

CONTENTS



Screw support base series

High precision, High rigidity, Easy assembly

EK series (convex fixing side)	03
EF series (Convex support side)	06
BK series (square fixing side)	08
BF series (square supporting side)	11
FK series (round fixing side)	13
FF series (round support side)	17
AK series (square fixing side)	19
AF series (square supporting side)	21
Locking nut	23
Suggested machining dimensions of shaft end (fixing side)—BK	24
Suggested machining dimensions of shaft end (fixing side)—FK, FKA, EK, AK, LK	25
Suggested machining dimensions of shaft end (supporting side)—FF, EF, BF, AF, LF	26

EK series (convex fixing side)

EK series (convex fixing side)

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
EK05_C7	EK05	Blacken	C7	605	No preload
EK05_C7N		Chemical nickel	C7	605	No preload
EK06_C7	EK06	Blacken	C7	606	No preload
EK06_C5			C5	706A P0	50
EK06_C3			C3	706A P5	50
EK06_C7N		Chemical nickel	C7	606	No preload
EK06_C5N			C5	706A P0	50
EK06_C3N			C3	706A P5	50
EK08_C7	EK08	Blacken	C7	608	No preload
EK08_C5			C5	708A P0	90
EK08_C3			C3	708A P5	90
EK08_C7N		Chemical nickel	C7	608	No preload
EK08_C5N			C5	708A P0	90
EK08_C3N			C3	708A P5	90
EK10_C7	EK10	Blacken	C7	6000	No preload
EK10_C5			C5	7000A P0	190
EK10_C3			C3	7000A P5	190
EK10_C7N		Chemical nickel	C7	6000	No preload
EK10_C5N			C5	7000A P0	190
EK10_C3N			C3	7000A P5	190
EK12_C7	EK12	Blacken	C7	6001	No preload
EK12_C5			C5	7001A P0	210
EK12_C3			C3	7001A P5	210
EK12_C7N		Chemical nickel	C7	6001	No preload
EK12_C5N			C5	7001A P0	210
EK12_C3N			C3	7001A P5	210



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)

Note:
 1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
 2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
 3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
EK15_C7	EK15	Blacken	C7	6002	No preload
EK15_C5			C5	7002A P0	230
EK15_C3			C3	7002A P5	230
EK15_C7N	EK15	Chemical nickel	C7	6002	No preload
EK15_C5N			C5	7002A P0	230
EK15_C3N			C3	7002A P5	230
EK20_C7	EK20	Blacken	C7	7204A P0	No preload
EK20B_C7			C7	7204B P0	No preload
EK20_C5			C5	7204A P0	550
EK20B_C5			C5	7204B P0	660
EK20_C3			C3	7204A P5	550
EK20_C7N			Chemical nickel	C7	7204A P0
EK20B_C7N		C7		7204B P0	No preload
EK20_C5N		C5		7204A P0	550
EK20B_C5N		C5		7204B P0	660
EK20_C3N		C3		7204A P5	550

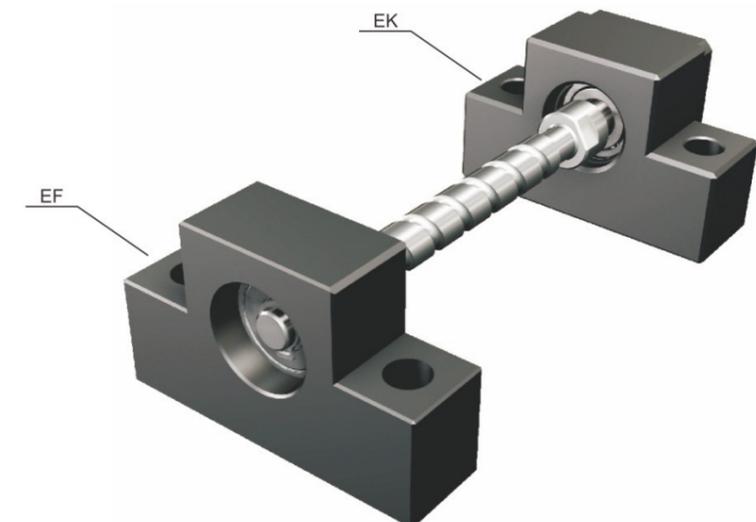


Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)

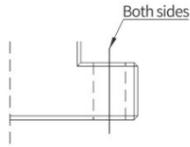
Note:
 1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
 2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
 3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.



EK series (convex fixing side)

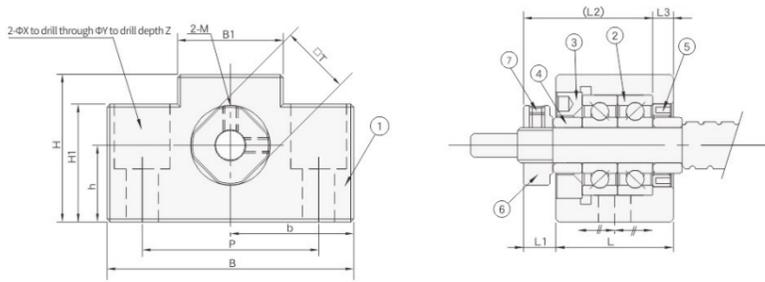
EF series (Convex support side)

EK05



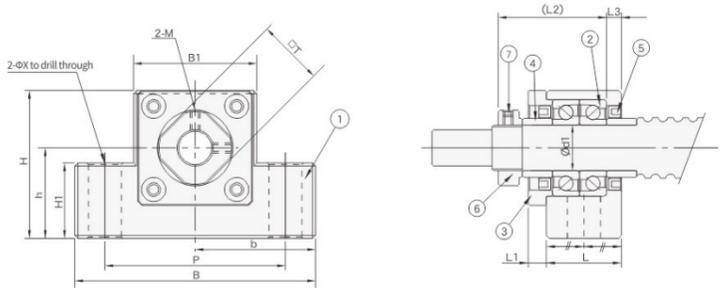
(EK05~08)

EK06, EK08



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Press plate	1
4	Spacer ring	2
5	Shaft seal	1(2)
6	Locking nut	1
7	Hexagon stop screw	2

EK10~EK20



(EK10~20)

Unit:mm

Model	Shaft diameter d1	L	L1	L2	L3	B	H	b		h	B1	H1	P	X	Y	Z	M	T	Weight
								±0.02	±0.02										
EK05	5	16.5	5.5	18.5	3.5	36	21	18	11	20	8	28	4.5	-	-	-	M3	11	0.12
EK06	6	20	5.5	22	3.5	42	25	21	13	18	20	30	5.5	9.5	11	-	M3	12	0.18
EK08	8	23	7	26	4	52	32	26	17	25	26	38	6.6	11	12	-	M3	14	0.27
EK10-1	10	24	6	29.5	6	65	43	32.5	21	36	20	52	6.6	-	-	-	M3	16	0.47
EK10	10	24	6	29.5	6	70	43	35	25	36	24	52	9	-	-	-	M3	16	0.47
EK12	12	24	6	29.5	6	70	43	35	25	36	24	52	9	-	-	-	M4	19	0.45
EK15	15	25	6	36	5	80	49	40	30	41	25	60	11	-	-	-	M4	22	0.6
EK20	20	42	10	50	10	95	58	47.5	30	56	25	75	11	-	-	-	M4	30	1.35

