

Ball Screw Support Unit

The Support Unit comes in eight types: models EK, FK, EF, and FF, which are standardized for the standard Ball Screw assembly provided with the finished shaft ends, and models BK, AK, BF and AF, which are standardized for ball screws in general.

The Support Unit is compactly designed to accommodate the space in the installation site. As the bearing is provided with an appropriately adjusted preload, the Support Unit can be assembled with a Ball Screw unit with no further machining. Accordingly, the required man-hours in the assembly can be reduced and the assembly accuracy can be increased.

The Support Unit on the fixed-side contains a JIS Class 5 or P0-compliant angular bearing provided with an adjusted preload. The Support Unit on the supported side uses a deep-groove ball bearing.

The internal bearings of the Support Unit models EK, FK, BK and AK contain an appropriate amount of lithium soap-group grease that is sealed with a special seal. Thus, these models are capable of operating over a long period.

BALL SCREW SUPPORT UNIT GUIDE

Model	Fixed-side	Simple-side	Remark
Low type support unit	LK	LF/LFA	
Convex type profile support unit	EK	EF	
Square type support unit	BK	BF	More four fixing holes
Round type support unit	FK/FKA	FF	
Square type support unit	AK	AF	
Heavy-load type support unit		SBK/WBK/MBK	MBK applicable motor bracket

FIXED-SIDE STRUCTURE

Part No.	Part name	Qty
1	Housing	1
2	Bearing	1set
3	Retaining nut	1
4	Spacer	2
5	Seal	2
6	Lock nut	1
7	Locking screw(with metal pad)	2

SIMPLE-SIDE STRUCTURE

Part No.	Part name	Qty
1	Housing	1
2	Bearing	1set
3	Snap ring	1

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Unit : mm

Fixed-Side Unit		Simple-Side Unit		Applicable Of Ball Screw
Bearing Bore	Applicable Model Number	Bearing Bore	Applicable Model Number	Outside Diameter
10	LK10 EK10 BK10 FK10/FKA10 AK10	8	EF10 BF10 FF10 AF10	φ10 φ12 φ14
12	LK12 EK12 BK12 FK12/FKA12 AK12	10	LF12/LFA12 EF12 BF12 FF12 AF12	φ14 φ15 φ16
15	LK15 EK15 BK15 FK15/FKA15 AK15	15	LF15/LFA15 EF15 BF15 BF15 AF15	φ20
17	BK17 FK17	17	BF17 FF17	φ20 φ25
20	EK20 BK20 FK20/FKA20 AK20	20	EF20 BF20 FF20 AF20	φ25 φ28
25	BK25 FK25 AK25	25	BF25 FF25 AF25	φ32 φ36
30	BK30 FK30	30	BF30 FF30	φ40 φ45
35	BK35	35	BF35	φ45
40	BK40	40	BF40	φ50