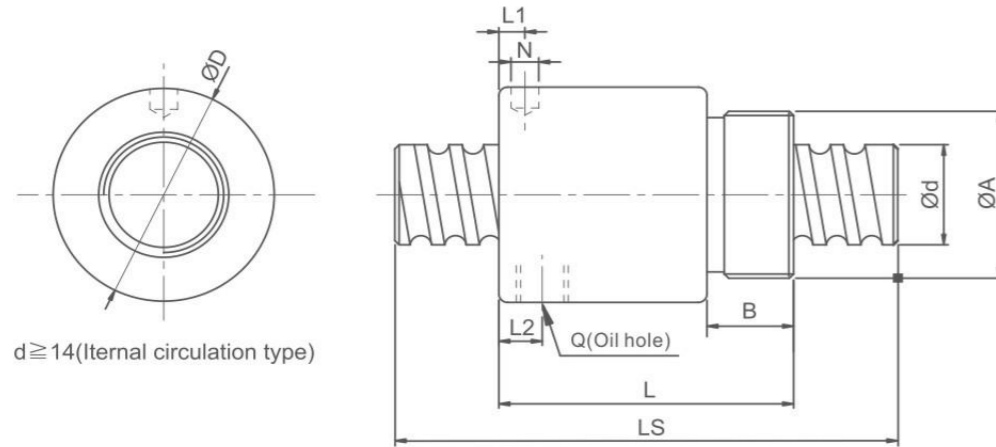


## Size Table of BSH Ball Screws



l : 导程 Lead Da : 珠径 Ball Dia n : 珠圈数 Number of Circuits K : 刚性 Stiffness(Kgf/ $\mu$ m)

Ca : 动额定负荷 Basic Dynamic Rating Load (Kgf) Coa : 静额定负荷 Basic Static Rating Load(Kgf) Unit:mm

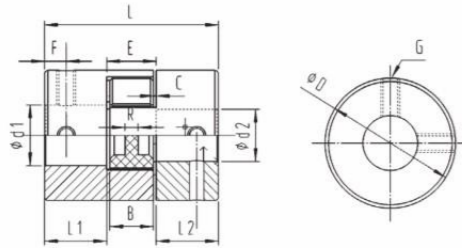
型号 Model no.	d	l	Da	Dimension									Load Rating Ca(kgf)	Load Rating Coa(kgf)	K kgf/ $\mu$ m
				D	A	B	L	L1	N	L2	Q	n			
BSHR0082.5-2.5	8	2.5	1.2	17.5	M15×1P	7.5	23.5	10	3	-	-	2.5×1	189	381	11
BSHR01002-3.5	10	2	1.2	19.5	M17×1P	7.5	22	3	3.2	-	-	3.5×1	277	664	17
BSHR01004-2.5		4	2	25	M20×1P	10	34	3	3	-	-	2.5×1	400	754	14
BSHR01204-3.5	12	4	2.5	25.5	M20×1P	10	34	13	3	-	-	3.5×1	804	1649	23
BSHR01205-3.5		5	2.5	25.5	M20×1P	10	39	16.25	3	-	-	3.5×1	801	1644	24
BSHR01404-3	14	4	2.5	32.1	M25×1.5P	10	35	11	3	-	-	1×3	748	1609	26
BSHR01604-3		4	2.381	29	M22×1.5P	8	32	4	3.2	-	-	1×3	759	1804	24
BSHR01605-3	16	5	3.175	32.5	M26×1.5P	12	42	19.25	3	-	-	1×3	1077	2289	25
BSHR01610-2		10	3.175	32	M26×1.5P	12	50	3	4	3	M4	1×2	675	1316	14
BSHR02005-3	20	5	3.175	38	M35×1.5P	15	45	20.3	3	-	-	1×3	1211	2906	30
BSHR02505-4	25	5	3.175	43	M40×1.5P	19	69	32.11	3	8	M6	1×4	1724	4904	37
BSHR02510-4		10	4.762	43	M40×1.5P	19	84	8	6	8	M6	1×4	2954	7295	41

Remark: The outer diameter  $\phi 8 \sim \phi 16$  nut standard does not have a scraper attached.