Order number	Model	Surface preparation	Applicable screw	Use bearing
EF06_C7	EF06	Blacken	C7	606ZZ
EF06_C3			C3 C5	606ZZ
EF06_C7N		Chemical nickel	C7	606VV
EF06_C3N			C3 C5	606VV
EF08_C7	EF08	Blacken	C7	606ZZ
EF08_C3			C3 C5	606ZZ
EF08_C7N		Chemical nickel	C7	606VV
EF08_C3N			C3 C5	606VV
EF10_C7	EF10	Blacken	C7	608ZZ
EF10_C3			C3 C5	608ZZ
EF10_C7N		Chemical nickel	C7	608DD
EF10_C3N			C3 C5	608DD
EF12_C7	EF12	Blacken	C7	6000ZZ
EF12_C3			C3 C5	6000ZZ
EF12_C7N		Chemical nickel	C7	6000DDU
EF12_C3N			C3 C5	6000DDU
EF15_C7	EF15	Blacken	C7	6002ZZ
EF15_C3			C3 C5	6002ZZ
EF15_C7N		Chemical nickel	C7	6002DDU
EF15_C3N			C3 C5	6002DDU
EF20_C7	EF20	Blacken	C7	6204ZZ
EF20_C3			C3 C5	6204ZZ
EF20_C7N		Chemical nickel	C7	6204DDU
EF20_C3N			C3 C5	6204DDU



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)

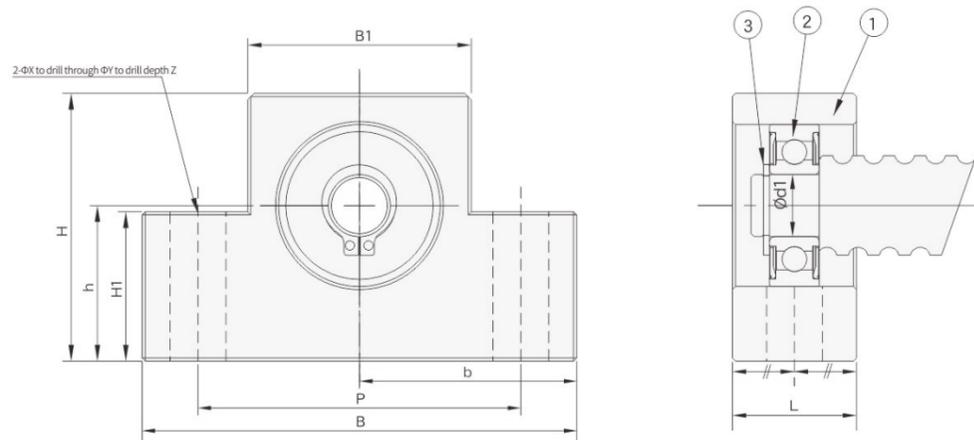
Note:
 1. Steel dustproof cover for bearing used for blackening.
 2. Bearing used by chemical nickel is made of dual plastic caps.
 3. All bearings of Taiwan brands shall be used.

EF series (Convex support side)



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Type C retaining ring	1

EF



Unit: mm

Model	Shaft diameter	L	B	H	b	h	B1	H1	P	X	Y	Z	Bearing block body	Type C retaining ring	Weight
					±0.02	±0.02									
EF06	6	12	42	25	21	13	18	20	30	5.5	9.5	11	606ZZ	S06	0.1
EF08	6	14	52	32	26	17	25	26	38	6.6	11	12	606ZZ	S06	0.16
EF10	8	20	70	43	35	25	36	24	52	9	-	-	608ZZ	S08	0.35
EF12	10	20	70	43	35	25	36	24	52	9	-	-	6000ZZ	S10	0.35
EF15	15	20	80	49	40	30	41	25	60	9	-	-	6002ZZ	S15	0.4
EF20	20	26	95	58	47.5	30	56	25	75	11	-	-	6204ZZ	S20	0.65

BK series (square fixing side)

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
BK10_C7	BK10	Blacken	C7	6000	No preload
BK10_C5			C5	7000A P0	190
BK10_C3			C3	7000A P5	190
BK10_C7N		Chemical nickel	C7	6000	No preload
BK10_C5N			C5	7000A P0	190
BK10_C3N			C3	7000A P5	190
BK12_C7	BK12	Blacken	C7	6001	No preload
BK12_C5			C5	7001A P0	210
BK12_C3			C3	7001A P5	210
BK12_C7N		Chemical nickel	C7	6001	No preload
BK12_C5N			C5	7001A P0	210
BK12_C3N			C3	7001A P5	210
BK15_C7	BK15	Blacken	C7	6002	No preload
BK15_C5			C5	7002A P0	230
BK15_C3			C3	7002A P5	230
BK15_C7N		Chemical nickel	C7	6002	No preload
BK15_C5N			C5	7002A P0	230
BK15_C3N			C3	7002A P5	230
BK17_C7	BK17	Blacken	C7	6203	No preload
BK17_C5			C5	7203A P0	370
BK17_C3			C3	7203A P5	370
BK17_C7N		Chemical nickel	C7	6203	No preload
BK17_C5N			C5	7203A P0	370
BK17_C3N			C3	7203A P5	370
BK20_C7	BK20	Blacken	C7	6004	No preload
BK20_C5			C5	7004A P0	380
BK20_C3			C3	7004A P5	380
BK20_C7N		Chemical nickel	C7	6004	No preload
BK20_C5N			C5	7004A P0	380
BK20_C3N			C3	7004A P5	380



Note:

1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.
4. No oil nozzle for standard products (the place marked with ★), please inform the business personnel in advance if necessary

BK series (square fixing side)

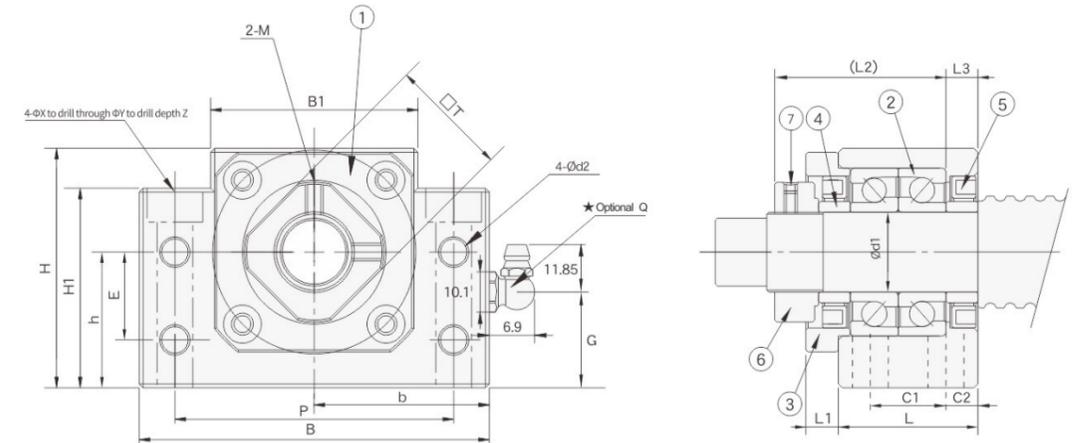
BK series (square fixing side)

