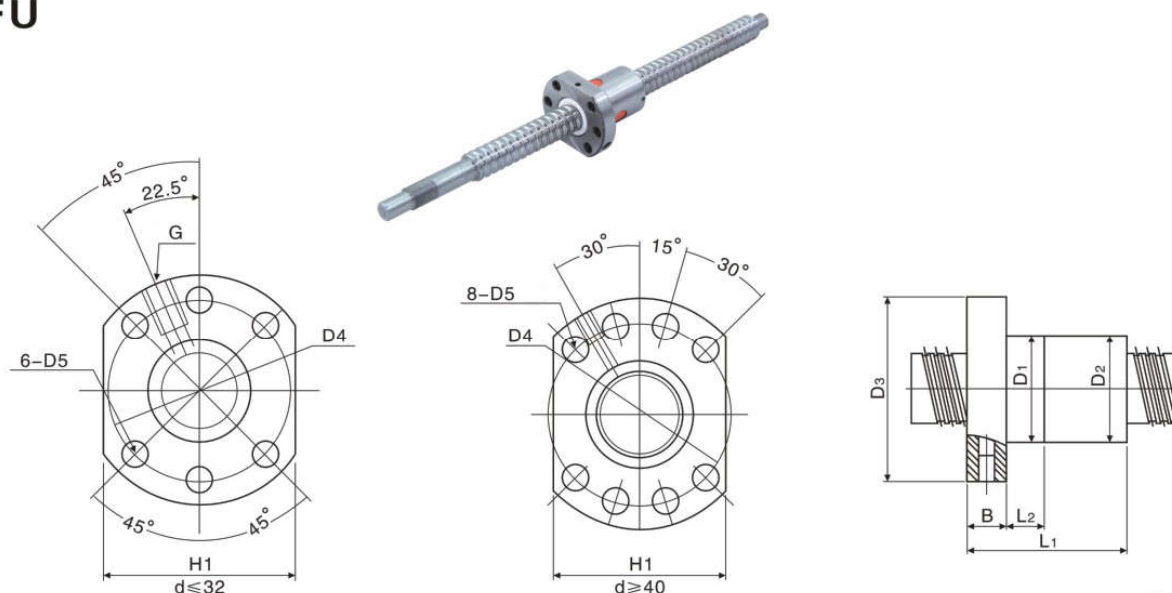


Ball Screw Single Nut Size Specification SFU

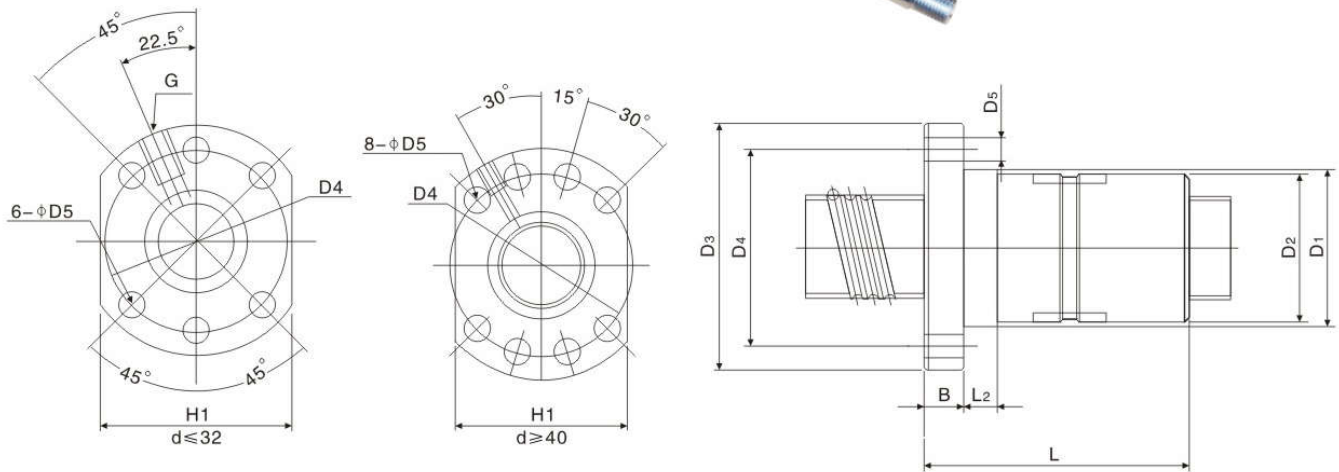


Unit: mm

Model No.	Dia- meter	Pitch	Ball Diameter	Flange Type	Cycle Number	Nut Installation Size											Rated Load (KN)	
						D1(g6)	D2 ⁰ _{-0.015}	D3	D4	D5	L1	L2	B	G	H1	Dynamic Load Ca	Static Load Coa	
SFU1204-3	12	4	2.381	d≤32	3	22	21.5	42	32	4.8	35	10	8	M6	30	4	6.7	
SFU1604-3	16	4	2.381	d≤32	3	28	\	48	38	5.5	36	\	10	M6	40	4.35	9.2	
SFU1605-3	16	5	3.175	d≤32	3	28	27.8	48	38	5.5	42	10	10	M6	40	7.65	13.2	
SFU1610-2	16	10	2.778	d≤32	2(double)	28	27.8	48	38	5.5	42	10	10	M6	40	7.36	12.75	
SFU2005-3	20	5	3.175	d≤32	3	36	35.8	58	47	6.7	42	10	10	M6	44	8.6	17.1	
SFU2010-2 SFU2010-3	20	10	3.175	d≤32	2(double) 3(double)	36	35.8	58	47	6.7	42 52	10	10	M5	40	8.35	16.8	
SFU2504-3	25	4	2.381	d≤32	3	40	\	62	51	6.6	40	\	10	M6	48	9.1	26.5	
