	19
GB 36-02	36	89.5	M36x1	13°	25	21	18
GB 40-03	40	72	M36x1	30°	29	25	21
GB 40-05	40	72	M40x1	30°	30	25	21
GB 41-01	41	54	M38x1	10°	32	27	22
GB 41-02	41	82	M38x1	10°	32	27	22
GB 41-03	41	82	M38X1	10°	32	27	22
GB 41-04	41	54	M38X1	10°	30	26	21
GB 42-01	42	82	M40x1	16°	33	28	23
GB 42-02	42	82	M40x1	$20^\circ 30'$	33	28	23
GB 42-04	42	82	M40x1	20°	33	28	23
GB 44-01	44	87	M40x1	20°	33	28	23
GB 45-01	45	82	M42x1	16°	36	30	25
GB 46-01	46	92	M45x1	16°	38	32	26
GB 46-02	46	82	M45x1	16°	38	32	26
GB 48-02	48	81	M48x1.25	30°	38	33	27
GB 48-04	48	82	M46x1	16°	38	33	27

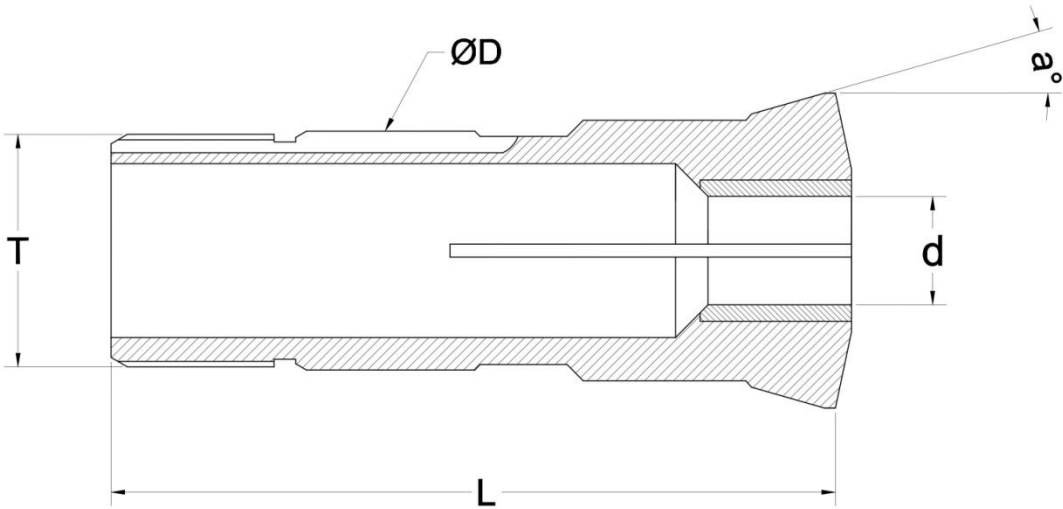
CARBIDE LINED GUIDE BUSH - DRAWN TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	Thread	Angle	Capacity		
	Dia	Length			Round	Hexagon	Square
	$\varnothing D$	L	T	a°			
GB 48-06	48	81	M46x1	10°	38	33	27
GB 48-08	48	82	M46X1	16°	38	33	27
GB 50-02	50	82	M49x1	19°	42	36	29
GB 52-01	52	99	M48x1.5 LH	10°	40	34	28
GB 52-02	52	95	M50x1	16°	43	37	30

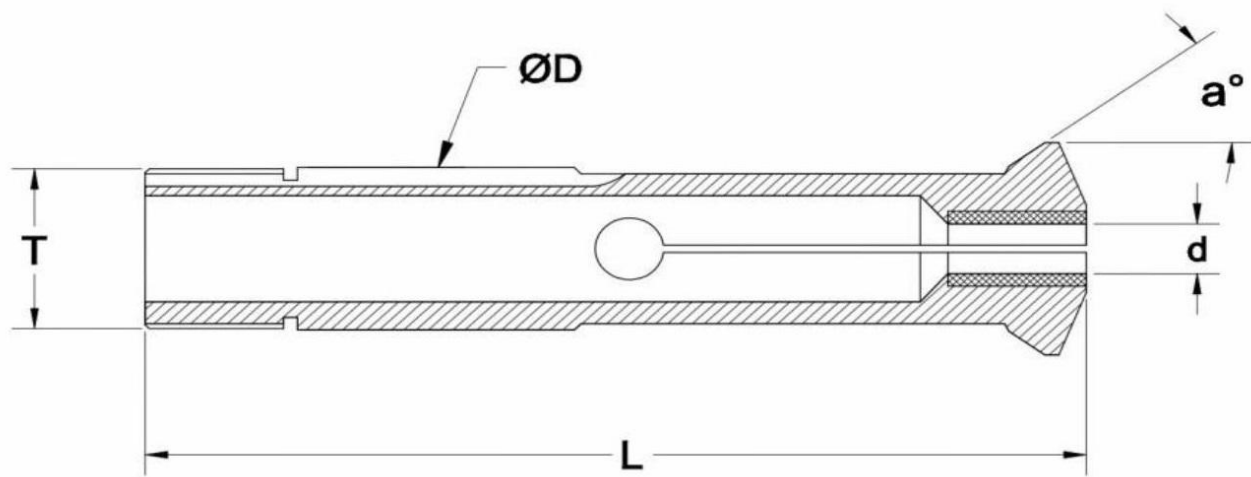
CARBIDE LINED GUIDE BUSH - REINFORCED SHANK TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Total Length	Thread	Angle	Capacity		
					Round	Hexagon	Square
	ϕD	L	T	α°			
GB 22-05	22	68	M22x1	16°	16	13	11
GB 34-06	34	150	M32x1.50	20°	27	22	19

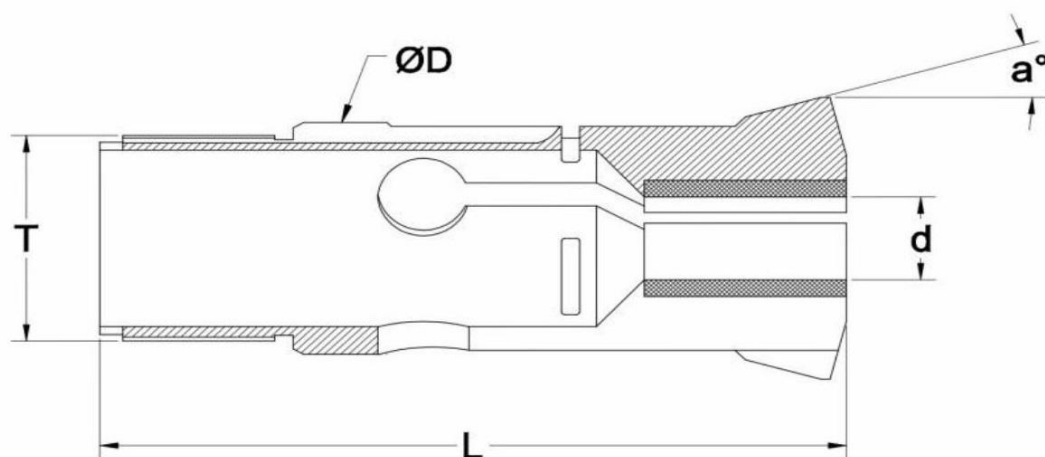
CARBIDE LINED GUIDE BUSH - MAGIC TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	Thread	Angle	Capacity		
	Dia	Length			Round	Hexagon	Square
	$\varnothing D$	L	T	a°			
GB 10/02	10	58	M10x1	36°	5.5	4	3
GB 13/02	13	68	M13x1	36°	8	6	5
GB 18/05	18	68	M18x1	36°	13	10	9

CARBIDE LINED GUIDE BUSH - TRAUB

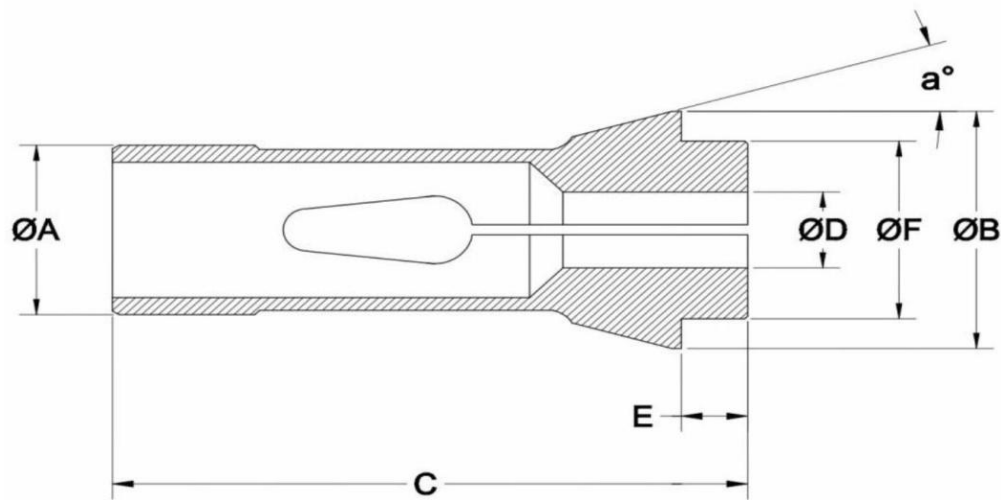


All Dimension are in mm - Unless Otherwise Specified

Part Nr.					Capacity		
	Sliding	Total	Thread	Angle	Round	Hexagon	Square
	Dia ϕD	Length L	T	α°			
GB 21/07	21	65.5	M18x1	12°	13.5	11	9
GB 27/01	27	67.5	M24x1	12°	18	15	13
GB 28/06	28	81.2	M25x1	16°	21	18	15
GB 42/07	42	81	M40x1	16°	33	28	23