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
BK25_C7	BK25	Blacken	C7	6205	No preload
BK25B_C7			C7	7205B P0	No preload
BK25_C5			C5	7205A P0	730
BK25B_C5			C5	7205B P0	1000
BK25_C3			C3	7205A P5	730
BK25_C7N		Chemical nickel	C7	6205	No preload
BK25B_C7N			C7	7205B P0	No preload
BK25_C5N			C5	7205A P0	730
BK25B_C5N			C5	7205B P0	1000
BK25_C3N			C3	7205A P5	730
BK30_C7	BK30	Blacken	C7	6206	No preload
BK30B_C7			C7	7206B P0	No preload
BK30_C5			C5	7206A P0	1050
BK30B_C5			C5	7206B P0	1250
BK30_C3			C3	7206A P5	1050
BK30_C7N		Chemical nickel	C7	6206	No preload
BK30B_C7N			C7	7206B P0	No preload
BK30_C5N			C5	7206A P0	1050
BK30B_C5N			C5	7206B P0	1250
BK30_C3N			C3	7206A P5	1050
BK35_C7	BK35	Blacken	C7	6207	No preload
BK35_C5			C5	7207B P0	1320
BK35_C7N		Chemical nickel	C7	6207	No preload
BK35_C5N			C5	7207B P0	1320
BK40_C7	BK40	Blacken	C7	6208	No preload
BK40_C5			C5	7208B P0	2050
BK40_C7N		Chemical nickel	C7	6208	No preload
BK40_C5N			C5	7208B P0	2050



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Press plate	1
4	Spacer ring	2
5	Shaft seal	2
6	Locking nut	1
7	Hexagon stop screw	2

BK



Model	Shaft diameter d1	L	L1	L2	L3	B	H	b	h	B1	H1	E	P	C1	C2	d2	X	Y	Z	M	T	G	Q	Weight
BK10	10	25	5	29.5	5	60	39	30	22	34	32.5	15	46	13	6	5.5	6.6	10.8	5	M3	16	15	M6	0.4
BK12	12	25	5	29.5	5	60	43	30	25	34	32.5	18	46	13	6	5.5	6.6	10.8	1.5	M4	19	18	M6	0.45
BK15	15	27	6	32	6	70	48	35	28	40	38	18	54	15	6	5.5	6.6	11	6.5	M4	22	18	M6	0.6
BK17	17	35	9	44	7	86	64	43	39	50	55	28	68	19	8	6.6	9	14	8.5	M4	24	30	M6	1.3
BK20	20	35	8	43	8	88	60	44	34	52	50	22	70	19	8	6.6	9	14	8.5	M4	30	24	M6	1.3
BK25	25	42	12	54	9	106	80	53	48	64	70	33	85	22	10	9	11	17	11	M5	35	37	M6	2.4
BK30	30	45	14	61	9	128	89	64	51	76	78	33	102	23	11	11	14	20	13	M6	40	37	M6	3.4
BK35	35	50	14	67	12	140	96	70	52	88	79	35	114	26	12	11	14	20	13	M8	50	37	M6	4.4
BK40	40	61	18	76	15	160	110	80	60	100	90	37	130	33	14	14	18	26	17.5	M8	50	43	M6	6.8

Note:
 1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
 2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
 3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.
 4. No oil nozzle for standard products (the place marked with ★), please inform the business personnel in advance if necessary

BF series (square supporting side)

BF series (square supporting side)

Order number	Model	Surface preparation	Applicable screw	Use bearing
BF10_C7	BF10	Blacken	C7	608ZZ
BF10_C3			C3 C5	608ZZ
BF10_C7N		Chemical nickel	C7	608DD
BF10_C3N			C3 C5	608DD
BF12_C7	BF12	Blacken	C7	6000ZZ
BF12_C3			C3 C5	6000ZZ
BF12_C7N		Chemical nickel	C7	6000DDU
BF12_C3N			C3 C5	6000DDU
BF15_C7	BF15	Blacken	C7	6002ZZ
BF15_C3			C3 C5	6002ZZ
BF15_C7N		Chemical nickel	C7	6002DDU
BF15_C3N			C3 C5	6002DDU
BF17_C7	BF17	Blacken	C7	6203ZZ
BF17_C3			C3 C5	6203ZZ
BF17_C7N		Chemical nickel	C7	6203DDU
BF17_C3N			C3 C5	6203DDU
BF20_C7	BF20	Blacken	C7	6004ZZ
BF20_C3			C3 C5	6004ZZ
BF20_C7N		Chemical nickel	C7	6004DDU
BF20_C3N			C3 C5	6004DDU
BF25_C7	BF25	Blacken	C7	6205ZZ
BF25_C3			C3 C5	6205ZZ
BF25_C7N		Chemical nickel	C7	6205DDU
BF25_C3N			C3 C5	6205DDU
BF30_C7	BF30	Blacken	C7	6206ZZ
BF30_C3			C3 C5	6206ZZ
BF30_C7N		Chemical nickel	C7	6206DDU
BF30_C3N			C3 C5	6206DDU
BF35_C7	BF35	Blacken	C7	6207ZZ
BF35_C3			C3 C5	6207ZZ
BF35_C7N		Chemical nickel	C7	6207DDU
BF35_C3N			C3 C5	6207DDU
BF40_C7	BF40	Blacken	C7	6208ZZ
BF40_C3			C3 C5	6208ZZ
BF40_C7N		Chemical nickel	C7	6208DDU
BF40_C3N			C3 C5	6208DDU



Blacken (applicable environment: general)

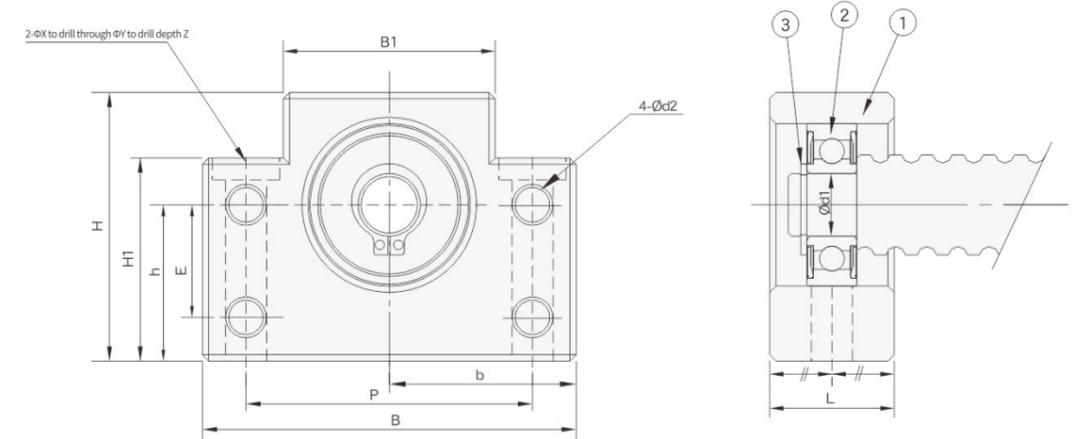


Chemical nickel (applicable environment: clean room)



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Type C retaining ring	1

BF



Unit: mm

Model	Shaft diameter	L	B	H	b	h	B1	H1	E	P	d2	X	Y	Z	Bearing block body	Type C retaining ring	Weight
					± 0.02	± 0.02											
BF10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5	608ZZ	S 08	0.3
BF12	10	20	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	1.5	6000ZZ	S 10	0.35
BF15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5	6002ZZ	S 15	0.4
BF17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5	6203ZZ	S 17	0.75
BF20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5	6004ZZ	S 20	0.77
BF25	25	30	106	80	53	48	64	70	33	85	9	11	17	11	6205ZZ	S 25	1.45
BF30	30	32	128	89	64	51	76	78	33	102	11	14	20	13	6206ZZ	S 30	1.95
BF35	35	32	140	96	70	52	88	79	35	114	11	14	20	13	6207ZZ	S 35	2.25
BF40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5	6208ZZ	S 40	3.3

Note: 1. Steel dustproof cover for bearing used for blackening. 2. Bearing used by chemical nickel is made of dual plastic caps. 3. All bearings of Taiwan brands shall be used.

