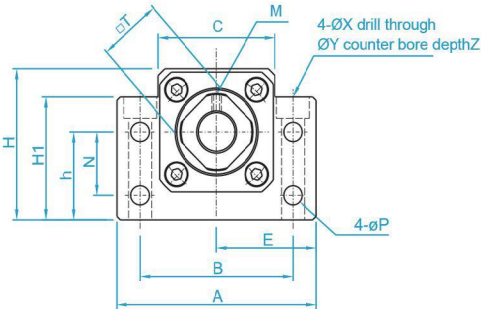
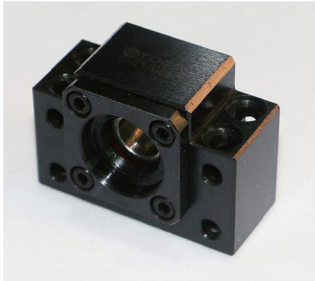


F. Ball Screw Support Unit

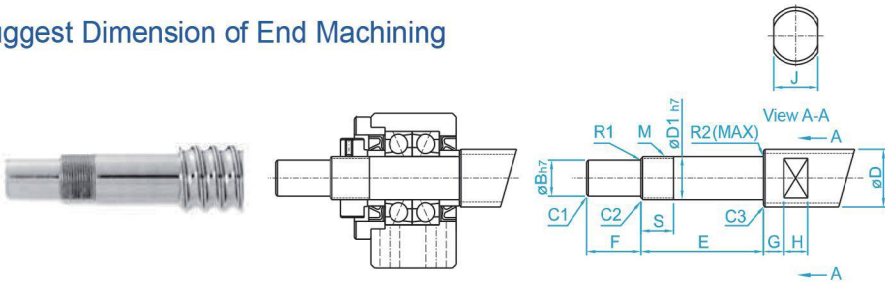


BK Series (Fixed End)

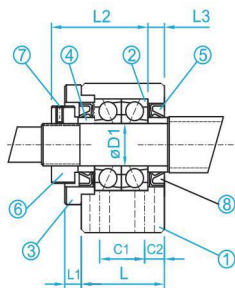


Model No.	D1	A	B	C	C1	C2	E	H1	h	H
							±0.02		±0.02	
BK-10	10	60	46	34	13	6	30	32.5	22	39
BK-12	12	60	46	35	13	6	30	32.5	25	43
BK-15	15	70	54	40	15	6	35	38	28	48
BK-17	17	86	68	50	19	8	43	55	39	64
BK-20	20	88	70	52	19	8	44	50	34	60

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
BK-10	Ø12, Ø14, Ø15	10	8	39	15	M10×1
BK-12	Ø14, Ø15, Ø16, Ø18	12	10	39	15	M12×1
BK-15	Ø18, Ø20	15	12	40	20	M15×1
BK-17	Ø20, Ø25	17	15	53	23	M17×1
BK-20	Ø25, Ø28	20	17	53	25	M20×1



Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 SET
③	Lid	1 PCS
④	Spacer	2 PCS
⑤	Seal	2 PCS
⑥	Lock Nut	1 PCS
⑦	Screw with Washer	1 PCS

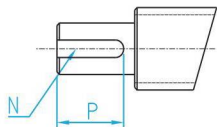
Unit:mm

L	L1	L2	L3	T	P	N	M	X	Y	Z	Bearing Model
25	5	29	5	16	5.5	15	M3	6.6	11	5	7000ATYDFC8P5
25	5	29	5	19	5.5	18	M3	6.6	11	1.5	7001ATYDFC8P5
27	6	32	6	22	5.5	18	M3	6.6	11	6.5	7002ATYDFC8P5
35	9	44	7	24	6.6	28	M4	9	14	8.5	7203ATYDFC8P5
35	8	43	8	30	6.6	22	M4	9	14	8.5	7004ATYDFC8P5

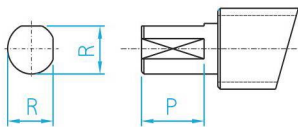
Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	24	-3 -21