SFU2505-3	25	5	3.175	d≤32	3	40	39.5	62	51	6.6	42	10	10	M6	48	9.8	23	
SFU2510-4	25	10	4.763	d≤32	3	40	39.5	62	51	6.8	85	16	15	M6	48	8.7	20.5	
SFU3205-3	32	5	3.175	d≤32	5	50	49.5	80	65	9	55	10	12	M6	62	16.9	51	
SFU3210-4	32	10	6.35	d≤32	3	50	49.5	80	65	9	90	16	12	M8X1	62	26.1	53.1	
SFU4005-5	40	5	3.175	d≥40	5	63	62.5	93	78	9	55	10	14	M6	70	19	66.2	
SFU4010-4	40	10	6.35	d≥40	3	63	62.5	93	78	9	93	16	14	M8X1	70	30.1	71	
SFU5005-4	50	5	3.175	d≥40	4	71	70.5	110	90	9	55	16	14	M6	85	47.2	117.8	
SFU5010-4	50	10	6.35	d≥40	4	75	74.5	110	93	11	95	16	16	M8X1	85	53.1	155	
SFU6310-4	63	10	6.35	d≥40	5	90	\	125	108	11	97	\	18	M8X1	95	60.7	206	
SFU8010-4	80	10	6.35	d≥40	5	105	\	145	125	13.5	98	\	20	M8X1	110	66.6	265	



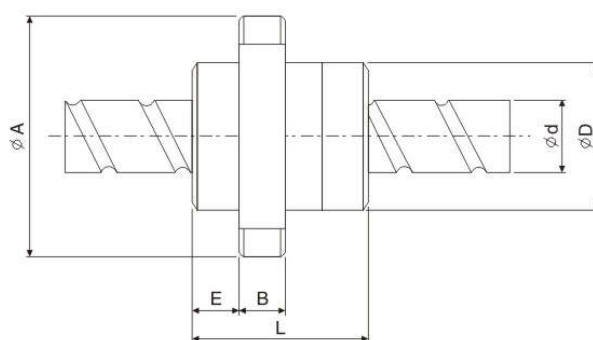
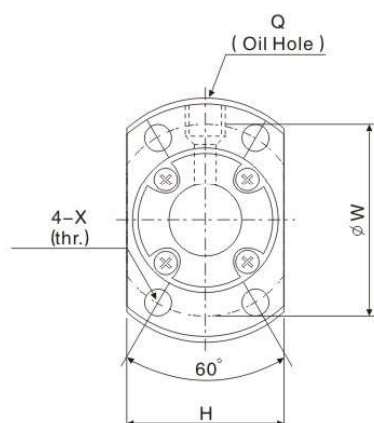
Ball Screw Double Nut Size Specification DFU



