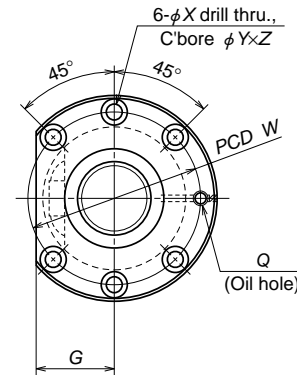


Nut type code: PFT



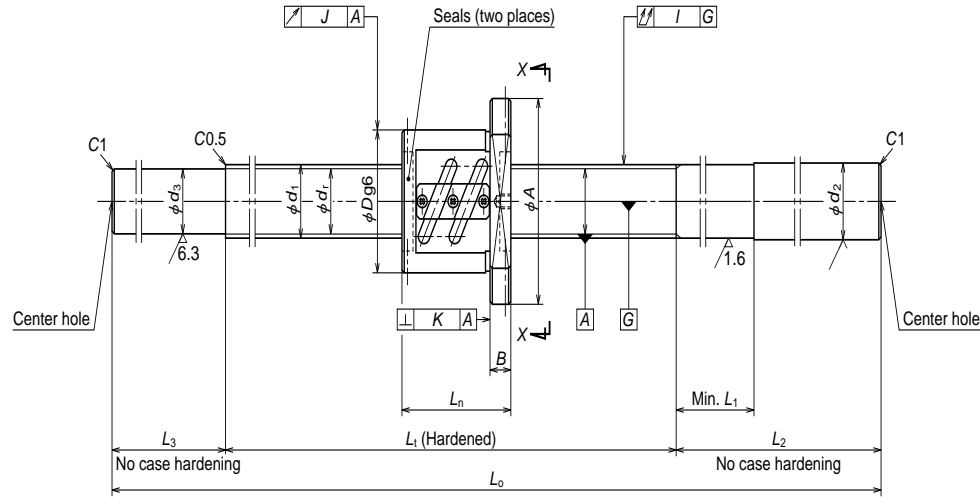
View X-X

Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns × Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque median (N·cm)	Nut						
								Dynamic $C_a$	Static $C_{0a}$			Outside dia. $D$	Flange		Overall length $L_n$	Bolt hole		
													$A$	$G$		$B$	$W$	$X$
W2003SS-1P-C5Z4	251	20	4	2.381	20.3	17.8	2.5×2	5420	10700	290	3.9	40	63	24	11	49	51	5.5
W2005SS-1P-C5Z4	451											40	63	24	11	49	51	5.5
W2008SS-1P-C5Z4	751											40	63	24	11	49	51	5.5
W2003SS-2P-C5Z5	244	20	5	3.175	20.5	17.2	2.5×2	9410	17100	490	7.8	44	67	26	11	56	55	5.5
W2005SS-2P-C5Z5	444											44	67	26	11	56	55	5.5
W2007SS-1P-C5Z5	644											44	67	26	11	56	55	5.5
W2010SS-1P-C5Z5	944											44	67	26	11	56	55	5.5

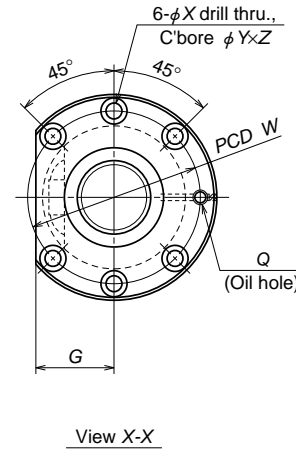
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions		Screw shaft dimensions						Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (N/min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )		
Bolt hole	Oil hole	Threaded length	Shaft end, right		Shaft end, left		Overall length	Travel compensation	Deviation	Variation	Shaft straightness	Nut O.D. eccentricity	Flange perpendicularity						
Y	Z	Q	$L_1$	$d_2$	$L_1$	$L_2$	$d_3$	$L_3$	$L_0$	T	$e_p$	$v_u$	I	J	K				
9.5	5.5	M6×1	300	20.2	40	150	17.8	—	450	-0.007	0.023	0.018	0.055	0.015	0.011	1.5	3000	2.7	1.4
			500					50	700	-0.012	0.027	0.020	0.085			2.0			
			800					100	1100	-0.019	0.035	0.025	0.140			2.9			
9.5	5.5	M6×1	300	20.2	40	150	17.2	—	450	-0.007	0.023	0.018	0.055	0.015	0.011	1.6	3000	4.3	2.2
			500					50	700	-0.012	0.027	0.020	0.085			2.2			
			700					100	1000	-0.017	0.035	0.025	0.110			2.8			
			1000					100	1300	-0.024	0.040	0.027	0.180			3.5			



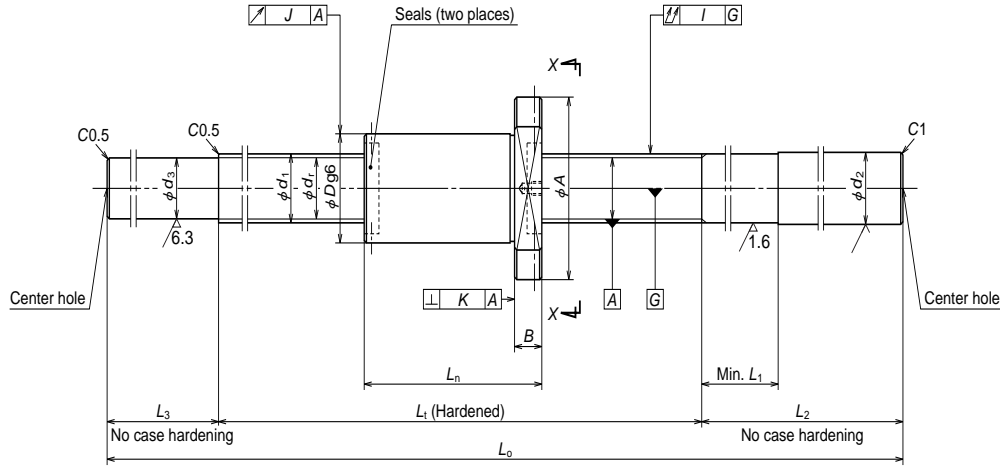
Nut type code: PFT



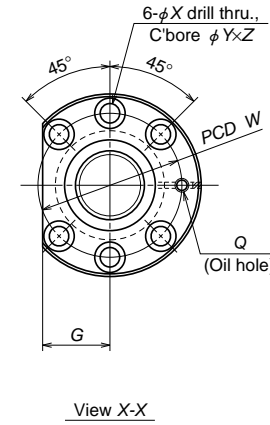
Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns x Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque median (N·cm)	Nut																
								Dynamic C <sub>a</sub>	Static C <sub>0a</sub>			Outside dia. D	Flange			Overall length L <sub>n</sub>	Bolt hole W X											
													A	G	B													
W2503SS-1P-C5Z4	252	25	4	2.381	25.3	22.8	2.5x2	6020	13600	290	4.9	46	69	26	11	48	57	5.5										
W2506SS-1P-C5Z4	552											25.2	40	200	22.8	100	900	-0.014	0.030	0.023	0.075	0.015	0.011	3.8	2800	3.2	1.6	
W2510SS-1P-C5Z4	952											200	100	1300	-0.024	0.040	0.027	0.120	5.2									
W2503SS-2P-C5Z5	245	25	5	3.175	25.5	22.2	2.5x2	10400	21900	540	8.8	50	73	28	11	55	61	5.5										
W2505SS-1P-C5Z5	445											200	22.2	200	50	750	-0.012	0.027	0.020	0.060	0.015	0.011	3.4	2800	5.2	2.6		
W2508SS-1P-C5Z5	745											250	100	1150	-0.019	0.035	0.025	0.090	4.8									
W2512SS-1P-C5Z5	1145											300	100	1600	-0.029	0.046	0.030	0.120	6.3									
W2504SS-1P-C5Z6	338											25	6	3.969	25.5	21.4	2.5x2	14100	26800	690	13.8	53	76	29	11	62	64	5.5
W2508SS-2P-C5Z6	738																					200	21.4	200	53	76	29	11
W2512SS-2P-C5Z6	1138	250	21.4	200	250	21.4	100	1150	-0.019	0.035	0.025											0.090	0.019	0.013	4.8			
		300	100	1600	-0.029	0.046	0.030	0.120	6.3																			

Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

dimensions		Screw shaft dimensions						Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N(min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )		
Bolt hole Y Z	Oil hole Q	Threaded length L <sub>1</sub>	Shaft end, right d <sub>2</sub>	Shaft end, left L <sub>1</sub> L <sub>2</sub>	Shaft end, left d <sub>3</sub> L <sub>3</sub>	Overall length L <sub>0</sub>	Travel compensation T	Deviation e <sub>p</sub>	Variation v <sub>u</sub>	Shaft straightness I	Nut O.D. eccentricity J	Flange perpendicularity K							
9.5	5.5	M6x1	300	25.2	40	150	—	450	-0.007	0.023	0.018	0.040	0.015	0.011	2.2	2800	3.2	1.6	
			600			200	100	900	-0.014	0.030	0.023	0.075			3.8				
			1000			200	100	1300	-0.024	0.040	0.027	0.120			5.2				
9.5	5.5	M6x1	300	25.2	40	200	—	500	-0.007	0.023	0.018	0.040	0.015	0.011	2.5	2800	5.2	2.6	
			500			200	50	750	-0.012	0.027	0.020	0.060			3.4				
			800			250	100	1150	-0.019	0.035	0.025	0.090			4.8				
			1200			300	100	1600	-0.029	0.046	0.030	0.120			6.3				
9.5	5.5	M6x1	400	25.2	40	200	—	600	-0.010	0.025	0.020	0.050	0.019	0.013	3.0	2800	7.0	3.5	
			800			250	21.4	100	1150	-0.019	0.035	0.025			0.090				4.8
			1200			300	100	1600	-0.029	0.046	0.030	0.120			6.3				



Nut type code: ZFD



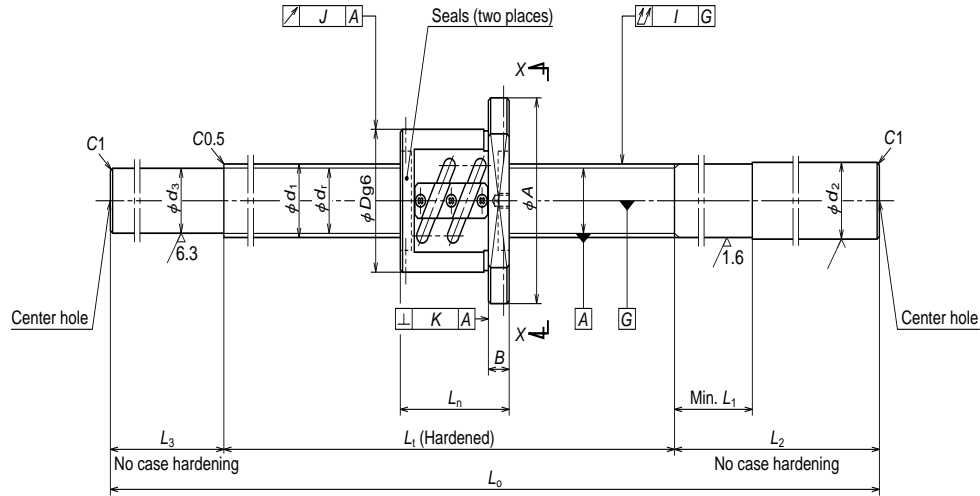
View X-X

Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns × Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque median (N·cm)	Nut							
								Dynamic C <sub>a</sub>	Static C <sub>0a</sub>			Outside dia. D	Flange			Overall length L <sub>n</sub>	Bolt hole W	X	
													A	G	B				
W2502SS-1ZY-C5Z5	184																		
W2504SS-3ZY-C5Z5	334																		
W2506SS-2ZY-C5Z5	534	25	5	3.175	25.75	22.4	1×3	9790	22900	740	13.8	40	63	24	11	66	51	5.5	
W2509SS-1ZY-C5Z5	834																		
W2512SS-3ZY-C5Z5	1134																		
W2504SS-4ZY-C5Z10	312																		
W2506SS-3ZY-C5Z10	512																		
W2508SS-3ZY-C5Z10	712	25	10	4.762	26.25	21.3	1×2	11400	21400	880	21.5	42	69	26	15	88	55	6.6	
W2511SS-1ZY-C5Z10	1012																		
W2515SS-2ZY-C5Z10	1412																		

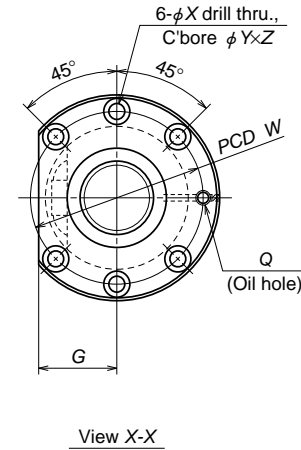
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions		Screw shaft dimensions					Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N(min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )	
Bolt hole Y	Oil hole Z	Threaded length L <sub>1</sub>	Shaft end, right		Shaft end, left d <sub>3</sub>	Overall length L <sub>0</sub>	Travel compensation T	Deviation e <sub>p</sub>	Variation v <sub>u</sub>	Shaft straightness I	Nut O.D. eccentricity J	Flange perpendicularity K					
			L <sub>1</sub>	L <sub>2</sub>													L <sub>2</sub>
9.5	5.5	M6×1	250	25.2	40	200	—	450	-0.005	0.023	0.018	0.040	0.015	0.011	2800	5.4	2.7
			400			200	50	650	-0.009	0.025	0.020	0.060					
			600			250	100	950	-0.013	0.030	0.023	0.075					
			900			250	100	1250	-0.021	0.040	0.027	0.090					
			1200			300	100	1600	-0.028	0.046	0.030	0.120					
11	6.5	M6×1	400	25.2	60	200	50	650	-0.008	0.025	0.020	0.060	0.015	0.011	2800	9.0	4.5
			600			250	100	950	-0.012	0.030	0.023	0.075					
			800			250	100	1150	-0.017	0.035	0.025	0.090					
			1100			300	100	1500	-0.024	0.046	0.030	0.120					
			1500			300	100	1900	-0.034	0.054	0.035	0.150					



