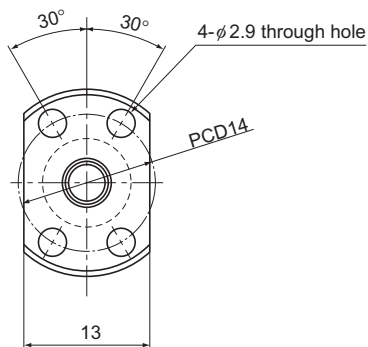


Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	1		
BCD (mm)	4.15		
Thread minor diameter (mm)	3.4		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	0.29	0.29	0.29
Basic static load rating C _{0a} (kN)	0.42	0.42	0.42
Preload torque (N·m)	to 9.8×10^{-3}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	35		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.015	0.009	0.008	0.008	±0.008	0.008	0.01	0.07
	0.025	0.012	0.01	0.01	±0.018	0.018	0.01	0.07
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.01	0.07
	0.02	0.009	0.008	0.008	±0.008	0.008	0.01	0.07
	0.025	0.012	0.01	0.01	±0.018	0.018	0.01	0.07
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.01	0.07
	0.025	0.009	0.008	0.008	±0.008	0.008	0.01	0.07
	0.035	0.012	0.01	0.01	±0.018	0.018	0.01	0.07
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.01	0.07

Ball Screw

Options⇒ A15-325

THK A15-137



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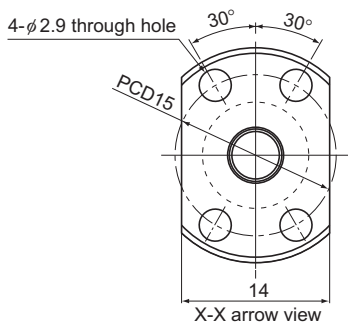
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	1		
BCD (mm)	5.15		
Thread minor diameter (mm)	4.4		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	0.32	0.32	0.32
Basic static load rating C_{0a} (kN)	0.55	0.55	0.55
Preload torque (N·m)	to 9.8×10^{-3}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	47		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.015	0.009	0.008	0.008	±0.008	0.008	0.012	0.11
	0.025	0.012	0.01	0.01	±0.018	0.018	0.012	0.11
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.012	0.11
	0.02	0.009	0.008	0.008	±0.008	0.008	0.012	0.11
	0.025	0.012	0.01	0.01	±0.018	0.018	0.012	0.11
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.012	0.11
	0.025	0.009	0.008	0.008	±0.008	0.008	0.012	0.11
	0.035	0.012	0.01	0.01	±0.018	0.018	0.012	0.11
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.012	0.11

Ball Screw

Options⇒ A15-325

THK A15-139



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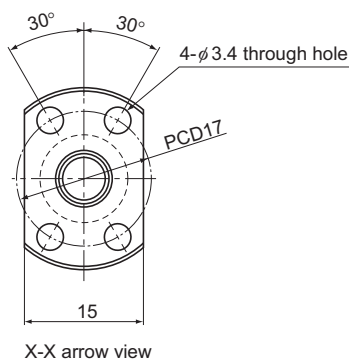
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	1		
BCD (mm)	6.2		
Thread minor diameter (mm)	5.3		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn $\times$ 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	0.54	0.54	0.54
Basic static load rating C_{0a} (kN)	0.94	0.94	0.94
Preload torque (N·m)	to 1.3×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/ μ m)	60		
Circulation method	Deflector		

Unit: mm

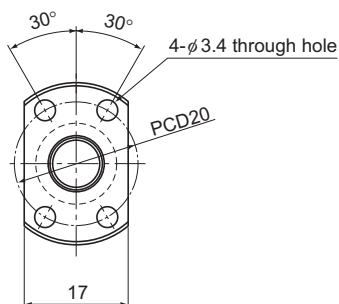
	Runout of the screw shaft axis D	Runout of the nut circumference H	Flange mounting surface runout I	Runout of the thread groove surface J	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
					Representative travel distance error	Fluctuation		
	0.015	0.009	0.008	0.008	± 0.008	0.008	0.017	0.14
	0.025	0.012	0.01	0.01	± 0.018	0.018	0.017	0.14
	0.035	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.017	0.14
	0.02	0.009	0.008	0.008	± 0.008	0.008	0.017	0.14
	0.035	0.012	0.01	0.01	± 0.018	0.018	0.017	0.14
	0.05	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.017	0.14
	0.025	0.009	0.008	0.008	± 0.01	0.008	0.017	0.14
	0.035	0.012	0.01	0.01	± 0.02	0.018	0.017	0.14
	0.05	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.017	0.14

Ball Screw

Options⇒ A15-325

THK A15-141

Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	1		
BCD (mm)	8.2		
Thread minor diameter (mm)	7.3		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	0.64	0.64	0.64
Basic static load rating C_{0a} (kN)	1.4	1.4	1.4
Preload torque (N·m)	to 1.8×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	80		
Circulation method	Deflector		

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
					Representative travel distance error	Fluctuation		
	0.025	0.009	0.008	0.008	±0.008	0.008	0.024	0.29
	0.025	0.012	0.01	0.01	±0.018	0.018	0.024	0.29
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.024	0.29
	0.03	0.009	0.008	0.008	±0.008	0.008	0.024	0.29
	0.035	0.012	0.01	0.01	±0.018	0.018	0.024	0.29
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.024	0.29
	0.03	0.009	0.008	0.008	±0.01	0.008	0.024	0.29
	0.035	0.012	0.01	0.01	±0.02	0.018	0.024	0.29
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.024	0.29
	0.035	0.009	0.008	0.008	±0.01	0.008	0.024	0.29
	0.05	0.012	0.01	0.01	±0.02	0.018	0.024	0.29
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.024	0.29

Ball Screw

Options⇒ A15-325

THK A15-143



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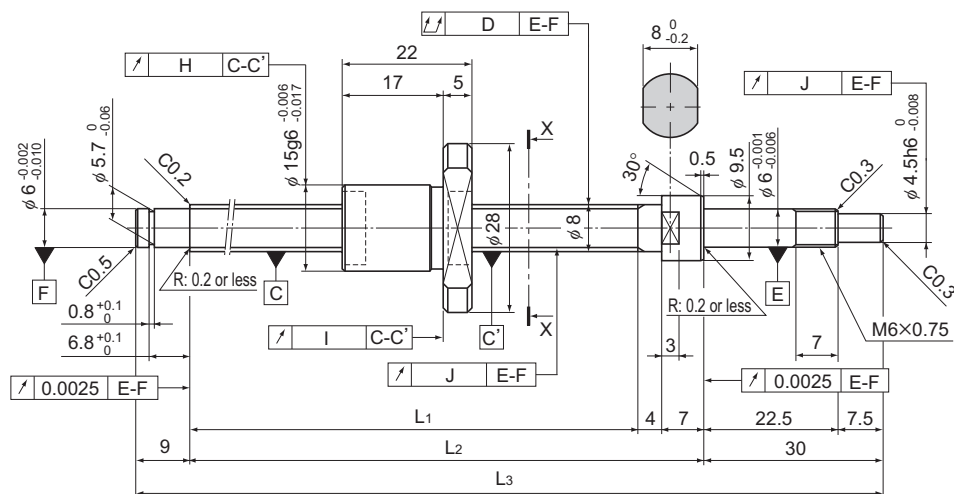
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BNK0802-3 Shaft diameter: 8; lead: 2

