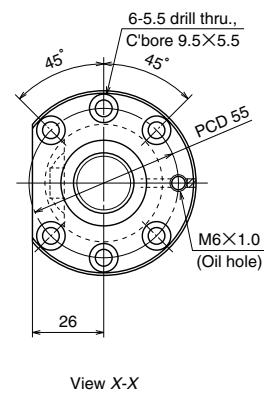


Unit: mm



Ball screw specifications		
Shaft dia. X Lead / Direction of turn	20 x 5/Right	
Preload / Ball recirculation	P preload / Return tube	
Ball dia. / Ball circle dia.	3.175/20.5	
Effective turns of balls	2.5 x 2	
Accuracy grade / Preload	C5/Z	
Basic load rating (N)	Dynamic C _a	9410
	Static C _{0a}	17100
Preload (N)	490	
Dynamic friction torque, median, (N·cm)	7.8	
Spacer ball	Yes	
Factory packed grease	Refer to Remarks 2.	
Internal spatial volume of nut (cm ³)	4.3	

Ball screw No.	Stroke		Screw shaft length		
	Nominal	Maximum (L ₁ -Nut length)	L ₁	L ₂	L ₃
W2002SA-3P-C5Z5	150	169	225	250	335
W2002SA-4P-C5Z5	200	219	275	300	385
W2003SA-2P-C5Z5	300	319	375	400	485
W2004SA-2P-C5Z5	400	419	475	500	585
W2005SA-2P-C5Z5	500	519	575	600	685
W2007SA-1P-C5Z5	700	719	775	800	885

Lead accuracy			Shaft run-out **	Mass (Kg)	Permissible rotational speed N (min ⁻¹)	
T	e _p	v _i			Supporting condition	
					Fixed - Simple support	Fixed - Fixed
-0.005	0.023	0.018	0.045	1.3	3000	3000
-0.007	0.023	0.018	0.045	1.4	3000	3000
-0.009	0.025	0.020	0.055	1.6	3000	3000
-0.011	0.027	0.020	0.070	1.8	3000	3000
-0.014	0.030	0.023	0.085	2.0	3000	3000
-0.019	0.035	0.025	0.110	2.5	3000	3000

Remarks 1. We recommend NSK support unit WBK15-01A (square type, fixed side), WBK15S-01 (square type, simple support side), and WBK15-11 (round type, fixed side).
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use.
 3. Permissible rotational speed is determined by a d · n value and a critical speed. See page B509.
 Root diameter of screw shaft (dr) is 17.2 mm.

Unit: mm