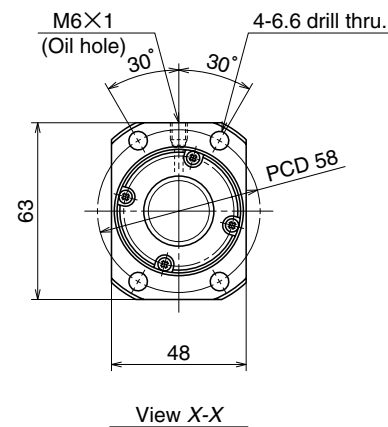


Unit: mm



Ball screw specifications		
Product classification	Preloaded	Precise clearance
Shaft dia. X Lead / Direction of turn	25 × 50 / Right	
Preload / Ball recirculation	P preload / End cap	
Ball dia. / Ball circle dia.	3.969 / 26	
Effective turns of balls	0.7 × 2	
Accuracy grade/ Preload / Axial play	C5/Z	C5/T
Basic load rating (N)	Dynamic C_a	6690
	Static C_{0a}	13500
Axial play	0	0.005 or less
Dynamic friction torque, (N · cm)	2.9~21.5	~4.9
Spacer ball	None	
Factory packed grease	NSK grease LR3	
Internal spatial volume of nut (cm ³)	4.2	

Ball screw No.		Stroke	
		Nominal	Maximum (L ₁ -Nut length)
Preloaded (UPFC)	Precise clearance (USGC)		
W2508FA-1PGX-C5Z50	W2508FA-2GX-C5T50	700	794
W2511FA-5PGX-C5Z50	W2511FA-6GX-C5T50	1000	1094
W2516FA-1PGX-C5Z50	W2516FA-2GX-C5T50	1500	1594
W2521FA-5PGX-C5Z50	W2521FA-6GX-C5T50	2000	2094

Screw shaft length			Lead accuracy			Shaft run-out **	Mass (Kg)	Permissible rotational speed N (min ⁻¹)	
								Supporting condition	
L ₁	L ₂	L ₃	T	e _p	v _u	Fixed - Simple support	Fixed - Fixed		
844	880	1013	0	0.040	0.027			0.070	4.1
1144	1180	1313	0	0.046	0.030	0.090	5.3	2550	2800
1644	1680	1813	0	0.065	0.040	0.120	7.2	1230	1710
2144	2180	2313	0	0.077	0.046	0.160	9.1	720	1010

- Remarks
1. 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).
 2. NSK grease LR3 is recommended. The amount for replenishing should be about 50% of nut internal space capacity.
 3. Nut does not have a seal.
 4. 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 21.9 mm.

Unit: mm