H1 Type

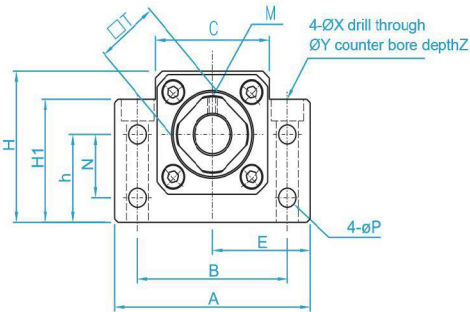
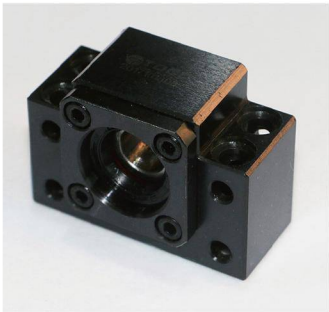


H2 Type



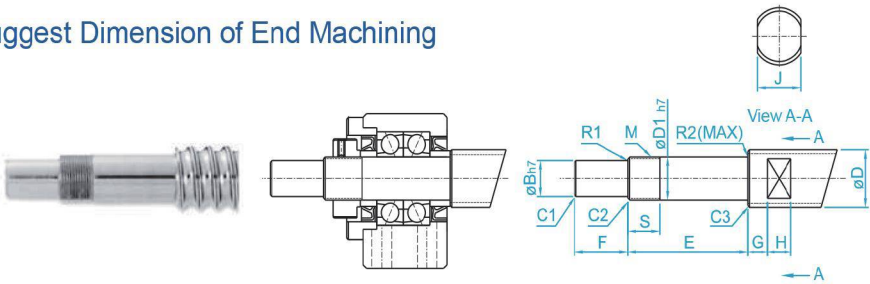
S	J	G	H	Chamfering			Circular Radius		H1 Keyway(W×D×L)		H2		Model BK
				C1	C2	C3	R1	R2	N	P	R	P	
16	10	5	7	0.5	0.5	0.5	0.3	0.6	2×1.2	11	7.5	11	BK-10
14	13	6	8	0.5	0.5	0.5	0.3	0.6	3×1.8	12	9.5	12	BK-12
12	16	6	9	0.5	0.5	0.5	0.3	0.6	4×2.5	16	11.3	16	BK-15
17	18	7	10	0.5	0.5	0.5	0.3	0.6	5×3.0	21	14.3	21	BK-17
15	21	8	11	0.5	0.5	0.5	0.5	0.6	5×3.0	21	16	21	BK-20

BK Series (Fixed End)

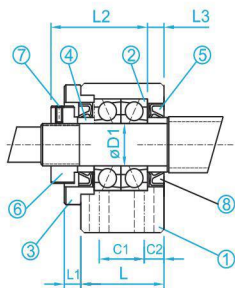


Model No.	D1	A	B	C	C1	C2	E	H1	h	H
							±0.02		±0.02	
BK-25	25	106	85	64	22	10	53	70	48	80
BK-30	30	128	102	76	23	11	64	78	51	89
BK-35	35	140	114	88	26	12	70	79	52	96
BK-40	40	160	130	100	33	14	80	90	60	110

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
BK-25	Ø32, Ø36	25	20	65	30	M25×1.5
BK-30	Ø36, Ø40	30	25	72	38	M30×1.5
BK-35	Ø40, Ø45, Ø50	35	30	83	45	M35×1.5
BK-40	Ø50, Ø55	40	35	98	50	M40×1.5



Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 SET
③	Lid	1 PCS
④	Spacer	2 PCS
⑤	Seal	2 PCS
⑥	Lock Nut	1 PCS
⑦	Screw with Washer	1 PCS

Unit:mm

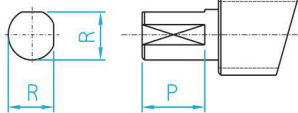
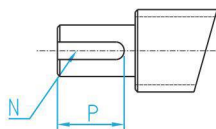
L	L1	L2	L3	T	P	N	M	X	Y	Z	Bearing Model
42	12	54	9	35	9	33	M5	11	175	11	7205ATYDFC8P5
45	14	61	9	40	11	33	M6	14	20	13	7206ATYDFC8P5
50	14	67	12	50	11	35	M8	14	20	13	7207ATYDFC8P5
61	18	76	15	50	14	37	M8	18	26	17.5	7208ATYDFC8P5

Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
18	30	-3 -21
30	50	-4 -25

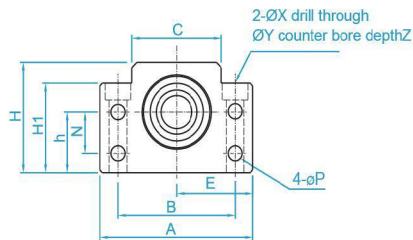
H1 Type

H2 Type



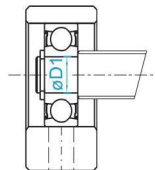
S	J	G	H	Chamfering			Circular Radius		H1 Keyway(W×D×L)		H2		Model BK
				C1	C2	C3	R1	R2	N	P	R	P	
18	27	10	13	0.5	0.7	1.0	0.5	0.6	6×3.5	25	19	25	BK-25
25	32	10	15	0.5	0.7	1.0	0.5	1.0	8×4.0	32	23.5	32	BK-30
28	36	12	15	0.5	1.0	1.0	0.5	1.0	8×4.0	40	28.5	40	BK-35
35	41	14	19	0.5	1.0	1.0	0.5	1.0	10×5.0	45	33	45	BK-40

BF Series (Simple End)

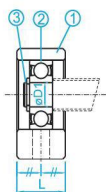


Model No.	D1	A	B	C	E	H1	h	H
					±0.02		±0.02	
BF-10	8	60	46	34	30	32.5	22	39
BF-12	10	60	46	35	30	32.5	25	43
BF-15	15	70	54	40	35	38	28	48
BF-17	17	86	68	50	43	55	39	64
BF-20	20	88	70	52	44	50	34	60
BF-25	25	106	85	64	53	70	48	80
BF-30	30	128	102	76	64	78	51	89
BF-35	35	140	114	88	70	79	52	96
BF-40	40	160	130	100	80	90	60	110

Suggest Dimension of End Machining



Model No.	Diameter	D1	E
BF-10	Ø12, Ø14, Ø15	8	10
BF-12	Ø14, Ø15, Ø16	10	11
BF-15	Ø18, Ø20	15	13
BF-17	Ø20, Ø25	17	16
BF-20	Ø25, Ø28	20	16
BF-25	Ø32, Ø36	25	20
BF-30	Ø36, Ø40	30	21
BF-35	Ø40, Ø45, Ø50	35	22
BF-40	Ø50, Ø55	40	23

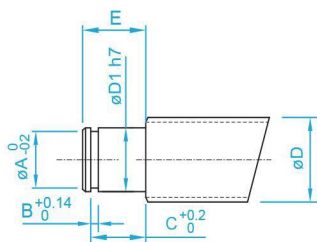


Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 PCS
③	C-Ring	1 PCS

Unit:mm

L	N	P	X	Y	Z	C-Ring	Bearing Model
20	15	5.5	6.6	11	5	C8	608ZZ
20	18	5.5	6.6	11	1.5	C10	6000ZZ
20	18	5.5	6.6	11	6.5	C15	6002ZZ
23	28	6.6	9	14	8.5	C17	6203ZZ
26	22	6.6	9	14	8.5	C20	6004ZZ
30	33	9	11	17.5	11	C25	6205ZZ
32	33	11	14	20	13	C30	6206ZZ
32	35	11	14	20	13	C35	6207ZZ
37	37	14	18	26	17.5	C40	6208ZZ