BF series (square supporting side)

FK series (round fixing side)

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
FK05_C7	FK05	Blacken	C7	605	No preload
FK05_C7N		Chemical nickel	C7	605	No preload
FK06_C7	FK06	Blacken	C7	606	No preload
FK06_C5			C5	706A P0	50
FK06_C3			C3	706A P5	50
FK06_C7N		Chemical nickel	C7	606	No preload
FK06_C5N			C5	706A P0	50
FK06_C3N			C3	706A P5	50
FK08_C7	FK08	Blacken	C7	608	No preload
FK08_C5			C5	708A P0	90
FK08_C3			C3	708A P5	90
FK08_C7N		Chemical nickel	C7	608	No preload
FK08_C5N			C5	708A P0	90
FK08_C3N			C3	708A P5	90
FK10_C7	FK10	Blacken	C7	6000	No preload
FK10_C5			C5	7000A P0	190
FK10_C3			C3	7000A P5	190
FK10_C7N		Chemical nickel	C7	6000	No preload
FK10_C5N			C5	7000A P0	190
FK10_C3N			C3	7000A P5	190
FK12_C7	FK12	Blacken	C7	6001	No preload
FK12_C5			C5	7001A P0	210
FK12_C3			C3	7001A P5	210
FK12_C7N		Chemical nickel	C7	6001	No preload
FK12_C5N			C5	7001A P0	210
FK12_C3N			C3	7001A P5	210
FK15_C7	FK15	Blacken	C7	6002	No preload
FK15_C5			C5	7002A P0	230
FK15_C3			C3	7002A P5	230
FK15_C7N		Chemical nickel	C7	6002	No preload
FK15_C5N			C5	7002A P0	230
FK15_C3N			C3	7002A P5	230



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)

Note:

1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.

Order number	Model	Surface preparation	Applicable screw	Use bearing	
				Model	Maximum start torque gf·cm
FK17_C7	FK17	Blacken	C7	6203A P0	No preload
FK17_C5			C5	7203A P0	370
FK17_C3			C3	7203A P5	370
FK17_C7N		No preload	C7	6203A P0	No preload
FK17_C5N			C5	7203A P0	370
FK17_C3N			C3	7203A P5	370
FK20_C7	FK20	Blacken	C7	6204A P0	No preload
FK20B_C7			C7	7204B P0	No preload
FK20_C5			C5	7204A P0	550
FK20B_C5		C5	7204B P0	660	
FK20_C3		No preload	C3	7204A P5	550
FK20_C7N			C7	6204A P0	No preload
FK20B_C7N	C7		7204B P0	No preload	
FK20_C5N	No preload	C5	7204A P0	550	
FK20B_C5N		C5	7204A P0	660	
FK20_C3N		C3	7204A P5	550	
FK25_C7	FK25	Blacken	C7	6205A P0	No preload
FK25B_C7			C7	7205B P0	No preload
FK25_C5			C5	7205A P0	730
FK25B_C5		C5	7205B P0	1000	
FK25_C3		No preload	C3	7205A P5	730
FK25_C7N			C7	6205A P0	No preload
FK25B_C7N	C7		7205B P0	No preload	
FK25_C5N	No preload	C3	7205A P0	730	
FK25B_C5N		C5	7205B P0	1000	
FK25_C3N		C3	7205A P5	730	
FK30_C7	FK30	Blacken	C7	6206A P0	No preload
FK30B_C7			C7	7206B P0	No preload
FK30_C5			C5	7206A P0	1050
FK30B_C5		C5	7206B P0	1250	
FK30_C3		No preload	C3	7206A P5	1050
FK30_C7N			C7	6206A P0	No preload
FK30B_C7N	C7		7206B P0	No preload	
FK30_C5N	No preload	C5	7206B P0	1050	
FK30B_C5N		C5	7206B P0	1250	
FK30_C3N		C3	7206A P5	1050	



Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)

Note:

1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.
4. No oil nozzle for standard products (the place marked with ★), please inform the business personnel in advance if necessary

FK series (round fixing side)

FK series (round fixing side)



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Press plate	1
4	Spacer ring	2
5	Shaft seal	2
6	Locking nut	1
7	Hexagon stop screw	2

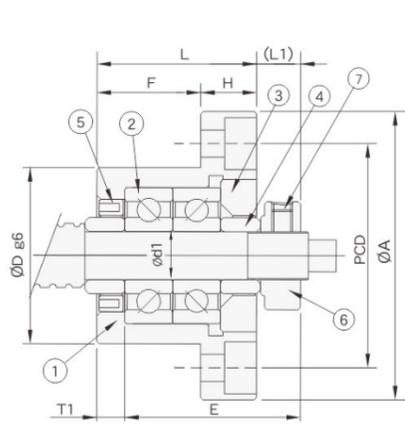


Nozzle location for reference only, detailed nozzle location to the company's website catalog query.

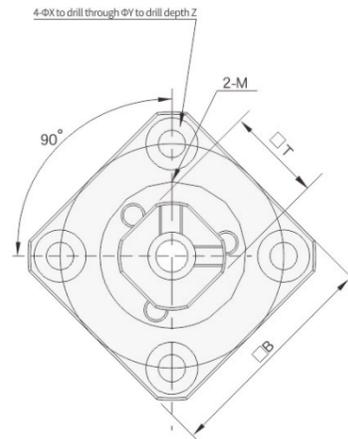
No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Press plate	1
4	Spacer ring	2
5	Shaft seal	2
6	Locking nut	1
7	Hexagon stop screw	2

FK05~FK08

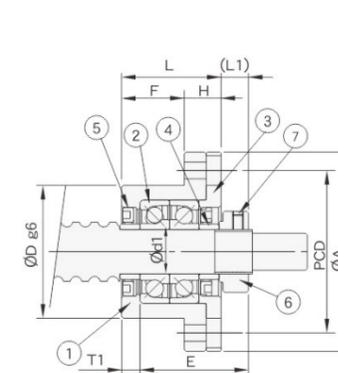
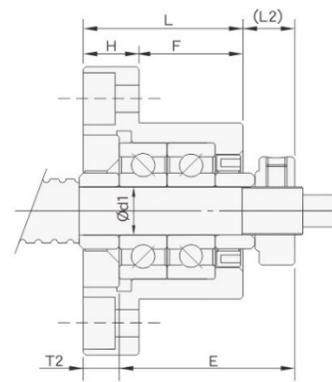
FK10~FK30



