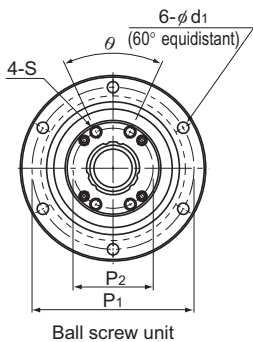


NS Heavy Load Type: Linear Motion No Preload

DN value	70,000
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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	Flange diameter D1	Overall length L1	D3 h7
				Ca kN	C0a kN						
NS 1616	16	11	16	3.9	7.2	16.65	13.7	52 ⁰ _{-0.007}	68	43.5	40
NS 2020	20	14	20	6.1	12.3	20.75	17.5	62 ⁰ _{-0.007}	78	54	50
NS 2525	25	18	25	9.1	19.3	26	21.9	72 ⁰ _{-0.007}	92	65	58
NS 3232	32	23	32	13	29.8	33.25	28.3	80 ⁰ _{-0.007}	105	80	66
NS 4040	40	29	40	21.4	49.7	41.75	35.2	110 ⁰ _{-0.008}	140	98	90
NS 5050	50	36	50	31.8	77.6	52.2	44.1	120 ⁰ _{-0.008}	156	126	100

Ball spline

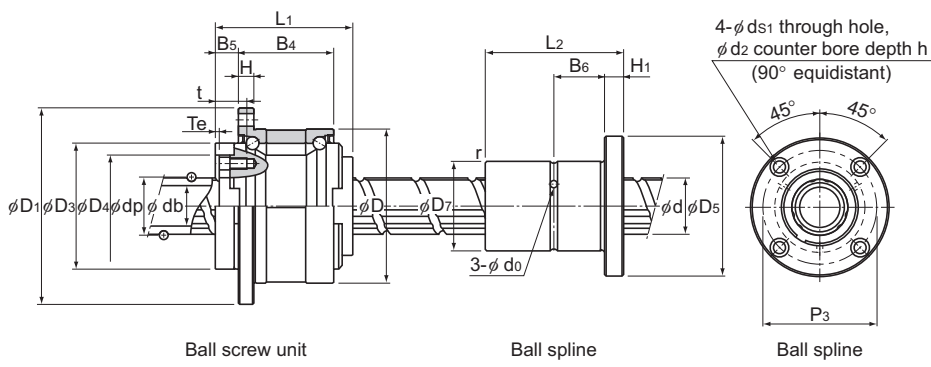
Model No.	Ball spline dimensions					
	Basic load rating		Static permissible moment Mk N·m	Basic torque rating		Outer diameter D7
	C kN	C0 kN		CT N·m	C0T N·m	
NS 1616	7.1	12.6	67.6	31.4	34.3	31 ⁰ _{-0.013}
NS 2020	10.2	17.8	118	56.9	55.9	35 ⁰ _{-0.016}
NS 2525	15.2	25.8	210	105	103	42 ⁰ _{-0.016}
NS 3232	20.5	34	290	180	157	49 ⁰ _{-0.016}
NS 4040	37.8	60.5	687	419	377	64 ⁰ _{-0.019}
NS 5050	60.9	94.5	1,340	842	769	80 ⁰ _{-0.019}

Notes: For K hollow shaft, please refer to the db dimension for the inner bore diameter of the shaft.

Model number coding

NS2525 +600L C5

Model number Overall shaft length (in mm) Accuracy symbol¹



Ball screw unit

Ball spline

Ball spline

Unit: mm

	D ₄	H	B ₄	B ₅	T _e	P ₁	P ₂	S	t	d ₁	θ°	Support bearing basic load rating		Nut inertial moment	Screw shaft inertial moment	Nut mass	Shaft mass	Permissible rotational speed
												Ca	C _a					
	H7	H										kN	kN	kg·m ²	kg·m ² /mm	kg	kg/m	min ⁻¹
	32	5	27.5	9	2	60	25	M4	12	4.5	40	19.4	19.2	4.80×10^{-5}	3.92×10^{-8}	0.38	0.8	4,200
	39	6	34	11	2	70	31	M5	16	4.5	40	26.8	29.3	1.44×10^{-4}	9.37×10^{-8}	0.68	1.21	3,370
	47	8	43	12.5	3	81	38	M6	19	5.5	40	28.2	33.3	3.23×10^{-4}	2.20×10^{-7}	1.1	1.79	2,690
	58	9	55	14	3	91	48	M6	19	6.6	40	30	39	6.74×10^{-4}	5.92×10^{-7}	1.74	2.96	2,100
	73	11	68	16.5	3	123	61	M8	22	9	50	59.3	74.1	2.79×10^{-3}	1.43×10^{-6}	3.95	4.51	1,670
	90	12	80	25	4	136	75	M10	28	11	50	62.2	83	5.82×10^{-3}	3.52×10^{-6}	6.22	7.16	1,340

Unit: mm

	Flange diameter	Overall length	H ₁	B ₆	r	Lubrication hole	P ₃	Mounting hole			Nut mass
								ds ₁	d ₂	h	
	D ₅	L ₂				d ₀					kg
	51	50 ^{$\frac{0}{-0.2}$}	7	18	0.5	2	40	4.5	8	4.4	0.23
	58	63 ^{$\frac{0}{-0.2}$}	9	22.5	0.5	2	45	5.5	9.5	5.4	0.33
	65	71 ^{$\frac{0}{-0.3}$}	9	26.5	0.5	3	52	5.5	9.5	5.4	0.45
	77	80 ^{$\frac{0}{-0.3}$}	10	30	0.5	3	62	6.6	11	6.5	0.58
	100	100 ^{$\frac{0}{-0.3}$}	14	36	0.5	4	82	9	14	8.6	1.46
	124	125 ^{$\frac{0}{-0.3}$}	16	46.5	1	4	102	11	17.5	11	2.76