DN value

70000



Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 0802-3RRG0+125LC3Y	40	75	86	125
BNK 0802-3RRG0+125LC5Y				
BNK 0802-3RRG2+125LC7Y				
BNK 0802-3RRG0+155LC3Y	70	105	116	155
BNK 0802-3RRG0+155LC5Y				
BNK 0802-3RRG2+155LC7Y				
BNK 0802-3RRG0+185LC3Y	100	135	146	185
BNK 0802-3RRG0+185LC5Y				
BNK 0802-3RRG2+185LC7Y				
BNK 0802-3RRG0+235LC3Y	150	185	196	235
BNK 0802-3RRG0+235LC5Y				
BNK 0802-3RRG2+235LC7Y				

Note) A stainless steel type is also available for model BNK0802. When placing an order, add symbol "M" to the end of the model number.

(Example) BNK0802-3RRG0+125LC3Y M

Symbol for stainless steel type

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

A15-144 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>



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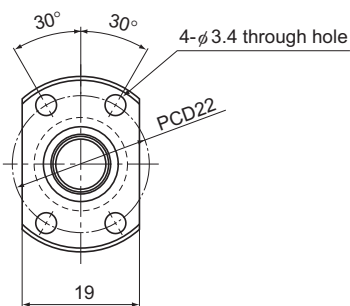
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Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	2		
BCD (mm)	8.3		
Thread minor diameter (mm)	7		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	1.4	1.4	1.4
Basic static load rating C_{0a} (kN)	2.3	2.3	2.3
Preload torque (N·m)	to 2×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	100		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass	Shaft mass
	D	H	I	J	Representative travel distance error	Fluctuation	kg	kg/m
	0.025	0.009	0.008	0.008	±0.008	0.008	0.034	0.27
	0.025	0.012	0.01	0.01	±0.018	0.018	0.034	0.27
	0.035	0.02	0.014	0.014	Travel distance: ±0.05/300		0.034	0.27
	0.03	0.009	0.008	0.008	±0.01	0.008	0.034	0.27
	0.035	0.012	0.01	0.01	±0.02	0.018	0.034	0.27
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.034	0.27
	0.03	0.009	0.008	0.008	±0.01	0.008	0.034	0.27
	0.035	0.012	0.01	0.01	±0.02	0.018	0.034	0.27
	0.05	0.02	0.014	0.014	Travel distance: ±0.05/300		0.034	0.27
	0.035	0.009	0.008	0.008	±0.01	0.008	0.034	0.27
	0.05	0.012	0.01	0.01	±0.02	0.018	0.034	0.27
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.034	0.27

Ball Screw

Options⇒ A15-325

THK A15-145



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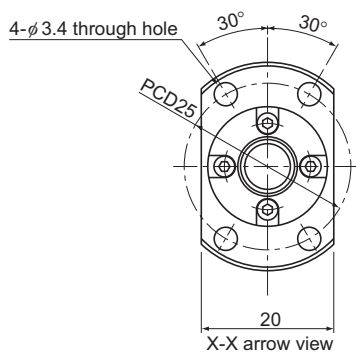
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Positioning Ball Screw



Ball Screw Specifications		
Lead (mm)	10	
BCD (mm)	8.4	
Thread minor diameter (mm)	6.7	
Threading direction, No. of threaded grooves	Rightward, 2	
No. of circuits	1.5 turns × 2 rows	
Clearance symbol	GT	G2
Axial clearance (mm)	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	2.16	2.16
Basic static load rating C _{0a} (kN)	3.82	3.82
Preload torque (N·m)	—	—
Spacer ball	None	None
Rigidity value (N/μm)	100	
Circulation method	End cap	

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass	Shaft mass
	D	H	I	J	Representative travel distance error	Fluctuation	kg	kg/m
	0.05	0.012	0.01	0.01	±0.02	0.018	0.049	0.30
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.049	0.30
	0.05	0.012	0.01	0.01	±0.023	0.018	0.049	0.30
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.049	0.30
	0.05	0.012	0.01	0.01	±0.023	0.018	0.049	0.30
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.049	0.30
	0.06	0.012	0.01	0.01	±0.023	0.018	0.049	0.30
	0.075	0.02	0.014	0.014	Travel distance: ±0.05/300		0.049	0.30
	0.07	0.012	0.01	0.01	±0.025	0.018	0.049	0.30
	0.09	0.02	0.014	0.014	Travel distance: ±0.05/300		0.049	0.30

Ball Screw

Options⇒ A15-325

THK A15-147



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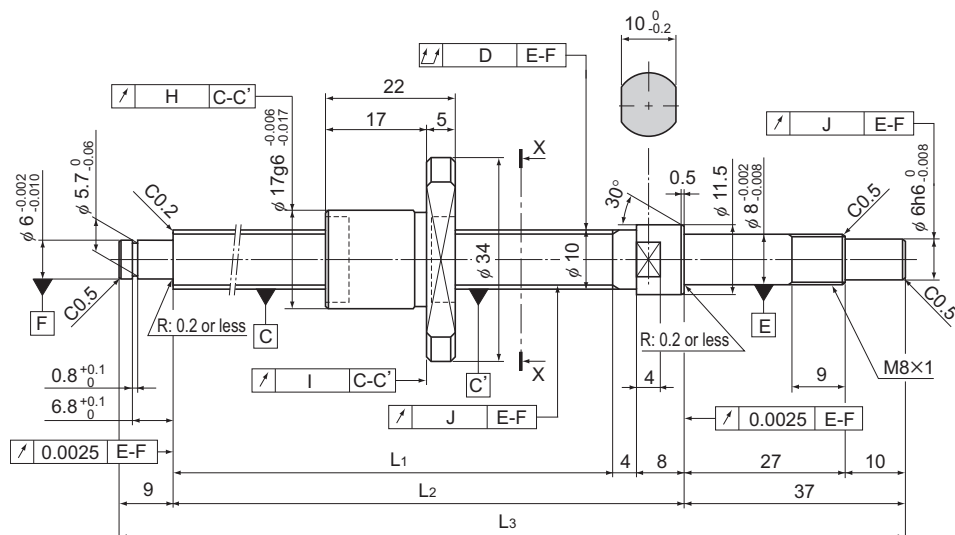
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BNK1002-3 Shaft diameter: 10; lead: 2

DN value

70000



Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 1002-3RRG0+143LC3Y	50	85	97	143
BNK 1002-3RRG0+143LC5Y				
BNK 1002-3RRG2+143LC7Y				
BNK 1002-3RRG0+193LC3Y	100	135	147	193
BNK 1002-3RRG0+193LC5Y				
BNK 1002-3RRG2+193LC7Y				
BNK 1002-3RRG0+243LC3Y	150	185	197	243
BNK 1002-3RRG0+243LC5Y				
BNK 1002-3RRG2+243LC7Y				
BNK 1002-3RRG0+293LC3Y	200	235	247	293
BNK 1002-3RRG0+293LC5Y				
BNK 1002-3RRG2+293LC7Y				

Note) A stainless steel type is also available for model BNK1002. When placing an order, add symbol "M" to the end of the model number.

