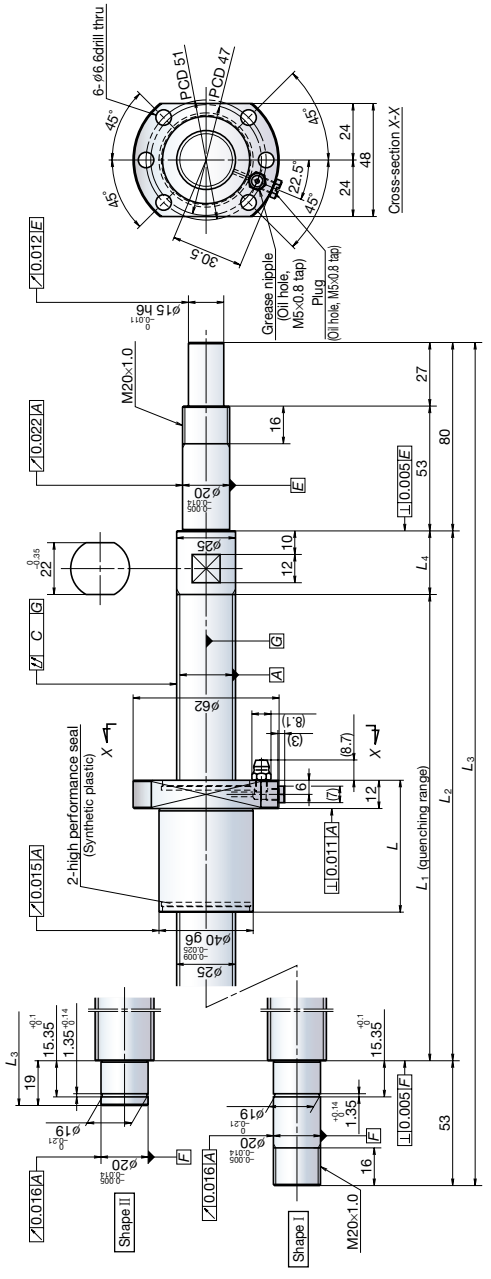
Screw shaft ϕ25
Lead 5, 10, 20, 25, 30, 50



Ball screw specification

Preload type	Oversize ball preload (P-preload)
Ball diameter/screw shaft root diameter	3.175/22.2
Accuracy grade/axial play	C5/0
Factory pre-packed grease	NSK grease LR3

Recommended support unit

WBK20-01	(square, fixed side)
WBK20S-01	(square, simple side)
WBK20-11	(round, fixed side)