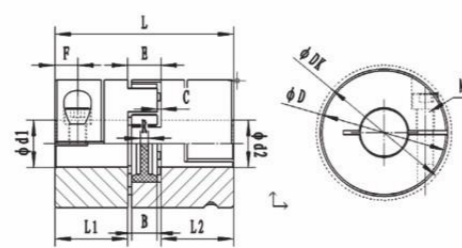
## 联轴器 Coupling



## Jaw Flexible Coupling



JM1



JM2

Dimension:(mm)

Model Number	bore dia.		D	L	L1	L2	F	E	G	M	N.M	Torque (N.m)		Torsional stiffness (N.m/rad)	Dynamic stiffness (N.m/rad)	Moment of inertia (kg.m <sup>2</sup> )	Net weight (g)
	d1 (min)	d2 (max)										(TKN)	(TK max)				
JM1-14	3	7	14	22.0	7.0	7.0	3.5	8.0	M3	-	0.7	2.0	4.0	22.9	69.0	0.085 × 10 <sup>-6</sup>	6.7
JM2-14	3	6	14	22.0	7.0	7.0	3.5	8.0	-	M2.5	0.5						
JM1-16	3	7	16	22.0	7.0	7.0	3.5	8.0	M3	-	0.7	2.2	4.4	23.4	72.0	0.09 × 10 <sup>-6</sup>	9.0
JM2-16	3	7	16	22.0	7.0	7.0	3.5	8.0	-	M2.5	0.5						
JM1-20	4	10	20	30.0	10.0	10.0	5.0	10.0	M3	-	0.7	5.0	10.0	51.6	155.0	0.49 × 10 <sup>-6</sup>	19.8
JM2-20	4	10	20	30.0	10.0	10.0	5.0	10.0	-	M3	1.5						
JM1-25	4	12	25	34.0	11.0	11.0	5.0	12.0	M4	-	1.7	9.0	18.0	240.7	718.0	1.3 × 10 <sup>-6</sup>	37.0
JM2-25	4	12	25	34.0	11.0	11.0	5.0	12.0	-	M4	1.5						
JM1-30	5	16	30	35.0	11.0	11.0	5.0	13.0	M4	-	1.7	12.5	25.0	171.9	513.0	2.8 × 10 <sup>-6</sup>	50.0
JM2-30	5	16	30	35.0	11.0	11.0	5.0	13.0	-	M4	1.7						
JM1-40	8	24	40	66.0	25.0	25.0	10.0	16.0	M5	-	4.0	17.0	34.0	1512	2540	20.4 × 10 <sup>-6</sup>	156.0
JM2-40	8	24	40	66.0	25.0	25.0	12.0	16.0	-	M5	8.0						
JM1-55	10	28	55	78.0	30.0	30.0	10.0	18.0	M6	-	7.0	60.0	120.0	3640	5980	50.8 × 10 <sup>-6</sup>	362.0
JM2-55	10	28	55	78.0	30.0	30.0	10.5	18.0	-	M6	8.0						
JM1-65	12	38	65	90.0	35.0	35.0	15.0	20.0	M8	-	15.0	160.0	320.0	6410	9920	200.3 × 10 <sup>-6</sup>	583.0
JM2-65	12	38	65	90.0	35.0	35.0	11.5	20.0	-	M8	16.0						
JM1-80	16	45	80	114.0	45.0	45.0	15.0	24.0	M8	-	15.0	325.0	650.0	11800	17160	400.6 × 10 <sup>-6</sup>	966.0
JM2-80	16	45	80	114.0	45.0	45.0	15.5	24.0	-	M8	16.0						
JM1-95	20	55	95	126.0	50.0	50.0	20.0	26.0	M8	-	15.0	450.0	900.0	21594	37692	2246 × 10 <sup>-6</sup>	1820.0
JM2-95	20	55	95	126.0	50.0	50.0	18.0	26.0	-	M10	40						
JM1-105	20	62	105	140.0	56.0	56.0	20.0	28.0	M10	-	32	525.0	1050.0	25759	45620	3786 × 10 <sup>-6</sup>	2430.0
JM2-105	20	62	105	140.0	56.0	56.0	21.0	28.0	-	M12	115						
JM1-120	20	74	120	160.0	65.0	65.0	20.0	30.0	M10	-	32	685.0	1370.0	42117	61550	7496 × 10 <sup>-6</sup>	4530
JM2-120	20	74	120	160.0	65.0	65.0	26.0	30.0	-	M12	115						
JM1-135	22	80	135	185.0	75.0	75.0	20.0	35.0	M10	-	32	940.0	1880.0	48520	71660	12000 × 10 <sup>-6</sup>	6980
JM2-135	22	80	135	185.0	75.0	75.0	33.0	35.0	-	M12	115						