(Example) BNK1002-3RRG0+143LC3Y M

Symbol for stainless steel type

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

A15-148 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>



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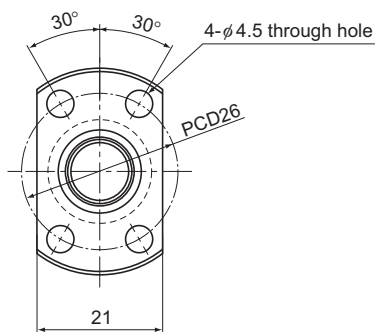
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Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	2		
BCD (mm)	10.3		
Thread minor diameter (mm)	9		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	1.5	1.5	1.5
Basic static load rating C_{0a} (kN)	2.9	2.9	2.9
Preload torque (N·m)	to 2.5×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	100		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
					Representative travel distance error	Fluctuation		
	0.02	0.009	0.008	0.007	±0.008	0.008	0.045	0.47
	0.035	0.012	0.01	0.011	±0.018	0.018	0.045	0.47
	0.04	0.02	0.014	0.014	Travel distance: ±0.05/300		0.045	0.47
	0.03	0.009	0.008	0.007	±0.01	0.008	0.045	0.47
	0.035	0.012	0.01	0.011	±0.02	0.018	0.045	0.47
	0.04	0.02	0.014	0.014	Travel distance: ±0.05/300		0.045	0.47
	0.03	0.009	0.008	0.007	±0.01	0.008	0.045	0.47
	0.04	0.012	0.01	0.011	±0.02	0.018	0.045	0.47
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.045	0.47
	0.03	0.009	0.008	0.007	±0.012	0.008	0.045	0.47
	0.04	0.012	0.01	0.011	±0.023	0.018	0.045	0.47
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.045	0.47

Ball Screw

Options⇒ A15-325

THK A15-149



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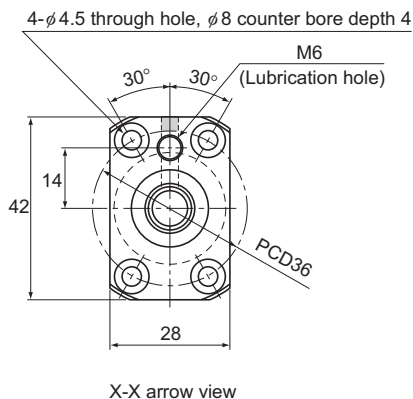
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	4		
BCD (mm)	10.5		
Thread minor diameter (mm)	7.8		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	2.5 turns × 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	2.1	3.4	3.4
Basic static load rating C _{0a} (kN)	2.7	5.4	5.4
Preload torque (N·m)	9.8×10 ⁻³ to 4.9×10 ⁻²	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	50	100	
Circulation method	Return pipe		

Unit: mm

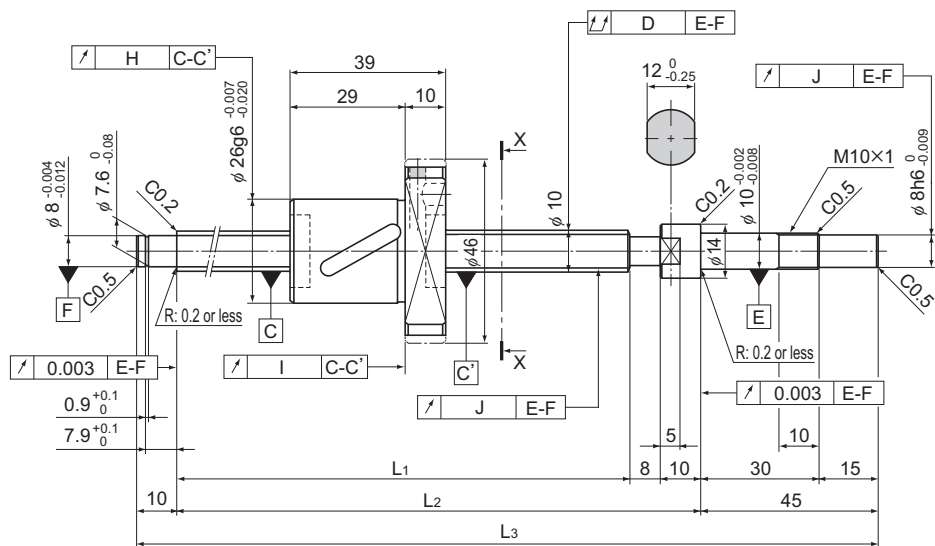
	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.02	0.009	0.008	0.008	±0.01	0.008	0.15	0.32
	0.035	0.012	0.01	0.011	±0.02	0.018	0.15	0.32
	0.04	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	0.32
	0.03	0.009	0.008	0.008	±0.01	0.008	0.15	0.32
	0.04	0.012	0.01	0.011	±0.02	0.018	0.15	0.32
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	0.32
	0.03	0.009	0.008	0.008	±0.012	0.008	0.15	0.32
	0.04	0.012	0.01	0.011	±0.023	0.018	0.15	0.32
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	0.32
	0.04	0.009	0.008	0.008	±0.012	0.008	0.15	0.32
	0.05	0.012	0.01	0.011	±0.023	0.018	0.15	0.32
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	0.32
	0.04	0.009	0.008	0.008	±0.012	0.008	0.15	0.32
	0.05	0.012	0.01	0.011	±0.023	0.018	0.15	0.32
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	0.32

Options⇒ A15-325

THK A15-151

BNK1010-1.5 Shaft diameter: 10; lead: 10

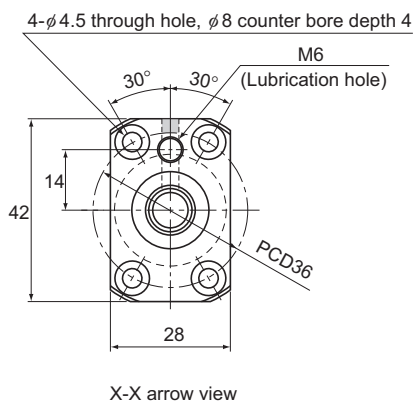
DN value	70000
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Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 1010-1.5RRG0+240LC5Y	100	167	185	240
BNK 1010-1.5RRG2+240LC7Y				
BNK 1010-1.5RRG0+290LC5Y	150	217	235	290
BNK 1010-1.5RRG2+290LC7Y				
BNK 1010-1.5RRG0+340LC5Y	200	267	285	340
BNK 1010-1.5RRG2+340LC7Y				
BNK 1010-1.5RRG0+390LC5Y	250	317	335	390
BNK 1010-1.5RRG2+390LC7Y				
BNK 1010-1.5RRG0+440LC5Y	300	367	385	440
BNK 1010-1.5RRG2+440LC7Y				

Note) For accuracy grade C5, clearance GT is also standardized.

Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	10		
BCD (mm)	10.5		
Thread minor diameter (mm)	7.8		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1.5 turns × 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	1.3	2.1	2.1
Basic static load rating C0a (kN)	1.6	3.1	3.1
Preload torque (N·m)	9.8×10 ⁻³ to 4.9×10 ⁻²	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	70	140	
Circulation method	Return pipe		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.04	0.012	0.01	0.011	± 0.02	0.018	0.17	0.5
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.17	0.5
	0.04	0.012	0.01	0.011	± 0.023	0.018	0.17	0.5
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.17	0.5
	0.05	0.012	0.01	0.011	± 0.023	0.018	0.17	0.5
	0.065	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.17	0.5
	0.05	0.012	0.01	0.011	± 0.025	0.02	0.17	0.5
	0.065	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.17	0.5
	0.065	0.012	0.01	0.011	± 0.025	0.02	0.17	0.5
	0.08	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.17	0.5

Ball Screw

Options⇒ A15-325

THK A15-153



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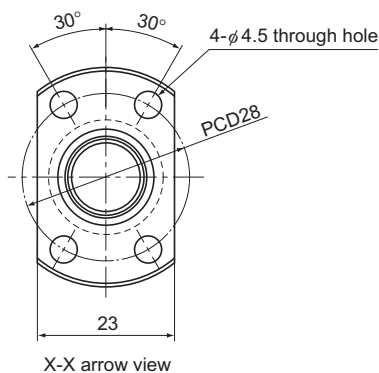
Košťany nad Turcom 543, 038 41 Košťany nad Turcom

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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	2		
BCD (mm)	12.3		
Thread minor diameter (mm)	11		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn $\times$ 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	1.7	1.7	1.7
Basic static load rating C_{0a} (kN)	3.6	3.6	3.6
Preload torque (N·m)	4.0×10^{-3} to 3.4×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/ μ m)	120		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.02	0.01	0.008	0.007	± 0.008	0.008	0.05	0.71
	0.035	0.012	0.01	0.011	± 0.018	0.018	0.05	0.71
	0.04	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.05	0.71
	0.03	0.01	0.008	0.007	± 0.01	0.008	0.05	0.71
	0.04	0.012	0.01	0.011	± 0.02	0.018	0.05	0.71
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.05	0.71
	0.03	0.01	0.008	0.007	± 0.01	0.008	0.05	0.71
	0.04	0.012	0.01	0.011	± 0.02	0.018	0.05	0.71
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.05	0.71
	0.04	0.01	0.008	0.007	± 0.012	0.008	0.05	0.71
	0.05	0.012	0.01	0.011	± 0.023	0.018	0.05	0.71
	0.055	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.05	0.71
	0.04	0.01	0.008	0.007	± 0.012	0.008	0.05	0.71
	0.05	0.012	0.01	0.011	± 0.023	0.018	0.05	0.71
	0.065	0.02	0.014	0.014	Travel distance: $\pm 0.05/300$		0.05	0.71

Ball Screw

Options $\Rightarrow$ A15-325

THK A15-155



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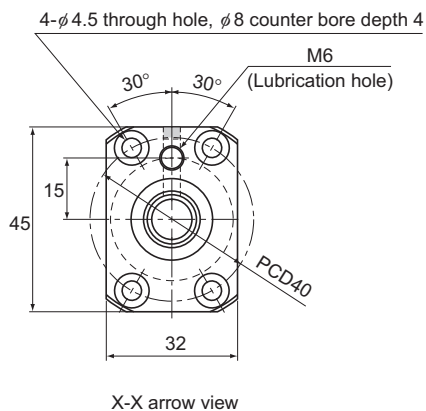
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Positioning Ball Screw



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 × 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	2.3	3.7	3.7
Basic static load rating C0a (kN)	3.2	6.4	6.4
Preload torque (N·m)	9.8×10 ⁻³ to 4.9×10 ⁻²	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	60	120	
Circulation method	Return pipe		

Unit: mm

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

Options⇒ A15-325

THK A15-157



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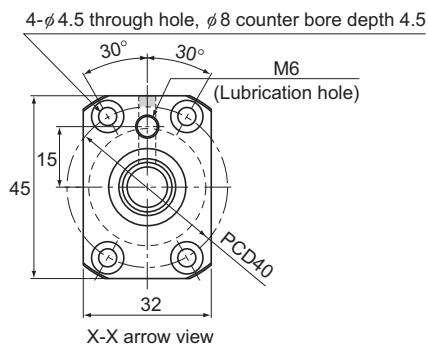
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Positioning Ball Screw



Ball Screw Specifications	
Lead (mm)	8
BCD (mm)	12.65
Thread minor diameter (mm)	9.7
Threading direction, No. of threaded grooves	Rightward, 1
No. of circuits	2.6 turns × 1 row
Clearance symbol	G2
Axial clearance (mm)	0.02 or less
Basic dynamic load rating C_a (kN)	4.7
Basic static load rating C_{0a} (kN)	7.5
Preload torque (N·m)	—
Spacer ball	None
Rigidity value (N/μm)	127
Circulation method	Return pipe

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy	Nut mass	Shaft mass
	D	H	I	J		kg	kg/m
	0.04	0.02	0.014	0.014	Travel distance: ±0.05/300	0.269	0.64
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300	0.269	0.64
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300	0.269	0.64
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300	0.269	0.64
	0.065	0.02	0.014	0.014	Travel distance: ±0.05/300	0.269	0.64

Ball Screw

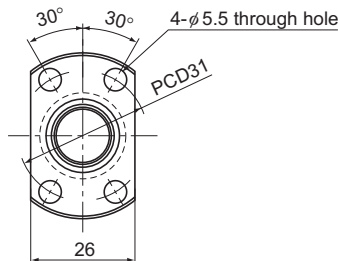
Options⇒ **A15-325****THK A15-159****HENNlich s.r.o.**

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Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	2		
BCD (mm)	14.3		
Thread minor diameter (mm)	13		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating C_a (kN)	1.8	1.8	1.8
Basic static load rating C_{0a} (kN)	4.3	4.3	4.3
Preload torque (N·m)	4.9×10^{-3} to 4.9×10^{-2}	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	140		
Circulation method	Deflector		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.02	0.01	0.008	0.009	±0.008	0.008	0.15	1.0
	0.025	0.012	0.01	0.012	±0.018	0.018	0.15	1.0
	0.04	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	1.0
	0.025	0.01	0.008	0.009	±0.01	0.008	0.15	1.0
	0.03	0.012	0.01	0.012	±0.02	0.018	0.15	1.0
	0.045	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	1.0
	0.025	0.01	0.008	0.009	±0.01	0.008	0.15	1.0
	0.03	0.012	0.01	0.012	±0.02	0.018	0.15	1.0
	0.045	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	1.0
	0.03	0.01	0.008	0.009	±0.012	0.008	0.15	1.0
	0.04	0.012	0.01	0.012	±0.023	0.018	0.15	1.0
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	1.0
	0.04	0.01	0.008	0.009	±0.013	0.01	0.15	1.0
	0.05	0.012	0.01	0.012	±0.025	0.02	0.15	1.0
	0.06	0.02	0.014	0.014	Travel distance: ±0.05/300		0.15	1.0