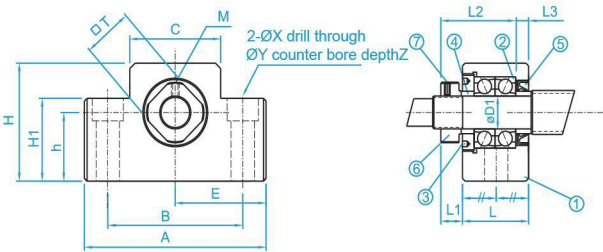
Tolerance



Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	30	-3 -21
30	50	-4 -25

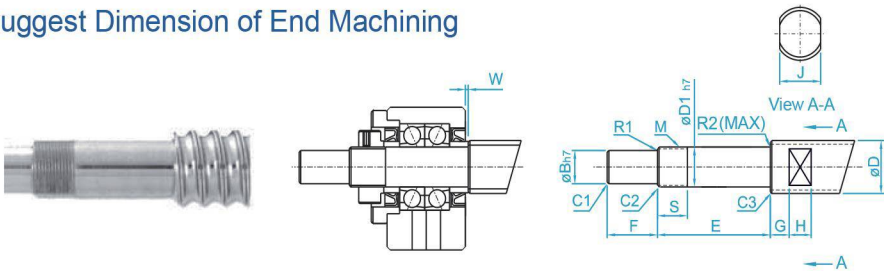
C-Ring			Model BF
A	B	C	
7.6	0.9	7.9	BF-10
9.6	1.15	9.15	BF-12
14.3	1.15	10.15	BF-15
16.2	1.15	13.15	BF-17
19.0	1.35	13.35	BF-20
23.9	1.35	16.35	BF-25
28.6	1.75	17.75	BF-30
33.0	1.75	18.75	BF-35
38.0	1.95	19.95	BF-40

EK Series (Fixed End)

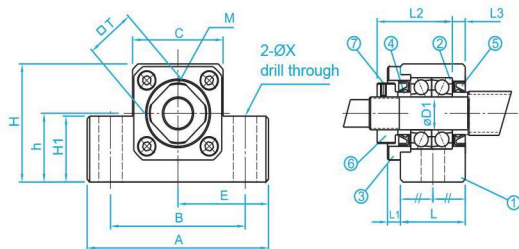


Model No.	D1	A	B	C	E	H1	h
					±0.02		±0.02
EK-6	6	42	30	18	21	20	13
EK-8	8	52	38	25	26	26	17
EK-10	10	70	52	36	35	24	25
EK-12	12	70	52	36	35	24	25
EK-15	15	80	60	41	40	25	30

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
EK-6	Ø6, Ø8	6	4	30	8	M6×0.75
EK-8	Ø10, Ø12	8	6	35	9	M8×1
EK-10	Ø12, Ø14, Ø15	10	8	36	15	M10×1
EK-12	Ø14, Ø15, Ø16	12	10	36	15	M12×1
EK-15	Ø18, Ø20	15	12	49	20	M15×1



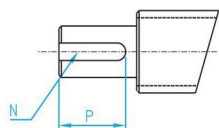
EK10~15

Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 SET
③	Lid	1 PCS
④	Spacer	2 PCS
⑤	Seal	2 PCS
⑥	Lock Nut	1 PCS
⑦	Screw with Washer	1 PCS

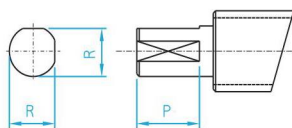
Unit:mm

H	L	L1	L2	L3	M	X	Y	Z	T	Bearing Model
25	20	5.5	22	3.5	M3	5.5	9.5	11	12	706ATYDFC7P5
32	23	7	26	4	M3	6.6	11	12	14	708ATYDFC8P5
43	24	6	29.5	6	M3	9	-	-	16	7000ATYDFC8P5
43	24	6	29.5	6	M3	9	-	-	19	7001ATYDFC8P5
49	25	6	36	5	M3	11	-	-	22	7002ATYDFC8P5

H1 Type



H2 Type

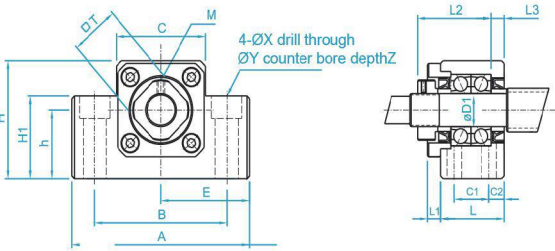


Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	24	-3 -21

S	J	G	H	Chamfering			Circular Radius		H1 Keyway(W×D×L)		H2		W	Model EK
				C1	C2	C3	R1	R2	N	P	R	P		
10	5	4	4	0.3	0.3	0.3	0.3	0.6	-	-	3.7	6	1.5	EK-6
10	8	5	5	0.3	0.3	0.3	0.3	0.6	-	-	5.6	7	1.5	EK-8
11	10	5	7	0.5	0.5	0.5	0.3	0.6	2×1.2	11	7.5	11	-0.5	EK-10
11	13	6	8	0.5	0.5	0.5	0.3	0.6	3×1.8	12	9.5	12	-0.5	EK-12
13	16	6	9	0.5	0.5	0.5	0.3	0.6	4×2.5	16	11.3	16	5.0	EK-15

