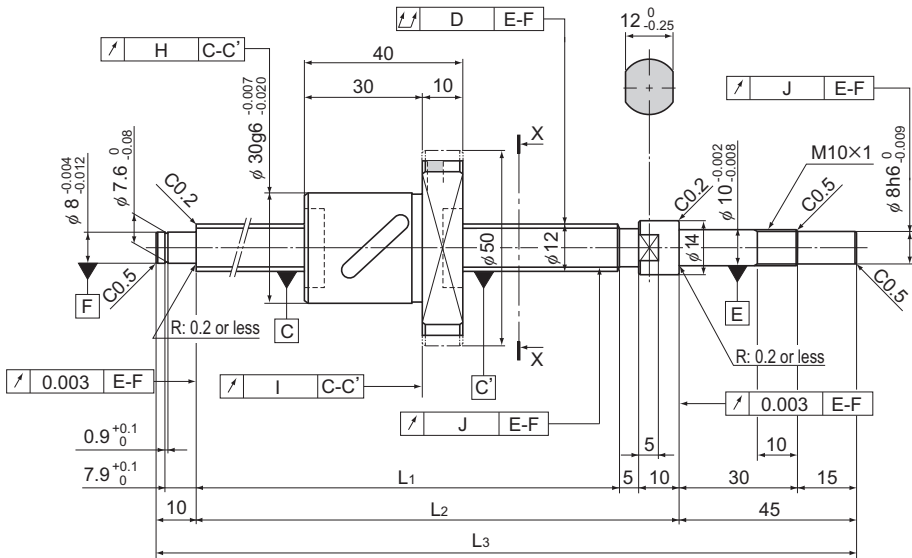


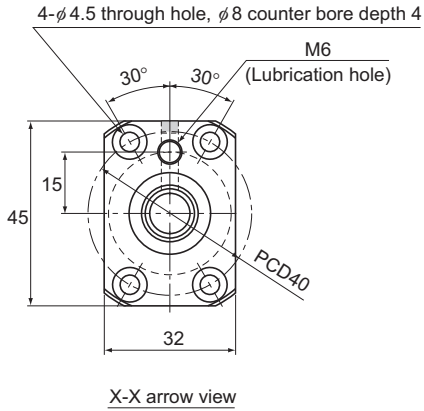
# BNK1205-2.5 Shaft Diameter: 12; Lead: 5

DN value	70,000
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Model No.	Stroke	Screw shaft length		
		L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
BNK 1205-2.5RRG0+180LC3Y	50	110	125	180
BNK 1205-2.5RRG0+180LC5Y				
BNK 1205-2.5RRG2+180LC7Y				
BNK 1205-2.5RRG0+230LC3Y	100	160	175	230
BNK 1205-2.5RRG0+230LC5Y				
BNK 1205-2.5RRG2+230LC7Y				
BNK 1205-2.5RRG0+280LC3Y	150	210	225	280
BNK 1205-2.5RRG0+280LC5Y				
BNK 1205-2.5RRG2+280LC7Y				
BNK 1205-2.5RRG0+330LC3Y	200	260	275	330
BNK 1205-2.5RRG0+330LC5Y				
BNK 1205-2.5RRG2+330LC7Y				
BNK 1205-2.5RRG0+380LC3Y	250	310	325	380
BNK 1205-2.5RRG0+380LC5Y				
BNK 1205-2.5RRG2+380LC7Y				

Note: For accuracy grades C3 and C5, GT clearance is also available as standard.



Ball screw specifications			
Lead (mm)	5		
BCD (mm)	12.3		
Thread minor diameter (mm)	9.6		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	2.5 turns $\times$ 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating $C_a$ (kN)	2.3	3.7	3.7
Basic static load rating $C_{0a}$ (kN)	3.2	6.4	6.4
Preload torque (N·m)	$9.8 \times 10^3$ to $4.9 \times 10^2$	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/ $\mu$ m)	60	120	
Circulation method	Return pipe		

Unit: mm

	Runout of the screw shaft axis D	Runout of the nut circumference H	Flange mounting surface runout I	Runout of the thread groove surface J	Lead angle accuracy		Nut mass kg	Shaft mass kg/m	Permissible rotational speed min <sup>-1</sup>
					Representative travel distance error	Fluctuation			
	0.02	0.009	0.008	0.008	$\pm 0.01$	0.008	0.22	0.61	5,000
	0.035	0.012	0.01	0.011	$\pm 0.02$	0.018	0.22	0.61	5,000
	0.04	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.22	0.61	5,000
	0.03	0.009	0.008	0.008	$\pm 0.01$	0.008	0.22	0.61	5,000
	0.04	0.012	0.01	0.011	$\pm 0.02$	0.018	0.22	0.61	5,000
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.22	0.61	5,000
	0.03	0.009	0.008	0.008	$\pm 0.012$	0.008	0.22	0.61	5,000
	0.04	0.012	0.01	0.011	$\pm 0.023$	0.018	0.22	0.61	5,000
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.22	0.61	5,000
	0.04	0.009	0.008	0.008	$\pm 0.012$	0.008	0.22	0.61	5,000
	0.05	0.012	0.01	0.011	$\pm 0.023$	0.018	0.22	0.61	5,000
	0.065	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.22	0.61	5,000
	0.04	0.009	0.008	0.008	$\pm 0.012$	0.008	0.22	0.61	5,000
	0.05	0.012	0.01	0.011	$\pm 0.023$	0.018	0.22	0.61	5,000
	0.065	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.22	0.61	5,000