Ball Screw

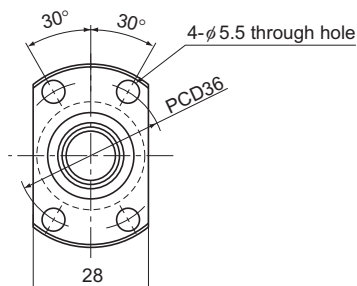
Options⇒ **A15-325****THK A15-161****HENNlich s.r.o.**

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Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	4		
BCD (mm)	14.65		
Thread minor diameter (mm)	12.2		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	1 turn × 3 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	4.2	4.2	4.2
Basic static load rating C _{0a} (kN)	7.6	7.6	7.6
Preload torque (N·m)	9.8 × 10 ⁻³ to 6.9 × 10 ⁻²	—	—
Spacer ball	None	None	None
Rigidity value (N/μm)	190		
Circulation method	Deflector		

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
					Representative travel distance error	Fluctuation		
	0.025	0.01	0.008	0.009	±0.01	0.008	0.13	0.8
	0.03	0.012	0.01	0.012	±0.02	0.018	0.13	0.8
	0.045	0.02	0.014	0.014	Travel distance: ±0.05/300		0.13	0.8
	0.025	0.01	0.008	0.009	±0.01	0.008	0.13	0.8
	0.03	0.012	0.01	0.012	±0.02	0.018	0.13	0.8
	0.045	0.02	0.014	0.014	Travel distance: ±0.05/300		0.13	0.8
	0.03	0.01	0.008	0.009	±0.012	0.008	0.13	0.8
	0.04	0.012	0.01	0.012	±0.023	0.018	0.13	0.8
	0.055	0.02	0.014	0.014	Travel distance: ±0.05/300		0.13	0.8
	0.04	0.01	0.008	0.009	±0.013	0.01	0.13	0.8
	0.05	0.012	0.01	0.012	±0.025	0.02	0.13	0.8
	0.06	0.02	0.014	0.014	Travel distance: ±0.05/300		0.13	0.8
	0.045	0.01	0.008	0.009	±0.015	0.01	0.13	0.8
	0.055	0.012	0.01	0.012	±0.027	0.02	0.13	0.8
	0.075	0.02	0.014	0.014	Travel distance: ±0.05/300		0.13	0.8

Ball Screw

Options⇒ A15-325

THK A15-163



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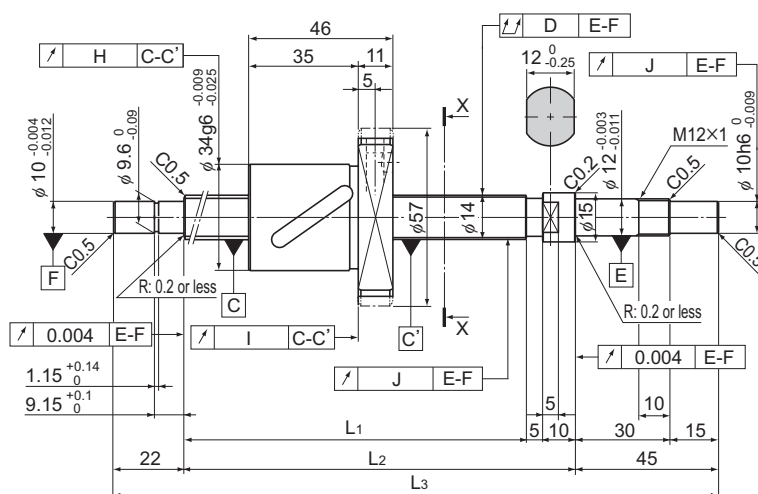
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BNK1408-2.5 Shaft diameter: 14; lead: 8

DN value

70000



Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 1408-2.5RRG0+321LC5Y	150	239	254	321
BNK 1408-2.5RRG2+321LC7Y				
BNK 1408-2.5RRG0+371LC5Y	200	289	304	371
BNK 1408-2.5RRG2+371LC7Y				
BNK 1408-2.5RRG0+421LC5Y	250	339	354	421
BNK 1408-2.5RRG2+421LC7Y				
BNK 1408-2.5RRG0+471LC5Y	300	389	404	471
BNK 1408-2.5RRG2+471LC7Y				
BNK 1408-2.5RRG0+521LC5Y	350	439	454	521
BNK 1408-2.5RRG2+521LC7Y				
BNK 1408-2.5RRG0+571LC5Y	400	489	504	571
BNK 1408-2.5RRG2+571LC7Y				
BNK 1408-2.5RRG0+621LC5Y	450	539	554	621
BNK 1408-2.5RRG2+621LC7Y				
BNK 1408-2.5RRG0+671LC5Y	500	589	604	671
BNK 1408-2.5RRG2+671LC7Y				
BNK 1408-2.5RRG0+721LC5Y	550	639	654	721
BNK 1408-2.5RRG2+721LC7Y				
BNK 1408-2.5RRG0+771LC5Y	600	689	704	771
BNK 1408-2.5RRG2+771LC7Y				
BNK 1408-2.5RRG0+871LC5Y	700	789	804	871
BNK 1408-2.5RRG2+871LC7Y				

Note) For accuracy grade C5, clearance GT is also standardized.
Plug the unused lubrication hole before using the product.

A15-164 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>



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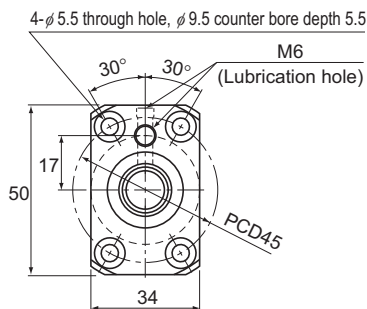
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Positioning Ball Screw



X-X arrow view

Ball Screw Specifications			
Lead (mm)	8		
BCD (mm)	14.75		
Thread minor diameter (mm)	11.2		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	2.5 turns × 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	4.3	6.9	6.9
Basic static load rating C _{0a} (kN)	5.8	11.5	11.5
Preload torque (N·m)	2×10^{-2} to 7.8×10^{-2}	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	80	150	
Circulation method	Return pipe		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
					Representative travel distance error	Fluctuation		
	D	H	I	J				
	0.035	0.015	0.011	0.012	±0.023	0.018	0.29	0.84
	0.055	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.035	0.015	0.011	0.012	±0.023	0.018	0.29	0.84
	0.055	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.04	0.015	0.011	0.012	±0.025	0.02	0.29	0.84
	0.06	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.04	0.015	0.011	0.012	±0.025	0.02	0.29	0.84
	0.06	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.05	0.015	0.011	0.012	±0.027	0.02	0.29	0.84
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.05	0.015	0.011	0.012	±0.027	0.02	0.29	0.84
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.05	0.015	0.011	0.012	±0.03	0.023	0.29	0.84
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.065	0.015	0.011	0.012	±0.03	0.023	0.29	0.84
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.065	0.015	0.011	0.012	±0.035	0.025	0.29	0.84
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.065	0.015	0.011	0.012	±0.035	0.025	0.29	0.84
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84
	0.085	0.015	0.011	0.012	±0.035	0.025	0.29	0.84
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.29	0.84

