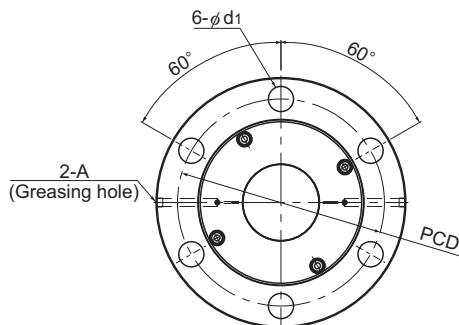


SBKH No Preload

DN value	130000
----------	--------



Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Screw shaft Thread minor diameter dc	No. of loaded circuits Rows X turns	Basic load rating		Permissible load* F _P kN	Rigidity K N/μm
						Ca kN	C _{0a} kN		
SBKH 6332-3.8	63	32	66.5	49.8	1×3.8	304	631	88	1435
SBKH 6340-7.6	63	40	66.0	52.6	2×3.8	413	967	135	2723
SBKH 8050-7.6	80	50	84.0	63.6	2×3.8	777	1788	250	3402
SBKH 8060-7.6	80	60	84.0	63.6	2×3.8	780	1824	255	3452
SBKH 10050-7.6	100	50	104.0	83.6	2×3.8	876	2401	336	4098
SBKH 10060-7.6	100	60	104.0	83.6	2×3.8	880	2294	321	4149
SBKH 12060-7.6	120	60	124.0	103.6	2×3.8	962	2941	411	4809

Note 1) The permissible load F_P* indicates the maximum axial load that the Ball Screw can receive.

If desiring both ends of the screw shaft to be larger than the screw shaft diameter, contact THK.

Note 2) Certain precautions are necessary regarding the assembly method. (See [A15-208](#).)

Note 3) For high-load ball screws, the standard maximum length of the screw shaft is 3000 mm. For lengths greater than this, please contact THK.

Axial Clearance

Unit: mm

Clearance symbol	G1	G2	G3
Axial Clearance	0 to 0.01	0 to 0.02	0 to 0.05

Model number coding

SBKH8050-7.6 RR G2 +1200L C7

Model Number

Accuracy symbol (*2)

Overall screw shaft length (in mm)

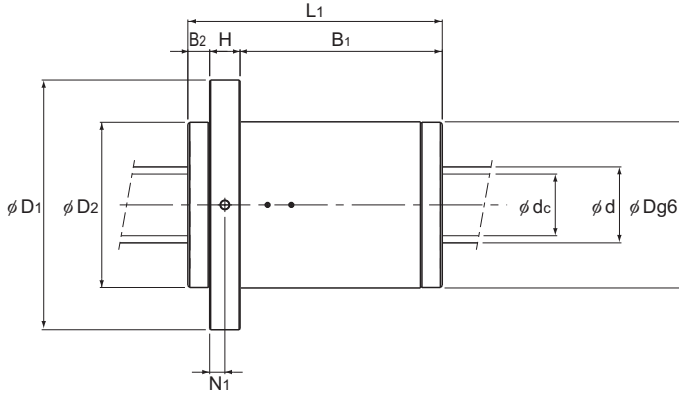
Axial clearance symbol
(clearance in the axial direction must be: G1, G2 or G3.
Clearance G0 and GT are not supported.)

Seal symbol(*1)

(RR: labyrinth seal on both sides)

(*1) See [A15-308](#). (*2) See [A15-12](#).

High-Thrust Ball Screw



Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm ² kg·m ² /mm	Nut mass kg	Shaft mass*1 kg/m	
	Outer diameter D	Flange diameter D ₁	Cap diameter D ₂	Overall length L ₁	H	B ₁	B ₂	PCD	d ₁	N ₁				Greasing hole A
	140	205	(140)	190	28	143	(19)	173	22	14	Rc1/8 (PT1/8)	1.21 × 10 ⁻⁵	17.2	21.0
	127	191	(127)	209	30	163	(16)	159	22	15		1.21 × 10 ⁻⁵	15.5	21.0
	175	253	(175)	268	32	213	(23)	214	26	16		3.16 × 10 ⁻⁵	36.9	31.3
	175	253	(175)	306	40	243	(23)	214	26	20		3.16 × 10 ⁻⁵	43.5	32.5
	195	273	(195)	269	40	206	(23)	234	26	20		7.71 × 10 ⁻⁵	44.5	51.3
	195	273	(195)	307	40	244	(23)	234	26	20		7.71 × 10 ⁻⁵	50.5	52.9
	210	288	(210)	308	45	240	(23)	249	26	22.5		1.60 × 10 ⁻⁴	53.7	78.1

Note1) There will be no dimensional change after the seal is attached.

Note2) The rigidity values (K) in the table represent spring constants, each obtained from the load and the elastic deformation under an axial load equal to 30% of the basic axial dynamic load rating (Ca).

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 rigidity value (K) in the table as the actual value.

If the axial load (Fa) is not 0.3 Ca, the rigidity value (K_N) is obtained from the following equation.

$$K_N = K \left(\frac{F_a}{0.3C_a} \right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.