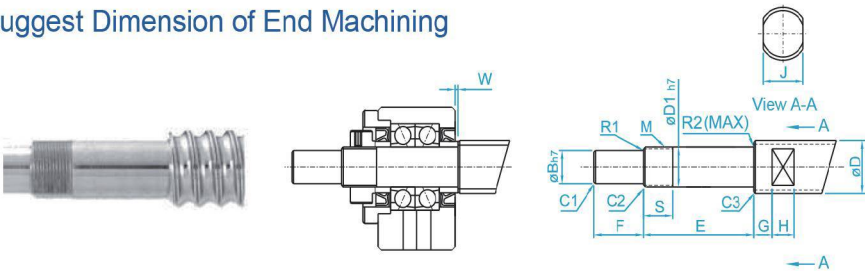
EK Series (Fixed End)



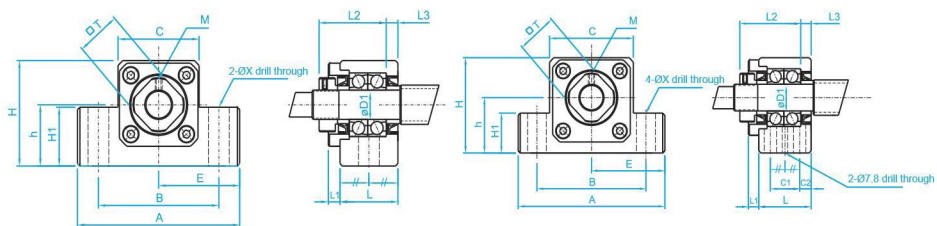
EK-20S

Model No.	D1	A	B	C	E	H1	h
					±0.02		±0.02
EK-20	20	95	75	56	47.5	25	30
EK-25	25	105	85	66	52.5	25	35

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
EK-20	Ø25, Ø28, Ø32	20	17	64	25	M20×1
EK-25	Ø32, Ø36	25	20	65	30	M25×1.5



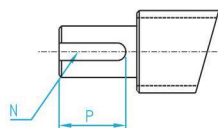
EK-20

EK-25

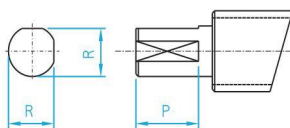
Unit: mm

C2	C1	H	L	L1	L2	L3	M	X	Y	Z	T	Bearing Model
-	-	58	42	10	50	10	M4	11	-	-	30	7204ATYDFC8P5
9	30	68	48	13	60	14	M5	11	-	-	35	7205ATYDFC8P5

H1 Type



H2 Type

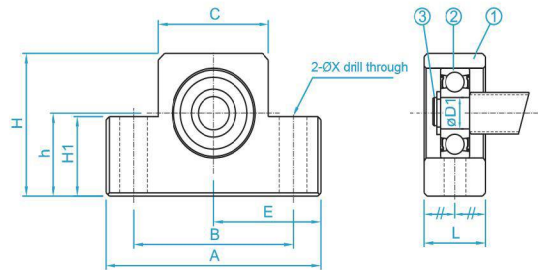


Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	24	-3 -21

S	J	G	H	Chamfering			Circular Radius		H1 Keyway(W×D×L)		H2		W	Model EK
				C1	C2	C3	R1	R2	N	P	R	P		
17	21	8	11	0.5	0.5	0.5	0.5	0.6	5×3.0	21	16	21	1.0	EK-20
18	27	10	13	0.5	0.7	1.0	0.5	0.6	6×3.5	25	19	25	1.0	EK-25

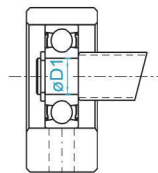
EF Series (Simple End)