Unit: mm

Model No.	Dia-meter	Pitch	Ball Diameter	Flange Type	Cycle Number	Nut Installation Size										Rated Load (KN)	
						D1(g6)	D2 ⁰ _{-0.015}	D3	D4	D5	L	L2	B	G	H1	Dynamic Load Ca	Static Load Coa
DFU1604-3	16	4	2.381	d≤32	3	28	\	48	38	5.5	72	\	10	M6	40	4.35	9.2
DFU1605-3	16	5	3.175	d≤32	3	28	27.8	48	38	5.5	80	10	10	M6	40	7.65	13.2
DFU2005-3	20	5	3.175	d≤32	3	36	35.8	58	47	6.7	82	10	10	M6	44	8.6	17.1
DFU2505-3	25	5	3.175	d≤32	3	40	39.5	62	51	6.6	82	10	10	M6	48	9.8	23
DFU3205-3	32	5	3.175	d≤32	5	50	49.5	80	65	9	102(106)	10	12	M6	62	16.9	51
DFU3210-3	32	10	6.35	d≤32	3	50	49.5	80	65	9	135	16	12	M8X1	62	26.1	53.1
DFU4005-4	40	5	3.175	d≥40	5	63	62.5	93	78	9	105	10	14	M6	70	19	66.2
DFU4010-4	40	10	6.35	d≥40	3	63	62.5	93	78	9	165	16	14	M8X1	70	30.1	71
DFU5010-4	50	10	6.35	d≥40	4	75	74.5	110	93	11	163	16	16	M8X1	85	53.1	155
DFU6310-4	63	10	6.35	d≥40	5	90	\	125	108	11	182	\	18	M8X1	95	60.7	206
DFU8010-4	80	10	6.35	d≥40	5	105	\	145	125	13.5	182	\	20	M8X1	110	66.6	265

Ball Screw Big Lead Size Specification SFE



I: Lead Da: Ball Dia n: Number of Circuits K: Stiffness (Kgf/μm)
Ca: Basic Dynamic Rating Load (Kgf) Coa: Basic Static Rating Load (Kgf)