## Disc Coupling



DMPA-C



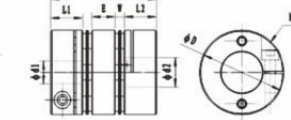
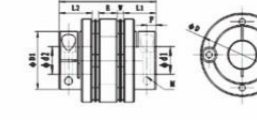
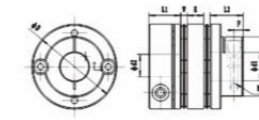
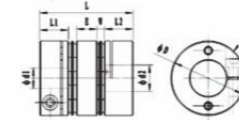
DMPB-C



DMPC-C



DMPD-C



Dimension:(mm)

Model Number	bore dia.		D	D1	L	L1/L2	F	W	F	M	N.M	Model Type	Rated torque (N.m)	Max torque (TK max)	Allowable speed (min)	Torsional stiffness (N.m/rad)	Moment of inertia (kg.m <sup>2</sup> )	Net weight (g)
	d1 (min)	d2 (max)																
DMP26C	5	10	26	-	35.0	11.5	7.0	2.5		M3	1.5	A	1.5	3.0	10000	1200	3.2	35
DMP34C	5	14	34	-	45	14.9	9.4	3.3	4.5	M4	2.5	A	4	8	10000	2800	12	69
	5	14		9.3													61	
	5	9		6.1													53	
	5	14		12													61	
DMP39C	8	16	39	-	49	15	10.8	4.1	4.5	M4	2.5	A	4	12	10000	4800	24	123
	8	16	39	13.6	2.7	4.6	D	24	105									
DMP44C	8	19	44	-	50	15	11	4.5	4.5	M4	2.5	A	10	20	10000	6000	48	151
	8	15		29.6													37	136
	8	15		29													122	
	8	19		40													13.6	5
DMP56C	10	25	56	-	63	20	12.3	5	6.5	M5	4.0	A	25	50	10000	15000	166	304
	10	19		38													129	275
	10	19		95													246	
	10	25		56													20	5.6
DMP68C	12	30	68	-	74	24	14	6	7.8	M6	8.0	A	60	120	10000	30000	459	556
	12	24		317													498	
	12	24		46													273	440
	12	30		68.8													24	8.8
DMP82C	16	38	82	-	98	30	22	8	9.5	M8	16	A	100	200	10000	36000	852	1051
	16	28		56													686	880
	16	28		592													732	
	16	38		82.5													30	9.5
DMP94C	20	40	94	-	98.6	30	22	8.3	9.5	M8	16	A	180	360	10000	8200	2300	1373
DMP104C	26	15	104	-	101.6	30	22	8.3	9.5	M8	16	A	230	260	10000	60000	5650	1707