Nut type code: PFT

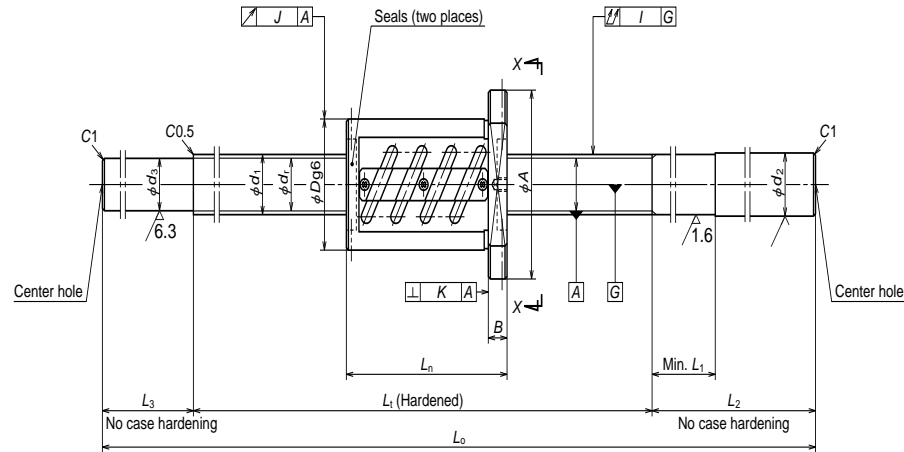


Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns x Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque median (N·cm)	Nut						
								Dynamic C <sub>a</sub>	Static C <sub>0a</sub>			Outside dia. D	Flange			Overall length L <sub>n</sub>	Bolt hole W	X
													A	G	B			
W2504SS-2P-C5Z10	319	25	10	4.762	25.5	20.5	1.5x2	11600	19000	590	13.8	58	85	32	15	81	71	6.6
W2507SS-1P-C5Z10	619																	
W2510SS-2P-C5Z10	919																	
W2515SS-1P-C5Z10	1419																	
W2804SS-1P-C5Z5	344	28	5	3.175	28.5	25.2	2.5x2	11000	24400	540	9.8	55	85	31	12	56	69	6.6
W2806SS-1P-C5Z5	544																	
W2808SS-1P-C5Z5	744																	
W2812SS-1P-C5Z5	1144																	
W2804SS-3P-C5Z6	337	28	6	3.175	28.5	25.2	2.5x2	11000	24400	540	10.8	55	85	31	12	63	69	6.6
W2806SS-3P-C5Z6	537																	
W2808SS-3P-C5Z6	737																	
W2812SS-3P-C5Z6	1137																	

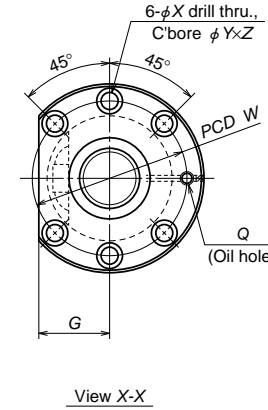
Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions		Screw shaft dimensions					Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N(min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )		
Bolt hole Y	Oil hole Z	Threaded length L <sub>1</sub>	Shaft end, right d <sub>2</sub>	Shaft end, left L <sub>1</sub>	Overall length L <sub>0</sub>	Travel compensation T	Deviation e <sub>p</sub>	Variation v <sub>u</sub>	Shaft straightness I	Nut O.D. eccentricity J	Flange perpendicularity K							
Q			L <sub>2</sub>	d <sub>3</sub>	L <sub>3</sub>													
11	6.5	M6x1	400	25.2	60	200	50	650	-0.010	0.025	0.020	0.060	0.019	0.013	3.8	2800	9.7	4.9
			700			250	100	1050	-0.017	0.035	0.025	0.090						
			1000			250	100	1350	-0.024	0.040	0.027	0.120						
			1500			300	100	1900	-0.036	0.054	0.035	0.150						
11	6.5	M6x1	400	28.2	40	200	—	600	-0.010	0.025	0.020	0.050	0.019	0.013	3.7	2500	6.1	3.1
			600			250	100	950	-0.014	0.030	0.023	0.075						
			800			250	100	1150	-0.019	0.035	0.025	0.090						
			1200			300	100	1600	-0.029	0.046	0.030	0.120						
11	6.5	M6x1	400	28.2	40	200	—	600	-0.010	0.025	0.020	0.050	0.019	0.013	3.8	2500	6.1	3.1
			600			250	100	950	-0.014	0.030	0.023	0.075						
			800			250	100	1150	-0.019	0.035	0.025	0.090						
			1200			300	100	1600	-0.029	0.046	0.030	0.120						



Nut type code: ZFT

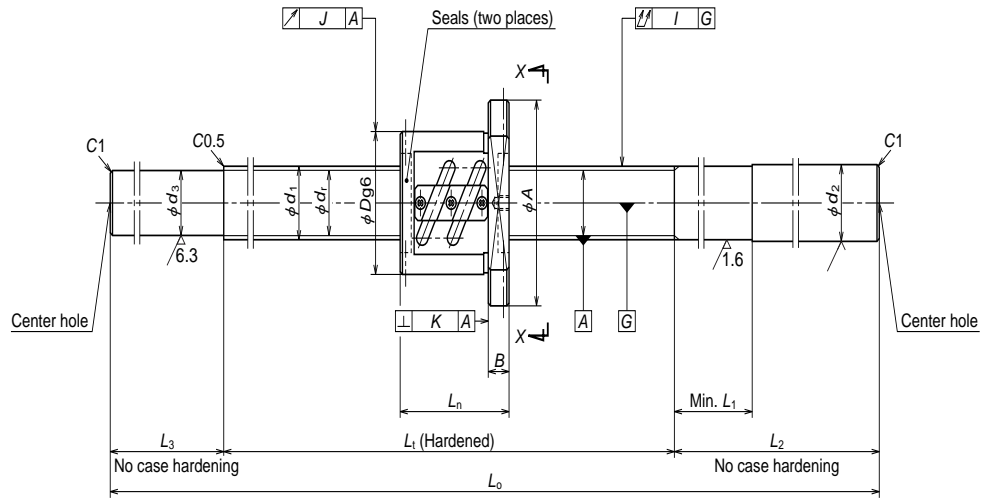


Unit: mm

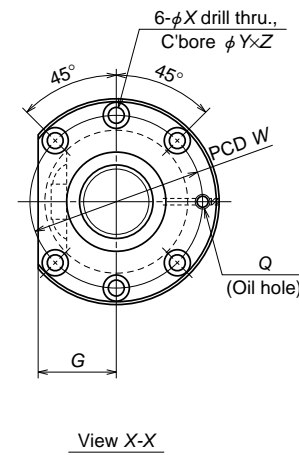
Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns x Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque median (N·cm)	Nut						
								Dynamic C <sub>a</sub>	Static C <sub>0a</sub>			Outside dia. D	Flange			Overall length L <sub>n</sub>	Bolt hole W X	
													A	G	B			
W2804SS-2Z-C5Z5	314	28	5	3.175	28.5	25.2	2.5x2	17400	48800	1225	21.5	55	85	31	12	86	69	6.6
W2806SS-2Z-C5Z5	514																	
W2808SS-2Z-C5Z5	714																	
W2812SS-2Z-C5Z5	1114	28	6	3.175	28.5	25.2	2.5x2	17400	48800	1225	22.5	55	85	31	12	99	69	6.6
W2804SS-4Z-C5Z6	301																	
W2806SS-4Z-C5Z6	501																	
W2808SS-4Z-C5Z6	701	1101																
W2812SS-4Z-C5Z6	1101																	

dimensions			Screw shaft dimensions					Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N(min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )	
Bolt hole Y	Oil hole Z	Q	Threaded length L <sub>1</sub>	Shaft end, right		Shaft end, left		Overall length L <sub>0</sub>	Travel compensation T	Deviation e <sub>p</sub>	Variation v <sub>u</sub>	Shaft straightness I	Nut O.D. eccentricity J					Flange perpendicularity K
				d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	d <sub>3</sub>											
11	6.5	M6x1	400	28.2	40	200	—	600	-0.010	0.025	0.020	0.050	0.019	0.013	4.7	2500	9.2	4.6
			600			250	100	950	-0.014	0.030	0.023	0.075			5.5			
			800			250	100	1150	-0.019	0.035	0.025	0.090			6.4			
			1200			300	100	1600	-0.029	0.046	0.030	0.120			8.4			
11	6.5	M6x1	400	28.2	40	200	—	600	-0.010	0.025	0.020	0.050	0.019	0.013	4.2	2500	9.5	4.8
			600			250	100	950	-0.014	0.030	0.023	0.075			5.7			
			800			250	100	1150	-0.019	0.035	0.025	0.090			6.6			
			1200			300	100	1600	-0.029	0.046	0.030	0.120			8.6			

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.