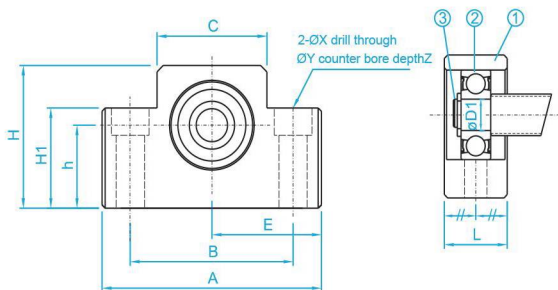
EF10~15, EF20~25

Model No.	D1	A	B	C	E	H1	h
					±0.02		±0.02
EF-6	6	42	30	18	21	20	13
EF-8	6	52	38	25	26	26	17
EF-10	8	70	52	36	35	24	25
EF-12	10	70	52	36	35	24	25
EF-15	15	80	60	41	40	25	30
EF-20	20	95	75	56	47.5	25	30
EF-25	25	105	85	66	52.5	25	35

Suggest Dimension of End Machining



Model No.	Diameter	D1	E
EF-6	Ø6, Ø8	6	9
EF-8	Ø10, Ø12	6	9
EF-10	Ø12, Ø14, Ø15	8	10
EF-12	Ø14, Ø15, Ø16	10	11
EF-15	Ø18, Ø20	15	13
EF-20	Ø25, Ø28	20	19
EF-25	Ø32, Ø36	25	20

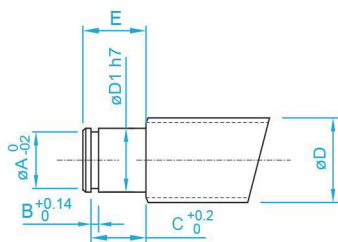


Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 PCS
③	C-Ring	1 PCS

EF6~8

Unit:mm

H	L	X	Y	Z	C-Ring	Bearing Model
25	12	5.5	9.5	11	C6	606ZZ
32	14	6.6	11	12	C6	606ZZ
43	20	9	-	-	C8	608ZZ
43	20	9	-	-	C10	6000ZZ
49	20	9	-	-	C15	6002ZZ
58	26	11	-	-	C20	6204ZZ
68	30	-	11	-	C25	6205ZZ

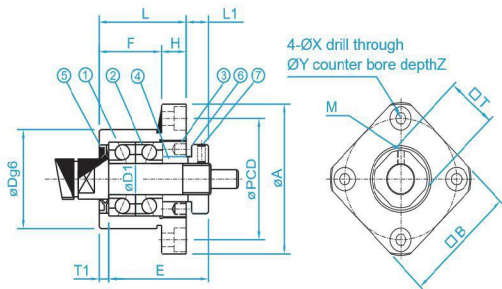


Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	24	-3 -21

C-Ring			Model EF
A	B	C	
5.7	0.8	6.8	EF-6
5.7	0.8	6.8	EF-8
7.6	0.9	7.9	EF-10
9.6	1.15	9.15	EF-12
14.3	1.15	10.15	EF-15
19	1.35	15.35	EF-20
23.9	1.35	16.35	EF-25

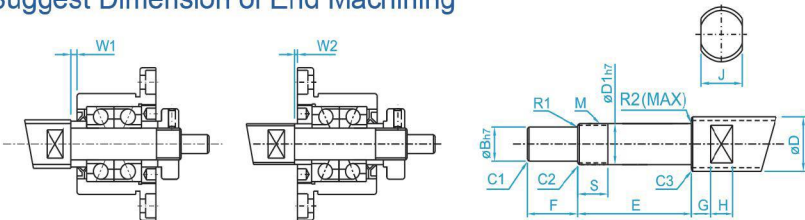
FK Series (Fixed End)



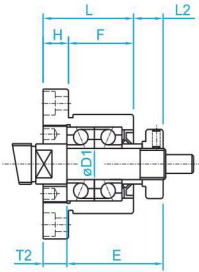
Method A

Model No.	D1	A	F	L	E	Dg6	H	PCD
FK-8	8	43	14	23	26	28	9	35

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
FK-8	Ø10, Ø12	8	6	35	9	M8×1



