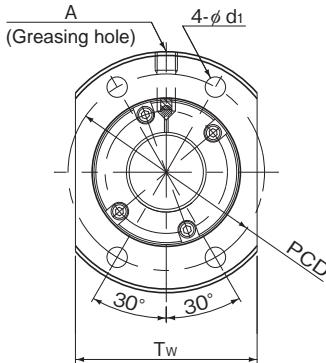


Model SBK



Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows X turns	Basic load rating		Rigidity K N/μm
						Ca kN	C _a kN	
SBK 1520-3.6	15	20	15.75	12.2	1×1.8	5.8	7.8	178
SBK 1616-3.6	16	16	16.65	13.5	1×1.8	4.6	6.4	182
SBK 2010-5.6	20	10	20.75	17.2	1×2.8	10.7	17.3	353
SBK 2020-3.6	20	20	20.75	17.2	1×1.8	7	10.5	229
SBK 2030-3.6	20	30	20.75	17.2	1×1.8	6.9	11.2	236
SBK 2520-3.6	25	20	26	21.5	1×1.8	11	16.9	292
SBK 2525-3.6	25	25	26	21.5	1×1.8	10.8	16.9	290
SBK 3220-5.6	32	20	33.25	27.9	1×2.8	23.6	41.1	565
SBK 3232-5.6	32	32	33.25	27.9	1×2.8	23.1	41.8	567

Axial Clearance

Unit: mm

Clearance symbol	G0
Axial Clearance	0 or less

Model number coding

SBK2525-3.6 QZ G0 +1200L C5

Model Number

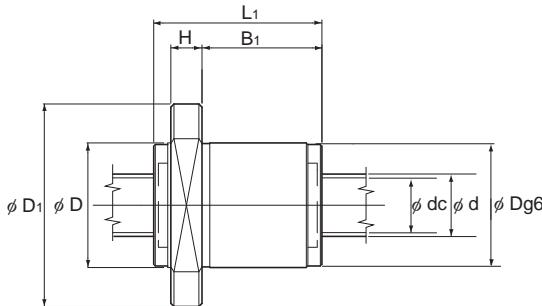
 Overall screw shaft
length (in mm)

 Accuracy symbol (*1)

 Symbol for clearance in the axial direction
(G0 for all SBK variations)

 With QZ Lubricator
(no symbol if the model is without a QZ Lubricator)
(*1) See **A15-12**.

Precision, Caged Ball Screw



Unit: mm

Ball Screw

	Nut dimensions								Screw shaft inertial moment/mm kg•cm ² /mm	Nut mass kg	Shaft mass kg/m	Maximum permissible rotation speed min ⁻¹
	Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	PCD	d ₁	T _w				
38	62	54	10	38.5	49	5.5	39	M6	3.9×10 ⁻⁴	0.41	1.27	5000
33	54	45	10	29.5	43	4.5	38	M6	5.05×10 ⁻⁴	0.25	1.46	
40	65	45	10	29.5	53	5.5	49	M6	1.23×10 ⁻³	0.37	2.18	
40	65	54	10	38.5	53	5.5	49	M6	1.23×10 ⁻³	0.43	2.32	
40	65	71	10	55.5	53	5.5	49	M6	1.23×10 ⁻³	0.55	2.36	
47	74	57	12	38	60	6.6	56	M6	3.01×10 ⁻³	0.59	3.58	
47	74	68	12	49	60	6.6	56	M6	3.01×10 ⁻³	0.69	3.63	
58	92	82	15	58	74	9	68	M6	8.08×10 ⁻³	1.23	5.82	
58	92	118	15	94	74	9	68	M6	8.08×10 ⁻³	1.70	5.99	3900

Note) The rigidity values in the table represent the spring constants obtained from the load and the elastic deformation when providing a preload 10% of the basic dynamic load rating (Ca) and applying an axial load three times greater than the preload.

These values do not include the rigidity of the components related to mounting the ball screw nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.

If the applied preload (F_{a0}) is not 0.1 Ca, the rigidity value (K_N) is obtained from the following equation.

$$K_N = K \left(\frac{F_{a0}}{0.1Ca} \right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.