



Ball screw specifications			
Product classification	Preloaded	Precise clearance	
Shaft dia. X Lead / Direction of turn	16×16/Right		
Preload / Ball recirculation	P preload / Return tube		
Ball dia. / Ball circle dia.	3.175/16.75		
Effective turns of balls	1.5×1		
Accuracy grade / Preload / Axial play	C5/Z	C5/T	
Basic load rating (N)	Dynamic C_a	3600	4710
	Static C_{0a}	5410	8110
Axial play	0	0.005 or less	
Dynamic friction torque, (N·cm)	1.5~7.8	~2.4	
Spacer ball	Yes	None	
Factory packed grease	NSK grease LR3		
Internal spatial volume of nut (cm ³)	2.1		

Ball screw No.		Stroke	
		Nominal	Maximum (L_1 -Nut length)
Preloaded (LPFT)	Precise clearance (LSFT)		
W1601FA-3P-C5Z16	W1601FA-4-C5T16	100	128
W1602FA-3P-C5Z16	W1602FA-4-C5T16	150	178
W1602FA-5P-C5Z16	W1602FA-6-C5T16	200	228
W1603FA-3P-C5Z16	W1603FA-4-C5T16	250	278
W1603FA-5P-C5Z16	W1603FA-6-C5T16	300	328
W1604FA-3P-C5Z16	W1604FA-4-C5T16	350	378
W1604FA-5P-C5Z16	W1604FA-6-C5T16	400	428
W1605FA-1P-C5Z16	W1605FA-2-C5T16	450	478
W1605FA-3P-C5Z16	W1605FA-4-C5T16	500	528
W1606FA-3P-C5Z16	W1606FA-4-C5T16	550	578
W1606FA-5P-C5Z16	W1606FA-6-C5T16	600	628
W1607FA-1P-C5Z16	W1607FA-2-C5T16	700	728
W1608FA-3P-C5Z16	W1608FA-4-C5T16	800	828
W1610FA-1P-C5Z16	W1610FA-2-C5T16	1000	1028

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_a		Fixed - Simple support	Fixed - Fixed	
184	204	271	0	0.020	0.018	0.025	0.69	3000	3000
234	254	321	0	0.023	0.018	0.035	0.77	3000	3000
284	304	371	0	0.023	0.018	0.035	0.84	3000	3000
334	354	421	0	0.025	0.020	0.040	0.92	3000	3000
384	404	471	0	0.025	0.020	0.040	0.99	3000	3000
434	454	521	0	0.027	0.020	0.050	1.1	3000	3000
484	504	571	0	0.027	0.020	0.050	1.1	3000	3000
534	554	621	0	0.030	0.023	0.050	1.2	3000	3000
584	604	671	0	0.030	0.023	0.065	1.3	3000	3000
634	654	721	0	0.035	0.025	0.065	1.4	3000	3000
684	704	771	0	0.035	0.025	0.065	1.4	3000	3000
784	804	871	0	0.035	0.025	0.085	1.6	3000	3000
884	904	971	0	0.040	0.027	0.085	1.7	2690	3000
1084	1104	1171	0	0.046	0.030	0.110	2.0	1770	2480

- Remarks
- We recommend NSK support unit WBK12-01A (square type, fixed side), WBK12S-01 (square type, simple support side), and WBK12-11 (round type, fixed side).
 - NSK grease LR3 is recommended. The amount for replenishing should be about 50% of nut internal space capacity.
 - 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 13.4 mm.