D	g6
28	-0.007 -0.020

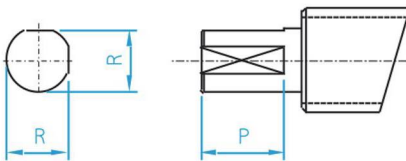
Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 SET
③	Lid	1 PCS
④	Spacer	2 PCS
⑤	Seal	2 PCS
⑥	Lock Nut	1 PCS
⑦	Screw with Washer	1 PCS

Method B

Unit:mm

M	B	L1	T1	L2	T2	X	Y	Z	T	Bearing Model
M3	35	7	4	8	5	3.4	6.5	4	14	708ATYDFC8P5

H1 Type

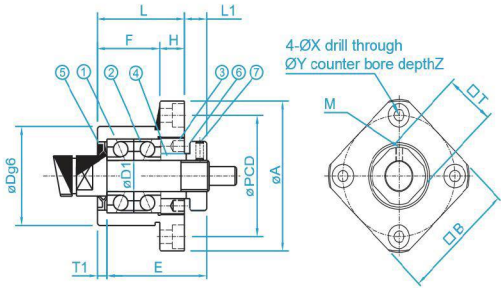


Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15

S	Chamfering			Circular Radius		H1		W1	W2	Model FK
	C1	C2	C3	R1	R2	R	P			
15	0.5	0.5	0.5	0.3	0.6	5.6	7	1.5	0.5	FK-8

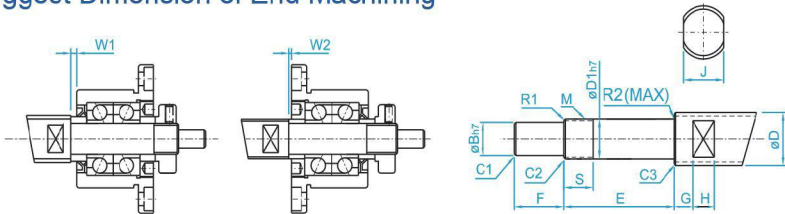
FK Series (Fixed End)



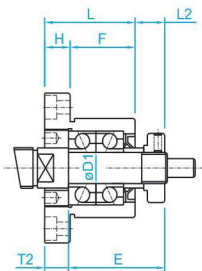
Method A

Model No.	D1	A	F	L	E	Dg6	H	PCD
FK-10	10	52	17	27	29.5	34	10	42
FK-12	12	54	17	27	29.5	36	10	44
FK-15	15	63	17	32	36	40	15	50
FK-20	20	85	30	52	50	57	22	70
FK-25	25	98	30	57	60	63	27	80
FK-30	30	117	32	62	61	75	30	95

Suggest Dimension of End Machining



Model No.	Diameter	D1	B	E	F	M
FK-10	Ø12, Ø14, Ø15	10	8	36	15	M10×1
FK-12	Ø14, Ø15, Ø16	12	10	36	15	M12×1
FK-15	Ø18, Ø20	15	12	49	20	M15×1
FK-20	Ø25, Ø28	20	17	64	25	M20×1
FK-25	Ø32, Ø36	25	20	76	30	M25×1.5
FK-30	Ø40, Ø50	30	25	72	38	M30×1.5



D	g6
34	-0.009 -0.025
36	-0.009 -0.025
40	-0.009 -0.025
57	-0.010 -0.029
63	-0.010 -0.029
75	-0.010 -0.029

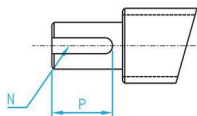
Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 SET
③	Lid	1 PCS
④	Spacer	2 PCS
⑤	Seal	2 PCS
⑥	Lock Nut	1 PCS
⑦	Screw with Washer	1 PCS

Method B

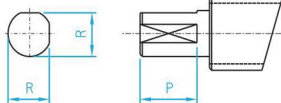
Unit: mm

M	B	L1	T1	L2	T2	X	Y	Z	T	Bearing Model
M3	42	7.5	5	8.5	6	4.5	8	4	16	7000ATYDFC8P5
M3	44	7.5	5	8.5	6	4.5	8	4	19	7001ATYDFC8P5
M3	52	10	6	12	8	5.5	9.5	6	22	7002ATYDFC8P5
M4	68	8	10	12	14	6.6	11	10	30	7204ATYDFC8P5
M5	79	13	10	20	17	9	15	13	35	7205ATYDFC8P5
M6	93	14	12	17	18	11	17.5	15	40	7206ATYDFC8P5