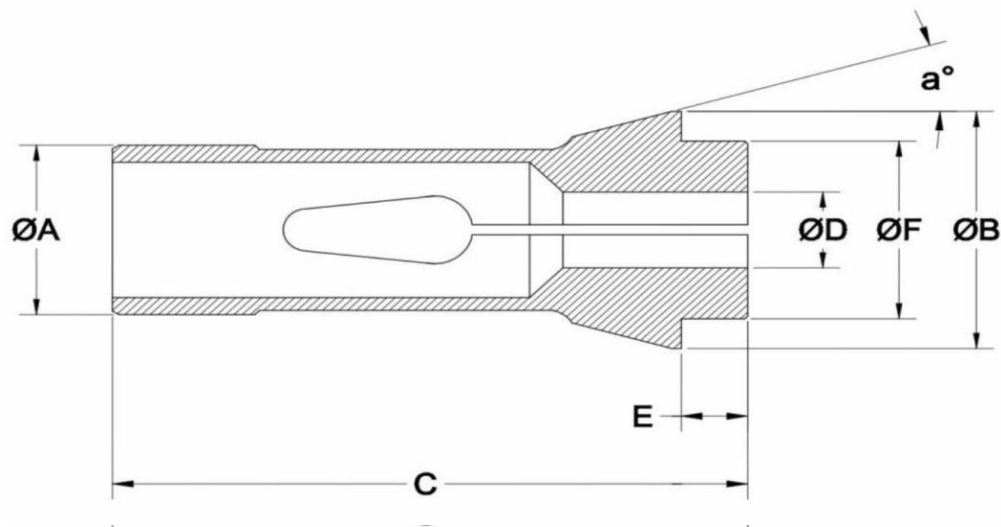
F - TYPE WITH STRAIGHT SLIDING FACE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Angular	Total	Front	Front	Angle	Capacity		
	Dia	Sliding		Extension	Extension		Round	Hexagon	Square
	ΦA	ΦB	C	E	ΦF	a°			
SFC 7-66	7	10.7	26	2.9	7	15°	4.5	3	3
SFC 7-206	7	10.5	26	3	7	15°	4.5	3	3
SFC 8-577	8	12	42	4.5	8	16°	5.5	4	3
SFC 8-1079	8	12	41	3.5	8	16°	4.5	3	3
SFC 10-86	10	15.5	47.5	5.5	10	20°	7	5	4
SFC 10-1178	10	16	46	4	10	20°	7	5	4
SFC 10-9054	10	16	47	5	10	20°	7	6	5
SFC 10-9096	10	15	43	5	10	15°	6.5	5	4
SFC 12-78	12	18.1	44.5	4.3	12	15°	8	6	5
SFC 12-578	12	18	64	6	12	16°	8	6	5
SFC 13-357	13	19	64	6	13	16°	10	8	7
SFC 14-98	14	18	46	4	14	13°	10	8	7
SFC 15-358	15	22	47	5	15	20°	10.5	9	7
SFC 15-580	15	21	64	6	15	16°	11	9	8
SFC 15-9005	15	20	45.5	2.5	15	15°	10	8	7
SFC 15-9012	15	21	64	6	17.5	16°	11.5	9	8
SFC 16-104	16	22	55	5	16	15°	12	10	8
SFC 16-1076	16	21	64	6	16	16°	12	10	8
SFC 16-9070	16	21	62	4	16	16°	12	10	8
SFC 16-9098	16	21	62	4	16	16°	12	10	8

F - TYPE WITH STRAIGHT SLIDING FACE

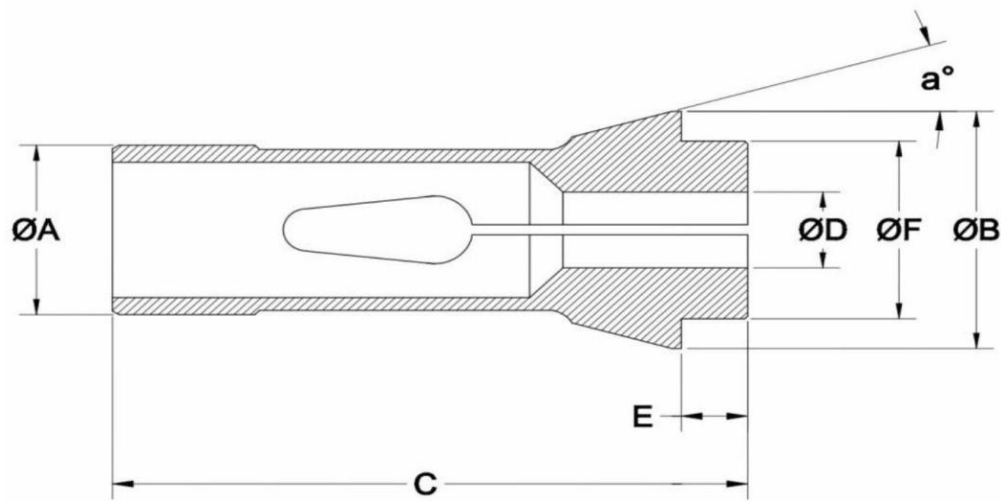


All Dimension are in mm - Unless Otherwise Specified

Capacity

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	Front Extension Length	Front Extension Dia	Angle	Round	Hexagon	Square
	ΦA	ΦB	C	E	ΦF	a°			
SFC 18-85	18	25	67	7	19.5	15°	14	11	9
SFC 20-87	20	28	67	7	21	16°	16	13	11
SFC 20-102	20	27.5	60	5	20	15°	16	13	11
SFC 20-201	20	26	54	5	19	15°	16	13	11
SFC 20-9026	20	26	67	3	19	16°	16	13	11
SFC 22-727	22	32	66	7	25	16°	17	15	12
SFC 23.8-9020	23.8	28	62	7	22	15°	18	15	12
SFC 24-9003	24	28	62	7	22	15°	17	15	12
SFC 25-64	25	35	77	10	27	16°	20	17	14
SFC 25-91	25	34	65	6	25	15°	20	17	14
SFC 25-9015	25	35	85	18	27	16°	20	17	14
SFC 25-9091	25	35	72	5	27	16°	20	17	14
SFC 26-90	26	32	67	7	27.5	13°	20.5	17	14
SFC 26-9021	26	36	67	7	28	15°	20.5	17	14
SFC 27-22	27	38	72.7	8	30	15°	23	19	16
SFC 28-93	28	38	70	7	28	15°	23	19	16
SFC 28-9004	28	35	77	10	27.5	16°	22.5	19	16
SFC 30-63	30	42	80	10	34	16°	25	21	17
SFC 30-101	30	38	65	6	32	15°	25	21	17
SFC 30-9044	30	42	80	12	32	16°	25	22	18

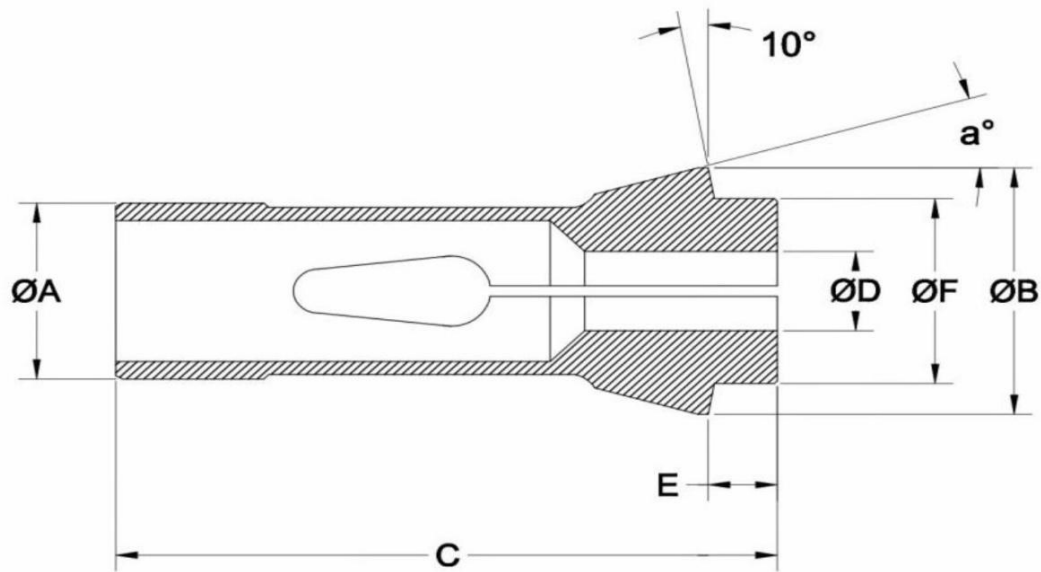
F - TYPE WITH STRAIGHT SLIDING FACE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Angular	Total	Front	Front	Angle	Capacity		
	Dia	Sliding		Extension	Extension		Round	Hexagon	Square
	ϕA	Dia	C	Length	Dia	a°			
SFC 30-9066	30	ϕB	78	E	ϕF	16°	25	22	18
SFC 32-1023	32	40	65	6	34	15°	26	22	18
SFC 33-9043	33	40	80	12	32	16°	28	24	20
SFC 37-740	37	47	92	10	40	16°	32	27	22
SFC 40-9074	40	50	92	10	43	16°	35	30	24
SFC 44-9082	44	52	92	10	44	$16^\circ 30'$	38	32	27
SFC 44.4-9061	44.4	54.5	64	8.5	42	15°	37	31	26

F - TYPE WITH ANGULAR SLIDING FACE

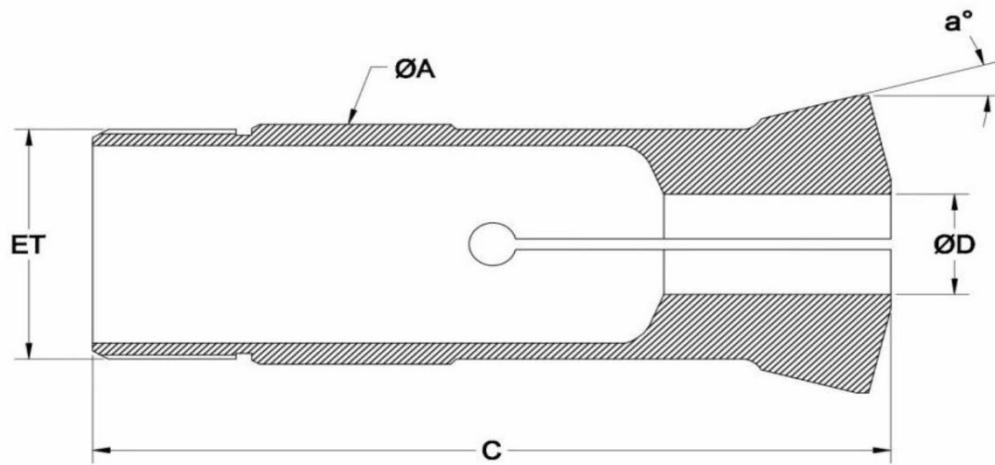


All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Angular	Total	Front	Front	Angle	Capacity		
	Dia	Sliding		Extension	Extension		Round	Hexagon	Square
	ϕA	ϕB	C	E	ϕF	a°			
SFC 17.46-79	17.46	22	51	5	16	15°	13.5	11	9
SFC 22-71	22	30	55	6	21	15°	16.5	14	11
SFC 32-221	32	45	75	8	34	15°	26	22	18
SFC 35-94	35	48	80	8	38	15°	30	25	21
SFC 37-9087	37	44	91	5.7	38	16°	32	27	22
SFC 38-72	38.08	49	107.5	9	38	15°	32	27	22
SFC 42-99	42	55	94	9	42	15°	36	30	25
SFC 43-37	43	53	92	10	46	16°	38	33	27
SFC 43-9078	43	53	92	10	42	15°	35	30	25
SFC 48-38	48	54	100	10	44	15°	39	34	28
SFC 48-81	48	60	94	9	50	15°	42	36	29
SFC 48-9079	48	54	100	10	44	15°	41	35	29
SFC 58-355	58	70	94	9	60	15°	51	44	36
SFC 58-9046	58	70	94	9	60	15°	51	44	36
SFC 66-359	66	84	110	9	73	15°	59	48	39