Unit: mm

Reference number	Screw shaft diameter d	Lead ℓ	Basic load ratings (N) Dynamic C_a	Basic load ratings (N) Static C_{0a}	Stroke Nominal	Stroke Max. L_1-L	Nut length L	Screw shaft dimensions L_1	L_2	L_3	L_4	Lead accuracy Target value T	Lead accuracy Error e_p	Lead accuracy Variation v_u	Shaft runout C	Dynamic preload torque (N·cm) *1	Permissible rotational speed (min^{-1}) *2 Fixed-Simple	Permissible rotational speed (min^{-1}) *2 Fixed-Fixed	Left shaft end (opposite driven side)
PSS2505N1D0349	25	5	9 760	23 600	150	191	32	223	250	349	27	0	0.023	0.018	0.035	1.2 – 9.3	5 000	–	Shape II
PSS2505N1D0399					200	241		273	300	399			0.023	0.018	0.035	1.2 – 9.3			
PSS2505N1D0499					300	341		373	400	499			0.025	0.020	0.040	1.2 – 9.3			
PSS2505N1D0599					400	441		473	500	599			0.027	0.020	0.045	1.2 – 9.3			
PSS2505N1D0699					500	541		573	600	699			0.030	0.023	0.055	0.8 – 10.8			
PSS2505N1D0899					700	741		773	800	899			0.035	0.025	0.065	0.8 – 10.8			
PSS2505N1D0999					800	841		873	900	999			0.040	0.027	0.065	0.8 – 10.8	4 100		
PSS2505N1D1233					1 000	1 041		1 073	1 100	1 233			0.046	0.030	0.080	0.8 – 13.8	2 700	4 000	Shape I
PSS2510N1D0549		10	12 800	32 300	300	367	56	423	450	549	27		0.027	0.020	0.045	3.1 – 11.8	5 000	–	Shape II
PSS2510N1D0649					400	467		523	550	649			0.030	0.023	0.055	2.2 – 12.8			
PSS2510N1D0749					500	567		623	650	749			0.030	0.023	0.055	2.2 – 12.8			
PSS2510N1D0849					600	667		723	750	849			0.035	0.025	0.065	2.2 – 12.8			
PSS2510N1D0949					700	767		823	850	949			0.040	0.027	0.065	2.2 – 12.8			
PSS2510N1D1049					800	867		923	950	1 049			0.040	0.027	0.080	2.2 – 12.8	3 600		
PSS2510N1D1283					1 000	1 067		1 123	1 150	1 283			0.046	0.030	0.100	1.8 – 14.8	2 500	3 700	Shape I
PSS2510N1D1883					1 600	1 667		1 723	1 750	1 883			0.065	0.040	0.130	1.8 – 14.8	1 000	1 600	
PSS2520N1D0729		20	6 560	14 600	500	550	54	604	630	729	26		0.030	0.023	0.055	2.2 – 12.8	5 000	–	Shape II
PSS2520N1D0829					600	650		704	730	829			0.035	0.025	0.065	2.2 – 12.8			
PSS2520N1D0929					700	750		804	830	929			0.040	0.027	0.065	2.2 – 12.8	4 800		
PSS2520N1D1029					800	850		904	930	1 029			0.040	0.027	0.080	2.2 – 12.8	3 800		
PSS2520N1D1263					1 000	1 050		1 104	1 130	1 263			0.046	0.030	0.100	1.8 – 14.8	2 600	3 800	Shape I
PSS2520N1D1463					1 200	1 250		1 304	1 330	1 463			0.054	0.035	0.100	1.8 – 14.8	1 800	2 700	
PSS2520N1D1863					1 600	1 650		1 704	1 730	1 863			0.065	0.040	0.130	1.8 – 14.8	1 100	1 600	
PSS2520N1D2263					2 000	2 050		2 104	2 130	2 263			0.077	0.046	0.170	1.8 – 14.8	700	1 000	
PSS2525N1D0779		25	6 560	14 600	500	587	63	650	680	779	30		0.035	0.025	0.055	2.7 – 13.8	5 000	–	Shape II
PSS2525N1D0879					600	687		750	780	879			0.035	0.025	0.065	2.7 – 13.8			
PSS2525N1D0979					700	787		850	880	979			0.040	0.027	0.065	2.7 – 13.8	4 300		
PSS2525N1D1079					800	887		950	980	1 079			0.040	0.027	0.080	2.7 – 13.8	3 400		
PSS2525N1D1313					1 000	1 087		1 150	1 180	1 313			0.046	0.030	0.100	1.8 – 14.8	2 300	3 500	Shape I
PSS2525N1D1513					1 200	1 287		1 350	1 380	1 513			0.054	0.035	0.100	1.8 – 14.8	1 700	2 600	
PSS2525N1D1913					1 600	1 687		1 750	1 780	1 913			0.065	0.040	0.130	1.8 – 14.8	1 000	1 500	
PSS2525N1D2313					2 000	2 087		2 150	2 180	2 313			0.077	0.046	0.170	1.8 – 14.8	700	1 000	
PSS2530N1D0779		30	6 560	14 600	500	576	74	650	680	779	30		0.035	0.025	0.055	2.7 – 13.8	5 000	–	Shape II
PSS2530N1D0879					600	676		750	780	879			0.035	0.025	0.065	2.7 – 13.8			
PSS2530N1D0979					700	776		850	880	979			0.040	0.027	0.065	2.7 – 13.8	4 300		
PSS2530N1D1079					800	876		950	980	1 079			0.040	0.027	0.080	2.7 – 13.8	3 400		
PSS2530N1D1313					1 000	1 076		1 150	1 180	1 313			0.046	0.030	0.100	1.8 – 14.8	2 300	3 600	Shape I
PSS2530N1D1513					1 200	1 276		1 350	1 380	1 513			0.054	0.035	0.100	1.8 – 14.8	1 700	2 600	
PSS2530N1D1913					1 600	1 676		1 750	1 780	1 913			0.065	0.040	0.130	1.8 – 14.8	1 000	1 500	
PSS2530N1D2313					2 000	2 076		2 150	2 180	2 313			0.077	0.046	0.170	1.8 – 14.8	700	1 000	
PSS2550N1D0829		50	14 600	29 200	500	576	114	690	730	829	40		0.035	0.025	0.065	5.4 – 17.6	5 000	–	Shape II
PSS2550N1D0929					600	676		790	830	929			0.035	0.025	0.065	5.4 – 17.6	4 800		
PSS2550N1D1029					700	776		890	930	1 029			0.040	0.027	0.080	5.4 – 17.6	3 800		
PSS2550N1D1129					800	876		990	1 030	1 129			0.040	0.027	0.080	5.4 – 17.6	3 100		
PSS2550N1D1363					1 000	1 076		1 190	1 230	1 363			0.046	0.030	0.100	4.1 – 19.6	2 200	3 400	Shape I
PSS2550N1D1563					1 200	1 276		1 390	1 430	1 563			0.054	0.035	0.100	4.1 – 19.6	1 600	2 500	
PSS2550N1D1963					1 600	1 676		1 790	1 830	1 963			0.065	0.040	0.130	4.1 – 19.6	900	1 500	
PSS2550N1D2363					2 000	2 076		2 190	2 230	2 363			0.077	0.046	0.170	4.1 – 19.6	600	1 000	

*1. Indicates ball screw preload control value. About 3.0 N·cm of torque is added due to high performance seal. *2. Contact NSK if permissible rotational speed is to be exceeded. *3. Service temperature range is -20°C to 80°C.