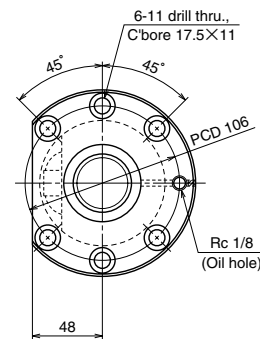


Unit: mm



View X-X

Ball screw specifications		
Shaft dia. X Lead / Direction of turn	40 × 12/Right	
Preload / Ball recirculation	Z preload / Return tube	
Ball dia. / Ball circle dia.	7.144/41.5	
Effective turns of balls	2.5 × 1	
Accuracy grade / Preload	C5/Z	
Basic load rating (N)	Dynamic C_a	33600
	Static C_{0a}	77500
Preload (N)	2550	
Dynamic friction torque, median, (N · cm)	83.0	
Spacer ball	None	
Factory packed grease	Refer to Remarks 2.	
Internal spatial volume of nut (cm ³)	33	

Ball screw No.	Stroke		Screw shaft length		
	Nominal	Maximum (L ₁ -Nut length)	L ₁	L ₂	L ₃
W4006SA-3Z-C5Z12	500	563	680	700	939
W4009SA-5Z-C5Z12	800	863	980	1000	1239
W4013SA-3Z-C5Z12	1200	1263	1380	1400	1639
W4017SA-3Z-C5Z12	1600	1663	1780	1800	2039
W4024SA-1Z-C5Z12	2300	2363	2480	2500	2739

- Remarks
1. We recommend NSK support unit round type WBK30DF-31.
 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 $d \cdot n$ value and a critical speed. See page B509.
Root diameter of screw shaft (dr) is 34.1 mm.

Unit: mm

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
-0.016	0.035	0.025	0.050	11.6	1750	1750
-0.024	0.040	0.027	0.065	14.2	1750	1750
-0.033	0.054	0.035	0.100	17.7	1750	1750
-0.043	0.065	0.040	0.130	21.2	1670	1750
-0.060	0.077	0.046	0.170	27.2	850	1220