COLLETS - EXTERNAL THREADED

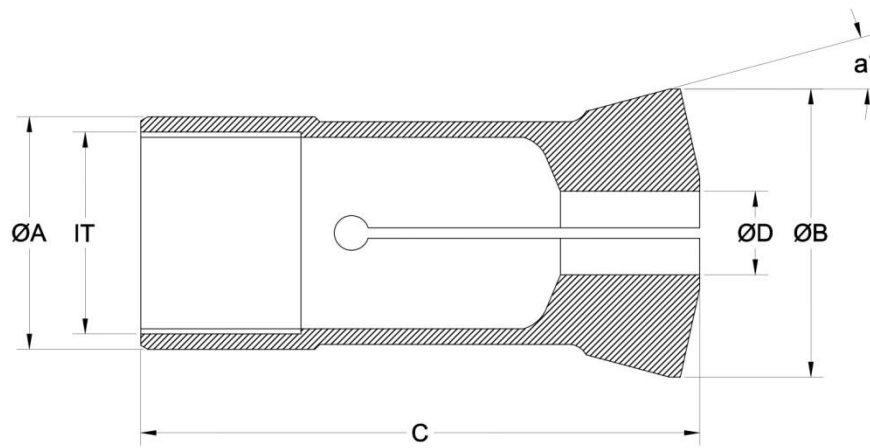


All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Total	External	Angle	Capacity		
	Dia	Length	Thread		Round	Hexagon	Square
	ϕA	C	ET	α°			
SFC 19/9018	19.05	77	M18.3x1.2	15°	13.5	11	9
SFC 33/9017	33	100	M32x1.5	15°	27.0	23	19
359E	23	93.8	Tr23x1.5	20°	18.0	15	12
363E	25	89	M23x1	16°	18.0	15	12
366E	28	106.5	Tr27x20TPI	18°30'	21.0	17	14
367E	28	104.4	Tr28x1.5	20°	22.0	19	15
386E	32	115	Tr32x1.5	20°	27.0	23	19
390E	47	115	Tr47x1.5	20°	38.0	32	26



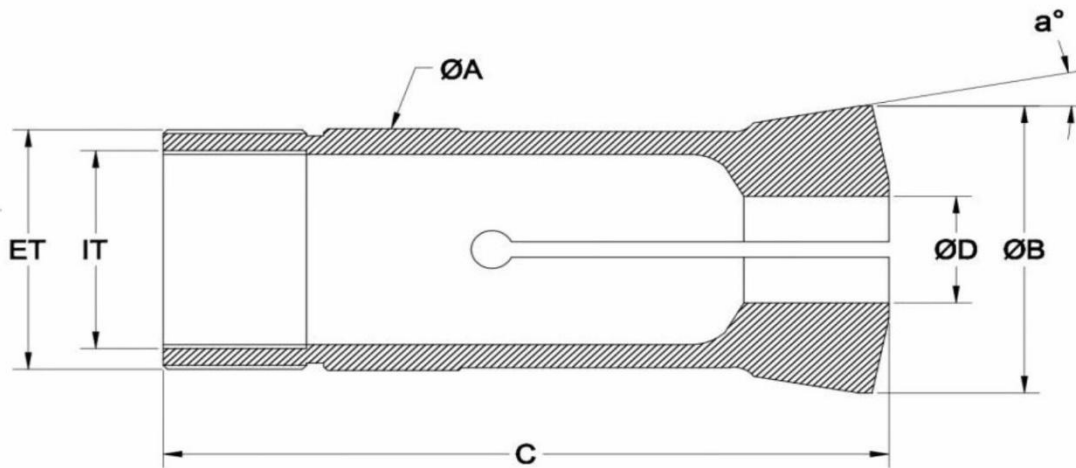
COLLETS - INTERNAL THREADED



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	Internal Thread	Angle	Capacity		
						Round	Hexagon	Square
	ϕA	ϕB	C	IT	a°			
SFC 30/9019	30	38	75	M25X1.5	15°	22.5	19	16
HT-58/01	58	70	105	M50X1.5	15°	41	35	29

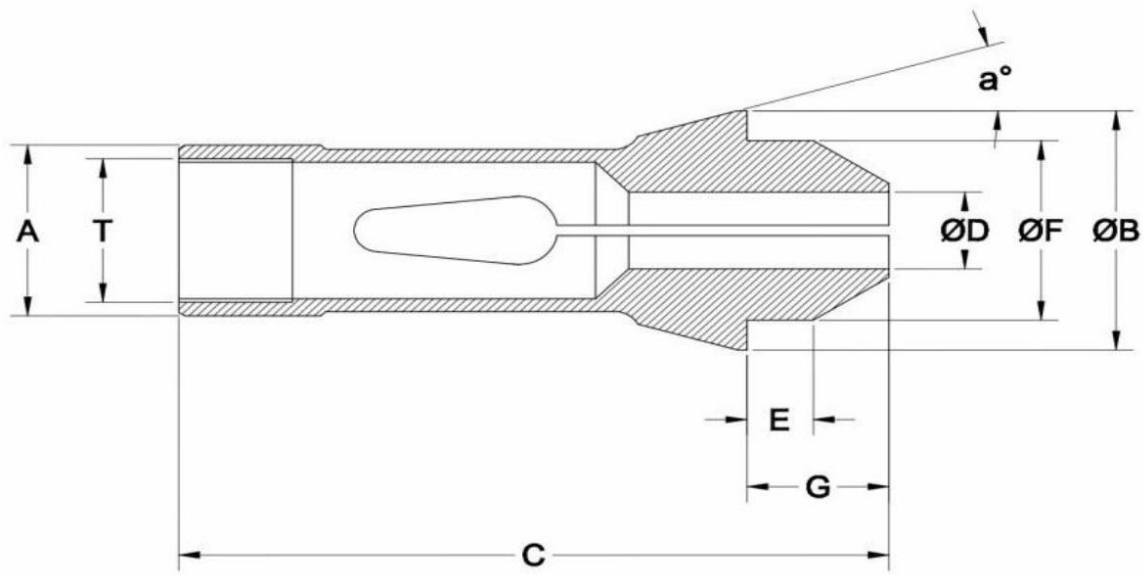
C - TYPE COLLETS



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding	Angular	Total	External	Internal	Angle	Capacity		
	Dia	Sliding Dia	Length	Thread	Thread		Round	Hexagon	Square
	ΦA	ΦB	C	ET	IT				
5C	1.25"(31.75)	1.484"(37.70)	3.268"(83.0)	1.238"x20TPI	1.041"x24TPI	10°	25	21	17
16C	1.889"(48.0)	2.260"(57.40)	4.291"(109.5)	1.870"x1.75	1.687"x20TPI	10°	41	35	29

TAPERED LONG FRONT EXTENSION COLLETS - INTERNAL THREADED

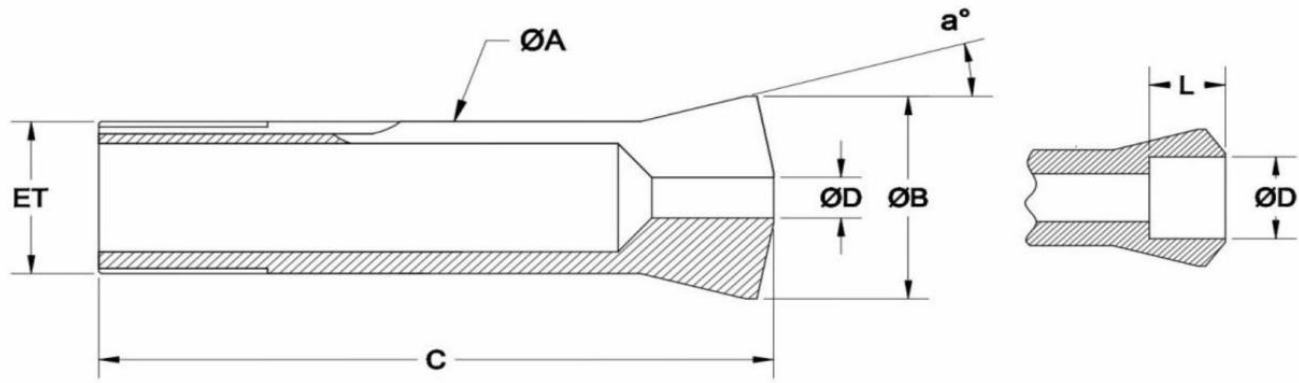


All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia ΦA	Angular Sliding Dia ΦB	Total Length C	Total Front Extension Length G	standard Front Extension Length E	Front Extension Dia ΦF	Angle a°	Thread T	Capacity		
									Round	Hexagon	Square
SFC 13/2014	13	19	70	12	6	13	16°	M11x0.75	8	8	6
SFC 16/830	16	21	66	8	6	16	16°	M14x0.75	12.5	10	8
SFC 16/2015	16	21	71	13	6	16	16°	M14x0.75	12.5	10	8
SFC 20/2016	20	2b	62	13	5	19	15°	M18x1	15.5	13	11
SFC 25/2018	25	35	85	18	9	27	16°	M22x1	20	17	14

