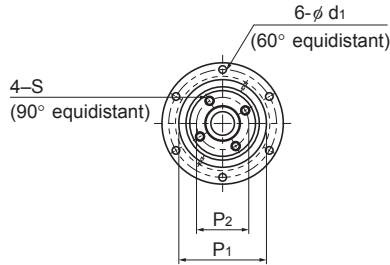


BNS-B Compact Type: Linear-Rotary Motion No Preload

DN value	70000
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Ball screw unit

Model No.	Screw shaft outer diameter d	Screw shaft inner diameter db	Lead Ph	Ball screw dimensions									
				Basic load rating		Ball center-to-center diameter dp	Thread minor diameter dc	Outer diameter D g6	Flange diameter D ₁	Overall length L ₁	D ₃ h7	D ₄ H7	
				Ca kN	C _{0a} kN								
BNS1616B	16	11	16	3.9	7.2	16.65	13.7	48	64	40	36	32	
BNS2020B	20	14	20	6.1	12.3	20.75	17.5	56	72	48	43.5	39	
BNS2525B	25	18	25	9.1	19.3	26	21.9	66	86	58	52	47	

Ball spline

Model No.	Ball spline dimensions									
	Basic load rating		Static permissible moment M _s N·m	Basic torque rating		Outer diameter D ₇	Flange diameter D ₅	Overall length L ₂	D ₆ h7	BE ₁
	C kN	C ₀ kN		C _T N·m	C _{0T} N·m					
BNS1616B	8.4	13.4	77.4	42.9	68.6	48	64	48.3	36	28
BNS2020B	10.5	18.6	144	66.4	117.2	56	72	61	43.5	32
BNS2525B	15.9	26.2	230	125.3	207	66	86	69	52	40

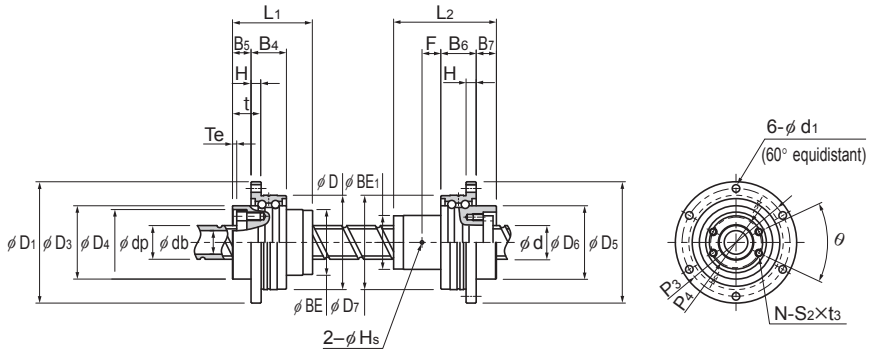
Note) For K hollow shaft, please refer to the db dimension for the inner bore diameter of the shaft. If requested solid shaft is also available. See "Ball Spline" **A3-114** for details.

Model number coding

BNS2020B +500L

Model number Overall shaft length (in mm)

Rotary Nut Ball Screw



Unit: mm

	BE	H	B ₄	B ₅	T _e	P ₁	P ₂	S	t	d ₁	Support bearing basic load rating		Nut inertial moment kg·m ²	Screw shaft inertial moment kg·m ² /mm	Nut mass kg	Shaft mass kg/m
											C _a kN	C _{0a} kN				
	32	6	21	10	2	56	25	M4	13.5	4.5	8.7	10.5	3.50×10^{-5}	3.21×10^{-8}	0.31	0.71
	39	6	21	11	2.5	64	31	M5	16.5	4.5	9.7	13.4	8.50×10^{-5}	8.04×10^{-8}	0.54	1.11
	47	7	25	13	3	75	38	M6	20	5.5	12.7	18.2	2.12×10^{-4}	1.91×10^{-7}	0.88	1.65

Unit: mm

	H ₁	B ₆	B ₇	P ₃	P ₄	Pulley mounting tap				d ₂	Oil hole		Support bearing basic load rating		Nut inertial moment kg·m ²	Nut mass kg
						θ	N	S ₁	t ₁		HS	F	C kN	C ₀ kN		
	6	21	10	56	25	40	4	M4	6	4.5	2	5.85	6.7	6.4	0.33×10^{-4}	0.32
	6	21	12	64	30	50	4	M4	6	4.5	2	11.2	7.4	7.8	0.80×10^{-4}	0.48
	7	25	13	75	36	50	4	M5	8	5.5	2	11.85	9.7	10.6	1.93×10^{-4}	0.77

