

Support Unit AK (fixed-side rectangular type)

Order Coding	Model No.	Surface treatment	Applicable ballscrew accuracy grade	Bearing		
AK10_C7	AK10	Black Oxide	C7	7000A P0	 <p>(option)</p>	
AK10_C5			C5			
AK10_C3			C3			
AK10_C7N		Electroless Nickel Plating	C7	7000A P0		
AK10_C5N			C5			
AK10_C3N			C3			
AK12_C7	AK12	Black Oxide	C7	7001A P0		
AK12_C5			C5			
AK12_C3			C3			
AK12_C7N		Electroless Nickel Plating	C7	7001A P0		
AK12_C5N			C5			
AK12_C3N			C3			
AK15_C7	AK15	Black Oxide	C7	7002A P0	 <p>(option)</p>	
AK15_C5			C5			
AK15_C3			C3			
AK15_C7N		Electroless Nickel Plating	C7	7002A P0		
AK15_C5N			C5			
AK15_C3N			C3			
AK20_C7	AK20	Black Oxide	C7	7204A P0		
AK20B_C7			C7			7204B P0
AK20_C5			C5			
AK20B_C5			C5			
AK20_C3			C3	7204A P5		
AK20_C7N			Electroless Nickel Plating			C7
AK20B_C7N		C7				7204B P0
AK20_C5N		C5				
AK20B_C5N		C5				
AK20_C3N		C3		7204A P5		

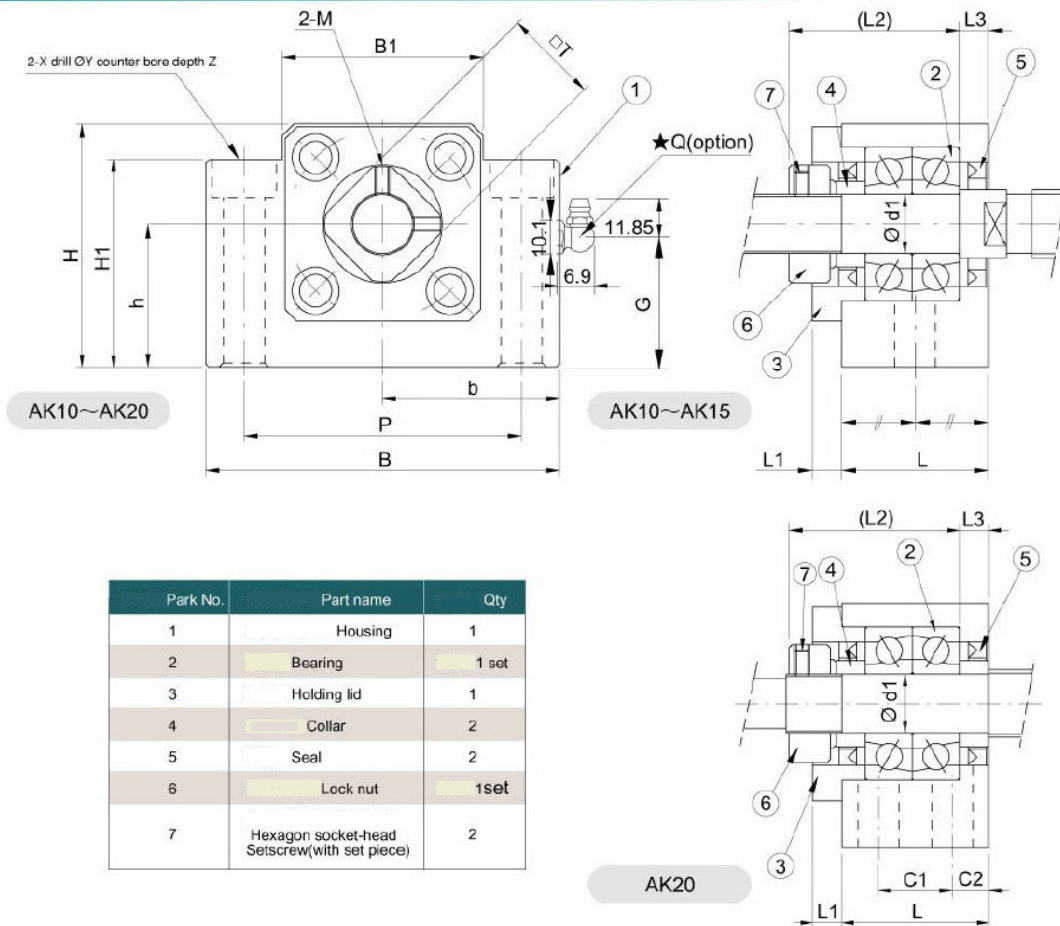
(Note) :

1. (Using angular contact ball bearings without preload for C7 types Support Units , and Max. axial clearance is 0.018mm.)
2. (Bearings make Preload for C5 type support units , and Axial clearance is 0 mm..)
3. (All of bearings use Japanese brand bearings.)
4. (The standard type is without Q , if required,please advise in advance.)