Ball Screw

Options⇒ A15-325

THK A15-165



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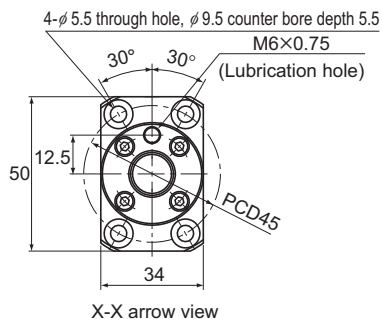
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	10		
BCD (mm)	15.75		
Thread minor diameter (mm)	12.5		
Threading direction, No. of threaded grooves	Rightward, 2		
No. of circuits	2.8 turns × 2 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	9	14.3	14.3
Basic static load rating C0a (kN)	13.9	27.9	27.9
Preload torque (N·m)	2×10^{-2} to 9.8×10^{-2}	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	190	350	
Circulation method	End cap		

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
					Representative travel distance error	Fluctuation		
	0.035	0.015	0.011	0.012	± 0.023	0.018	0.22	0.76
	0.055	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.035	0.015	0.011	0.012	± 0.023	0.018	0.22	0.76
	0.055	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.04	0.015	0.011	0.012	± 0.025	0.02	0.22	0.76
	0.06	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.04	0.015	0.011	0.012	± 0.025	0.02	0.22	0.76
	0.06	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.05	0.015	0.011	0.012	± 0.027	0.02	0.22	0.76
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.05	0.015	0.011	0.012	± 0.027	0.02	0.22	0.76
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.05	0.015	0.011	0.012	± 0.03	0.023	0.22	0.76
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.065	0.015	0.011	0.012	± 0.03	0.023	0.22	0.76
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.065	0.015	0.011	0.012	± 0.035	0.025	0.22	0.76
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.065	0.015	0.011	0.012	± 0.035	0.025	0.22	0.76
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.085	0.015	0.011	0.012	± 0.035	0.025	0.22	0.76
	0.12	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76
	0.085	0.015	0.011	0.012	± 0.04	0.027	0.22	0.76
	0.12	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.22	0.76

Options⇒ A15-325

THK A15-167



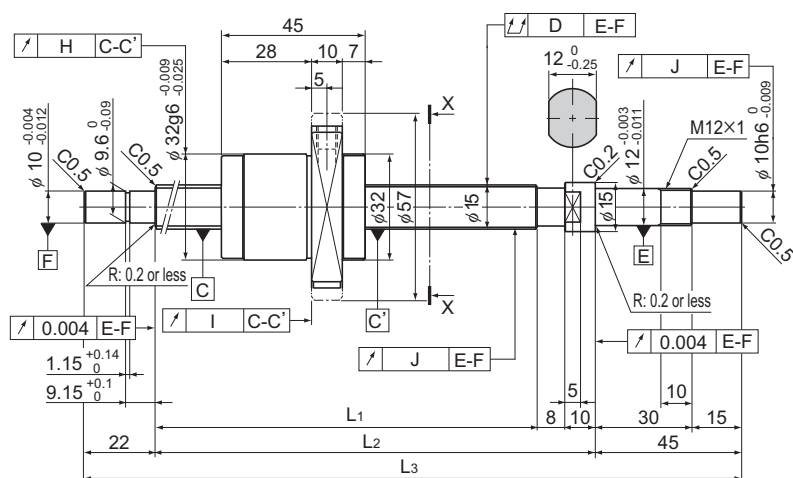
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E-mail: litech@hennlich.sk

www.hennlich.sk

BNK1520-3 Shaft diameter: 15; lead: 20**DN value****70000**

Model No.	Stroke	Screw shaft length		
		L_1	L_2	L_3
BNK 1520-3G0+321LC5Y	150	236	254	321
BNK 1520-3G2+321LC7Y				
BNK 1520-3G0+371LC5Y	200	286	304	371
BNK 1520-3G2+371LC7Y				
BNK 1520-3G0+421LC5Y	250	336	354	421
BNK 1520-3G2+421LC7Y				
BNK 1520-3G0+471LC5Y	300	386	404	471
BNK 1520-3G2+471LC7Y				
BNK 1520-3G0+521LC5Y	350	436	454	521
BNK 1520-3G2+521LC7Y				
BNK 1520-3G0+571LC5Y	400	486	504	571
BNK 1520-3G2+571LC7Y				
BNK 1520-3G0+621LC5Y	450	536	554	621
BNK 1520-3G2+621LC7Y				
BNK 1520-3G0+671LC5Y	500	586	604	671
BNK 1520-3G2+671LC7Y				
BNK 1520-3G0+721LC5Y	550	636	654	721
BNK 1520-3G2+721LC7Y				
BNK 1520-3G0+771LC5Y	600	686	704	771
BNK 1520-3G2+771LC7Y				
BNK 1520-3G0+871LC5Y	700	786	804	871
BNK 1520-3G2+871LC7Y				
BNK 1520-3G0+971LC5Y	800	886	904	971
BNK 1520-3G2+971LC7Y				

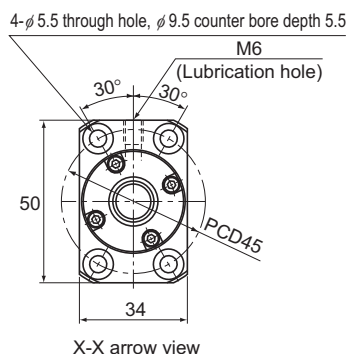
Note) For accuracy grade C5, clearance GT is also standardized.

A15-168 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>

Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	20		
BCD (mm)	15.75		
Thread minor diameter (mm)	12.5		
Threading direction, No. of threaded grooves	Rightward, 2		
No. of circuits	1.5 turns × 2 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	5.1	8	8
Basic static load rating C0a (kN)	7.9	15.8	15.8
Preload torque (N·m)	2×10 ⁻² to 8.8×10 ⁻²	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	110	200	
Circulation method	End cap		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
					Representative travel distance error	Fluctuation		
	D	H	I	J				
	0.035	0.015	0.011	0.012	± 0.023	0.018	0.32	1.05
	0.055	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.035	0.015	0.011	0.012	± 0.023	0.018	0.32	1.05
	0.055	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.04	0.015	0.011	0.012	± 0.025	0.02	0.32	1.05
	0.06	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.04	0.015	0.011	0.012	± 0.025	0.02	0.32	1.05
	0.06	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.05	0.015	0.011	0.012	± 0.027	0.02	0.32	1.05
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.05	0.015	0.011	0.012	± 0.027	0.02	0.32	1.05
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.05	0.015	0.011	0.012	± 0.03	0.023	0.32	1.05
	0.075	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.065	0.015	0.011	0.012	± 0.03	0.023	0.32	1.05
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.065	0.015	0.011	0.012	± 0.035	0.025	0.32	1.05
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.065	0.015	0.011	0.012	± 0.035	0.025	0.32	1.05
	0.09	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.085	0.015	0.011	0.012	± 0.035	0.025	0.32	1.05
	0.12	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05
	0.085	0.015	0.011	0.012	± 0.04	0.027	0.32	1.05
	0.12	0.03	0.018	0.014	Travel distance: $\pm 0.05/300$		0.32	1.05