Nut type code: PFT

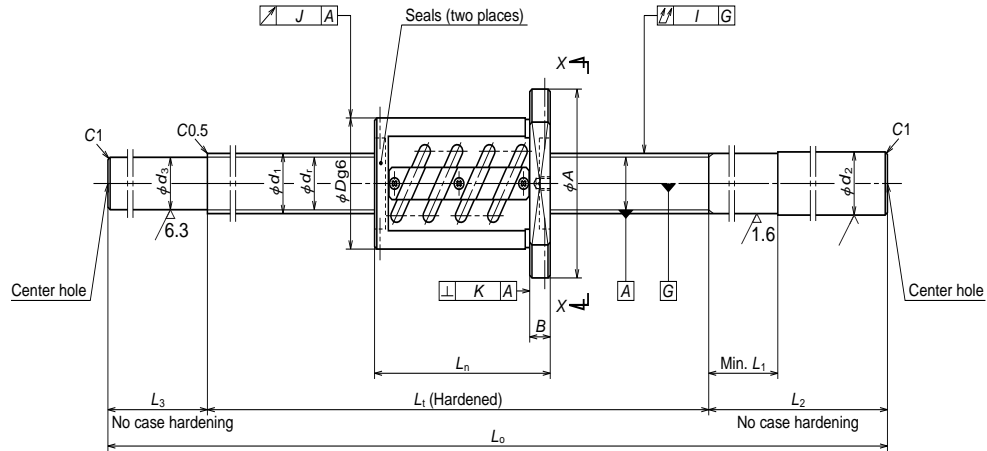


Unit: mm

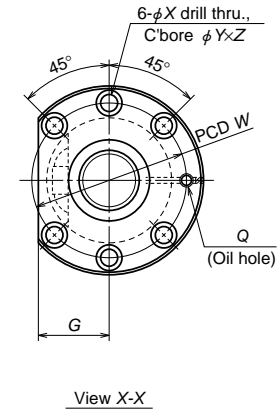
Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns $\times$ Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$			Outside dia.			Overall length $L_n$	
												D	A	G		B
W3204SS-1P-C5Z5	344	32	5	3.175	32.5	29.2	2.5×2	11600	28000	590	10.8	58	85	32	12	56
W3206SS-1P-C5Z5	544															
W3208SS-1P-C5Z5	744															
W3212SS-1P-C5Z5	1144															
W3215SS-1P-C5Z5	1444															
W3206SS-3P-C5Z6	537	32	6	3.969	32.5	28.4	2.5×2	15500	34700	780	15.6	62	89	34	12	63
W3210SS-1P-C5Z6	937															
W3215SS-3P-C5Z6	1437															

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )			
Bolt hole		Oil hole		Threaded length $L_1$	Shaft end, right		Shaft end, left		Travel compensation $T$	Deviation $e_p$	Variation $v_u$	Shaft straightness $I$	Nut O.D. eccentricity $J$					Flange perpendicularity $K$		
W	X	Y	Z		Q	$d_2$	$L_1$	$L_2$											$d_3$	$L_3$
71	6.6	11	6.5	M6×1	32.3	40	250	200	50	650	-0.010	0.025	0.020	0.060	0.019	0.013	7.7	2180	6.9	3.5
								250	100	950	-0.014	0.030	0.023	0.075						
								800	100	1150	-0.019	0.035	0.025	0.090						
								1200	100	1600	-0.029	0.046	0.030	0.120						
								1500	100	1900	-0.036	0.054	0.035	0.150						
75	6.6	11	6.5	M6×1	32.3	40	300	28.4	100	950	-0.014	0.030	0.023	0.075	0.019	0.013	9.2	2180	9.4	4.7
								1000	1400	-0.024	0.040	0.027	0.120							
								1500	1900	-0.036	0.054	0.035	0.150							



Nut type code: ZFT

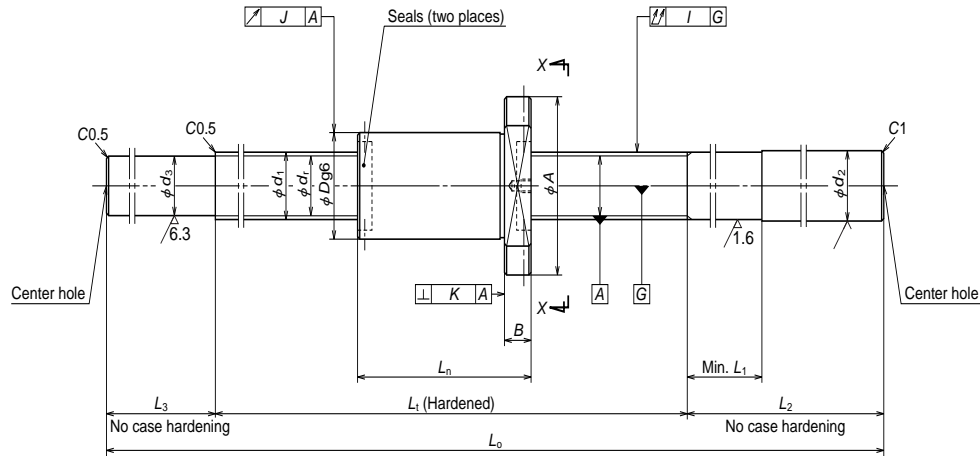


Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns $\times$ Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N-cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$			Outside dia. $D$	Flange			Overall length $L_n$
													$A$	$G$	$B$	
W3204SS-2Z-C5Z5	314	32	5	3.175	32.5	29.2	2.5×2	18500	56100	1270	22.5	58	85	32	12	86
W3206SS-2Z-C5Z5	514															
W3208SS-2Z-C5Z5	714															
W3212SS-2Z-C5Z5	1114															
W3215SS-2Z-C5Z5	1414															
W3206SS-4Z-C5Z6	501	32	6	3.969	32.5	28.4	2.5×2	24700	69400	1720	34.5	62	89	34	12	99
W3210SS-2Z-C5Z6	901															
W3215SS-4Z-C5Z6	1401															
W3206SS-5Z-C5Z8	518	32	8	4.762	32.5	27.5	2.5×1	17500	41000	1320	30.5	66	100	38	15	82
W3210SS-3Z-C5Z8	918															
W3215SS-5Z-C5Z8	1418															