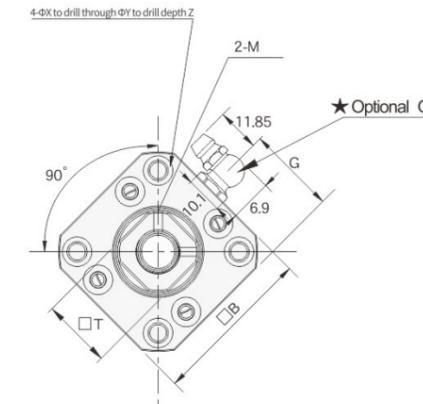
Method of Erection A



Method of Erection B



Method of Erection A



Method of Erection B

Model	Shaft diameter d1	L	H	F	E	Dg6	A	PCD	B	Device method A		Device method B		X	Y	Z	M	T	G	Q	Weight
										L1	T1	L2	T2								
										FK05	5	16.5	6								
FK06	6	20	7	13	22	22 ^{-0.007} _{-0.02}	36	28	28	5.5	3.5	6.5	4.5	3.4	6.5	4	M3	12		M6	0.12
FK08	8	23	9	14	26	28 ^{-0.007} _{-0.02}	43	35	35	7	4	8	5	3.4	6.5	4	M3	14		M6	0.16

Unit:mm

Model	Shaft diameter d1	L	H	F	E	Dg6	A	PCD	B	Device method A		Device method B		X	Y	Z	M	T	G	Q	Weight
										L1	T1	L2	T2								
										FK10	10	27	10								
FK12	12	27	11	16	29.5	36 ^{-0.009} _{-0.025}	54	44	44	7.5	5	8.5	6	4.5	8	4	M4	19	-	M6	0.26
FK15	15	32	15	17	36	40 ^{-0.009} _{-0.025}	63	50	52	10	6	12	8	5.5	9.5	6	M4	22	26	M6	0.4
FK17	17	45	22	23	47	50 ^{-0.009} _{-0.025}	77	62	61	11	9	14	12	6.6	11	10	M4	24	30.5	M6	0.85
FK20	20	52	22	30	50	57 ^{-0.010} _{-0.029}	85	70	68	8	10	12	14	6.6	11	10	M4	30	34	M6	1.2
FK25	25	57	27	30	59	63 ^{-0.010} _{-0.029}	98	80	79	13	10	20	17	9	15	13	M5	35	39.5	M6	1.6
FK30	30	62	30	32	61	75 ^{-0.010} _{-0.029}	117	95	93	11	12	17	18	11	17.5	15	M6	40	46.5	M6	2.38

Unit:mm

FF series (round support side)

FF series (round support side)

Order number	Model	Surface preparation	Applicable screw	Use bearing
FF06_C7	FF06	Blacken	C7	606ZZ
FF06_C3			C3 C5	606ZZ
FF06_C7N		Chemical nickel	C7	606VV
FF06_C3N			C3 C5	606VV
FF10_C7	FF10	Blacken	C7	608ZZ
FF10_C3			C3 C5	608ZZ
FF10_C7N		Chemical nickel	C7	608DD
FF10_C3N			C3 C5	608DD
FF12_C7	FF12	Blacken	C7	6000ZZ
FF12_C3			C3 C5	6000ZZ
FF12_C7N		Chemical nickel	C7	6000DDU
FF12_C3N			C3 C5	6000DDU
FF15_C7	FF15	Blacken	C7	6002ZZ
FF15_C3			C3 C5	6002ZZ
FF15_C7N		Chemical nickel	C7	6002DDU
FF15_C3N			C3 C5	6002DDU
FF17_C7	FF17	Blacken	C7	6203ZZ
FF17_C3			C3 C5	6203ZZ
FF17_C7N		Chemical nickel	C7	6203DDU
FF17_C3N			C3 C5	6203DDU
FF20_C7	FF20	Blacken	C7	6204ZZ
FF20_C3			C3 C5	6204ZZ
FF20_C7N		Chemical nickel	C7	6204DDU
FF20_C3N			C3 C5	6204DDU
FF25_C7	FF25	Blacken	C7	6205ZZ
FF25_C3			C3 C5	6205ZZ
FF25_C7N		Chemical nickel	C7	6205DDU
FF25_C3N			C3 C5	6205DDU
FF30_C7	FF30	Blacken	C7	6206ZZ
FF30_C3			C3 C5	6206ZZ
FF30_C7N		Chemical nickel	C7	6206DDU
FF30_C3N			C3 C5	6206DDU



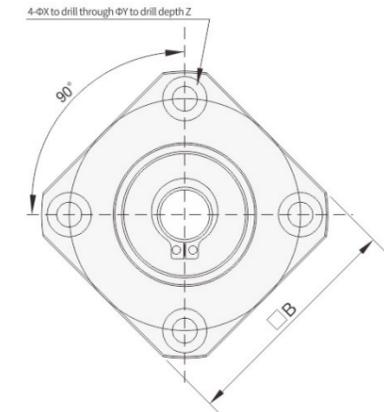
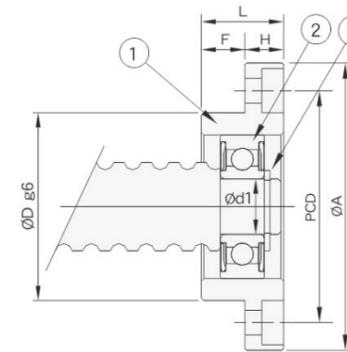
Blacken (applicable environment: general)



Chemical nickel (applicable environment: clean room)



FF



No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Type C retaining ring	1

Model	Shaft diameter d1	L	H	F	Dg6	A	PCD	B	X	Y	Z	Bearing block body	Type C retaining ring	Weight
FF06	6	10	6	4	22 ^{-0.007} _{-0.02}	36	28	28	3.4	6.5	4	606ZZ	S 06	0.08
FF10	8	12	7	5	28 ^{-0.007} _{-0.02}	43	35	35	3.4	6.5	4	608ZZ	S 08	0.1
FF12	10	15	7	8	34 ^{-0.009} _{-0.025}	52	42	42	4.5	8	4	6000ZZ	S 10	0.15
FF15	15	17	9	8	40 ^{-0.009} _{-0.025}	63	50	52	5.5	9.5	5.5	6002ZZ	S 15	0.22
FF17	17	20	11	9	50 ^{-0.009} _{-0.025}	77	62	61	6.6	11	6.5	6203ZZ	S 17	0.35
FF20	20	20	11	9	57 ^{-0.010} _{-0.029}	85	70	68	6.6	11	6.5	6204ZZ	S 20	0.45
FF25	25	24	14	10	63 ^{-0.010} _{-0.029}	98	80	79	9	14	8.5	6205ZZ	S 25	0.66
FF30	30	27	18	9	75 ^{-0.010} _{-0.029}	117	95	93	11	17	11	6206ZZ	S 30	1.05

Unit: mm

Note: 1. Steel dustproof cover for bearing used for blackening. 2. Bearing used by chemical nickel is made of dual plastic caps. 3. All bearings of Taiwan brands shall be used.