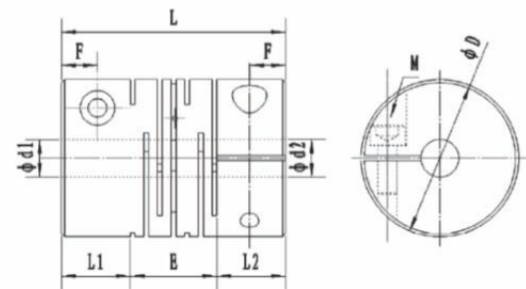
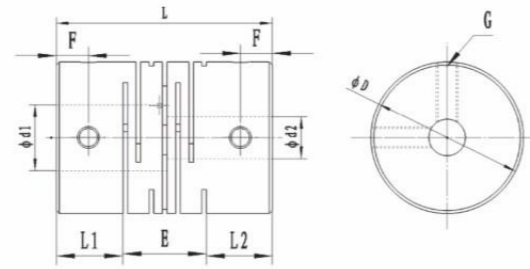
## Flexible Beam Coupling



JT1



JT2

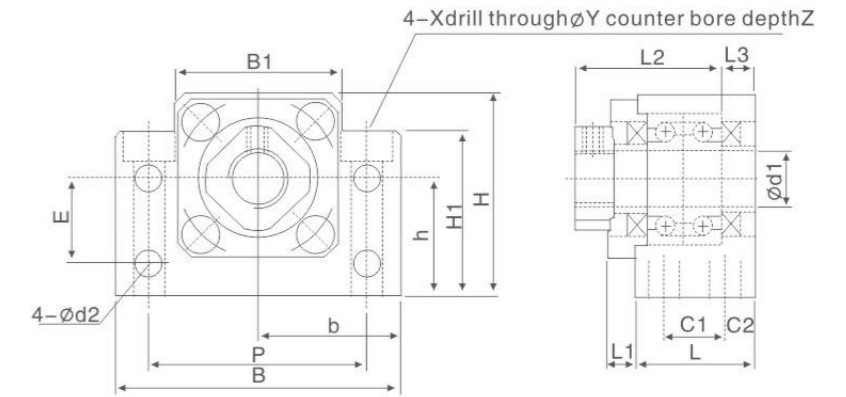


Dimension:(mm)

Model Number	bore dia.		D	L	L1/L2	E	F	G	M	N.M	Rated torque (N.m)	Max torque (TK max)	Allowable speed (min)	Torsional stiffness (N.m/rad)	Moment of inertia (kg.m <sup>2</sup> )	Net weight (g)
	d1 (min)	d2 (max)														
JT1-16	5	8	16	23	6.5	10	3	M3	-	0.7	0.5	1	24000	80	0.33	8.1
JT2-16	5	8	16	23	6.5	10	3	-	M2.5	1	0.5	1	24000	80	0.34	9.2
JT1-20	5	10	20	26	7.5	11	3	M3	-	0.7	1	2	20000	170	0.90	14
JT2-20	5	10	20	26	7.5	11	3	-	M2.5	1	1	2	20000	170	0.91	19
JT1-25	6	12	25	31	8.5	14	4	M4	-	1.7	2	4	15000	380	2.60	27
JT2-25	6	12	25	31	8.5	14	4	-	M3	1.5	2	4	15000	380	2.60	37
JT1-32	8	16	32	41	12	17	6	M4	-	1.7	4	8	12000	500	9.60	60
JT2-32	8	16	32	41	12	17	6	-	M4	2.5	4	8	12000	500	9.7	75
JT1-40	8	20	40	56	17	22	8.5	M5	-	4	8	16	9500	700	32	130
JT2-40	8	20	40	56	17	22	8.5	-	M5	4	8	16	9500	700	33	145
JT1-50	12	25	50	71	21	29	10.5	M6	-	7	16	32	7000	1800	100	260
JT2-50	12	25	50	71	21	29	10.5	-	M6	8	16	32	7000	1800	100	300
JT1-63	14	35	63	90	26	38	13	M8	-	15	32	64	6000	3100	320	490
JT2-63	14	35	63	90	26	38	13	-	M8	16	32	64	6000	3100	320	580