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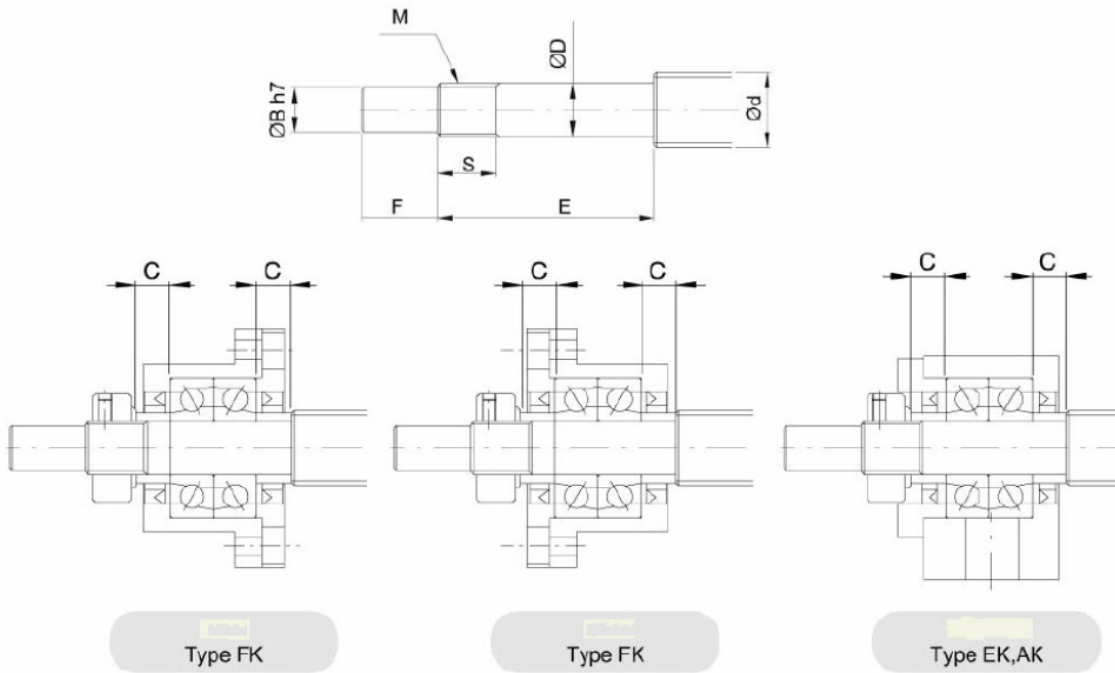


Part No.	Part name	Qty
1	Housing	1
2	Bearing	1 set
3	Holding lid	1
4	Collar	2
5	Seal	2
6	Lock nut	1set
7	Hexagon socket-head Setscrew(with set piece)	2

Unit : mm

Model No.	Shaft diameter d1	L	L1	L2	L3	B	H	b	h	B1	H1	P	X	Y	Z	M	T	C1	C2	G	Q
								±0.02	±0.02												
AK10	10	24	6	29.5	6	70	43	35	25	36	35	52	9	14	11	M3	16	-	-	-	-
AK12	12	24	6	29.5	6	70	43	35	25	36	35	52	9	14	11	M4	19	-	-	-	-
AK15	15	25	6	36	5	80	49	40	30	41	40	60	11	17	15	M4	22	-	-	-	-
AK20	20	42	10	50	10	95	58	47.5	30	56	45	75	11	17	15	M4	30	22	10	24.5	M6

FK,EK,AK
Recommended shaft end shape(Fixed-side)
for Support Units types FK,EK,AK



Unit : mm

Support unit model No.			Ballscrew shaft OD	Shaft support portion OD			Metric screw thread		Length of Sleeve		
Type FK	Type EK	Type AK	d	D		B	E	F	M	S	C
FK05	EK05	-	8	5	-0.005 -0.012	4	25	6	M5×0.5	7	3.5
FK06	EK06	-	8	6	-0.005 -0.012	4	28	8	M6×0.75	8	5
FK08	EK08	-	10/12	8	-0.005 -0.012	6	32	9	M8×1	10	5.5
FK10	EK10	AK10	12/14/15	10	-0.005 -0.012	8	36	15	M10×1	11	5.5
FK12	EK12	AK12	14/15/16	12	-0.005 -0.012	10	36	15	M12×1	11	5.5
FK15	EK15	AK15	18/20	15	-0.005 -0.014	12	47	20	M15×1	13	10
FK17	-	-	20/25	17	-0.005 -0.014	15	58	23	M17×1	15	10
FK20	EK20	AK20	25/28/30	20	-0.005 -0.014	17	62	25	M20×1	17	11
FK25	-	-	30/32/36	25	-0.005 -0.014	20	76	30	M25×1.5	20	15
FK30	-	-	36/40	30	-0.005 -0.015	25	72	38	M30×1.5	25	9

Reference of Axial load of fixed-side type support units

Model No.		Bearing	Static load (Kgf)	Allowable Axial load (Kgf)	Limiting RPM (RPM)
FK06	EK06	706	93	74	
FK08	EK08	708	129	103	
BK10	AK10	7000A	239	195	16800
FK10	EK10				
BK12	AK12	7001A	276	217	15400
FK12	EK12				
BK15	AK15	7002A	321	240	13300
FK15	EK15				
BK17	FK17	7203A	556	413	11200
		7203B	523	490	7700
BK20		7004A	622	428	10500
FK20	AK20	7204A	770	587	9100
	EK20	7204B	710	691	6650
BK25	FK25	7205A	964	709	8400
		7205B	881	820	5950
BK30	FK30	7206A	1388	939	7000
		7206B	1268	1082	4970
BK35		7207B	1714	1466	4200
BK40		7208B	2145	1834	3710