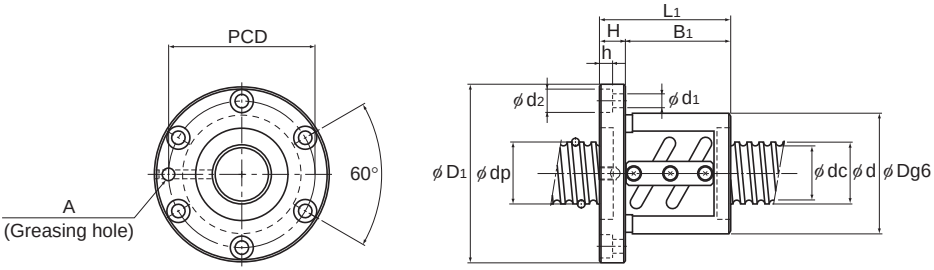
Preload Type of Precision Ball Screw

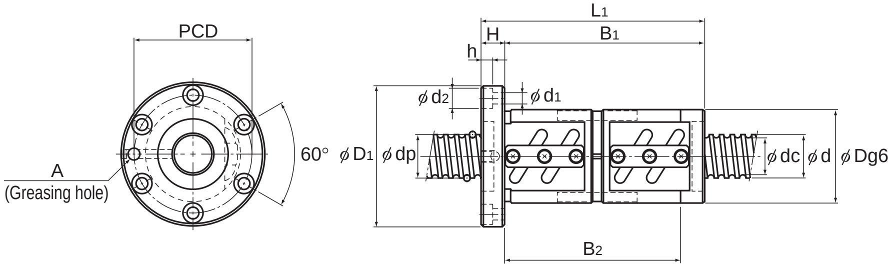
Screw shaft outer diameter	45
Lead	6 to 20



BIF

Screw shaft outer diameter	Lead	Model No.	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Rigidity
						Ca	C_0a	K
d	Ph		dp	dc	Rows × turns	kN	kN	N/μm
45	6	BIF 4506A-5	46	41.4	1×2.5	16	49.6	770
		BIF 4506A-10	46	41.4	2×2.5	29	99	1500
		BNFN 4506A-7.5	46	41.4	3×2.5	41.2	150	2210
	8	BIF 4508-5	46.25	40.6	1×2.5	20.7	59.5	790
		BIF 4508-10	46.25	40.6	2×2.5	37.4	118.6	1540
		BNFN 4508-7.5	46.25	40.6	3×2.5	53.1	178.4	2270
	10	BIF 4510-5	46.75	39.5	1×2.5	30.7	79.3	830
		BIF 4510-6	46.75	39.5	2×1.5	35.9	95.2	990
		BIF 4510-10	46.75	39.5	2×2.5	55.6	158.8	1610
		BNFN 4510-7.5	46.75	39.5	3×2.5	78.8	238.1	2370
	12	BIF 4512-10	47	39.2	2×2.5	65.2	178.4	1640
	20	BIF 4520-3	47.7	37.9	1×1.5	44.2	99	690

Note) The model numbers in dimmed type indicate semi-standard types.
If desiring them, contact THK.



BNFN

Unit: mm

	Nut dimensions									Screw shaft inertial moment/mm	Nut mass	Shaft mass
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	B_2	PCD	$d_1 \times d_2 \times h$	Greasing hole A	kg•cm²/mm	kg	kg/m
	80	114	71	15	56	—	96	9×14×8.5	PT 1/8	3.16×10^{-2}	2.18	11.31
	80	114	107	15	92	—	96	9×14×8.5	PT 1/8	3.16×10^{-2}	3.05	11.31
	80	114	161	15	146	—	96	9×14×8.5	PT 1/8	3.16×10^{-2}	4.25	11.31
	85	127	92	18	74	—	105	11×17.5×11	PT 1/8	3.16×10^{-2}	3.42	11.21
	85	127	140	18	122	—	105	11×17.5×11	PT 1/8	3.16×10^{-2}	4.86	11.21
	85	127	212	18	194	—	105	11×17.5×11	PT 1/8	3.16×10^{-2}	6.74	11.21
	88	132	111	18	93	104	110	11×17.5×11	PT 1/8	3.16×10^{-2}	4.35	10.65
	88	132	144	18	126	127	110	11×17.5×11	PT 1/8	3.16×10^{-2}	5.35	10.65
	88	132	171	18	153	164	110	11×17.5×11	PT 1/8	3.16×10^{-2}	6.19	10.65
	88	132	261	18	243	224	110	11×17.5×11	PT 1/8	3.16×10^{-2}	8.92	10.65
	90	130	191	18	173	—	110	11×17.5×11	PT 1/8	3.16×10^{-2}	6.98	10.54
	98	142	135	20	115	—	120	11×17.5×11	PT 1/8	3.16×10^{-2}	6.56	10.37

For model number coding, see A**15-248**.

Options⇒A15-349