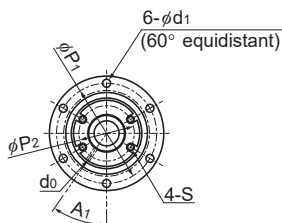


NS-V Low-Inertia Type: Linear Motion No Preload

DN value	100,000
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Ball screw unit

Ball screw unit

Model No.	Screw shaft outer diameter	Screw shaft inner diameter	Lead	Ball screw dimensions										
				Basic load rating		Ball center-to-center diameter	Thread minor diameter	Outer diameter	Flange diameter	Overall length	D _s	AE	BE	H
				Ca	C _{0a}									
	d	db	Ph	kN	kN	dp	dc	g6	D ₁	L ₁	h7			
NS 1616V	16	11	16	4.6	6.8	16.65	13.7	42	54	38	32.5	31	31	4
NS 2020V	20	14	20	7.3	11.7	20.75	17.5	48	64	45	39.5	37	36	6
NS 2525V	25	18	25	8	14.4	25.35	22.1	56	72	55	43.5	42	41.6	6

Ball spline

Model No.	Ball spline dimensions						
	Basic load rating		Static permissible moment M _A N·m	Basic torque rating		Outer diameter D ₇	Flange diameter D ₅
	C	C ₀		C _T	C _{0T}		
	kN	kN		N·m	N·m		
NS 1616V	8.4	13.4	77.4	42.9	68.6	28 ⁰ _{-0.013}	48
NS 2020V	10.5	18.6	144	66.4	117.2	32 ⁰ _{-0.016}	54
NS 2525V	15.9	26.2	230	125.3	207	40 ⁰ _{-0.016}	62

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.

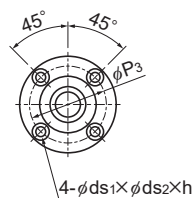
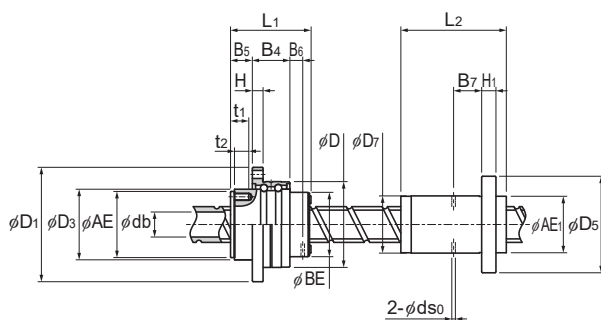
Model number coding

NS2020V +500L C5

Model number Overall shaft length (in mm) Accuracy symbol¹

¹ See **A15-12**.

Rotary Nut Ball Screw



Ball spline

Unit: mm

	B_4	B_5	P_1	P_2	S	t_1	t_2	d_1	B_6	d_0	A_1	Support bearing basic load rating		Nut inertial moment	Screw shaft inertial moment	Nut mass	Shaft mass	Permissible rotational speed
												C_a	C_{0a}					
	18	9.7	48	25.5	M3	8.2	6	3.4	5.8	2	35°	6.7	8.6	2.00×10^{-5}	3.21×10^{-8}	0.21	0.8	5,000
	21	12.2	56	31	M4	10.2	8	4.5	7.2	2	35°	7.3	10.6	6.50×10^{-5}	8.04×10^{-8}	0.39	1.21	4,810
	21	13.2	64	36	M5	10.2	8	4.5	15.3	3	35°	9.7	13.4	1.02×10^{-4}	1.91×10^{-7}	0.51	1.79	3,940

Unit: mm

	Overall length	H_1	B_7	ds_0	P_3	Mounting hole			Nut mass
						ds_1	ds_2	h	
	46.4	6	11.7	2	38	4.5	8	4.4	0.13
	59	8	15.7	2	43	5.5	9.5	5.4	0.21
	67	8	18.3	3	51	5.5	9.5	5.4	0.34