W - TYPE COLLETS

Fig.1



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Front Extension Length	Angle	Fig.	Bore Length	Capacity
	ΦA	ΦB	C	ET	E	a°		L	ΦD min - max
SWC 10/001	10	14	43.6	$\Phi 9.83 \times 0.833 <) 45^\circ/5^\circ$	-	15°	1	-	1.00...6.70
								15	6.71...8.00
								6	8.01...8.50
								5	8.51...9.00
								4	9.01...9.50
								3	9.51...10.00
SWC 12/002	12	16	46	$\Phi 11.75 \times 1.25 <) 45^\circ/5^\circ$	-	15°	1	-	1.00...8.00
								17	8.01...10.00
								6	10.01...10.50
								5	10.51...11.00
								4	11.01...11.50
								3	11.51...12.00
SWC 12/93108	12	16	52	$\Phi 11.75 \times 1.25 <) 45^\circ/5^\circ$	8.8	15°	2	-	1.00...8.00
								24	8.01...10.00
SWC 15/003	15	20.2	58.3	$\Phi 14.75 \times 1.25 <) 45^\circ/5^\circ$	-	15°	1	-	1.00...10.70
								22	10.71...12.70
								9.5	12.71...13.00
								8.5	13.01...13.50
								7.5	13.51...14.00
								6.5	14.01...14.50
								5.5	14.51...15.00
								4.5	15.01...15.50
SWC 15/93285	15	20.2	67	$\Phi 14.75 \times 1.25 <) 45^\circ/5^\circ$	12	15°	2	-	1.00...10.20
								22	10.21...12.70

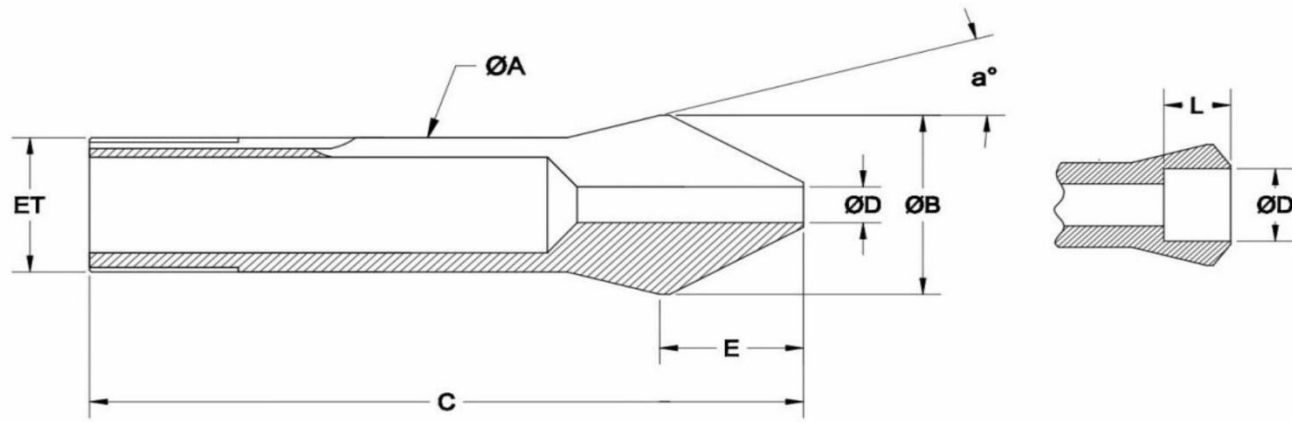
W - TYPE COLLETS

All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Front Extensio n Length	Angle	Fig.	Bore Length	Capacity
	ϕA	ϕB	C	ET	E	α°		L	ϕD min - max
SWC 20/004	20	26.3	73	$\Phi 19.7 \times 1.666 <) 45^\circ/5^\circ$	-	15°	1	-	1.00...14.50
								28	14.51...16.00
								13.5	16.01...16.50
								13	16.51...17.00
								12.2	17.01...17.50
								11.5	17.51...18.00
								10.7	18.01...18.50
								10	18.51...19.00
								8.7	19.01...19.50

Fig.2

W - TYPE COLLETS



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Front Extension Length	Angle	Fig.	Bore Length	Capacity
	ΦA	ΦB	C	ET	E	a°		L	ΦD min - max
SWC 20/004	20	26.3	73	$\Phi 19.7 \times 1.666 <) 45^\circ/5^\circ$	-	15°	1	7.5	19.51...20.00
								6.5	20.01...20.50
								5.5	20.51...21.00
								4.7	21.01...21.50
								4	21.51...22.00
								3	22.01...22.50
								2	22.51...23.00
SWC 20/92744	20	26.3	84.5	$\Phi 19.7 \times 1.666 <) 45^\circ/5^\circ$	15.5	15°	2	-	1.00...13.00
								41	13.01...16.00
SWC 25/005	25	33.7	97.6	$\Phi 24.7 \times 15f'' <) 45^\circ/5^\circ$	-	15°	1	-	1.00...19.05
								35	19.06...21.00
								16.5	21.01...21.50
								16	21.51...22.00
								15.7	22.01...22.50
								15.5	22.51...23.00
								15	23.01...23.50
								14.5	23.51...24.00
								13.5	24.01...24.50
								12.5	24.51...25.00
								11.5	25.01...25.50
								10.5	25.51...26.00
								9.5	26.01...26.50
								8.5	26.51...27.00
								7.5	27.01...27.50
								7	27.51...28.00
								5.5	28.01...28.50
								4.5	28.51...29.00

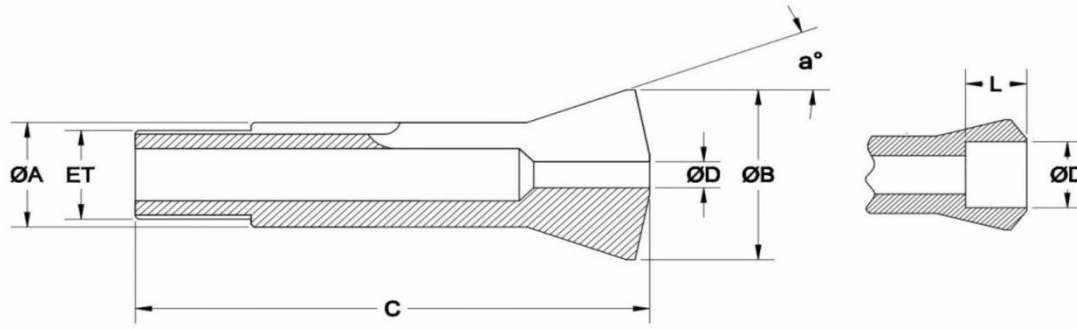
W - TYPE COLLETS

All Dimension are in mm - Unless Otherwise Specified

Capacity

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Front Extension Length	Angle	Fig.	Bore Length	ΦD min - max
	ϕA	ϕB	C	ET	E	α°		L	
SWC 25/92872	25	33.7	112.2	Φ24.7x15f" <) 45°/5°	19.7	15°	2	-	1.00...19.05
								50	19.06...21.00
SWC 31.75/842	31.75	37.4	87	Φ31.4x20f" <) 60°	-	10°	1	-	1.00...25.19
						3'		40	25.20...27.99
								10	28.00...28.99
								7	29.00...29.99
								4	30.00...31.00

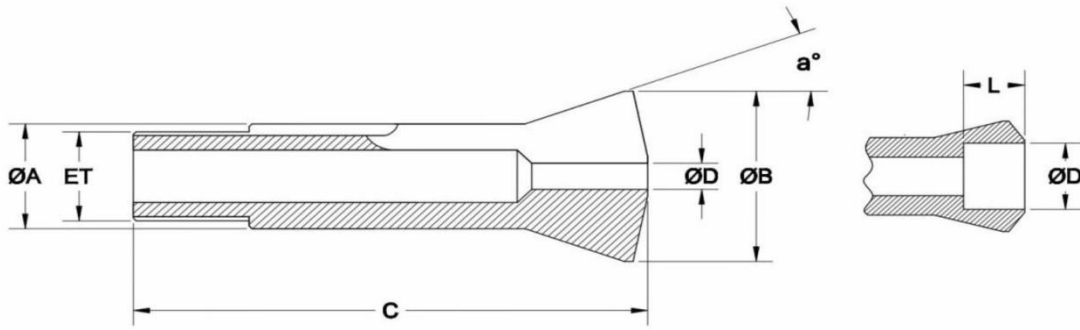
B - TYPE COLLETS



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Angle	Bore Length	Capacity ΦD min - max
	ϕA	ϕB	C	ET	a°	L	
SBC 6/128	6	10.5	31.3	$\Phi 5 \times 36 f'' <) 55^\circ$	20°	-	1.00...3.00
						12	3.01...4.50
						4.5	4.51...5.00
						4	5.01...5.50
						3.5	5.51...6.00
SBC 8/137	8	13	35.5	$\Phi 6.82 \times 0.625 <) 55^\circ$	20°	-	1.00...4.00
						12.5	4.01...6.50
						6	6.51...7.00
						5	7.01...7.50
						4	7.51...8.00
						3.2	8.01...8.50
						2.5	8.51...9.00
						1.7	9.01...9.50
SBC 15/139	15	21	55	M13 x 1	20°	-	9.51...10.00
						1	1.00...9.50
						20	9.51...12.50
						8.5	12.51...13.00
						7.7	13.01...13.50
						7	13.51...14.00
						6.5	14.01...14.50
SBC 32/55	32	40	102	M30 x 1.5	15°	-	14.51...15.00
						6	1.00...24.00
						44	24.01...28.00
						12	28.01...30.00
SBC 32/65	32	40	106	$\Phi 29.7 \times 15 f'' <) 45^\circ / 5^\circ$	15°	-	30.01...32.00
						8	24.01...28.00
						44	28.01...30.00
						12	30.01...32.00