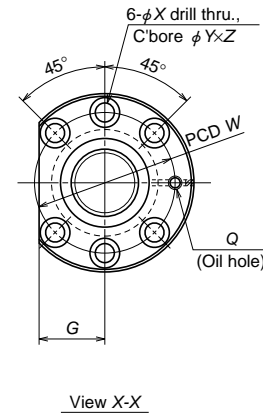
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )		
Bolt hole		Oil hole		Threaded length	Shaft end, right		Shaft end, left		Overall length	Travel compensation	Deviation	Variation	Shaft straightness					Nut O.D. eccentricity	Flange perpendicularity
W	X	Y	Z	Q	$L_1$	$d_2$	$L_1$	$L_2$	$d_3$	$L_3$	$L_0$	T	$e_p$					$v_u$	I
71	6.6	11	6.5	M6×1	400	32.3	40	250	29.2	50	650	-0.010	0.025	0.020	0.060	0.019	0.013	5.1	
					600					100	950	-0.014	0.030	0.023	0.075			6.9	
					800					100	1600	-0.029	0.046	0.030	0.120			10.1	
					1200					100	1900	-0.036	0.054	0.035	0.150			12.4	
75	6.6	11	6.5	M6×1	600	32.3	40	300	28.4	950	1400	-0.014	0.030	0.023	0.075	0.019	0.013	7.1	
					1000					100	1400	-0.024	0.040	0.027	0.120			9.7	
					1500					100	1900	-0.036	0.054	0.035	0.150			12.6	
82	9	14	8.5	M6×1	600	32.3	50	300	27.5	950	1400	-0.014	0.030	0.023	0.075	0.019	0.013	7.3	
					1000					100	1400	-0.024	0.040	0.027	0.120			9.8	
					1500					100	1900	-0.036	0.054	0.035	0.150			12.6	

Unit: mm



Nut type code: ZFD

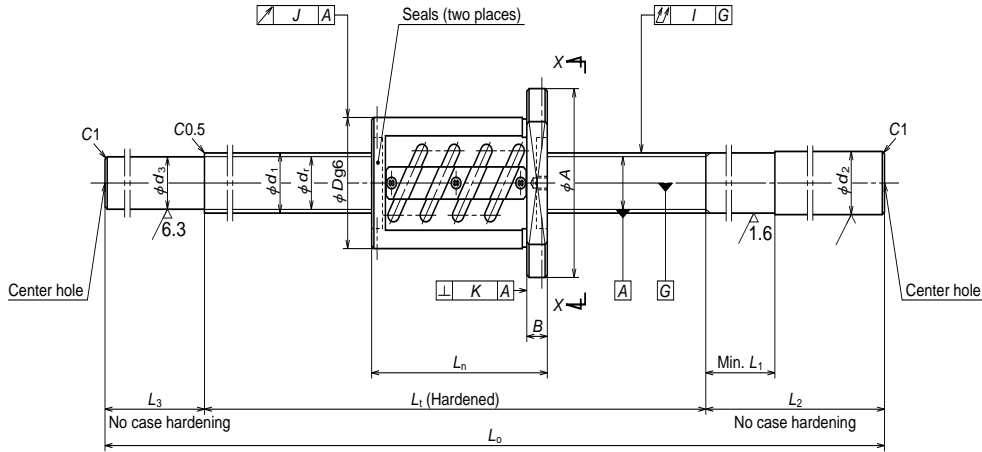


Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns $\times$ Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$			Flange				Overall length $L_n$
												Outside dia. $D$	$A$	$G$	$B$	
W3204SS-3ZY-C5Z5	323	32	5	3.175	32.75	29.4	4	14200	40700	1080	19.6	48	75	29	12	77
W3206SS-6ZY-C5Z5	523															
W3209SS-1ZY-C5Z5	823															
W3212SS-3ZY-C5Z5	1123															
W3216SS-1ZY-C5Z5	1523															
W3205SS-3ZY-C5Z10	380	32	10	6.35	33.75	27.1	3	25900	52800	1860	49.0	54	88	34	15	120
W3207SS-3ZY-C5Z10	580															
W3210SS-6ZY-C5Z10	880															
W3214SS-3ZY-C5Z10	1280															
W3218SS-3ZY-C5Z10	1680															

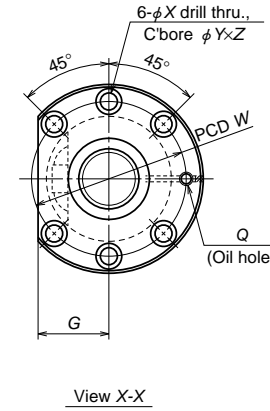
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )				
Bolt hole		Oil hole		Threaded length	Shaft end, right		Shaft end, left		Travel compensation	Deviation	Variation	Shaft straightness	Nut O.D. eccentricity					Flange perpendicularity			
W	X	Y	Z		Q	$L_1$	$d_2$	$L_1$											$L_2$	$d_3$	$L_3$
61	6.6	11	6.5	M6×1	32.3	40	250	29.4	200	50	650	-0.009	0.025	0.020	0.060	0.015	0.011	4.6	2180	22	11
									250	100	950	-0.013	0.030	0.023	0.075			6.4			
									300	100	1600	-0.021	0.040	0.027	0.090			8.1			
									300	100	2000	-0.028	0.046	0.030	0.120			10.2			
									300	100	2000	-0.037	0.054	0.035	0.150			12.6			
70	9	14	8.5	M6×1	32.3	60	250	27.1	250	100	850	-0.010	0.027	0.020	0.075	0.019	0.013	6.2	2180	23	12
									250	100	1050	-0.015	0.035	0.025	0.090			7.3			
									300	100	1400	-0.022	0.040	0.027	0.120			9.3			
									350	120	1870	-0.032	0.054	0.035	0.150			11.9			
									350	120	2270	-0.041	0.065	0.040	0.200			14.1			



Nut type code: ZFT

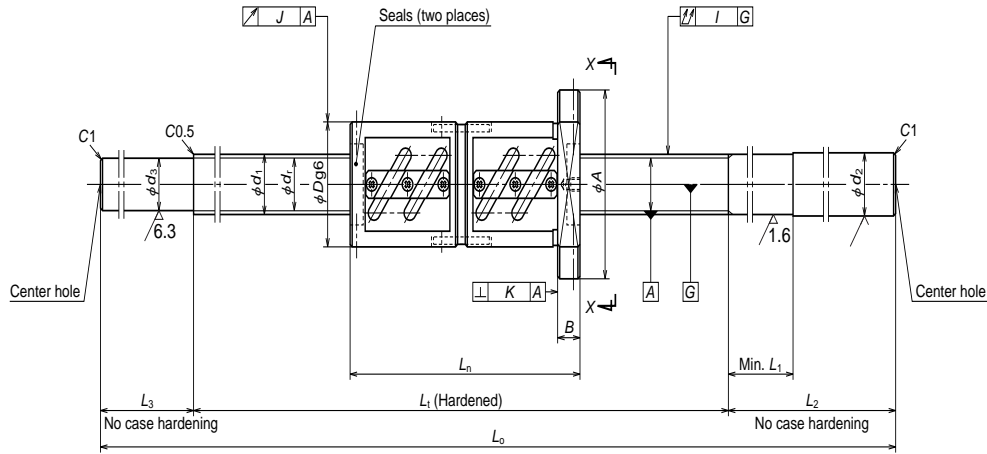


Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns × Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic C <sub>3</sub>	Static C <sub>03</sub>			Flange				Overall length L <sub>n</sub>
												Outside dia. D	A	G	B	
W3205SS-1Z-C5Z10	400	32	10	6.350	33	26.4	2.5×1	25500	54000	1960	50	74	108	41	15	100
W3207SS-1Z-C5Z10	600															
W3210SS-4Z-C5Z10	900															
W3214SS-1Z-C5Z10	1300															
W3218SS-1Z-C5Z10	1700															
W3607SS-1Z-C5Z10	597	36	10	6.350	37	30.4	2.5×1	27200	61300	2060	56	75	120	45	18	103
W3612SS-1Z-C5Z10	1097															
W3620SS-1Z-C5Z10	1897															
W4006SS-1Z-C5Z5	511	40	5	3.175	40.5	37.2	2.5×2	20200	70600	1420	28.5	67	101	39	15	89
W4010SS-1Z-C5Z5	911															
W4016SS-1Z-C5Z5	1511															

