

Ball Screw Support Bearings

Features and Benefits

High Axial Rigidity allows for large axial loads and minimizes deflections

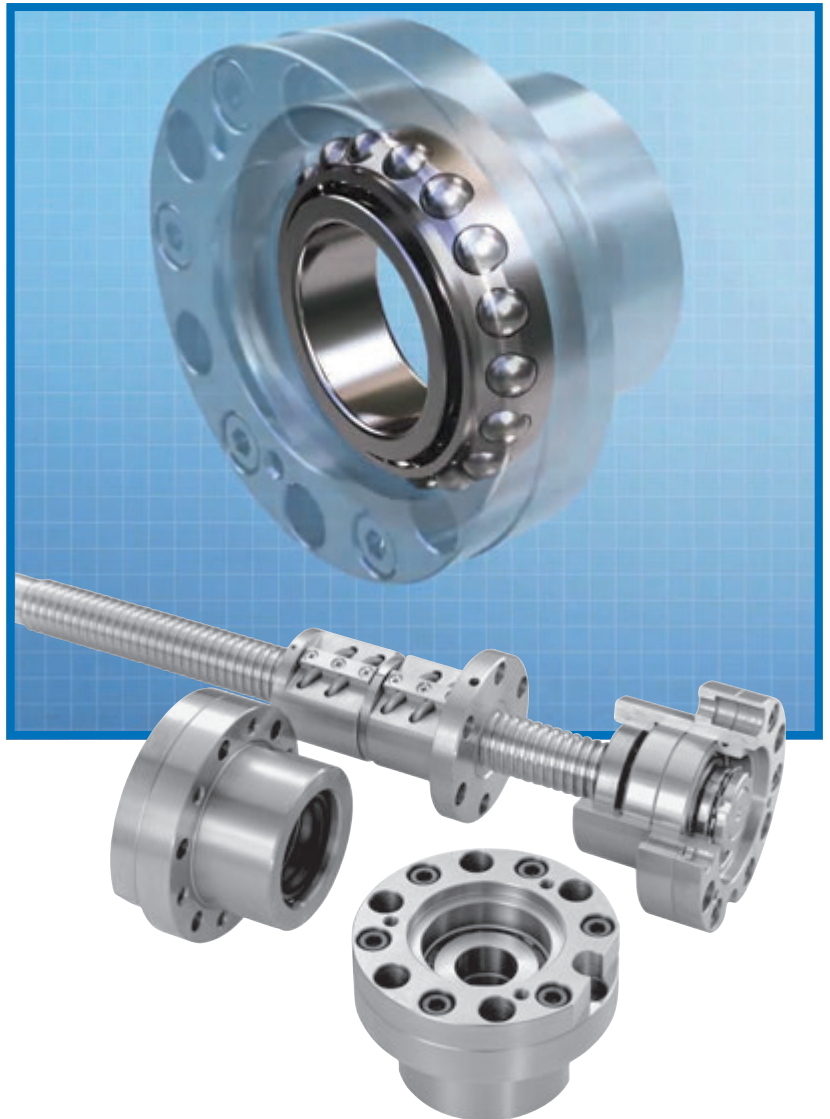
Compact, Lightweight Design keeps size and weight of surrounding design to a minimum

High Precision Design provides a high degree of accuracy

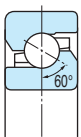
Preload Adjustment allows control of the rigidity of the ball screw system

Efficient Design reduces torque requirements and heat generation

Universal Flush Ground enables multiple bearings to be mounted in various sets

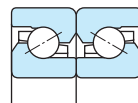


Koyo Ball Screw Support Bearings were developed to support precision ball screw shafts. They have the same structure as angular contact thrust ball bearings with a contact angle of 60°.



Large axial load carrying capacity. They are also able to carry a certain degree of radial load.

Support Bearings



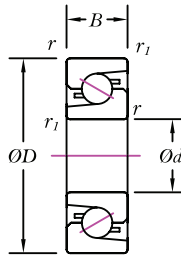
Highly rigid in the axial direction.

Support bearing units consist of the bearings described above and a precisely processed housing.

Koyo®

Koyo Ball Screw Support Bearings

Koyo Part Number	Boundary Dimensions (mm)					Basic Dynamic Load Rating Ca (kN)	Competitive Interchanges		
	d	D	B	r (min.)	r1 (min.)		NSK Part Number	NTN Part Number	FAG Part Number (Base Number)
SAC1747BG MG4Z/00	17	47	15	1	0.6	26	17TAC47BSUC10PN7B	BST17X47-1BGP4	BSB1747
SAC2047BG MG4Z/00	20	47	15	1	0.6	26	20TAC47BSUC10PN7B	BST20X47-1BGP4	BSB2047
SAC2562BG MG4Z/00	25	62	15	1	0.6	30.2	25TAC62BSUC10PN7B	BST25X62-1BGP4	BSB2562
SAC3062BG MG4Z/00	30	62	15	1	0.6	30.2	30TAC62BSUC10PN7B	BST30X62-1BGP4	BSB3062
SAC3572BG MG4Z/00	35	72	15	1	0.6	32.8	35TAC72BSUC10PN7B	BST35X72-1BGP4	BSB3572
SAC4072BG MG4Z/00	40	72	15	1	0.6	32.8	40TAC72BSUC10PN7B	BST40X72-1BGP4	BSB4072
SAC4090BG MG4Z/00	40	90	20	1	0.6	65.4	40TAC90BSUC10PN7B	BST40X90-1BGP4	BSB4090
SAC45100BG MG4Z/00	45	100	20	1	0.6	68.8	45TAC100BSUC10PN7B	BST45X100-1BGP4	BSB45100
SAC50100BG MG4Z/00	50	100	20	1	0.6	70.3	50TAC100BSUC10PN7B	BST50X100-1BGP4	BSB50100
SAC60120BG MG4Z/00	60	120	20	1	0.6	73.9	60TAC120BSUC10PN7B	BST60X120-1BGP4	BSB60120



New "V" Mark Being Added on Single Row "G Type" Precision Ball Screw Support Bearings (SAC-Series)

To help with orientation during installation JTEKT/Koyo will begin to add a new "V" mark on the outside surfaces of single row "G Type" Precision Ball Screw Support Bearings (SAC Series). See below for an illustration of the new marking.

It is very common for these type of bearings to be used in matched pairs or stacks – to ensure proper installation please use the chart below as reference

Matching Types and Matching of Codes of SAC Ball Screw Support Bearings			
Two Bearings			
	Back-to-Back Matching Code: DB	Face-to-Face Matching Code: DF	Tandem Matching Code: DT
Three Bearings			
	Matching Code: DBD	Matching Code: DFD	Matching Code: DTD
Four Bearings			
	Matching Code: DBB	Matching Code: DFF	
	Matching Code: DBT	Matching Code: DFD	
Note: The apex side of the "V" mark indicates the front face side of the bearing			