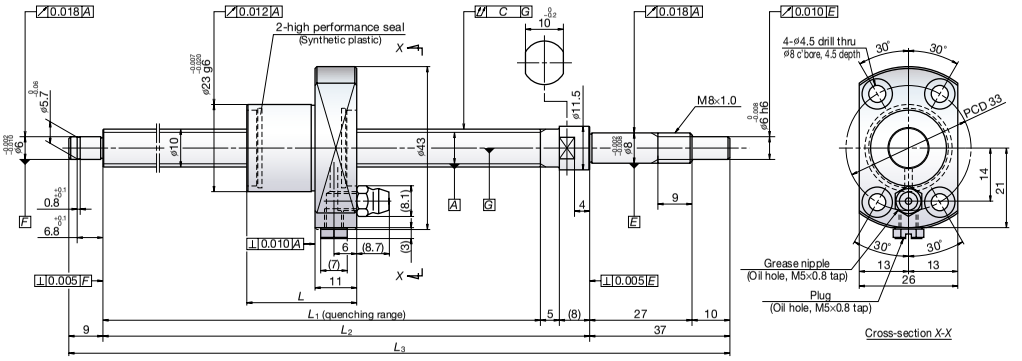
Screw shaft ϕ10
Lead 5, 10



Ball screw specification

Preload type	Oversize ball preload (P-preload)
Ball diameter/screw shaft root diameter	2.000/8.2
Accuracy grade/axial play	C5/0
Factory pre-packed grease	NSK grease PS2

Recommended support unit

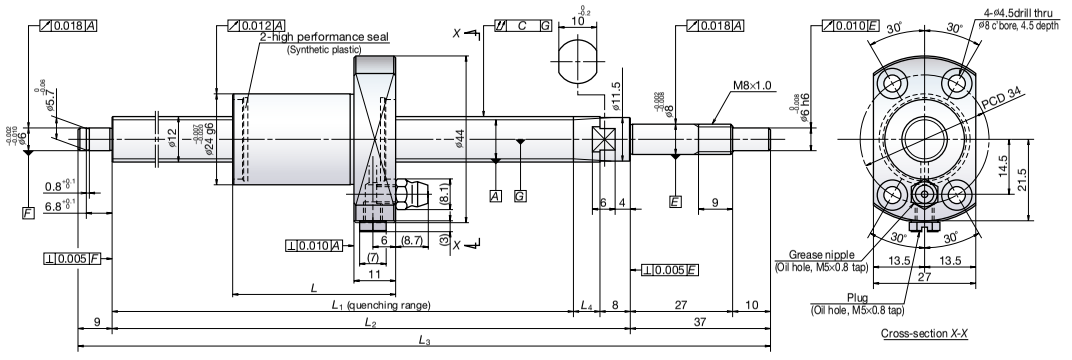
WBK08-01B	(square, fixed side)
WBK08S-01B	(square, simple side)
WBK08-11B	(round, fixed side)

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	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
PSS1005N1D0171	10	5	2 930	4 790	50	83	29	112	125	171	0	0.020	0.018	0.030	0.7 – 3.3	5 000
PSS1005N1D0221					100	133		162	175	221		0.020	0.018	0.045	0.7 – 3.3	
PSS1005N1D0321					200	233		262	275	321		0.023	0.018	0.060	0.6 – 4.3	
PSS1005N1D0421					300	333		362	375	421		0.025	0.020	0.070	0.6 – 4.3	
PSS1005N1D0521					400	433		462	475	521		0.027	0.020	0.085	0.4 – 4.9	
PSS1010N1D0221		10	1 970	3 010	100	130	32	162	175	221		0.020	0.018	0.045	0.7 – 3.3	5 000
PSS1010N1D0321					200	230		262	275	321		0.023	0.018	0.060	0.6 – 4.3	
PSS1010N1D0421					300	330		362	375	421		0.025	0.020	0.070	0.6 – 4.3	
PSS1010N1D0521					400	430		462	475	521		0.027	0.020	0.085	0.4 – 4.9	

*1. Indicates ball screw preload control value. About 2.0 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℃ to 80℃.

Screw shaft ϕ12
Lead 5, 10, 20, 30



Ball screw specification

Preload type	Oversize ball preload (P-preload)
Ball diameter/screw shaft root diameter	2.000/10.2
Accuracy grade/axial play	C5/0
Factory pre-packed grease	NSK grease PS2

Recommended support unit

WBK08-01B	(square, fixed side)
WBK08S-01B	(square, simple side)
WBK08-11B	(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
PSS1205N1D0171	12	5	3 200	5 860	50	80	30	110	125	171	7	0	0.020	0.018	0.030	0.7 – 3.3	5 000
PSS1205N1D0221					100	130		160	175	221			0.020	0.018	0.045	0.7 – 3.3	
PSS1205N1D0321					200	230		260	275	321			0.023	0.018	0.060	0.6 – 4.3	
PSS1205N1D0421					300	330		360	375	421			0.025	0.020	0.070	0.6 – 4.3	
PSS1205N1D0521					400	430		460	475	521			0.027	0.020	0.085	0.6 – 4.3	
PSS1205N1D0621					500	530		560	575	621			0.030	0.023	0.085	0.4 – 4.9	
PSS1210N1D0221		10	3 200	5 860	100	117	43	160	175	221	7		0.020	0.018	0.045	0.7 – 3.3	5 000
PSS1210N1D0321					200	217		260	275	321			0.023	0.018	0.060	0.6 – 4.3	
PSS1210N1D0421					300	317		360	375	421			0.025	0.020	0.070	0.6 – 4.3	
PSS1210N1D0521					400	417		460	475	521			0.027	0.020	0.085	0.6 – 4.3	
PSS1210N1D0621					500	517		560	575	621			0.030	0.023	0.085	0.4 – 4.9	
PSS1220N1D0271		20	2 150	3 610	100	158	50	208	225	271	9		0.023	0.018	0.045	1.4 – 4.5	5 000
PSS1220N1D0371					200	258		308	325	371			0.023	0.018	0.060	0.9 – 4.9	
PSS1220N1D0471					300	358		408	425	471			0.027	0.020	0.070	0.9 – 4.9	
PSS1220N1D0571					400	458		508	525	571			0.030	0.023	0.085	0.6 – 5.9	
PSS1220N1D0671					500	558		608	625	671			0.030	0.023	0.110	0.6 – 5.9	4 200
PSS1230N1D0271		30	2 150	3 610	100	133	70	203	225	271	14		0.023	0.018	0.045	1.4 – 4.5	5 000
PSS1230N1D0371					200	233		303	325	371			0.023	0.018	0.060	0.9 – 4.9	
PSS1230N1D0471					300	333		403	425	471			0.027	0.020	0.070	0.9 – 4.9	
PSS1230N1D0571					400	433		503	525	571			0.030	0.023	0.085	0.6 – 5.9	
PSS1230N1D0671					500	533		603	625	671			0.030	0.023	0.110	0.6 – 5.9	4 300

*1. Indicates ball screw preload control value. About 2.0 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℃ to 80℃.