AK series (square fixing side)

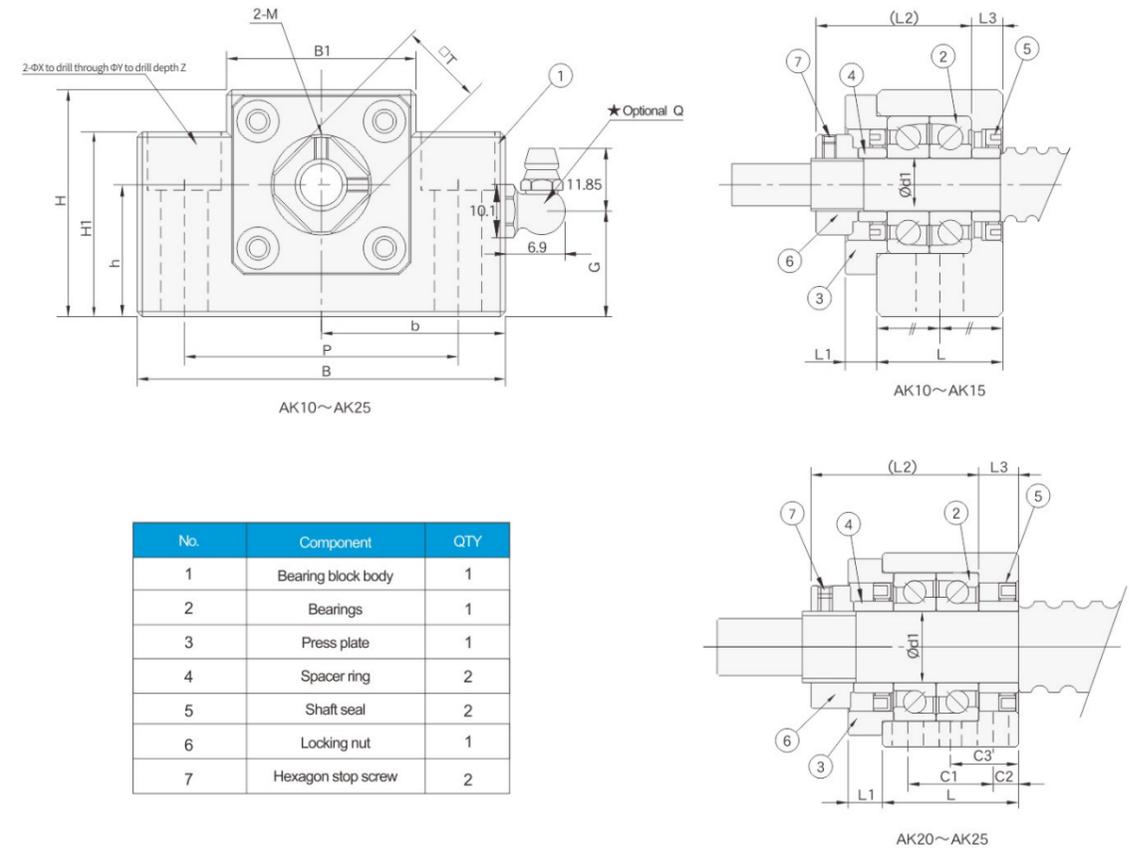
AK series (square fixing side)

Order number	Model	Surface preparation	Applicable screw	Use bearing		Image
				Model	Maximum start torque (gf·cm)	
AK10_C7	AK10	Blacken	C7	6000	No preload	 <p>★ Optional Q Blacken (applicable environment: general)</p>
AK10_C5			C5	7000A P0	190	
AK10_C3			C3	7000A P5	190	
AK10_C7N		Chemical nickel	C7	6000	No preload	
AK10_C5N			C5	7000A P0	190	
AK10_C3N			C3	7000A P5	190	
AK12_C7	AK12	Blacken	C7	6001	No preload	 <p>★ Optional Q Chemical nickel (applicable environment: clean room)</p>
AK12_C5			C5	7001A P0	210	
AK12_C3			C3	7001A P5	210	
AK12_C7N		Chemical nickel	C7	6001	No preload	
AK12_C5N			C5	7001A P0	210	
AK12_C3N			C3	7001A P5	210	
AK15_C7	AK15	Blacken	C7	6002	No preload	 <p>★ Optional Q Chemical nickel (applicable environment: clean room)</p>
AK15_C5			C5	7002A P0	230	
AK15_C3			C3	7002A P5	230	
AK15_C7N		Chemical nickel	C7	6002	No preload	
AK15_C5N			C5	7002A P0	230	
AK15_C3N			C3	7002A P5	230	
AK20_C7	AK20	Blacken	C7	6204	No preload	 <p>★ Optional Q Blacken (applicable environment: general)</p>
AK20B_C7			C7	7204B P0	No preload	
AK20_C5			C5	7204A P0	380	
AK20B_C5		C5	7204B P0	550		
AK20_C3		C3	7204A P5	380		
AK20_C7N		Chemical nickel	C7	6204	No preload	
AK20B_C7N			C7	7204B P0	No preload	
AK20_C5N			C5	7204A P0	380	
AK20B_C5N		C5	7204B P0	550		
AK20_C3N	C3	7204A P5	380			
AK25_C7	AK25	Blacken	C7	6205	No preload	 <p>★ Optional Q Blacken (applicable environment: general)</p>
AK25B_C7			C7	7205B P0	No preload	
AK25_C5			C5	7205A P0	730	
AK25B_C5		C5	7205B P0	1050		
AK25_C3		C3	7205A P0	730		
AK25_C7N		Chemical nickel	C7	6205	No preload	
AK25B_C7N			C7	7205B P0	No preload	
AK25_C5N			C5	7205A P0	730	
AK25B_C5N		C5	7205B P0	1050		
AK25_C3N	C3	7205A P5	730			

Note:
 1. For level C7, a 6 head bearing shall be used, the axial load is light, and the clearance is about 0.03mm. (Please consult the technical information first to order this specification)
 2. For level C5, the bearing used is pre-loaded with a zero clearance in the axial direction.
 3. All the bearings are manufactured by Taiwan brand manufacturers, assembled with DF, and are most suitable for ball screw use.
 4. No oil nozzle for standard products (the place marked with ★), please inform the business personnel in advance if necessary



AK

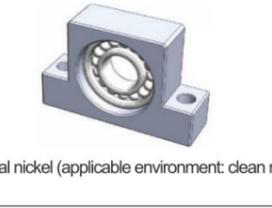


Model	Shaft diameter d1	L	L1	L2	L3	B	H	b ±0.02	h ±0.02	B1	H1	P	X	Y	Z	M	T	C1	C2	C3	G	Q	Weight
AK10	10	24	6	29.5	6	70	43	35	25	36	35	52	9	14	11	M3	16	-	-	-	20	M6	0.5
AK12	12	24	6	29.5	6	70	43	35	25	36	35	52	9	14	11	M4	19	-	-	-	20	M6	0.5
AK15	15	25	6	36	5	80	49	40	30	41	40	60	11	17	15	M4	22	-	-	-	21	M6	0.65
AK20	20	42	10	50	10	95	58	47.5	30	56	45	75	11	17	15	M4	30	22	10	-	24	M6	1.45
AK25	25	48	12	56	14	105	68	52.5	35	66	25	85	11	-	-	M5	35	30	9	24	58	-	1.92

Unit: mm

AF series (square supporting side)

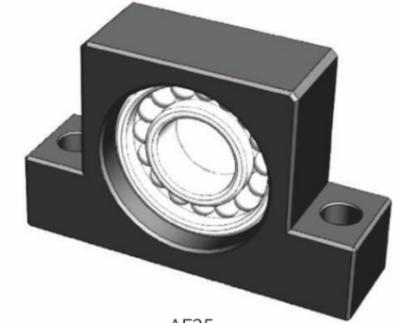
AF series (square supporting side)

