



Ball screw specifications			
Product classification	Preloaded	Precise clearance	
Shaft dia. X Lead / Direction of turn	25 × 20/Right		
Preload / Ball recirculation	P preload / Return tube		
Ball dia. / Ball circle dia.	4.762/26.25		
Effective turns of balls	2.5 × 1		
Accuracy grade/ Preload / Axial play	C5/Z	C5/T	
Basic load rating (N)	Dynamic C_a	9900	15700
	Static C_{0a}	16400	32800
Axial play	0	0.005 or less	
Dynamic friction torque, (N · cm)	3.9~24.5	4.9	
Spacer ball	Yes	None	
Factory packed grease	NSK grease LR3		
Internal spatial volume of nut (cm ³)	12		

Ball screw No.		Stroke	
		Nominal	Maximum (L_1 -Nut length)
Preloaded (LPFT)	Precise clearance (LSFT)		
W2507FA-1P-C5Z20	W2507FA-2-C5T20	600	654
W2509FA-1P-C5Z20	W2509FA-2-C5T20	800	854
W2511FA-1P-C5Z20	W2511FA-2-C5T20	1000	1054
W2513FA-1P-C5Z20	W2513FA-2-C5T20	1200	1254
W2515FA-1P-C5Z20	W2515FA-2-C5T20	1400	1454
W2517FA-1P-C5Z20	W2517FA-2-C5T20	1600	1654
W2521FA-1P-C5Z20	W2521FA-2-C5T20	2000	2054

- 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. 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 21.3 mm.

Screw shaft length			Lead accuracy			Shaft run-out **	Mass (Kg)	Permissible rotational speed N (min ⁻¹)	
L_1	L_2	L_3	T	e_p	v_u			Supporting condition	
								Fixed - Simple support	Fixed - Fixed
750	780	913	0	0.035	0.025	0.055	4.0	2800	2800
950	980	1113	0	0.040	0.027	0.070	4.7	2800	2800
1150	1180	1313	0	0.046	0.030	0.090	5.4	2560	2800
1350	1380	1513	0	0.054	0.035	0.090	6.2	1840	2550
1550	1580	1713	0	0.054	0.035	0.120	6.9	1390	1940
1750	1780	1913	0	0.065	0.040	0.120	7.6	1080	1520
2150	2180	2313	0	0.077	0.046	0.160	9.1	710	1000