## Ball Screw Support

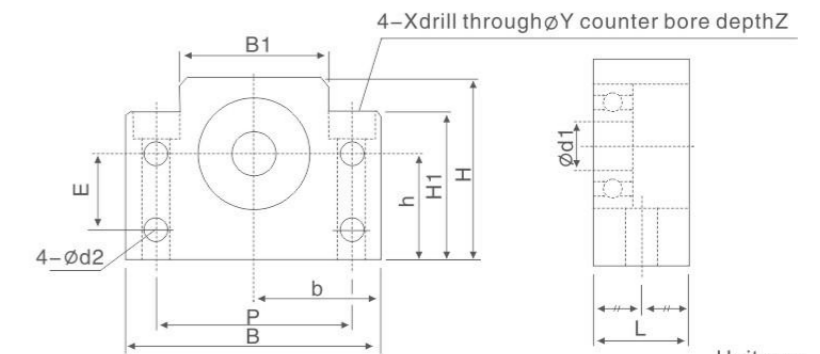
BK  
Fixed Side



Unit:mm

Model Number	d1	L	L1	L2	L3	C1	C2	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	E	P	d2	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  
Floted Side

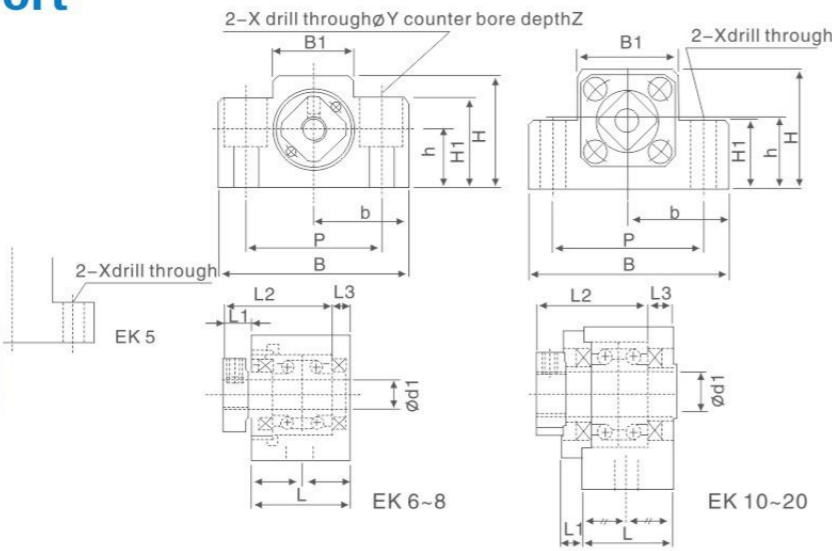
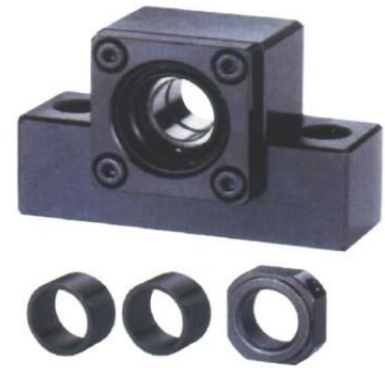


Unit:mm

Model Number	d1	L	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	E	P	d2	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