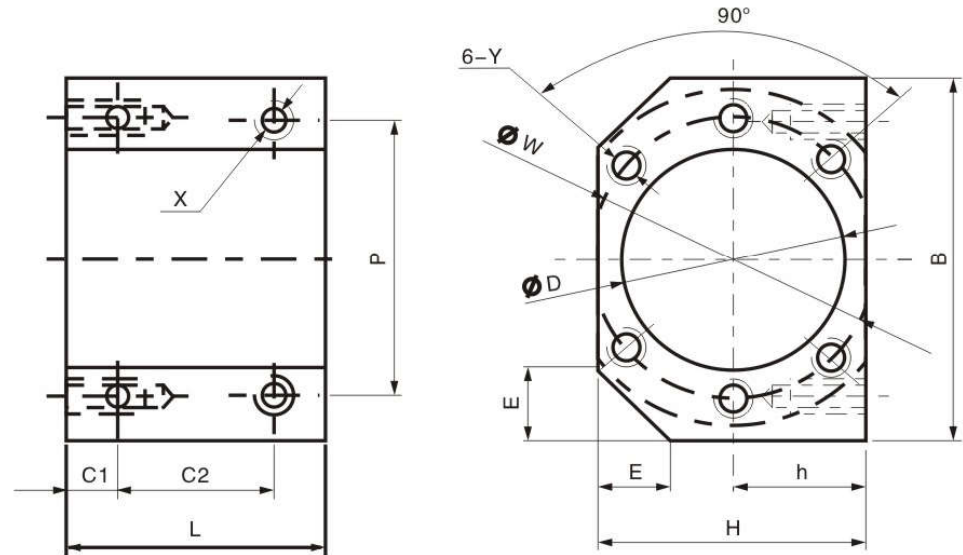
Unit: mm

Model No.	Dimensions															
	d	I	Da	D	A	E	B	L	X	W	H	Q	n	Ca	Coa	K
SFE1616-3	16	16	2.778	32	53	10.1	10	38	4.5	42	34	M6	1.7x2	650	1280	19
SFE1616-6		16	2.778	32	53	10.1	10	38	4.5	42	34	M6	1.7x4	1180	2550	36
SFE1632-3	16	32	3.175	34	55	10.5	10	34	5.5	45	36	M6	0.7x2	410	680	21
SFE1632-6		32	3.175	34	55	10.5	10	34	5.5	45	36	M6	0.7x4	820	1360	41
SFE2020-3	20	20	3.175	39	62	11.5	10	47	5.5	50	41	M6	1.7x2	980	2140	25
SFE2020-6		20	3.175	39	62	11.5	10	47	5.5	50	41	M6	1.7x4	1780	4280	49
SFE2040-3	20	40	3.175	38	58	11	10	41	5.5	48	40	M6	0.7x2	455	880	25
SFE2040-6		40	3.175	38	58	11	10	41	5.5	48	40	M6	0.7x4	910	1760	49
SFE2525-3	25	25	3.969	47	74	13	12	57	6.6	60	49	M6	1.7x2	1470	3350	31
SFE2525-6		25	3.969	47	74	13	12	57	6.6	60	49	M6	1.7x4	2660	6690	60
SFE2550-3	25	50	3.969	46	70	13	12	50	6.6	58	48	M6	0.7x2	685	1380	31
SFE2550-6		50	3.969	46	70	13	12	50	6.6	58	48	M6	0.7x4	1370	2760	60
SFE3232-3	32	32	4.762	58	92	16	12	71	9	74	60	M6	1.7x2	2140	5260	40
SFE3232-6		32	4.762	58	92	16	12	71	9	74	60	M6	1.7x4	3890	10500	76
SFE3264-3	32	64	4.762	58	92	15.5	12	62	9	74	60	M6	0.7x2	1000	2130	40
SFE3264-6		64	4.762	58	92	15.5	12	62	9	74	60	M6	0.7x4	2000	4260	77
SFE4040-3	40	40	6.350	73	114	19	15	89	11	93	75	M6	1.7x2	3410	8820	49
SFE4040-6		40	6.350	73	114	19	15	89	11	93	75	M6	1.7x4	6200	17600	95
SFE5050-3	50	50	7.938	90	135	21.5	20	107	14	112	92	M6	1.7x2	5100	13800	60
SFE5050-6		50	7.938	90	135	21.5	20	107	14	112	92	M6	1.7x4	7260	27600	117

Note: 1. "-3" means 2 starts, "-6" means 4 starts.

Note: 2. TBI Standard nuts are no seals, if required, please advise.

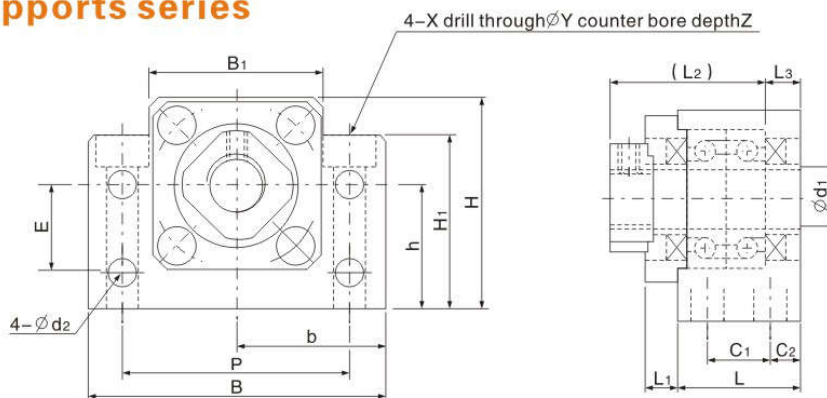
Nut a connector



PARCA NO	SOMUN	D	B	H	h	E	L	C1	C2	P	X	W	Y
16H	1605	28	52	40	20	12	40	8	24	40	M5	38	M5
	1610												
1616	1616	32	54	38	19	8	40	8	24	44	M5	42	M4
20H	2005	36	62	44	22	12	40	8	24	48	M6	47	M6
	2010												
2020	2020	39	64	46	23	11	40	8	24	52	M6	50	M5
25H	2505	40	66	48	24	13	40	8	24	50	M6	51	M6
	2510												
2525	2525	47	68	56	28	9	40	8	24	50	M6	60	M6
32H	3205	50	86	62	31	17	40	8	24	66	M8	65	M8
	3210												
40H	4005	63	100	70	35	19	40	8	24	80	M8	78	M8
	4010												
50H	5010	75	116	85	42.5	22	46	10	26	92	M8	93	M8