Order number	Model	Surface preparation	Applicable screw	Use bearing	
AF10_C7	AF10	Blacken	C7	608ZZ	 Blacken (applicable environment: general)
AF10_C3			C3 C5	608ZZ	
AF10_C7N		Chemical nickel	C7	608DD	
AF10_C3N			C3 C5	608DD	
AF12_C7	AF12	Blacken	C7	6000ZZ	 Chemical nickel (applicable environment: clean room)
AF12_C3			C3 C5	6000ZZ	
AF12_C7N		Chemical nickel	C7	6000DDU	
AF12_C3N			C3 C5	6000DDU	
AF15_C7	AF15	Blacken	C7	6002ZZ	 Blacken (applicable environment: general)
AF15_C3			C3 C5	6002ZZ	
AF15_C7N		Chemical nickel	C7	6002DDU	
AF15_C3N			C3 C5	6002DDU	
AF20_C7	AF20	Blacken	C7	6204ZZ	 Chemical nickel (applicable environment: clean room)
AF20_C3			C3 C5	6204ZZ	
AF20_C7N		Chemical nickel	C7	6204DDU	
AF20_C3N			C3 C5	6204DDU	
AF25_C7	AF25	Blacken	C7	6205ZZ	 Blacken (applicable environment: general)
AF25_C3			C3 C5	6205ZZ	
AF25_C7N		Chemical nickel	C7	6205DDU	
AF25_C3N			C3 C5	6205DDU	

Note: 1. Steel dustproof cover for bearing used for blackening. 2. Bearing used by chemical nickel is made of dual plastic caps. 3. All bearings of Taiwan brands shall be used.



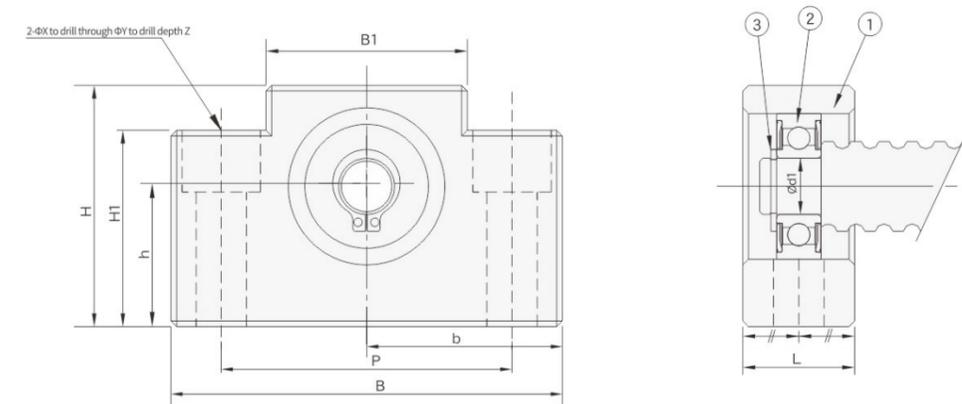
AF10~20



AF25

AF

No.	Component	QTY
1	Bearing block body	1
2	Bearings	1
3	Type C retaining ring	1



Model	Shaft diameter d1	L	B	H	b	h	B1	H1	P	X	Y	Z	Bearing block body	Type C retaining ring	Weight
AF10	8	20	70	43	± 0.02 35	± 0.02 25	36	35	52	9	14	11	608ZZ	S 08	0.37
AF12	10	20	70	43	± 0.02 35	± 0.02 25	36	35	52	9	14	11	6000ZZ	S 10	0.37
AF15	15	20	80	49	± 0.02 40	± 0.02 30	41	40	60	9	14	11	6002ZZ	S 15	0.45
AF20	20	26	95	58	± 0.02 47.5	± 0.02 30	56	45	75	11	17	15	6204ZZ	S 20	0.75
AF25	25	30	105	68	± 0.02 52.5	± 0.02 35	66	25	85	11	-	-	6205ZZ	S 25	0.95

Unit: mm

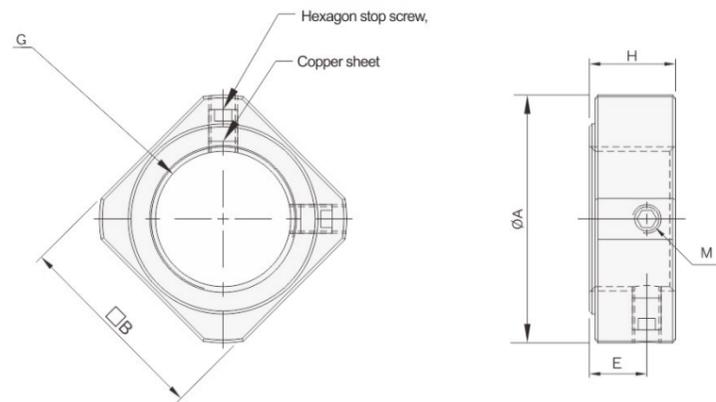
Locking nut

Suggested machining dimensions of shaft end (fixing side)—BK



No.	Component	QTY
1	Locking nut	1
2	Hexagon stop screw, attached with copper sheet	2

Lock Nut

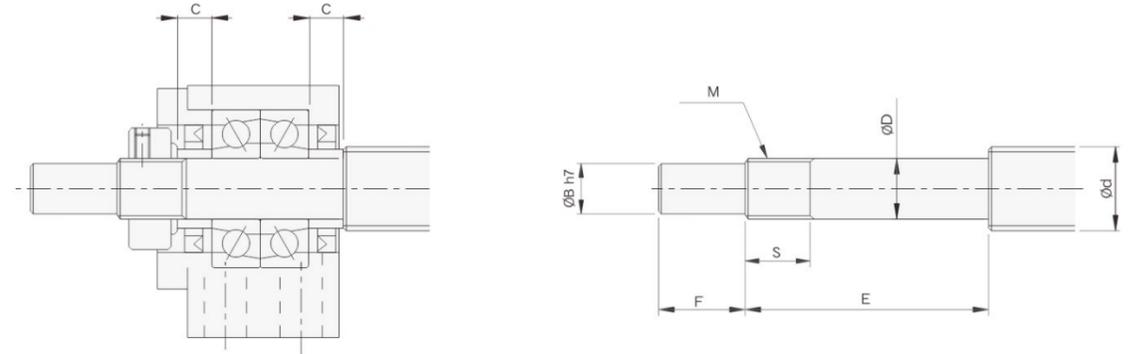


Unit: mm

Model	H	A	E	M	B	G
RN-M5x0.5	5	12.5	2.7	M3x0.5	11	M5x0.5
RN-M6x0.75	5	13.5	2.7	M3x0.5	12	M6x0.75
RN-M8x1.0	6.5	16	4	M3x0.5	14	M8x1.0
RN-M10x1.0	8	19	5.5	M3x0.5	16	M10x1.0
RN-M12x1.0	8	22	5.5	M4x0.7	19	M12x1.0
RN-M15x1.0	8	25	4.75	M4x0.7	22	M15x1.0

Unit: mm

Model	H	A	E	M	B	G
RN-M17x1.0	13	29	9	M4	24	M17x1.0
RN-M20x1.0	11	35	7	M4	30	M20x1.0
RN-M25x1.5	15	43	10	M6	35	M25x1.5
RN-M30x1.5	20	48	14	M6	40	M30x1.5
RN-M35x1.5	21	60	14	M6	50	M35x1.5
RN-M40x1.5	25	62	18	M6	50	M40x1.5