## Ball Screw Support

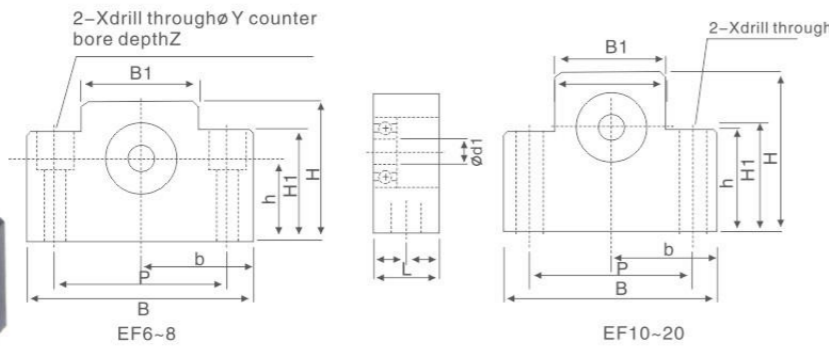
### EK Fixed Side



Unit:mm

Model Number	d1	L	L1	L2	L3	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	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	5.5	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	36	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

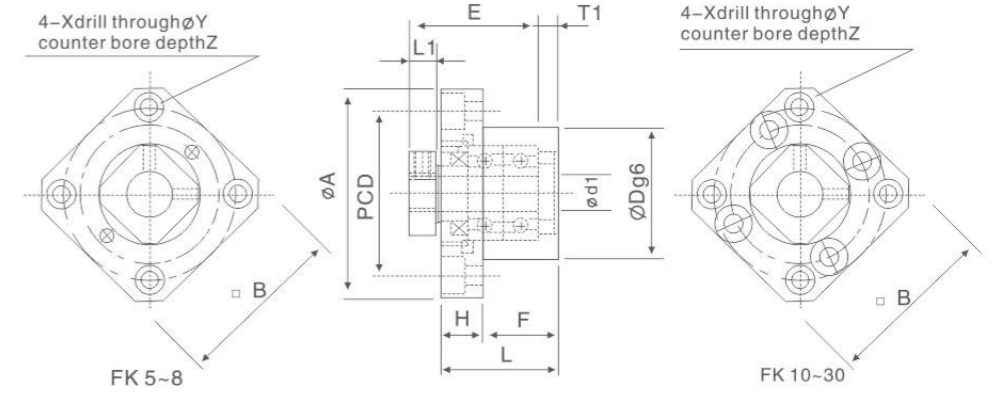


Unit:mm

Model Number	d1	L	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	P	X	Y	Z
EF 6	6	12	42	25	31	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	75	11	-	-

## Ball Screw Support

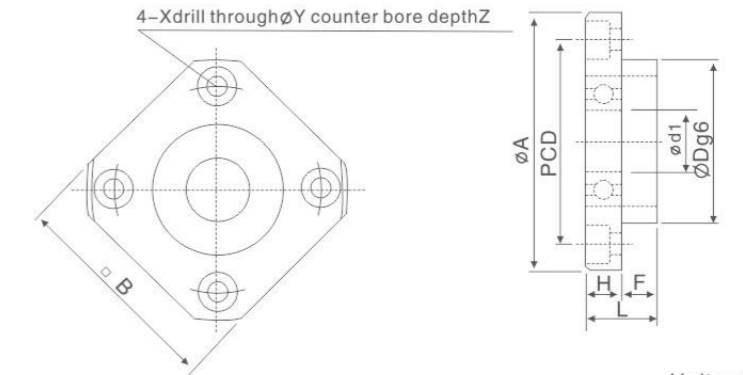
### FK Fixed Side



Unit:mm

Model Number	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 17	17	45	22	23	47	50	77	62	61	11	9	6.6	11	10
FK 20	20	52	22	30	50	57	85	70	68	8	10	6.6	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