BK Ball screw end supports series

Fixed Side

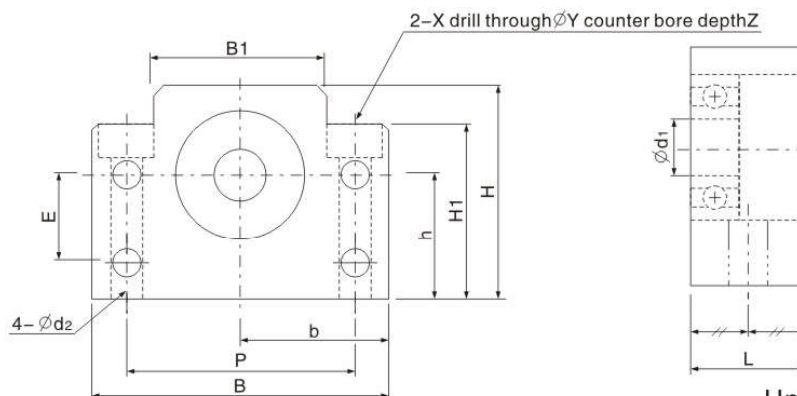


Unit: mm

Model No.	d ₁	L	L ₁	L ₂	L ₃	C ₁	C ₂	B	H	b ^{±0.02}	h ^{±0.02}	B ₁	H ₁	E	P	d ₂	X	Y	Z
BK 10	10	25	5	29	5	13	6	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5
BK 12	12	25	5	29	5	13	6	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	1.5
BK 15	15	27	6	32	6	15	6	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5
BK 17	17	35	9	44	7	19	8	86	64	43	39	50	55	28	68	6.6	9	14	8.5
BK 20	20	35	8	43	8	19	8	88	60	44	34	52	50	22	70	6.6	9	14	8.5
BK 25	25	42	12	54	9	22	10	106	80	53	48	64	70	33	85	9	11	17.5	11
BK 30	30	45	14	61	9	23	11	128	89	64	51	76	78	33	102	11	14	20	13
BK 35	35	50	14	67	12	26	12	140	96	70	52	88	79	35	114	11	14	20	13
BK 40	40	61	18	76	15	33	14	160	110	80	60	100	90	37	130	14	18	26	17.5

BF

Floated Side



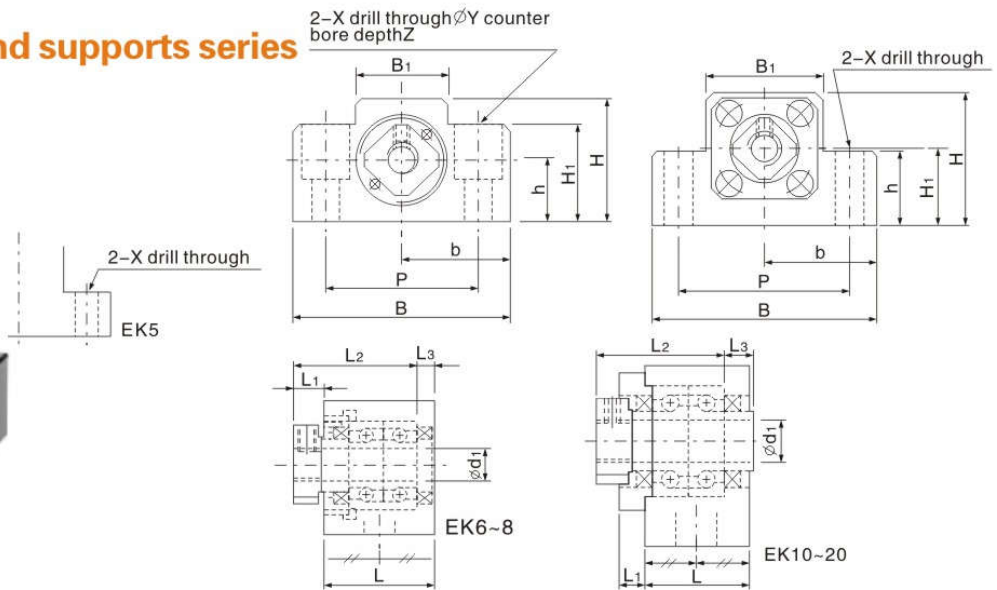
Unit: mm

Model No.	d ₁	L	B	H	b ^{±0.02}	h ^{±0.02}	B ₁	H ₁	E	P	d ₂	X	Y	Z
BF 10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5
BF 12	10	20	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	1.5
BF 15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5
BF 17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5
BF 20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5
BF 25	25	30	106	80	53	48	64	70	33	85	9	11	17.5	11
BF 30	30	32	128	89	64	51	76	78	33	102	11	14	20	13
BF 35	35	32	140	96	70	52	88	79	35	114	11	14	20	13
BF 40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5