B - TYPE COLLETS



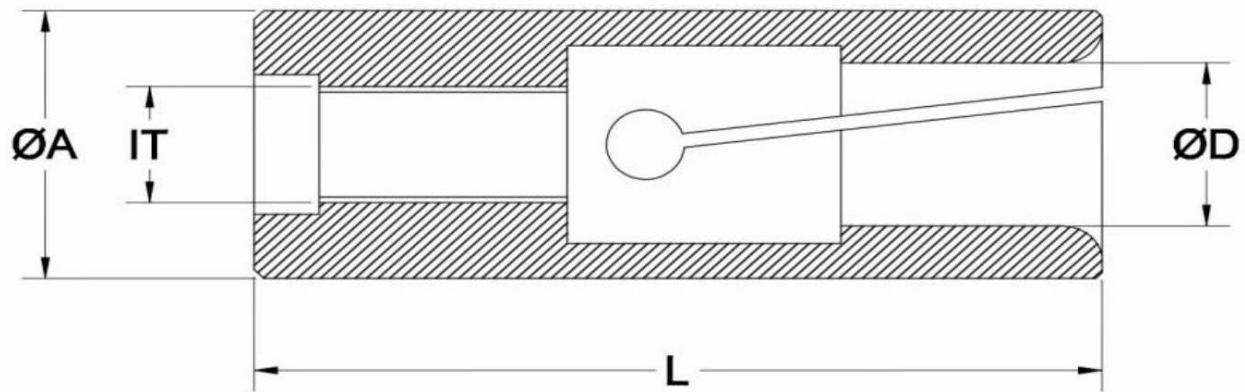
All Dimension are in mm - Unless Otherwise Specified

Capacity

Part Nr.	Sliding Dia	Angular Sliding Dia	Total Length	External Thread	Angle	Bore Length	ΦD min - max
	ϕA	ϕB	C	ET	α°	L	
SBC 45/199	45	53	115	M42 x 1.5	15°	-	1.00...36.00
						53	36.01...40.99
						14	41.00...41.99
						12	42.00...42.99
						10	43.00...43.99
						8	44.00...45.00



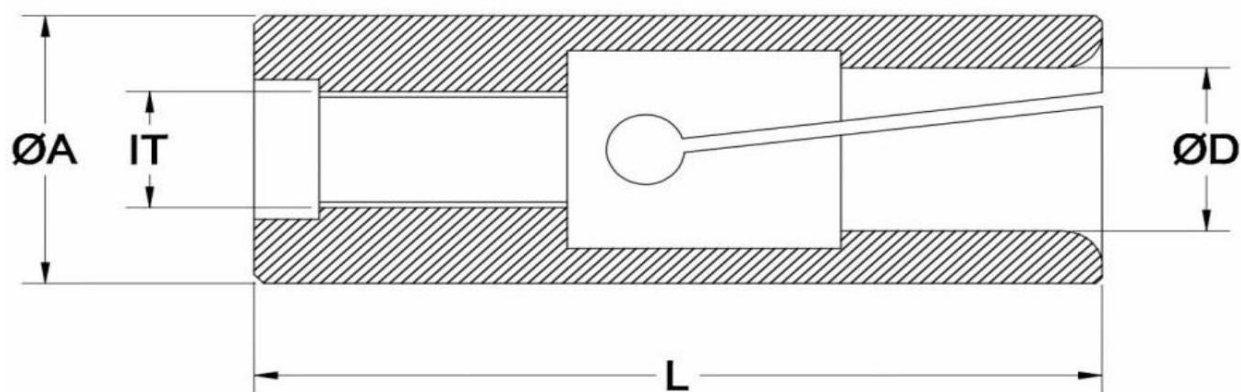
BARFEEDER COLLETS WITH INTERNAL THREAD



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia	Length	Thread	Capacity Range	
	ΦA			$\Phi D \text{ Min}$	$\Phi D \text{ Max}$
BFC 05-01	5.15	37	M4x0.7	1	3.5
BFC 7.5-02	7.5	40	M5x0.50	1	5.5
BFC 08-02	8	50	M4x0.70	1	6
BFC 8.5-01	8.5	30	M5x0.80	1	6
BFC 09-01	9	40	M6x0.75	1	7
BFC 9.5-02	9.5	45	M5x0.80 LH	1	7.5
BFC 9.5-03	9.5	45	M5x0.80	1	7.5
BFC 10-03	10	46	M6x1 LH	1	8
BFC 10-04	10	42	M6x0.75	1	8
BFC 10-06	10	50	M5x0.80 LH	1	8
BFC 10-08	10	50	M5x0.80	1	8
BFC 12-01	12	42	M7x0.75	1	10
BFC 12-04	12	40	M6x1 LH	1	10
BFC 12-06	12	42	M7x0.75	1	10
BFC 12-07	12	45	M5x0.80 LH	1	10
BFC 13-01	13	60	M8x1 LH	1	11
BFC 13-02	13	50	M5x0.80 LH	1	11
BFC 14-01	14	42	M8x1	3	12
BFC 14-04	14	42	M7x0.75	3	12
BFC 15-02	15	42	M8x1	3	13
BFC 15-03	15	60	M9x1 LH	3	13

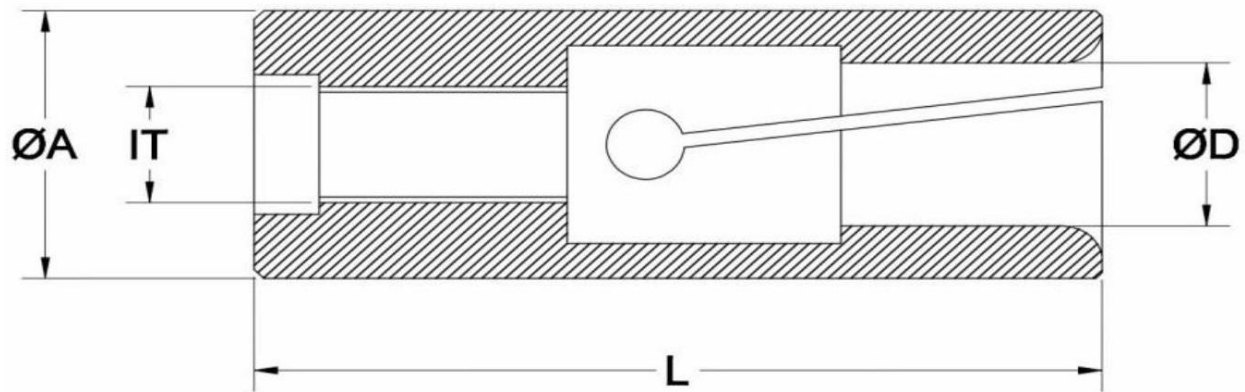
BARFEEDER COLLETS WITH INTERNAL THREAD



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia	Length	Thread	Capacity Range	
	$\varnothing A$	L	IT	$\varnothing D$ Min	$\varnothing D$ Max
BFC 15-04	15	60	M10x1 LH	3	13
BFC 15-07	15	40	M5x0.50	3	13
BFC 15-09	15	73	M10x1 LH	3	13
BFC 15-11	15	60	M10x1	3	13
BFC 15-12	15	60	M8x1	3	13
BFC 15-14	15	85	M12x1 LH	3	13
BFC 15-15	15	50	M9x1 LH	3	13
BFC 15-16	15	16	M8x1 LH	3	13
BFC 16-01	16	73	M10x1 LH	3	14
BFC 16-04	16	58	M9x1 LH	3	14
BFC 16-06	16	42	M8x1	12	14
BFC 18-03	18	42	M9x1 LH	6	16
BFC 18-04	18	60	M9x1 LH	13	16
BFC 18-05	18	59	M10x1 LH	13	16
BFC 18-06	18	59	M10x1	13	16
BFC 19-01	19	59	M10x1	13	17
BFC 19-06	19	60	M9x1 LH	13	17
BFC 19-08	19	40	M8x1	12	17
BFC 19-09	19	50	M5x0.80 LH	13	17
BFC 20-03	20	59	M10x1	4	17
BFC 20-04	20	60	M10x1 LH	13	17

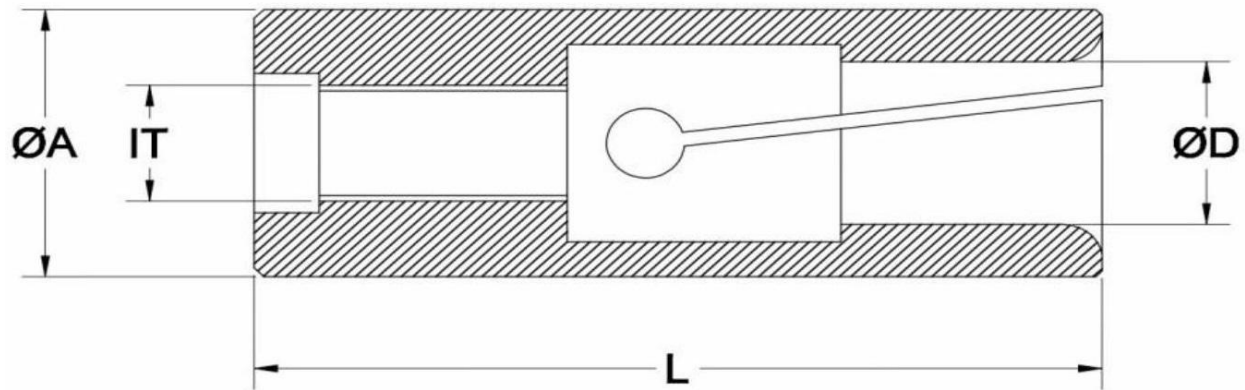
BARFEEDER COLLETS WITH INTERNAL THREAD



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia	Length	Thread	Capacity Range	
	ΦA	L	IT	$\Phi D \text{ Min}$	$\Phi D \text{ Max}$
BFC 20-07	20	60	M10x1	13	17
BFC 20-08	20	59	M9x1 LH	13	17
BFC 20-09	20	42	M10x1	8	17
BFC 20-10	20	59	M9x1	13	17
BFC 22-01	22	59	M10x1	17	19
BFC 22-04	22	59	M9X1LH	17	19
BFC 23-04	23	59	M10x1	17	20
BFC 23-05	23	60	M9x1 LH	17	20
BFC 24-01	24	60	M9x1 LH	17	21
BFC 25-06	25	59	M10x1	17	22
BFC 25-07	25	59	M10x1 LH	17	22
BFC 25-08	25	60	M9x1 LH	17	22
BFC 25-09	25	60	M17x1	13	22
BFC 26.5-01	26.5	65	M17x1	15	23
BFC 27-01	27	65	M10x1 LH	15	24
BFC 27-02	27	65	M10x1	15	24
BFC 27-03	27	59	M9x1 LH	15	24
BFC 29-01	29	65	M18x1.5 LH	17	26
BFC 30-01	30	65	M10x1	24	27
BFC 30-03	30	65	M18x1.5	17	27
BFC 30-04	30	65	M18x1.5 LH	17	27

