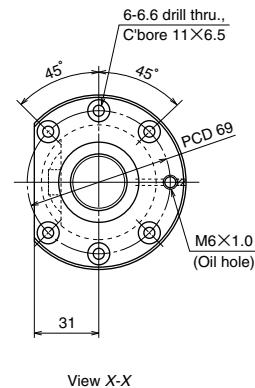


Unit: mm



Ball screw specifications		
Shaft dia. X Lead / Direction of turn	28 × 6 / Right	
Preload / Ball recirculation	P preload / Return tube	
Ball dia. / Ball circle dia.	3.175 / 28.5	
Effective turns of balls	2.5 × 2	
Accuracy grade / Preload	C5 / Z	
Basic load rating (N)	Dynamic C _a	11000
	Static C _{0a}	24400
Preload (N)	540	
Dynamic friction torque, median, (N · cm)	11.8	
Spacer ball	Yes	
Factory packed grease	Refer to Remarks 2.	
Internal spatial volume of nut (cm ³)	6.0	

Ball screw No.	Stroke		Screw shaft length		
	Nominal	Maximum (L ₁ -Nut length)	L ₁	L ₂	L ₃
W2803SA-3P-C5Z6	250	307	370	400	499
W2805SA-3P-C5Z6	450	507	570	600	699
W2807SA-3P-C5Z6	650	695	758	800	933
W2809SA-3P-C5Z6	850	895	958	1000	1133
W2811SA-3P-C5Z6	1050	1095	1158	1200	1333

Left side shaft end	Lead accuracy			Shaft run-out **	Mass (Kg)	Permissible rotational speed N (min ⁻¹)	
	T	e _p	v _u			Supporting condition	
	Fixed - Simple support		Fixed - Fixed				
II	-0.009	0.025	0.020	0.040	3.0	2500	—
II	-0.014	0.030	0.023	0.060	3.9	2500	—
I	-0.018	0.035	0.025	0.075	4.9	2500	2500
I	-0.023	0.040	0.027	0.090	5.8	2500	2500
I	-0.028	0.046	0.030	0.120	6.6	2500	2500

- Remarks
- We recommend NSK support unit WBK20-01A (square type, fixed side), WBK20S-01 (square type, simple support side), and WBK20-11 (round type, fixed side).
 - Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use.**
 - Permissible rotational speed is determined by a d · n value and a critical speed. See page B509. Root diameter of screw shaft (dr) is 25.2 mm.