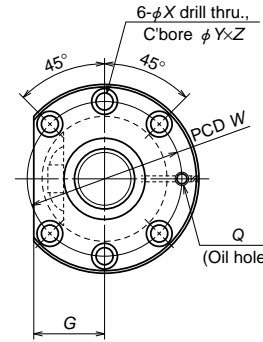
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d·n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed N (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )				
Bolt hole		Oil hole		Threaded length L <sub>1</sub>	Shaft end, right		Shaft end, left		Travel compensation T	Deviation e <sub>p</sub>	Variation v <sub>u</sub>	Shaft straightness I	Nut O.D. eccentricity J					Flange perpendicularity K			
W	X	Y	Z		Q	L <sub>2</sub>	d <sub>3</sub>	L <sub>3</sub>											L <sub>o</sub>		
90	9	14	8.5	M6×1	32.3	60	26.4	250	100	850	-0.012	0.027	0.020	0.075	0.019	0.013	10.5	2180	22	11	
								700	100	1050	-0.017	0.035	0.025	0.090							8.5
								1000	100	1400	-0.024	0.040	0.027	0.120							13.1
								1400	120	1870	-0.034	0.054	0.035	0.150							15.2
								1800	120	2270	-0.043	0.065	0.040	0.200							15.2
98	11	17.5	11	M6×1	36.3	60	30.4	700	100	1100	-0.017	0.035	0.025	0.065	0.019	0.013	14.9	1940	27	14	
								1200	120	1670	-0.029	0.046	0.030	0.100							20.4
								2000	120	2470	-0.048	0.065	0.040	0.130							20.4
83	9	14	8.5	Rc1/8	40.3	50	37.2	300	100	1000	-0.014	0.030	0.023	0.050	0.019	0.013	11.1	1750	14	7.0	
								1000	1400	-0.024	0.040	0.027	0.080	14.8							
								1600	2050	-0.038	0.054	0.035	0.130	20.8							



Nut type code: DFT



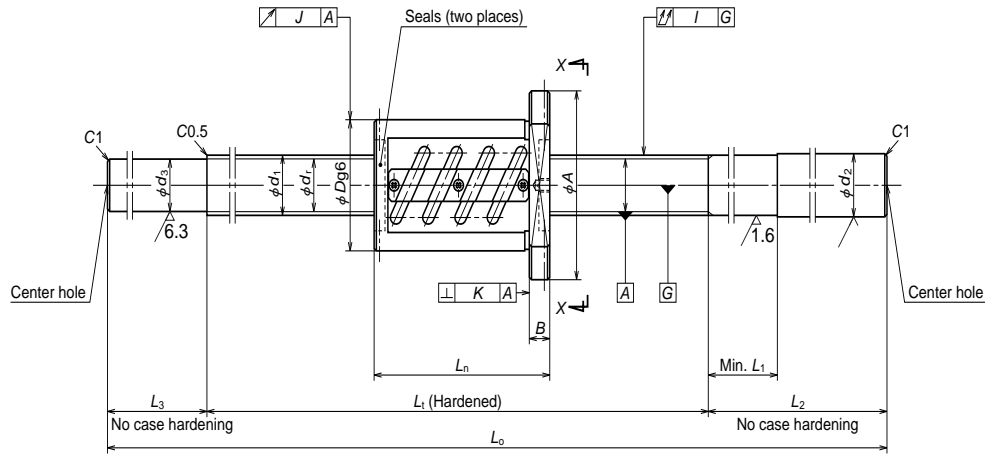
View X-X

Ball screw No.	Stroke Max. L <sub>1</sub> -L <sub>n</sub>	Screw shaft dia. d <sub>1</sub>	Lead I	Ball dia. D <sub>w</sub>	Ball circle dia. d <sub>m</sub>	Root dia. d <sub>r</sub>	Effective ball turns × Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic C <sub>a</sub>	Static C <sub>0a</sub>			Flange				Overall length L <sub>n</sub>
												Outside dia. D	A	G	B	
W3205SS-2D-C5Z10	310	32	10	6.350	33	26.4	2.5×2	46300	108000	3240	83	74	108	41	15	190
W3207SS-2D-C5Z10	510															
W3210SS-5D-C5Z10	810															
W3214SS-2D-C5Z10	1210															
W3218SS-2D-C5Z10	1610															
W3607SS-2D-C5Z10	507	36	10	6.350	37	30.4	2.5×2	49300	123000	3430	93	75	120	45	18	193
W3612SS-2D-C5Z10	1007															
W3620SS-2D-C5Z10	1807															

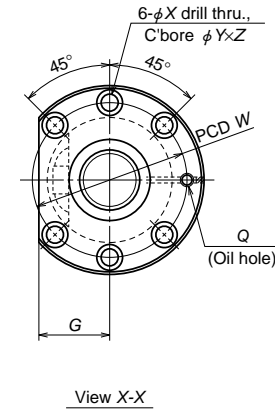
- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d·n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )			
Bolt hole		Oil hole		Threaded length	Shaft end, right		Shaft end, left		Travel compensation	Deviation	Variation	Shaft straightness	Nut O.D. eccentricity					Flange perpendicularity		
W	X	Y	Z	Q	L <sub>1</sub>	d <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>											d <sub>3</sub>	L <sub>3</sub>
90	9	14	8.5	M6×1	32.3	60	300	26.4	100	850	-0.012	0.027	0.020	0.075	0.019	0.013	9.5	2180	57	29
									700	1050	-0.017	0.035	0.025	0.090			10.6			
									1000	1400	-0.024	0.040	0.027	0.120			12.5			
									350	1870	-0.034	0.054	0.035	0.150			15.1			
									1800	2270	-0.043	0.065	0.040	0.200			17.2			
98	11	17.5	11	M6×1	36.3	60	350	30.4	100	1100	-0.017	0.035	0.025	0.065	0.019	0.013	12.8	1940	67	34
									1200	1670	-0.029	0.046	0.030	0.100			16.8			
									2000	2470	-0.048	0.065	0.040	0.130			22.3			



