



Unit: mm

Ball screw specifications		
Shaft dia. x Lead / Direction of turn	32 x 10/Right	
Preload / Ball recirculation	Z preload / Return tube	
Ball dia. / Ball circle dia.	6.35/33	
Effective turns of balls	2.5 x 1	
Accuracy grade / Preload	C5/Z	
Basic load rating (N)	Dynamic C_a	25500
	Static C_{0a}	54000
Preload (N)	1960	
Dynamic friction torque, median, (N · cm)	54.0	
Spacer ball	None	
Factory packed grease	Refer to Remarks 2.	
Internal spatial volume of nut (cm ³)	22	

Ball screw No.	Stroke		Screw shaft length		
	Nominal	Maximum (L ₁ -Nut length)	L ₁	L ₂	L ₃
W3203SA-6Z-C5Z10	250	280	380	400	560
W3204SA-3Z-C5Z10	350	380	480	500	660
W3205SA-6Z-C5Z10	450	480	580	600	760
W3206SA-3Z-C5Z10	550	580	680	700	929
W3207SA-6Z-C5Z10	650	680	780	800	1029
W3209SA-6Z-C5Z10	850	880	980	1000	1229
W3211SA-5Z-C5Z10	1050	1080	1180	1200	1429
W3214SA-6Z-C5Z10	1350	1380	1480	1500	1729
W3217SA-1Z-C5Z10	1650	1680	1780	1800	2029

Unit: mm

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	0.050	5.5	2180	—
II	-0.012	0.027	0.020	0.060	6.0	2180	—
II	-0.014	0.030	0.023	0.060	6.6	2180	—
I	-0.016	0.035	0.025	0.075	7.4	2180	2180
I	-0.019	0.035	0.025	0.090	7.9	2180	2180
I	-0.024	0.040	0.027	0.090	9.0	2180	2180
I	-0.028	0.046	0.030	0.120	10.1	2180	2180
I	-0.036	0.054	0.035	0.150	11.7	1860	2180
I	-0.043	0.065	0.040	0.200	13.3	1280	1820

- Remarks
1. We recommend NSK support unit WBK25DF-31 (round type).
 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 26.4 mm.