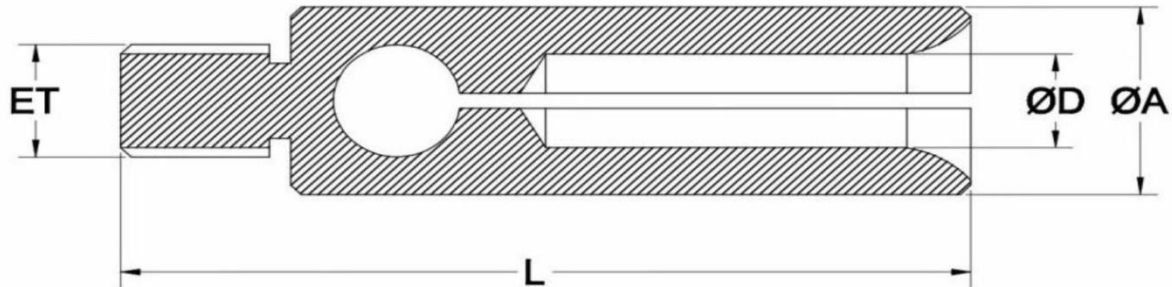
BARFEEDER COLLETS WITH INTERNAL THREAD



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia	Length	Thread	Capacity Range	
	$\varnothing A$	L	IT	$\varnothing D \text{ Min}$	$\varnothing D \text{ Max}$
BFC 30-05	30	65	M10x1 LH	17	27
BFC 32-01	32	70	M17x1 LH	19	29
BFC 32-02	32	80	M25x1.5 LH	19	29
BFC 32-04	32	80	M25x1.5	19	29
BFC 35-02	35	80	M25x1.5	29	32
BFC 35-04	35	80	M25x1.5 LH	29	32
BFC 36-01	36	100	M30x1.5	23	33
BFC 40-01	40	80	M25x1.5	32	37
BFC 42-02	42	90	M25x1.5 LH	29	39
BFC 42-04	42	80	M25x1.5 LH	32	39
BFC 42-05	42	90	M32x1.5 LH	29	39
BFC 42-08	42	80	M25x1.5	29	39
BFC 44-01	44	80	M25x1.5 LH	39	41
BFC 46-01	46	80	M25x1.5	37	43
BFC 46-02	46	80	M25x1.5 LH	41	43

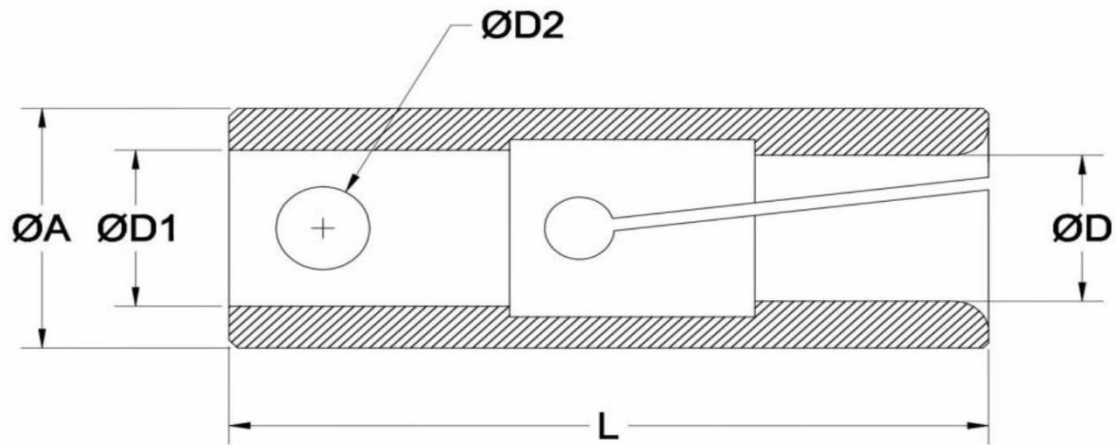
BARFEEDER COLLETS WITH EXTERNAL THREAD



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia	Length	Thread	Capacity Range	
	ϕA			$\phi D \text{ Min}$	$\phi D \text{ Max}$
BFC 5.5-01	5.5	31	M3	1	4
BFC 07-02	7	40	M6x1 LH	1	5
BFC 08-01	8	40	M6x1	1	6
BFC 10-01	10	40	M6x1 LH	1	8
BFC 11.5-01	11.5	40	M6x1	6	10
BFC 12-02	12	40	M6x1 LH	8	10
BFC 15-13	15	40	M6x1 LH	3	13

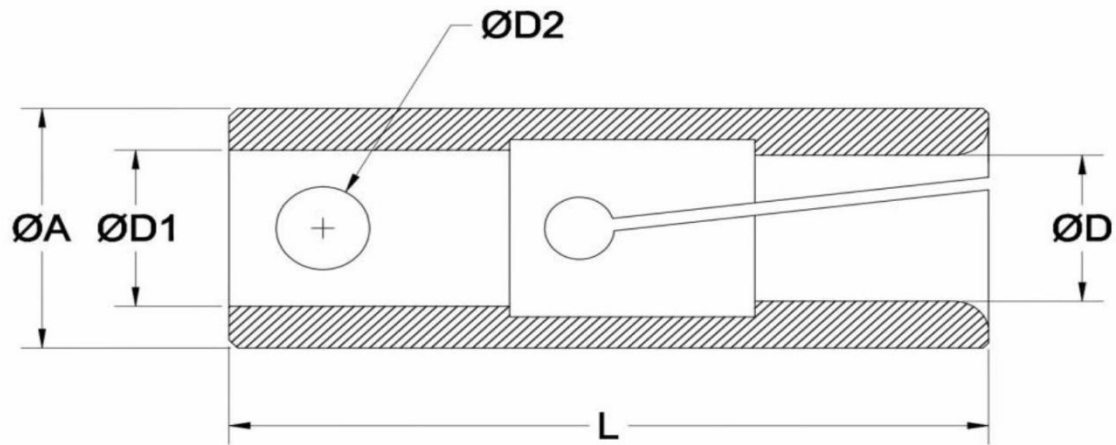
BARFEEDER COLLETS WITH PIN TYPE



All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia ϕA	Length L	Back Bore Dia $\phi D1$	Pin Hole Dia $\phi D2$	Capacity Range	
					$\phi D Min$	$\phi D Max$
BFC 05-02	5	28	3.5	1.5	1	3.5
BFC 07-04	7	37	5	3	1	5.5
BFC 07-07	7	28	3.5	1.5	1	5.5
BFC 10-02	10	40	7	4	1	8
BFC 12-05	12	40	8	4	1	10
BFC 15-01	15	55	10	6	3	13
BFC 15-06	15	40	11	6	3	13
BFC 15-08	15	50	11	6	3	13
BFC 15-10	15	55	7	2	3	13
BFC 16-03	16	65	11	6	3	14
BFC 16-05	16	40	11	6	3	14
BFC 17-01	17	55	7	2	13	15
BFC 17-02	17	45	11	6	5	15
BFC 18-01	18	40	11	6	3	16
BFC 19-02	19	57	10	6	3	17
BFC 19-04	19	57	10	2	3	17
BFC 19-07	19	40	11	6	13	17
BFC 20-05	20	56	10	6	13	17
BFC 20-06	20	65	14	8	3	17
BFC 22-02	22	65	14	8	18	19

BARFEEDER COLLETS WITH PIN TYPE



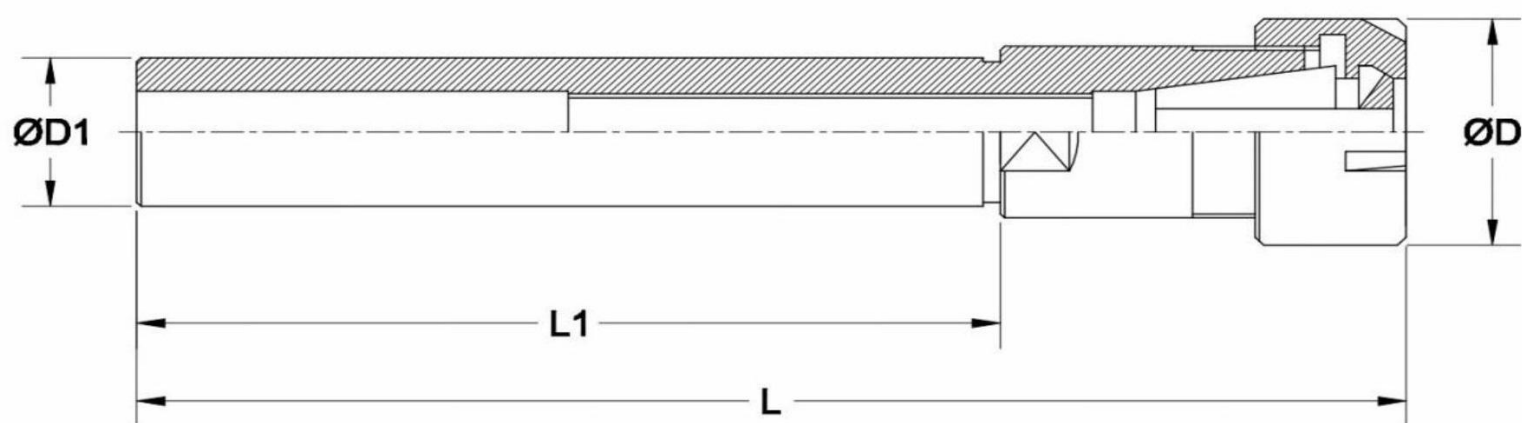
All Dimension are in mm - Unless Otherwise Specified

Part Nr.	Outer Dia $\varnothing A$	Length L	Back Bore Dia $\varnothing D1$	Pin Hole Dia $\varnothing D2$	Capacity Range	
					$\varnothing D Min$	$\varnothing D Max$
BFC 25-02	25	65	20	8	18	22
BFC 25-03	25	76	16	8	3	22
BFC 30-02	30	65	20	8	23	27
BFC 32-05	32	65	20	8	28	29
BFC 32-06	32	76	16	8	23	29
BFC 34-01	34	90	20	8	18	31
BFC 35-03	35	65	20	8	30	32