Nut type code: ZFT

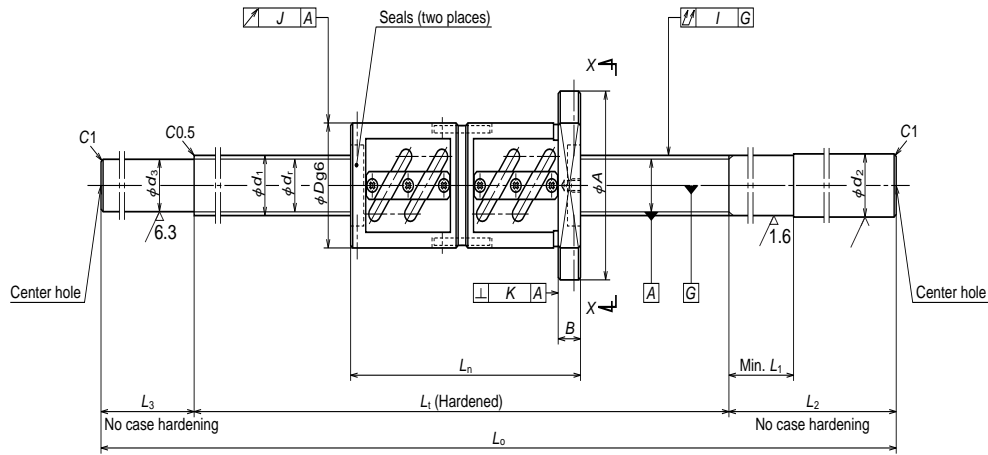


Unit: mm

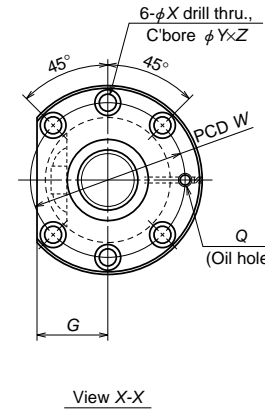
Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns $\times$ Circuits	Basic load rating (N)			Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$	Preload (N)		Flange			Overall length $L_n$	
												Outside dia. $D$	$A$	$G$		$B$
W4007SS-1Z-C5Z8	570	40	8	4.762	40.5	35.5	2.5×2	34900	103000	2450	64	74	108	41	15	130
W4012SS-1Z-C5Z8	1070															
W4018SS-1Z-C5Z8	1670															
W4007SS-2Z-C5Z10	597	40	10	6.350	41	34.4	2.5×1	28600	68600	2160	64	82	124	47	18	103
W4010SS-2Z-C5Z10	897															
W4014SS-1Z-C5Z10	1297															
W4018SS-2Z-C5Z10	1697	40	12	7.144	41.5	34.1	2.5×1	33600	77500	2550	83	86	128	48	18	117
W4024SS-1Z-C5Z10	2297															
W4010SS-4Z-C5Z12	883															
W4016SS-2Z-C5Z12	1483	40	12	7.144	41.5	34.1	2.5×1	33600	77500	2550	83	86	128	48	18	117
W4025SS-1Z-C5Z12	2383															

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )					
Bolt hole		Oil hole		Threaded length $L_1$	Shaft end, right		Shaft end, left		Travel compensation $T$	Deviation $e_p$	Variation $v_u$	Shaft straightness $I$	Nut O.D. eccentricity $J$					Flange perpendicularity $K$				
$W$	$X$	$Y$	$Z$		$Q$	$d_2$	$L_1$	$L_2$											$d_3$	$L_3$	$L_0$	
90	9	14	8.5	Rc1/8	700	40.3	50	300	100	1100	-0.017	0.035	0.025	0.065	0.019	0.013	13.0	1750	27	14		
					1200			350	35.5	100	1650	-0.029	0.046	0.030							0.100	18.0
					1800			350	120	2270	-0.043	0.065	0.040	0.130							23.5	
102	11	17.5	11	Rc1/8	700	40.3	60	300	100	1100	-0.017	0.035	0.025	0.065	0.025	0.015	20.0	1750	30	15		
					1000			300	100	1400	-0.024	0.040	0.027	0.080							15.9	
					1400			350	34.4	120	1870	-0.034	0.054	0.035							0.100	23.4
					1800			350	120	2270	-0.043	0.065	0.040	0.130							29.4	
106	11	17.5	11	Rc1/8	1000	40.3	70	300	100	1400	-0.024	0.040	0.027	0.080	0.025	0.015	16.7	1750	35	18		
					1600			350	34.1	150	2100	-0.038	0.054	0.035							0.130	22.9
					2500			400	150	3050	-0.060	0.077	0.046	0.170							31.1	



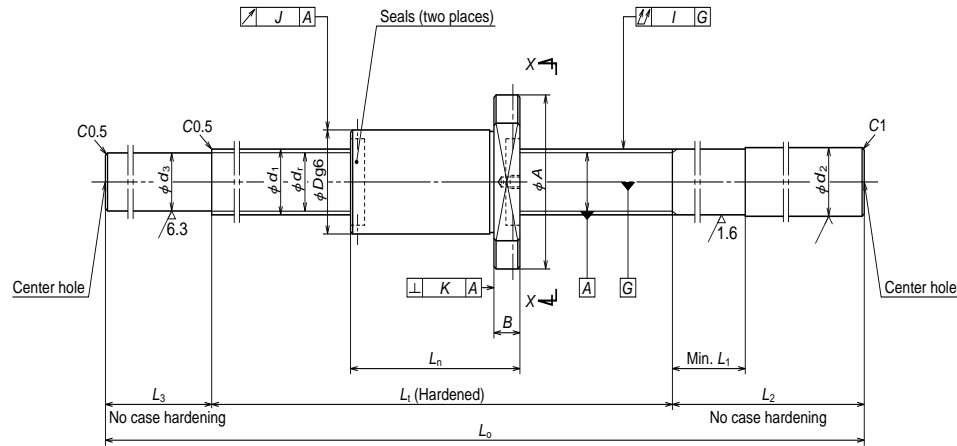
Nut type code: DFT



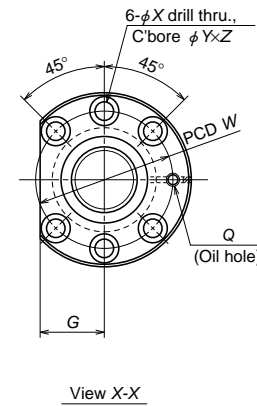
Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns × Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$			Outside dia. $D$	Flange			Overall length $L_n$
													$A$	$G$	$B$	
W4007SS-3D-C5Z10	507	40	10	6.350	41	34.4	2.5×2	52000	137000	3630	108	82	124	47	18	193
W4010SS-3D-C5Z10	807															
W4014SS-2D-C5Z10	1207															
W4018SS-3D-C5Z10	1607															
W4024SS-2D-C5Z10	2207															
W4010SS-5D-C5Z12	775	40	12	7.144	41.5	34.1	2.5×2	61000	155000	4310	138	86	128	48	18	225
W4016SS-3D-C5Z12	1375															
W4025SS-2D-C5Z12	2275															

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d·n value and a critical speed. See page B383 and B51.

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )				
Bolt hole		Oil hole	Threaded length	Shaft end, right		Shaft end, left		Travel compensation	Deviation	Variation	Shaft straightness	Nut O.D. eccentricity	Flange perpendicularity								
W	X			Y	Z	$L_1$	$L_2$											$d_3$	$L_3$	$L_o$	$T$
102	11	17.5	11	Rc1/8	700	40.3	60	300	34.4	100	1100	-0.017	0.035	0.025	0.065	0.025	0.015	15.5	1750	74	37
					1000			300		100	1400	-0.024	0.040	0.027	0.080			18.1			
					1400			350		120	1870	-0.034	0.054	0.035	0.100			22.2			
					1800			350		120	2270	-0.043	0.065	0.040	0.130			25.6			
					2400			400		150	2950	-0.058	0.077	0.046	0.170			31.6			
106	11	17.5	11	Rc1/8	1000	40.3	70	300	34.1	100	1400	-0.024	0.040	0.027	0.080	0.025	0.015	19.7	1750	93	47
					1600			350		150	2100	-0.038	0.054	0.035	0.130			25.8			
					2500			400		150	3050	-0.060	0.077	0.046	0.170			34.0			