H1 Type



H2 Type

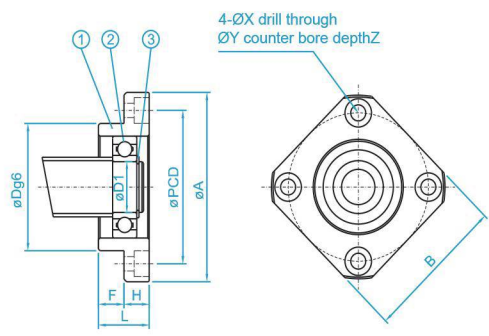


Tolerance

Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	30	-3 -21

S	J	G	H	Chamfering			Circular Radius		H1		H2		W1	W2	Model FK
				C1	C2	C3	R1	R2	N	P	R	P			
11	10	5	7	0.5	0.5	0.5	0.3	0.6	2×1.2	11	7.5	11	0.5	0.5	FK-10
11	13	6	8	0.5	0.5	0.5	0.3	0.6	3×1.8	12	9.5	12	0.5	0.5	FK-12
13	16	6	9	0.5	0.5	0.5	0.3	0.6	4×2.5	16	11.6	16	4	2	FK-15
17	21	8	11	0.5	0.5	0.5	0.5	0.6	5×3.0	21	16	21	1	-3	FK-20
20	27	10	13	0.5	0.5	0.5	0.5	0.6	6×3.5	25	19	25	5	-2	FK-25
25	32	10	15	0.5	0.5	0.5	0.5	0.6	8×4	32	23.5	32	-3	-6	FK-30

FF Series (Simple End)



Model No.	D1	L	H	F	Dg6	A
FF-6	6	10	6	4	22	36
FF-10	8	12	7	5	28	43
FF-12	10	15	7	8	34	52
FF-15	15	17	9	8	40	63
FF-20	20	20	11	9	57	85
FF-25	25	24	14	10	63	98
FF-30	30	27	18	9	75	117

Suggest Dimension of End Machining



Model No.	Diameter	D1	E
FF-6	$\phi 10, \phi 12$	6	9
FF-10	$\phi 12, \phi 14, \phi 15$	8	10
FF-12	$\phi 14, \phi 15, \phi 16$	10	11
FF-15	$\phi 18, \phi 20$	15	13
FF-20	$\phi 25, \phi 28$	20	19
FF-25	$\phi 32, \phi 36$	25	20
FF-30	$\phi 40, \phi 50$	30	21

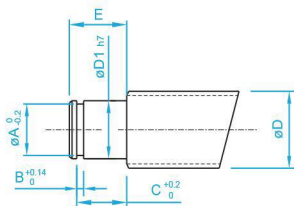
D	g6
22	-0.007 -0.020
28	-0.007 -0.020
34	-0.009 -0.025
40	-0.009 -0.025
57	-0.010 -0.029
63	-0.010 -0.029
75	-0.010 -0.029

Code	Items	pcs
①	Housing	1 PCS
②	Bearing	1 PCS
③	C-Ring	1 PCS

Unit:mm

PCD	B	X	Y	Z	C-Ring	Bearing Model
28	28	3.4	6.5	4	C6	606ZZ
35	35	3.4	6.5	4	C8	608ZZ
42	42	4.5	8	4	C10	6000ZZ
50	52	5.5	9.5	5.5	C15	6002ZZ
70	68	6.6	11	6.5	C20	6204ZZ
80	79	9	14	8.5	C25	6205ZZ
95	93	11	17.5	11	C30	6206ZZ

Tolerance



Dimension (mm)		h unit 0.001
Above	Under	h
6	10	-2 -15
10	18	-3 -18
18	24	-3 -21

C-Ring			Model FF
A	B	C	
5.7	0.8	6.8	FF-6
7.6	0.9	7.9	FF-10
9.6	1.15	9.15	FF-12
14.3	1.15	10.15	FF-15
19	1.35	15.35	FF-20
23.9	1.35	16.35	FF-25
28.6	1.75	17.75	FF-30