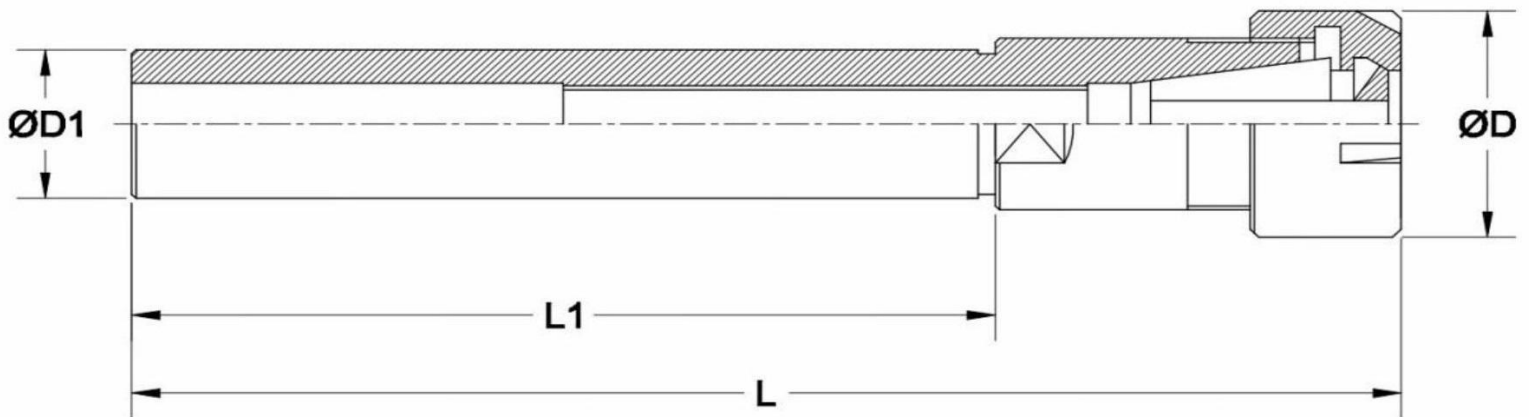
ER Holders



ER Holders - Single End - Mini Nut - Inch series

Part Nr.	$\varnothing D$ mm	$\varnothing D1$ mm	L mm	L1 mm
ERH/SE-3/8" x 070 / ER 8 M	12	9.52	93.0	70
ERH/SE-1/2" x 140 / ER11 M	16	12.70	169.5	140
ERH/SE-1/2" x 140 / ER16 M	22	12.70	177.0	140
ERH/SE-5/8" x 150 / ER11 M	16	15.87	172.5	150
ERH/SE-3/4" x 155 / ER16 M	22	19.05	181.5	155
ERH/SE-3/4" x 100 / ER16 M	35	19.05	147.0	100
ERH/SE-1" x 155 / ER 20 M	28	25.50	181.5	155

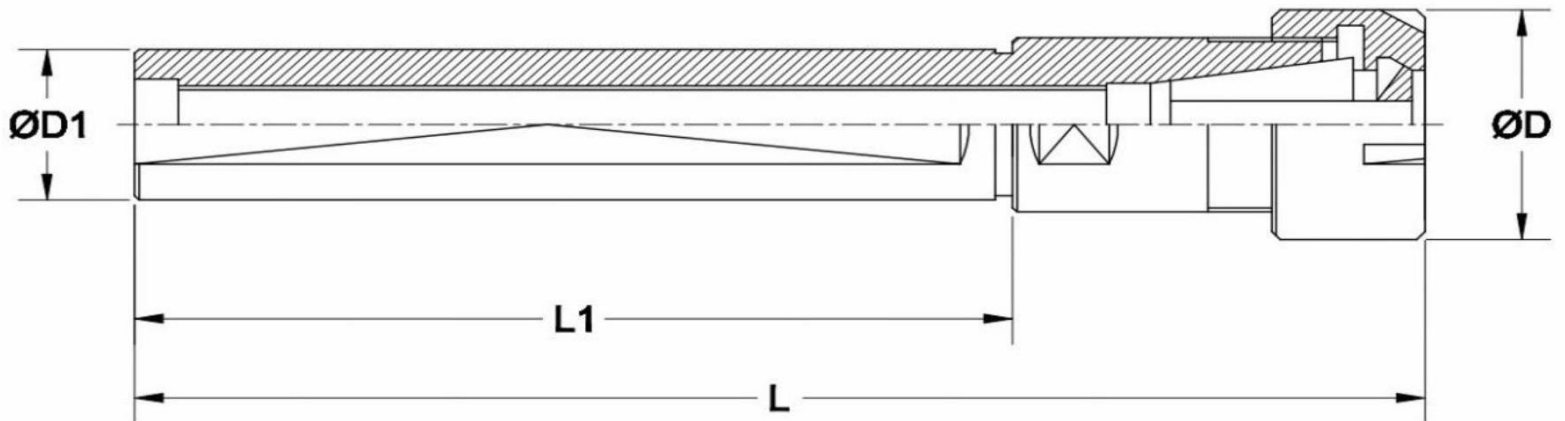
ER Holders



ER Holders - Single End - Mini Nut - Metric series

Part Nr.	$\varnothing D$ mm	$\varnothing D1$ mm	L mm	L1 mm
ERH/SE 06 x 045 / ER 11 M	16	6	71.5	45
ERH/SE 07 x 045 / ER 11 M	16	7	71.5	45
ERH/SE 08 x 080 / ER 8 M	12	8	106.0	80
ERH/SE 08 x 056 / ER11 M	16	8	82.5	56
ERH/SE 10 x 060 / ER16 M	22	10	98.5	60
ERH/SE 12 x 080 / ER 8 M	12	12	97.0	80
ERH/SE 12 x 080 / ER 16 M	22	12	118.5	80
ERH/SE 15 x 100 / ER 20 M	28	15	142.5	100
ERH/SE 16 x 150 / ER 11 M	16	16	171.0	150
ERH/SE 16 x 100 / ER 20 M	28	16	142.5	100
ERH/SE 20 x 155 / ER 16 M	22	20	181.5	155
ERH/SE 25 x 155 / ER 20 M	28	25	181.5	155

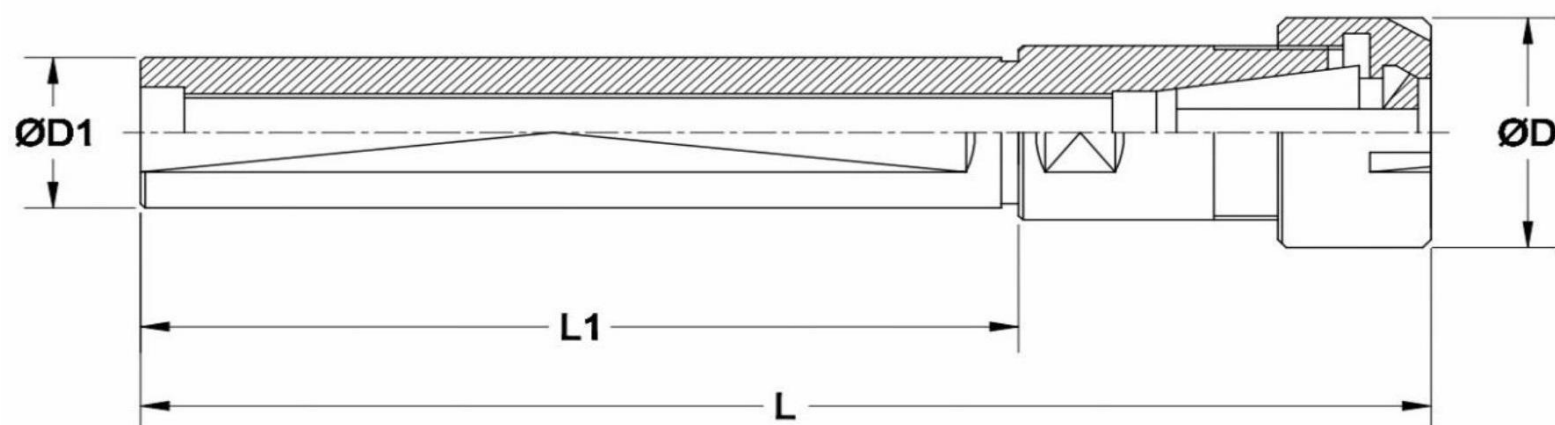
ER Holders



ER Holders - Single End - Flat with Mini Nut - Inch series

Part Nr.	ØD mm	ØD1 mm	L mm	L1 mm
ERH/SE - F - 5/8" x 043/ ER 8 MF	12	15.875	58	43
ERH/SE - F - 3/4" x 115/ ER 11 MF	16	19.05	135	115
ERH/SE - F - 3/4" x 050/ ER 16 MF	22	19.05	78	50
ERH/SE - F - 3/4" x 070/ ER 16 MF	22	19.05	98	70
ERH/SE - F - 3/4" x 120/ ER 16 MF	22	19.05	148	120
ERH/SE - F - 1" x 075 / ER 16 MF	22	25.4	103	75
ERH/SE - F - 1" x 100/ ER 16 MF	22	25.4	128	100
ERH/SE - F - 1" x 100/ ER 20 MF	28	25.4	128	100
ERH/SE - F - 1" x 140/ ER 20 MF	28	25.4	168	140