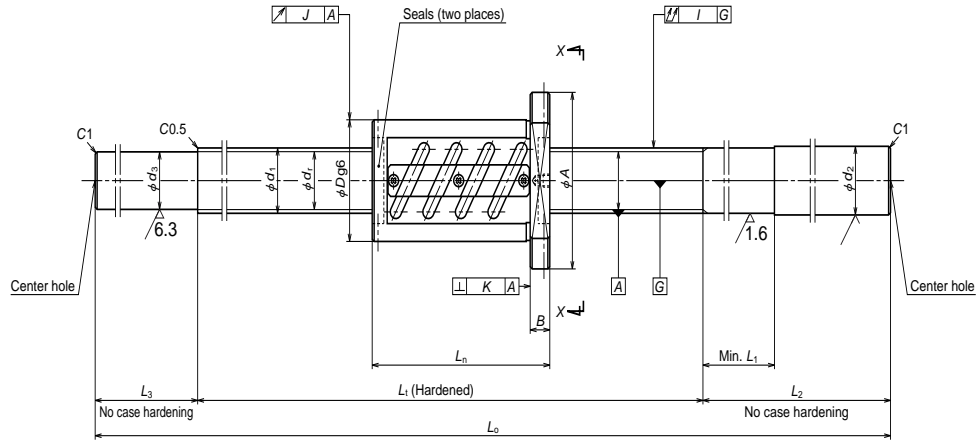
Nut type code: ZFD



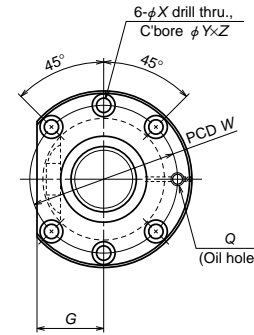
Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns	Basic load rating (N)			Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$	Preload (N)		Outside dia. $D$	Flange			Overall length $L_n$
													$A$	$G$	$B$	
W4007SS-4ZY-C5Z10	557	40	10	6.350	41.75	35.1	4	38400	93300	2840	83	62	104	40	18	143
W4010SS-6ZY-C5Z10	857															
W4014SS-3ZY-C5Z10	1257															
W4018SS-4ZY-C5Z10	1657															
W4024SS-3ZY-C5Z10	2257															
W5007SS-1ZY-C5Z10	557	50	10	6.350	51.75	45.1	4	43600	122000	3240	108	72	114	44	18	143
W5010SS-3ZY-C5Z10	857															
W5015SS-3ZY-C5Z10	1357															
W5020SS-3ZY-C5Z10	1857															
W5026SS-3ZY-C5Z10	2457															

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d·n value and a critical speed. See page B383 and B51.

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )					
Bolt hole		Oil hole		Threaded length $L_1$	Shaft end, right		Shaft end, left		Travel compensation $T$	Deviation $e_p$	Variation $v_u$	Shaft straightness $I$	Nut O.D. eccentricity $J$					Flange perpendicularity $K$				
$W$	$X$	$Y$	$Z$		$Q$	$d_2$	$L_1$	$L_2$											$d_3$	$L_3$	$L_o$	
82	11	17.5	11	Rc1/8	700	40.3	60	35.1	100	1100	-0.015	0.035	0.025	0.065	0.019	0.013	12.1	1750	32	16		
					1000				300	100	1400	-0.022	0.040	0.027							0.080	14.7
					1400				350	120	1870	-0.032	0.054	0.035							0.100	18.9
					1800				400	150	2270	-0.041	0.065	0.040							0.130	22.5
92	11	17.5	11	Rc1/8	700	50.3	60	45.1	100	1100	-0.015	0.035	0.025	0.065	0.019	0.013	18.3	1400	39	20		
					1000				300	100	1400	-0.022	0.040	0.027							0.080	22.5
					1500				400	150	2050	-0.034	0.054	0.035							0.130	31.8
					2000				400	150	2550	-0.046	0.065	0.040							0.170	38.9
					2600			200	3300	-0.060	0.093	0.054	0.220			49.5						



Nut type code: ZFT



View X-X

Ball screw No.	Stroke Max. $L_1-L_n$	Screw shaft dia. $d_1$	Lead $I$	Ball dia. $D_w$	Ball circle dia. $d_m$	Root dia. $d_r$	Effective ball turns $\times$ Circuits	Basic load rating (N)		Preload (N)	Dynamic friction torque, median (N·cm)	Nut				
								Dynamic $C_a$	Static $C_{0a}$			Outside dia. $D$	Flange			Overall length $L_n$
													$A$	$G$	$B$	
W4510SS-1Z-C5Z10	897	45	10	6.350	46	39.4	2.5×1	29900	77300	2260	69	88	132	50	18	103
W4516SS-1Z-C5Z10	1497															
W4525SS-1Z-C5Z10	2397															
W5010SS-1Z-C5Z10	897	50	10	6.350	51	44.4	2.5×1	31800	87400	2450	78	93	135	51	18	103
W5015SS-1Z-C5Z10	1397															
W5020SS-1Z-C5Z10	1897															
W5026SS-1Z-C5Z10	2497															
W5010SS-2Z-C5Z10	837	50	10	6.350	51	44.4	2.5×2	57700	175000	4020	138	93	135	51	18	163
W5015SS-2Z-C5Z10	1337															
W5020SS-2Z-C5Z10	1837															
W5026SS-2Z-C5Z10	2437															

- Remarks: 1. NSK support unit is recommended. Refer to Page B433 for details.  
 2. Only rust preventive agent is applied at time of delivery. Please apply lubricant (oil or grease) before use. Refer to Page D13 for details.  
 3. Permissible rotational speed is determined by a d-n value and a critical speed. See page B383 and B51.

Unit: mm

dimensions				Screw shaft dimensions				Lead accuracy			Run out			Mass (kg)	Permissible rotational speed (min <sup>-1</sup> )	Internal spatial volume of nut (cm <sup>3</sup> )	Standard volume of grease replenishing (cm <sup>3</sup> )				
Bolt hole		Oil hole		Threaded length $L_1$	Shaft end, right		Shaft end, left		Travel compensation $T$	Deviation $e_p$	Variation $v_u$	Shaft straightness $I$	Nut O.D. eccentricity $J$					Flange perpendicularity $K$			
$W$	$X$	$Y$	$Z$		$Q$	$d_2$	$L_1$	$L_2$											$d_3$	$L_3$	$L_0$
110	11	17.5	11	Rc1/8	1000	45.3	60	300	39.4	100	1400	-0.024	0.040	0.027	0.080	0.025	0.015	19.7	1550	34	17
					1600			150		2150	-0.038	0.054	0.035	0.130	28.1						
					2500			150		3100	-0.060	0.077	0.046	0.170	38.8						
113	11	17.5	11	Rc1/8	1000	50.3	60	300	44.4	100	1400	-0.024	0.040	0.027	0.080	0.025	0.015	23.8	1400	37	19
					1500			150		2050	-0.036	0.054	0.035	0.130	32.9						
					2000			150		2550	-0.048	0.065	0.040	0.170	39.8						
					2600			150		3200	-0.062	0.093	0.054	0.220	48.9						
113	11	17.5	11	Rc1/8	1000	50.3	60	300	44.4	100	1400	-0.024	0.040	0.027	0.080	0.025	0.015	25.5	1400	59	30
					1500			150		2050	-0.036	0.054	0.035	0.130	34.6						
					2000			150		2550	-0.048	0.065	0.040	0.170	41.5						
					2400			150		3050	-0.060	0.087	0.054	0.210	48.4						
					2600			150		3200	-0.062	0.093	0.054	0.220	50.7						