EK Ball screw end supports series

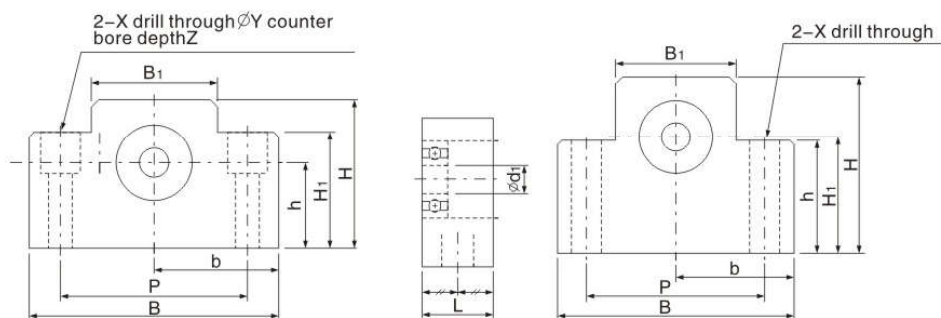
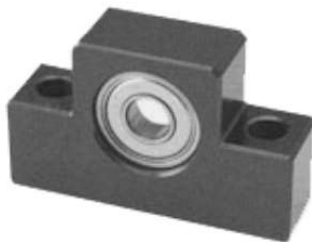
Fixed Side



Unit: mm

Model No.	d ₁	L	L ₁	L ₂	L ₃	B	H	$b^{+0.02}_{-0.02}$	$h^{+0.02}_{-0.02}$	B ₁	H ₁	P	X	Y	Z
EK 5	5	16.5	5.5	18.5	3.5	36	21	18	11	20	8	28	4.5	—	—
EK 6	6	20	5.5	22	3.5	42	25	21	13	18	20	30	4.5	9.5	11
EK 8	8	23	7	26	4	52	32	26	17	25	26	38	6.6	11	12
EK 10	10	24	6	29.5	6	70	43	35	25	36	24	52	9	—	—
EK 12	12	24	6	29.5	6	70	43	35	25	36	24	52	9	—	—
EK 15	15	25	6	35	5	80	49	40	30	41	25	60	11	—	—
EK 20	20	42	10	50	10	95	58	47.5	30	56	25	75	11	—	—

