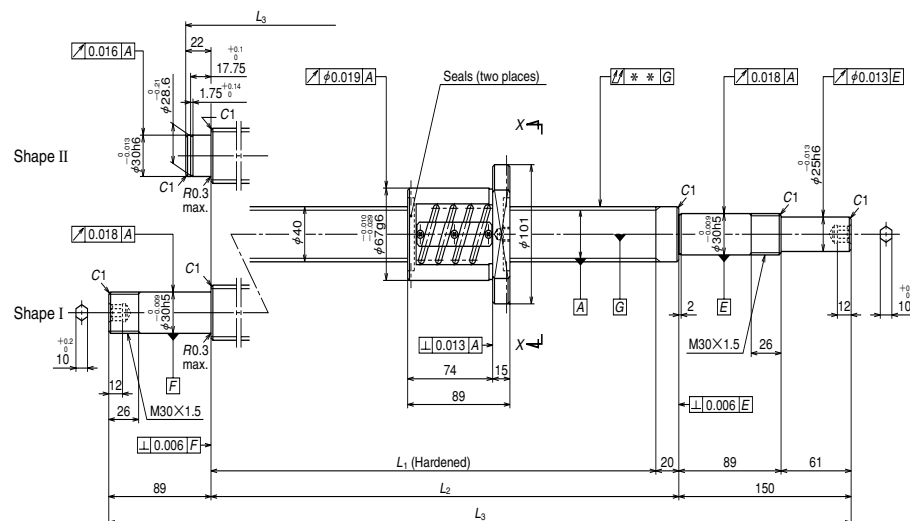
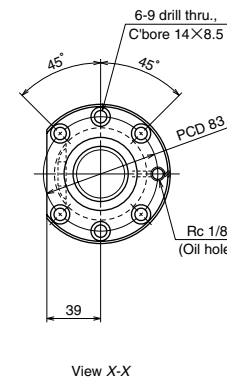


A Series: Finished shaft end

(Fine lead) Dia. 40, Lead 5


Nut models: ZFT
NSK
ϕ40×5


Unit: mm

Ball screw specifications		
Shaft dia. X Lead / Direction of turn	40 × 5 / Right	
Preload / Ball recirculation	Z preload / Return tube	
Ball dia. / Ball circle dia.	3.175 / 40.5	
Effective turns of balls	2.5 × 2	
Accuracy grade / Preload	C5 / Z	
Basic load rating (N)	Dynamic C_a	20200
	Static C_{0a}	70600
Preload (N)	1420	
Dynamic friction torque, median, (N · cm)	29.5	
Spacer ball	None	
Factory packed grease	Refer to Remarks 2.	
Internal spatial volume of nut (cm ³)	14	

B

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Unit: mm

Ball screw No.	Stroke		Screw shaft length		
	Nominal	Maximum (L_1 -Nut length)	L_1	L_2	L_3
W4005SA-1Z-C5Z5	450	491	580	600	772
W4007SA-1Z-C5Z5	650	691	780	800	1039
W4009SA-1Z-C5Z5	850	891	980	1000	1239
W4011SA-1Z-C5Z5	1050	1091	1180	1200	1439
W4015SA-1Z-C5Z5	1450	1491	1580	1600	1839

- Remarks
1. We recommend NSK support unit round type WBK30DF-31.
 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 $d \cdot n$ value and a critical speed. See page B509.
Root diameter of screw shaft (dr) is 37.2 mm.

Left side shaft end	Lead accuracy			Shaft run-out ** \downarrow	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	0.035	6.3	1750	—
II	-0.014	0.030	0.023	0.040	8.1	1750	—
I	-0.019	0.035	0.025	0.065	10.3	1750	1750
I	-0.024	0.040	0.027	0.065	12.2	1750	1750
I	-0.028	0.046	0.030	0.080	14.0	1750	1750
I	-0.038	0.054	0.035	0.100	17.7	1750	1750