Options $\Rightarrow$ A15-325

THK A15-169



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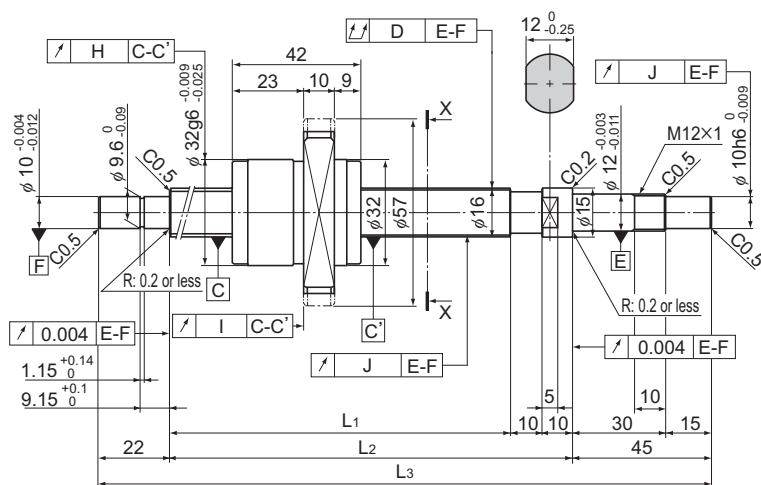
E-mail: litech@hennlich.sk

www.hennlich.sk

BNK1616-3.6 Shaft diameter: 16; lead: 16

DN value

70000



Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 1616-3.6G0+321LC5Y	150	234	254	321
BNK 1616-3.6G2+321LC7Y				
BNK 1616-3.6G0+371LC5Y	200	284	304	371
BNK 1616-3.6G2+371LC7Y				
BNK 1616-3.6G0+421LC5Y	250	334	354	421
BNK 1616-3.6G2+421LC7Y				
BNK 1616-3.6G0+471LC5Y	300	384	404	471
BNK 1616-3.6G2+471LC7Y				
BNK 1616-3.6G0+521LC5Y	350	434	454	521
BNK 1616-3.6G2+521LC7Y				
BNK 1616-3.6G0+571LC5Y	400	484	504	571
BNK 1616-3.6G2+571LC7Y				
BNK 1616-3.6G0+621LC5Y	450	534	554	621
BNK 1616-3.6G2+621LC7Y				
BNK 1616-3.6G0+671LC5Y	500	584	604	671
BNK 1616-3.6G2+671LC7Y				
BNK 1616-3.6G0+721LC5Y	550	634	654	721
BNK 1616-3.6G2+721LC7Y				
BNK 1616-3.6G0+771LC5Y	600	684	704	771
BNK 1616-3.6G2+771LC7Y				
BNK 1616-3.6G0+871LC5Y	700	784	804	871
BNK 1616-3.6G2+871LC7Y				
BNK 1616-3.6G0+971LC5Y	800	884	904	971
BNK 1616-3.6G2+971LC7Y				

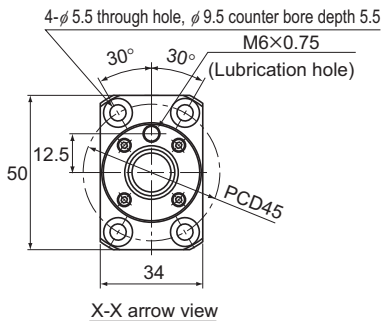
Note) For accuracy grade C5, clearance GT is also standardized.

A15-170 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>

Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	16		
BCD (mm)	16.65		
Thread minor diameter (mm)	13.7		
Threading direction, No. of threaded grooves	Rightward, 2		
No. of circuits	1.8 turns × 2 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	4.4	7.1	7.1
Basic static load rating C _{0a} (kN)	7.2	14.3	14.3
Preload torque (N·m)	2×10 ⁻² to 9.8×10 ⁻²	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	120	230	
Circulation method	End cap		

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
					Representative travel distance error	Fluctuation		
	0.035	0.015	0.011	0.012	±0.023	0.018	0.2	1.25
	0.055	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.035	0.015	0.011	0.012	±0.023	0.018	0.2	1.25
	0.055	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.04	0.015	0.011	0.012	±0.025	0.02	0.2	1.25
	0.06	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.04	0.015	0.011	0.012	±0.025	0.02	0.2	1.25
	0.06	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.05	0.015	0.011	0.012	±0.027	0.02	0.2	1.25
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.05	0.015	0.011	0.012	±0.027	0.02	0.2	1.25
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.05	0.015	0.011	0.012	±0.03	0.023	0.2	1.25
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.065	0.015	0.011	0.012	±0.03	0.023	0.2	1.25
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.065	0.015	0.011	0.012	±0.035	0.025	0.2	1.25
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.065	0.015	0.011	0.012	±0.035	0.025	0.2	1.25
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.085	0.015	0.011	0.012	±0.035	0.025	0.2	1.25
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25
	0.085	0.015	0.011	0.012	±0.04	0.027	0.2	1.25
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.2	1.25

Options⇒ A15-325

THK A15-171



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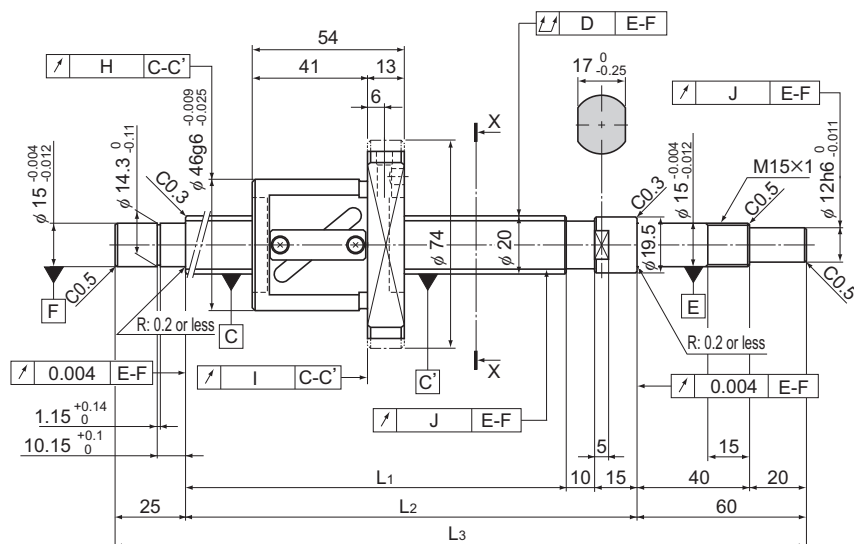
E-mail: lintech@hennlich.sk

www.hennlich.sk

BNK2010-2.5 Shaft diameter: 20; lead: 10

DN value

70000



Model No.	Stroke	Screw shaft length		
		L ₁	L ₂	L ₃
BNK 2010-2.5RRG0+499LC5Y	300	389	414	499
BNK 2010-2.5RRG2+499LC7Y				
BNK 2010-2.5RRG0+599LC5Y	400	489	514	599
BNK 2010-2.5RRG2+599LC7Y				
BNK 2010-2.5RRG0+699LC5Y	500	589	614	699
BNK 2010-2.5RRG2+699LC7Y				
BNK 2010-2.5RRG0+799LC5Y	600	689	714	799
BNK 2010-2.5RRG2+799LC7Y				
BNK 2010-2.5RRG0+899LC5Y	700	789	814	899
BNK 2010-2.5RRG2+899LC7Y				
BNK 2010-2.5RRG0+999LC5Y	800	889	914	999
BNK 2010-2.5RRG2+999LC7Y				
BNK 2010-2.5RRG0+1099LC5Y	900	989	1014	1099
BNK 2010-2.5RRG2+1099LC7Y				
BNK 2010-2.5RRG0+1199LC5Y	1000	1089	1114	1199
BNK 2010-2.5RRG2+1199LC7Y				
BNK 2010-2.5RRG0+1299LC5Y	1100	1189	1214	1299
BNK 2010-2.5RRG2+1299LC7Y				

Note) For accuracy grade C5, clearance GT is also standardized.
Plug the unused lubrication hole before using the product.