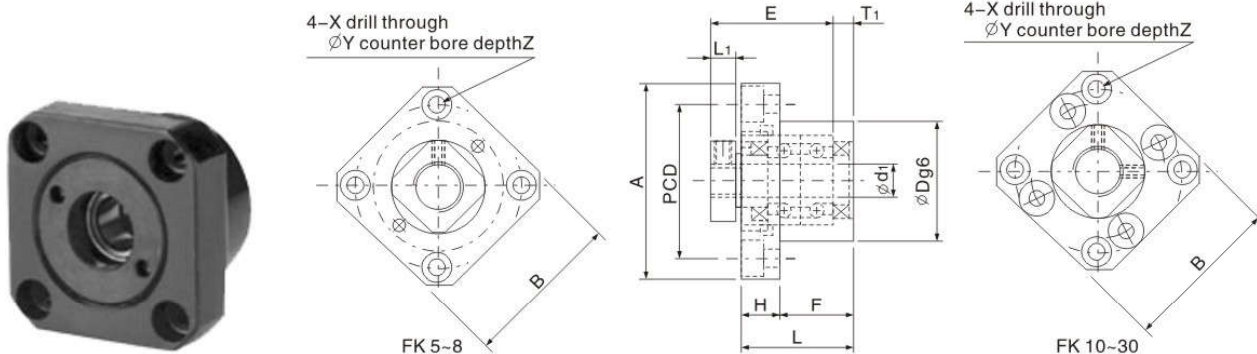
EF Floated Side



Unit: mm

Model No.	d ₁	L	B	H	$b^{+0.02}_{-0.02}$	$h^{+0.02}_{-0.02}$	B ₁	H ₁	P	X	Y	Z
EF 6	6	12	42	25	21	13	18	20	30	5.5	9.5	11
EF 8	6	14	52	32	26	17	25	26	38	6.6	11	12
EF 10	8	20	70	43	35	25	36	24	52	9	—	—
EF 12	10	20	70	43	35	25	36	24	52	9	—	—
EF 15	15	20	80	49	40	30	41	25	60	9	—	—
EF 20	20	26	95	58	47.5	30	56	25	72	11	—	—

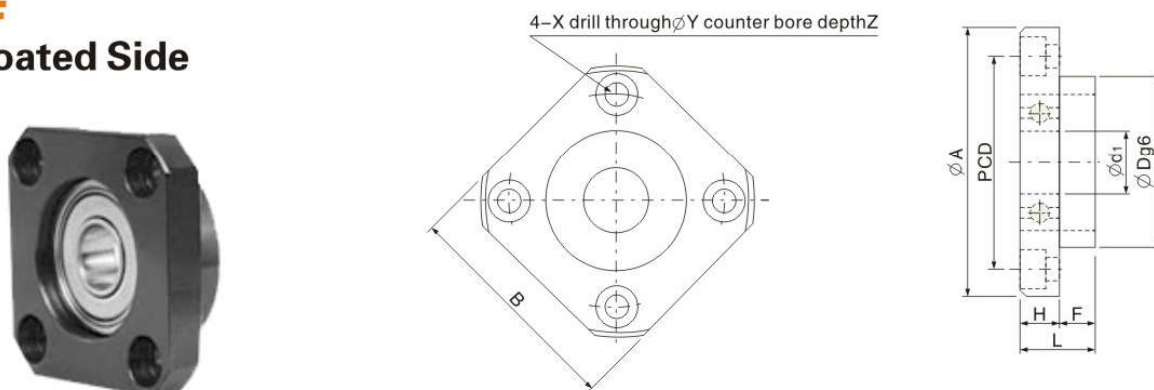
FK Fixed Side



Unit: mm

Model No.	d1	L	H	F	E	Dg6	A	PCD	B	L1	T1	X	Y	Z
FK 5	5	16.5	6	10.5	18.5	20	34	26	26	5.5	3.5	3.4	6.5	4
FK 6	6	20	7	13	22	22	36	28	28	5.5	3.5	3.4	6.5	4
FK 8	8	23	9	14	26	28	43	35	35	7	4	3.4	6.5	4
FK 10	10	27	10	17	29.5	34	52	42	42	7.5	5	4.5	8	4
FK 12	12	27	10	17	29.5	36	54	44	44	7.5	5	4.5	8	4
FK 15	15	32	15	17	36	40	63	50	52	10	6	5.5	9.5	6
FK 20	20	52	22	30	50	57	86	70	68	8	10	6.5	11	10
FK 25	25	57	27	30	60	63	98	80	79	13	10	9	15	13
FK 30	30	62	30	32	61	75	117	95	93	11	12	11	17.5	15

FF Floated Side



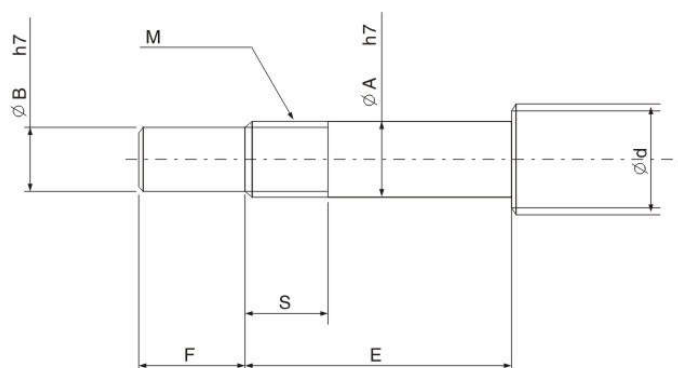
Unit: mm

Model No.	d1	L	H	F	Dg6	A	PCD	B	X	Y	Z
FF 6	6	10	6	4	22	36	28	28	3.4	6.5	4
FF 10	8	12	7	5	28	43	35	35	3.4	6.5	4
FF 12	10	15	7	8	34	52	42	42	4.5	8	4
FF 15	15	17	9	8	40	63	50	52	5.5	9.5	5.5
FF 20	20	20	11	9	57	85	70	68	6.6	11	6.5
FF 25	25	24	14	10	63	98	80	79	9	14	8.5
FF 30	30	27	18	9	75	117	95	93	11	17.5	11



Recommended Shaft End Shape

For Support Unit Type BK and FK and EK
Fixed Side



Support Unit model No.