ER Holders

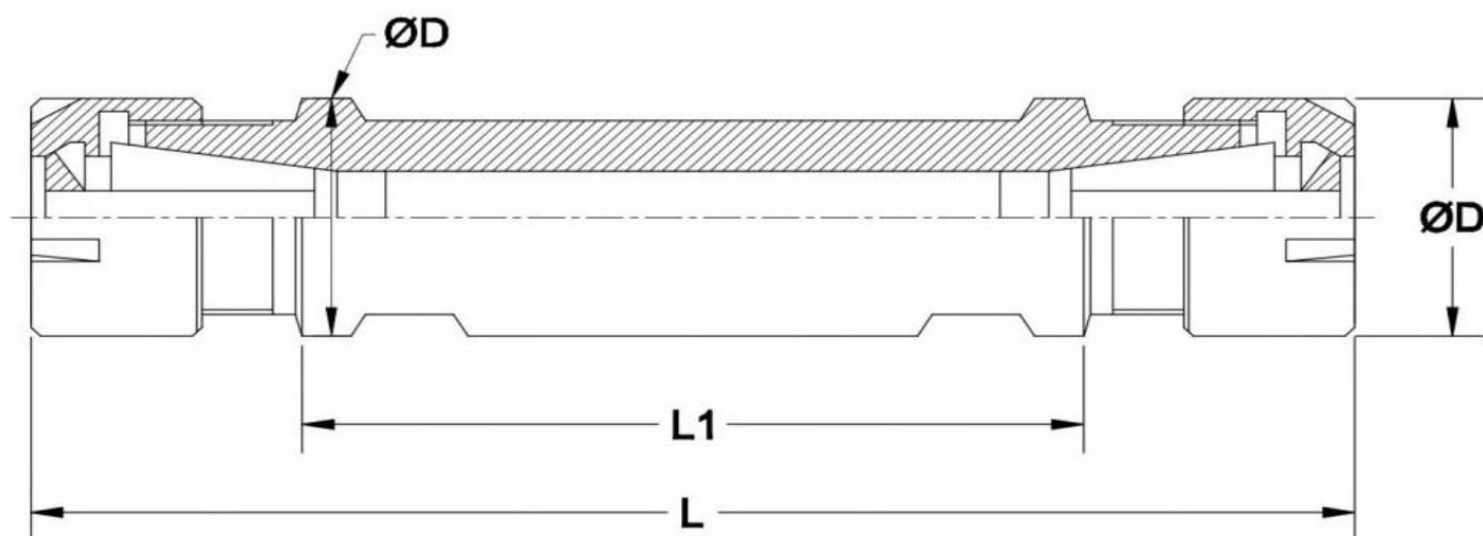


ER Holders - Single End - Flat with Mini Nut - Metric series

Part Nr.	$\varnothing D$ mm	$\varnothing D1$ mm	L mm	L1 mm
ERH/SE - F - 16 x 038/ ER 11 MF	16	16	58	38
ERH/SE - F - 16 x 140/ ER 11 MF	16	16	160	140
ERH/SE - F - 20 x 050/ ER 16 MF	22	20	78	50
ERH/SE - F - 20 x 120/ ER 16 MF	22	20	148	120
ERH/SE - F - 20 x 140/ ER 16 MF	22	20	148	140
ERH/SE - F - 22 x 038/ ER 16 MF	22	22	66	38
ERH/SE - F - 22 x 070/ ER 16 MF	22	22	98	70
ERH/SE - F - 22 x 100/ ER 16 MF	22	22	128	100
ERH/SE - F - 22 x 080/ ER 20 MF	28	22	119	80
ERH/SE - F - 22 x 070/ ER 25 MF	35	22	117	70
ERH/SE - F - 25 x 065/ ER 16 MF	22	25	93	65
ERH/SE - F - 25 x 100/ ER 20 MF	28	25	128	100
ERH/SE - F - 25 x 154/ ER 20 MF	28	25	182	154
ERH/SE - F - 25 x 075/ ER 25 MF	35	25	122	75
ERH/SE - F - 25 x 145/ ER 25 MF	35	25	181	145
ERH/SE - F - 32 x 070/ ER 25 MF	35	32	100	70



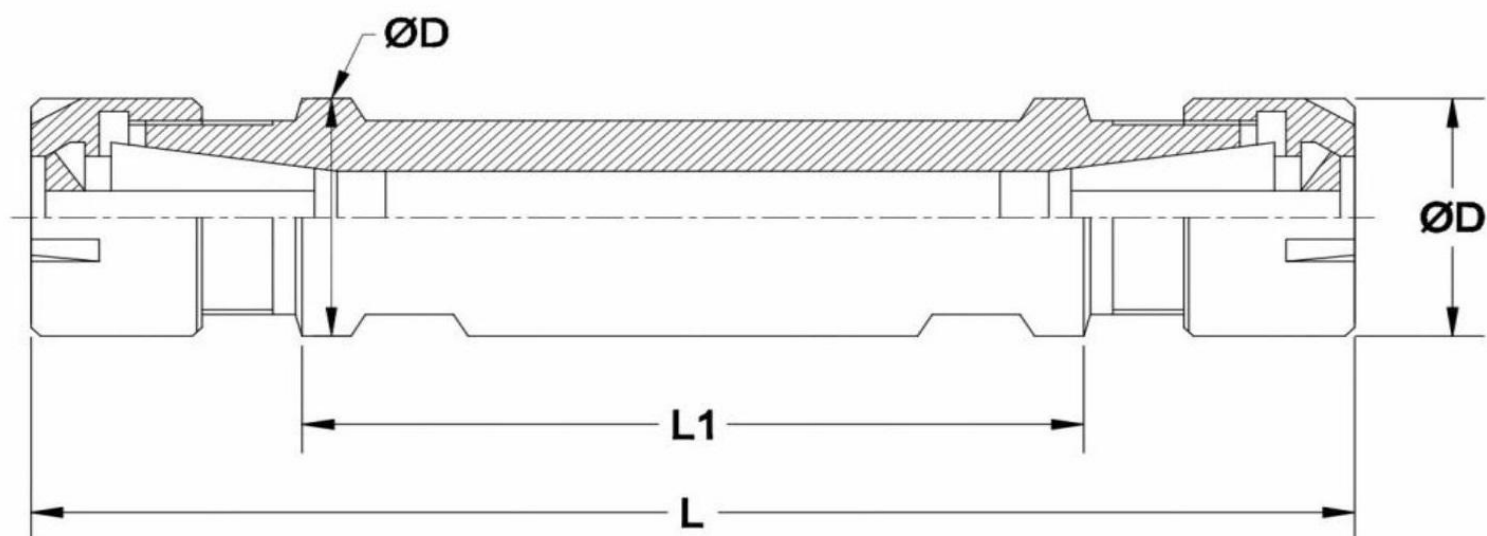
ER Holders



ER Holders - Double End - Flat with Mini Nut - Inch series

Part Nr.	ΦD mm	ΦD1 mm	L mm	L1 mm
ERH/DE - F - 5/8" x 015 / ER 8 MF	12	15.875	45	15
ERH/DE - F - 5/8" x 025 / ER 8 MF	12	15.875	55	25
ERH/DE - F - 3/4" x 040/ ER 11 MF	16	19.05	80	40
ERH/DE - F - 3/4" x 070/ ER 11 MF	16	19.05	110	70
ERH/DE - F - 3/4" x 090/ ER 11 MF	16	19.05	130	90
ERH/DE - F - 3/4" x 055 / ER 16 MF	22	19.05	107	55
ERH/DE - F - 1" x 062 / ER 16 MF	22	25.4	118	62

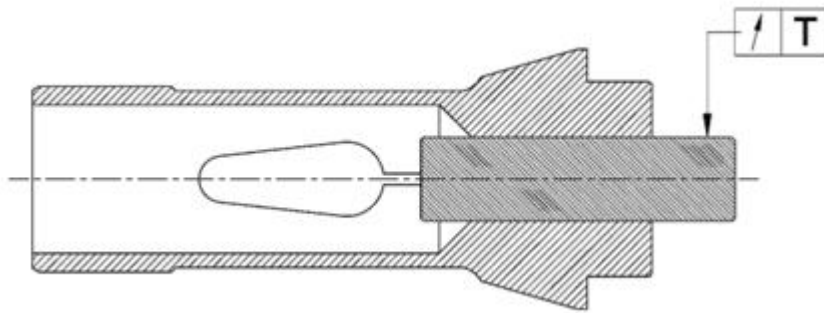
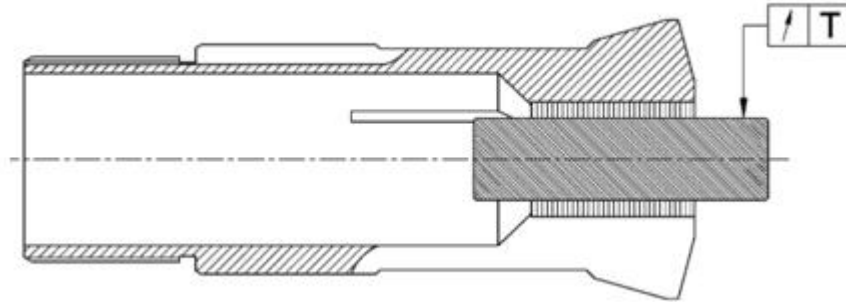
ER Holders



ER Holders - Double End - Flat with Mini Nut - Metric series

Part Nr.	ØD mm	ØD1 mm	L mm	L1 mm
ERH/DE - F - 16 x 050/ ER 11 MF	16	16	90	50
ERH/DE - F - 20 x 030/ ER 11 MF	16	20	70	30
ERH/DE - F - 20 x 050/ ER 11 MF	16	20	90	50
ERH/DE - F - 20 x 055/ ER 16 MF	22	20	107	55
ERH/DE - F - 22 x 055/ ER 16 MF	22	22	111	55
ERH/DE - F - 22 x 075/ ER 16 MF	22	22	131	75
ERH/DE - F - 25 x 062/ ER 16 MF	22	25	118	62
ERH/DE - F - 32 x 055/ ER 20 MF	28	32	111	55
ERH/DE - F - 32 x 075/ ER 20 MF	28	32	131	75

Runout Chart



All Dimensions are in mm - Unless Otherwise Specified

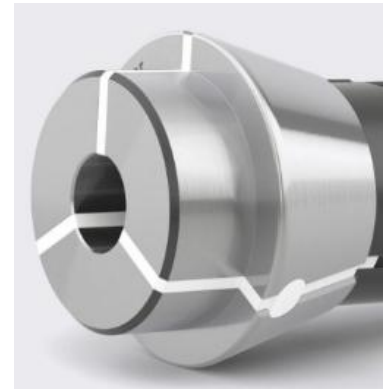
Bore Sizes	Round Bores (T Maximum)		Hex. / Sq. Bores (T Maximum)	
	Standard Precision	Ultra Precision	Standard Precision	Ultra Precision
1.00 - 10.00	0.01	0.005	0.06	0.03
10.01 - 20.00	0.015	0.008	0.06	0.04
20.01 - 30.00	0.02	0.01	0.06	0.04
30.01 - 40.00	0.025	0.012	0.06	0.04



Smooth Bore



Profile Bore



Sealed



Grooved Bore



Step Bore



Emergency



Square Bore



Excentric Bore



Special Slit Type 1



Hexagonal Bore



Carbide Lined Bore



Special Slit Type 2



Key on Cone

Key on Sliding Dia





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