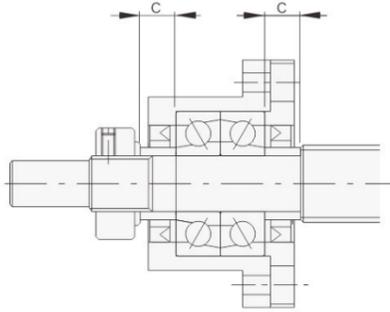
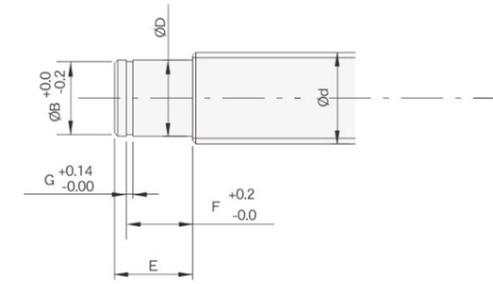
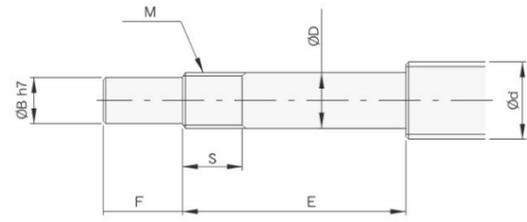


Unit: mm

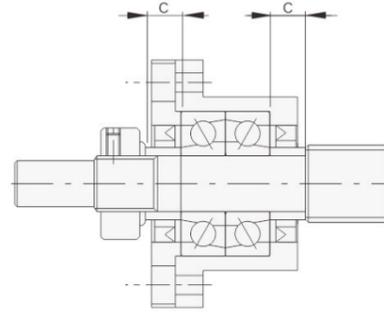
Model	Outer diameter of ball screw shaft	Shaft end diameter	Shaft end diameter			Nominal thread		Sleeve length
			B	E	F	M	S	
BK	d	D	B	E	F	M	S	C
BK10	12/14/15	10 ^{-0.008} ^{-0.015}	8	36	15	M10x1	12	5.5
BK12	14/15/16	12 ^{-0.008} ^{-0.015}	10	36	15	M12x1	12	5.5
BK15	18/20	15 ^{-0.008} ^{-0.017}	12	40	20	M15x1	12	6
BK17	20/25	17 ^{-0.008} ^{-0.017}	15	53	23	M17x1	17	7
BK20	25/28	20 ^{-0.008} ^{-0.017}	17	53	25	M20x1	15	8
BK25	32/36	25 ^{-0.008} ^{-0.017}	20	66	30	M25x1.5	20	9
BK30	36/40	30 ^{-0.008} ^{-0.018}	25	73	38	M30x1.5	25	9
BK35	45	35 ^{-0.008} ^{-0.018}	30	82	45	M35x1.5	26	12
BK40	50	40 ^{-0.008} ^{-0.018}	35	94	50	M40x1.5	30	15

Suggested machining dimensions of shaft end (fixing side)—FK, FKA, EK, AK, LK

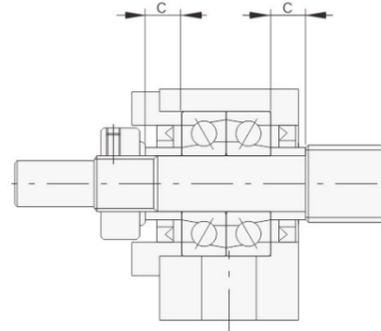
Suggested machining dimensions of shaft end (supporting side)—FF, EF, BF, AF, LF



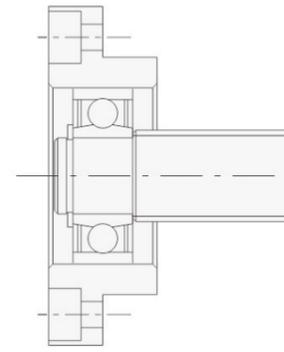
FK, FKA



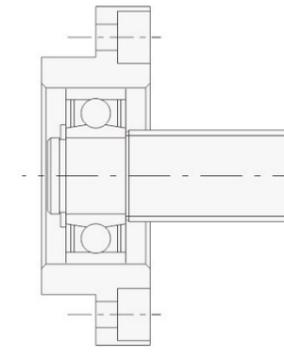
EK, FKA



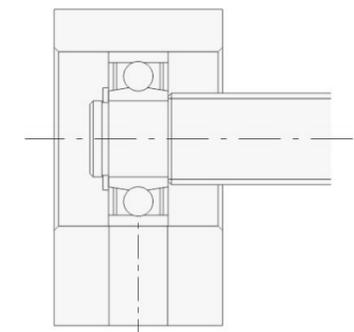
EK, AK, LK



FF



FF



EF, BF, AF, LF

Unit:mm

Model				Outer diameter of ball screw shaft	Shaft end diameter				Nominal thread	Sleeve length	
FK FKA	EK	AK	LK	d	D	B	E	F	M	S	C
FK05 FKA05	EK05	-	-	8	5 -0.008 -0.015	4	23	6	M5x0.5	7	3.5
FK06 FKA06	EK06	-	-	8	6 -0.008 -0.015	4	28	8	M6x0.75	8	5
FK08 FKA08	EK08	-	LK08	10/12	8 -0.008 -0.015	6	32	9	M8x1	10	5.5
FK10 FKA10	EK10	AK10	LK10	12/14/15	10 -0.008 -0.015	8	36	15	M10x1	12	5.5
FK12 FKA12	EK12	AK12	LK12	14/15/16	12 -0.008 -0.015	10	36	15	M12x1	12	5.5
FK15 FKA15	EK15	AK15	LK15	18/20	15 -0.008 -0.017	12	48	20	M15x1	13	10
FK17	-	-	-	20/25	17 -0.008 -0.017	15	59	23	M17x1	17	10
FK20 FKA20	EK20	AK20	-	25/28/30	20 -0.008 -0.017	17	64	25	M20x1	16	11
FK25	-	AK25	-	30/32/36	25 -0.008 -0.017	20	76	30	M25x1.5	20	14
FK30	-	-	-	36/40	30 -0.008 -0.018	25	73	38	M30x1.5	25	9

Unit:mm

Model					Outer diameter of ball screw shaft	Shaft end diameter					
FF	EF	BF	AF	LF	d	D	E	B	F	G	
FF06	EF06	-	-	-	8	6 -0.008 -0.015	9	5.7	6.8	0.8	
-	EF08	-	-	LF08	10	6 -0.008 -0.015	9	5.7	6.8	0.8	
FF10	EF10	BF10	AF10	-	12/14/15	8 -0.008 -0.015	10	7.6	7.9	0.9	
FF12	EF12	BF12	AF12	LF12	14/15/16	10 -0.008 -0.015	11	9.6	9.15	1.15	
FF15	EF15	BF15	AF15	LF15	18/20	15 -0.008 -0.017	13	14.3	10.15	1.15	
FF17	-	BF17	-	-	20/25	17 -0.008 -0.017	16	16.2	13.15	1.15	
FF20	EF20	(BF20)	AF20	-	25/28/30	20 -0.008 -0.017	19(16)	19	15.35(13.35)	1.35	
FF25	-	BF25	AF25	-	30/32/36	25 -0.008 -0.017	20	23.9	16.35	1.35	
FF30	-	BF30	-	-	36/40	30 -0.008 -0.018	21	28.6	17.75	1.75	
-	-	BF35	-	-	40/45	35 -0.008 -0.018	22	33	18.75	1.75	
-	-	BF40	-	-	50	40 -0.008 -0.018	23	38	19.95	1.95	