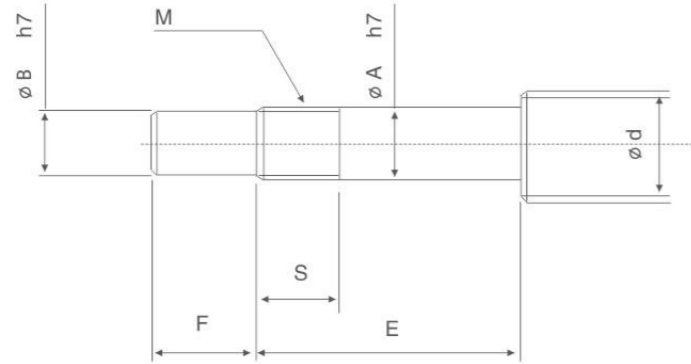
### FF Floated Side



Unit:mm

Model Number	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 17	17	20	11	9	50	77	62	61	6.6	11	6.5
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 ball screw end machining size (Fixed side)-BK.FK.EK



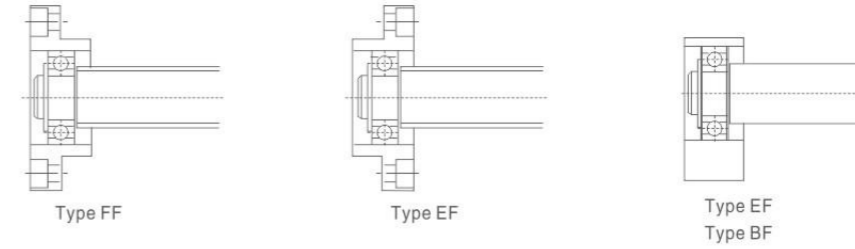
Unit:mm

Model Number	Ball Screw shaft OD	Shaft Support Portion OD					Metric screw thread	
Type BK	d	A	B	E	F	M	S	
BK 10	12/14/15	10	8	36	15	M10×1	16	
BK 12	14/15/16	12	10	36	15	M12×1	14	
BK 15	18/20	15	12	40	20	M15×1	12	
BK 17	20/25	17	15	53	23	M17×1	17	
BK 20	25/28	20	17	53	25	M20×1	15	
BK 25	32/36	25	20	65	30	M25×1.5	18	
BK 30	36/40	30	25	72	38	M30×1.5	25	
BK 35	45	35	30	81	45	M35×1.5	18	
BK 40	50	40	35	93	50	M40×1.5	35	

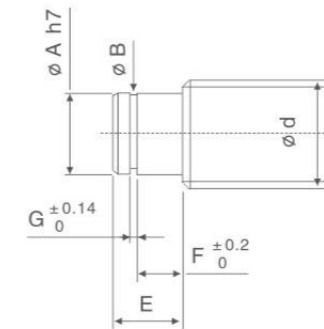
Unit:mm

Model Number	Ball Screw shaft OD	Shaft Support Portion OD					Metric screw thread	
Type FK	Type FK	d	A	B	E	F	M	S
FK 6	EK 6	8	6	4	28	8	M6×0.75	8
FK 8	EK 8	10/12	8	6	32	9	M8×1	10
FK 10	EK 10	12/14/15	10	8	36	15	M10×1	11
FK 12	EK 12	14/15/16	12	10	36	15	M12×1	11
FK 15	EK 15	18/20	15	12	47	20	M15×1	13
FK 17	-	20/25	17	15	58	23	M17×1	15
FK 20	EK 20	25/28/30	20	17	62	25	M20×1	17
FK 25	-	30/32/36	25	20	76	30	M25×1.5	20
FK 30	-	36/40	30	25	72	38	M30×1.5	25

## Recommended ball screw end machining size (Floated Side)-BF.EF.FF



Model Number	Ball Screw shaft OD	Shaft Support Portion OD	
Type FF	Type EF	Type BF	
FF10	EF 10	BF10	d
FF12	EF 12	BF12	A
FF15	EF 15	BF15	
FF17	-	BF17	
FF20	-	(BF20)NOTE	
FF25	EF 20		
FF30	-	BF25	
-	-	BF30	
-	-	BF35	
-	-	BF40	