Ball Screw
shaft OD

Shaft Support
Portion OD

Unit: mm

Model No.	Ball screw shaft diameter	Shaft diameter of bearing part				Metric screw thread	
Type BK	d	A	B	E	F	M	S
BK 10	12/14/15	10	8	36	15	M10X1	16
BK 12	14/15/16	12	10	36	15	M12X1	14
BK 15	18/20	15	12	40	20	M15X1	12
BK 17	20/25	17	15	53	23	M17X1	17
BK 20	25/28	20	17	53	25	M20X1	15
BK 25	32/36	25	20	65	30	M25X1.5	18
BK 30	36/40	30	25	72	38	M30X1.5	25
BK 35	45	35	30	81	45	M35X1.5	28
BK 40	50	40	35	93	50	M40X1.5	35

Support Unit model No.

Ball Screw
shaft OD

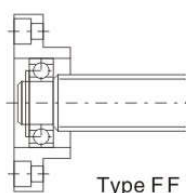
Shaft Support
Portion OD

Unit: mm

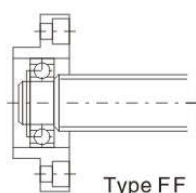
Model No.		Ball screw shaft diameter	Shaft diameter of bearing part				Metric screw thread	
FK(Type FK)	EK(Type EK)	d	A	B	E	F	M	S
FK 6	EK 6	8	6	4	28	8	M6X0.75	8
FK 8	EK 8	10/12	8	6	32	9	M8X1	10
FK 10	EK 10	12/14/15	10	8	36	15	M10X1	11
FK 12	EK 12	14/15/16	12	10	36	15	M12X1	11
FK 15	EK 15	18/20	15	12	47	20	M15X1	13
FK 20	EK 20	25/28/30	20	17	62	25	M20X1	17
FK 25	—	30/32/36	25	20	76	30	M25X1.5	20
FK 30	—	36/40	30	25	72	38	M30X1.5	25

Recommended Shaft End Shape

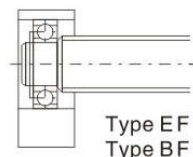
For Support Unit Types FF and EF and BF (Floated Side)



Type FF



Type FF



Type EF
Type BF

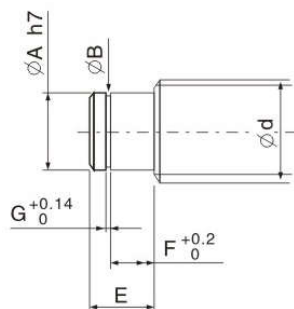
Unit: mm

Support Unit model No.

Ball Screw shaft OD

Shaft Support Portion OD

Model No.			Ball screw shaft diameter	Shaft diameter of bearing part
Type FF	Type FF	Type FF	d	A
FF 10	EF 10	BF 10	12/14/15	8
FF 12	EF 12	BF 12	14/15/16	10
FF 15	EF 15	BF 15	18/20	15
FF 17	—	BF 17	20/25	17
FF 20	EF 20	(BF20) 注NOTE	25/28/30	20
FF 25	—	BF 25	30/32/36	25
FF 30	—	BF 30	36/40	30
—	—	BF 35	40/45	35
—	—	BF 40	50	40



Note:
In this table, dimensions in parentheses are those of type BF20. These dimensions differ from those of type FF20 and EF20. When placing an order, always specify the model number of the Support Unit to be used.

Unit: mm

Snap-ring Groove			
E	B	F	G
10	7.6	7	0.9
11	9.6	8	1.15
13	14.3	9	1.15
16	16.2	12	1.15
19 (16)	19	14 (12)	1.35
20	23.9	15	1.35
21	28.6	16	1.75
22	33	17	1.75
23	38	18	1.75