A15-172 THK

Download data by searching for the corresponding model number on the Technical Support site.

<https://tech.thk.com>



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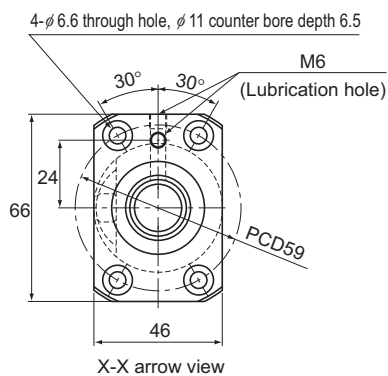
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	10		
BCD (mm)	21		
Thread minor diameter (mm)	16.4		
Threading direction, No. of threaded grooves	Rightward, 1		
No. of circuits	2.5 turns × 1 row		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	7	11.1	11.1
Basic static load rating C0a (kN)	11	22	22
Preload torque (N·m)	2×10^{-2} to 9.8×10^{-2}	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	110	210	
Circulation method	Return pipe		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.04	0.015	0.011	0.012	±0.025	0.02	0.58	1.81
	0.06	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.05	0.015	0.011	0.012	±0.027	0.02	0.58	1.81
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.065	0.015	0.011	0.012	±0.03	0.023	0.58	1.81
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.065	0.015	0.011	0.012	±0.035	0.025	0.58	1.81
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.085	0.015	0.011	0.012	±0.035	0.025	0.58	1.81
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.085	0.015	0.011	0.012	±0.04	0.027	0.58	1.81
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.11	0.015	0.011	0.012	±0.04	0.027	0.58	1.81
	0.15	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.11	0.015	0.011	0.012	±0.046	0.03	0.58	1.81
	0.15	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81
	0.15	0.015	0.011	0.012	±0.046	0.03	0.58	1.81
	0.19	0.03	0.018	0.014	Travel distance: ±0.05/300		0.58	1.81

Options⇒ A15-325

THK A15-173



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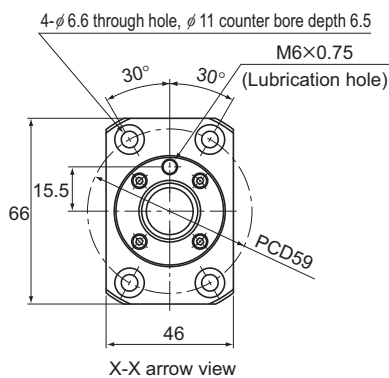
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Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	20		
BCD (mm)	20.75		
Thread minor diameter (mm)	17.5		
Threading direction, No. of threaded grooves	Rightward, 2		
No. of circuits	1.8 turns × 2 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	7	11.1	11.1
Basic static load rating C _{0a} (kN)	12.3	24.7	24.7
Preload torque (N·m)	2×10^{-2} to 9.8×10^{-2}	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	160	290	
Circulation method	End cap		

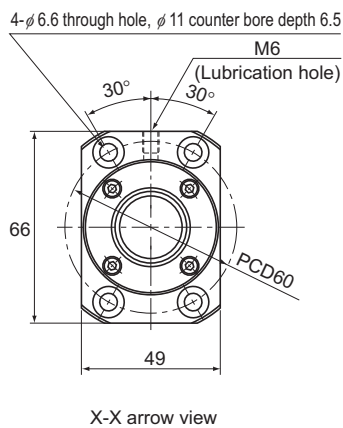
Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.05	0.015	0.011	0.012	±0.027	0.02	0.39	2.04
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.05	0.015	0.011	0.012	±0.03	0.023	0.39	2.04
	0.075	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.065	0.015	0.011	0.012	±0.03	0.023	0.39	2.04
	0.09	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.085	0.015	0.011	0.012	±0.035	0.025	0.39	2.04
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.085	0.015	0.011	0.012	±0.04	0.027	0.39	2.04
	0.12	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.11	0.015	0.011	0.012	±0.04	0.027	0.39	2.04
	0.15	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.11	0.015	0.011	0.012	±0.046	0.03	0.39	2.04
	0.15	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.11	0.015	0.011	0.012	±0.046	0.03	0.39	2.04
	0.15	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04
	0.15	0.015	0.011	0.012	±0.046	0.03	0.39	2.04
	0.19	0.03	0.018	0.014	Travel distance: ±0.05/300		0.39	2.04

Options⇒ A15-325

THK A15-175

Positioning Ball Screw



Ball Screw Specifications			
Lead (mm)	20		
BCD (mm)	26		
Thread minor diameter (mm)	21.9		
Threading direction, No. of threaded grooves	Rightward, 2		
No. of circuits	1.8 turns × 2 rows		
Clearance symbol	G0	GT	G2
Axial clearance (mm)	0	0.005 or less	0.02 or less
Basic dynamic load rating Ca (kN)	10.5	16.7	16.7
Basic static load rating C _{0a} (kN)	19	38	38
Preload torque (N·m)	4.9×10 ⁻² to 2.2×10 ⁻¹	—	—
Spacer ball	1 : 1	None	None
Rigidity value (N/μm)	190	360	
Circulation method	End cap		

Unit: mm

	Runout of the screw shaft axis	Runout of the nut circumference	Flange mounting surface runout	Runout of the thread groove surface	Lead angle accuracy		Nut mass kg	Shaft mass kg/m
	D	H	I	J	Representative travel distance error	Fluctuation		
	0.055	0.015	0.011	0.013	±0.03	0.023	0.53	3.03
	0.07	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.065	0.015	0.011	0.013	±0.035	0.025	0.53	3.03
	0.085	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.085	0.015	0.011	0.013	±0.04	0.027	0.53	3.03
	0.1	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.11	0.015	0.011	0.013	±0.046	0.03	0.53	3.03
	0.13	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.11	0.015	0.011	0.013	±0.054	0.035	0.53	3.03
	0.13	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.14	0.015	0.011	0.013	±0.054	0.035	0.53	3.03
	0.17	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03
	0.14	0.015	0.011	0.013	±0.065	0.04	0.53	3.03
	0.17	0.03	0.018	0.02	Travel distance: ±0.05/300		0.53	3.03

Options⇒ A15-325

THK A15-177