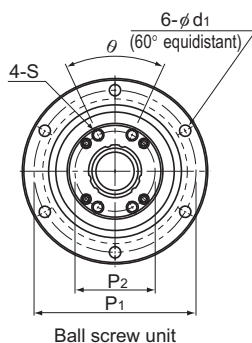


NS Heavy Load Type: Linear Motion No Preload

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 D _f	Overall length L ₁	D ₃ h7
				Ca kN	C _{0a} 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 M _k N·m	Basic torque rating	
	C kN	C ₀ kN		C _T N·m	C _{0T} N·m
NS 1616	7.1	12.6	67.6	31.4	34.3
NS 2020	10.2	17.8	118	56.9	55.9
NS 2525	15.2	25.8	210	105	103
NS 3232	20.5	34	290	180	157
NS 4040	37.8	60.5	687	419	377
NS 5050	60.9	94.5	1,340	842	769

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

A solid shaft is also available upon request. See "Ball Spline" **A3-120** for details.

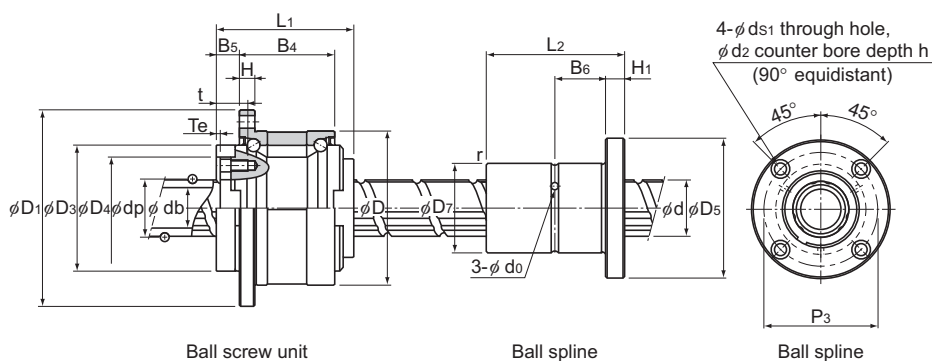
Model number coding

NS2525 +600L C5

Model number Overall shaft length (in mm) Accuracy symbol¹

¹ See **A15-12**.

Rotary Nut Ball Screw



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

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