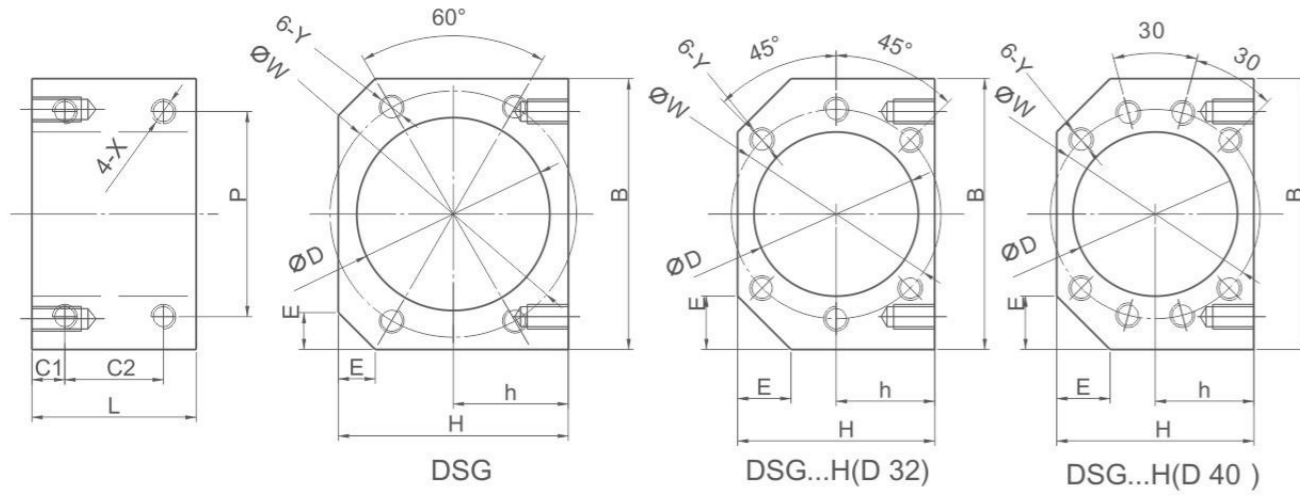


Note:  
In this table, dimensions in parentheses are those of type BF20. These dimensions differ from those of type FF20 and EF20. When placing an order, always specify the model number of the Support Unit to be used

Unit:mm

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

## DSG Ball Screw Nut Support



Model Number	Suitable Nut	D	B	H	h	E	L	C1	C2	P	X	W	Y
DSG12H	SFU1204,SFS1205	22.1 24.1	50	35	17.7	-	36	8	24	36	M4	32	M4
DSG16H	SFU-1604,1605,1610	28	52	40	20	12	40	8	24	40	M5	38	M5
	SFS-1610,1616,1620												
DSG20H	SFU-2004,2005	36	62	44	22	12	40	8	24	48	M6	47	M6
	SFS-2010,2020												
DSG25H	SFU-2504,2505,2510	40	66	48	24	13	40	8	24	50	M6	51	M6
	SFS-2505,2510,2520												
DSG32H	SFU-3204,3205,3210	50	86	62	31	17	40	8	24	66	M8	65	M8
	SFS-3205,3210,3220,3232												
DSG40H	SFU-4005,4010,	63	100	80	40	/	59	9.5	40	78	M8	78	M8
	SFS-4005,4010,4020,4040												
DSG50H	SFU-5005,5010	75	120	90	45	/	60	10	40	100	M10	93	M10
	SFS-5020,5050												
DSG1616	SFE/SFY-1616	32	55	40	20	6	27	6	15	46	M4	42	M4
DSG2020	SFE/SFY-2020	39	66	47	23.5	7.5	35	7.5	20	56	M5	50	M5
DSG2525	SFE/SFY-2525	47	80	55	27.5	10	34	7	20	68	M6	60	M6
DSG3232	SFE/SFY-3232	58	95	66	33	10	55	10	35	82	M8	74	M8

## 直线轴承 Linear Bearings

