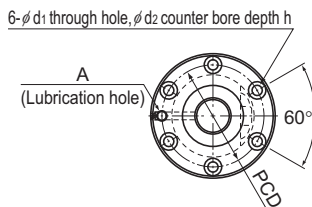


BIF (Unfinished Shaft Ends) With Preload

DN value	70,000
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Model No.	Ball screw specifications							Nut			
	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Outer diameter	Flange diameter	Overall length	
	d	Ph	dp	dc	Rows X turns	Ca kN	C·a kN	D	D _f	L ₁	H
BIF 1605-5	16	5	16.75	13.2	1×2.5	7.4	13.9	40	60	56	10
BIF 1810-3	18	10	18.8	15.5	1×1.5	5.1	9.6	42	65	75	12
BIF 2005-5	20	5	20.75	17.2	1×2.5	8.3	17.4	44	67	56	11
BIF 2505-5	25	5	25.75	22.2	1×2.5	9.2	22	50	73	55	11

Model number coding

BIF2005-5 RR G0 +610L C5 A

Model No.

Symbol for clearance
in the axial direction ²

Accuracy symbol ³

Unfinished shaft ends code (A or B)

Seal symbol¹

Overall screw shaft
length (in mm)

¹ See **A15-356**. ² See **A15-19**. ³ See **A15-12**.

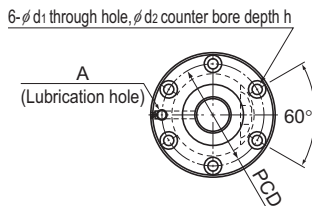


Ball Screw

BIF (Unfinished Shaft Ends) With Preload

DN value

70,000



Model No.	Ball screw specifications							Nut			
	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Outer diameter	Flange diameter	Overall length	
	d	Ph	dp	dc	Rows X turns	Ca kN	C·a kN	D	D _f	L ₁	H
BIF 2510A-5	25	10	26.3	21.4	1×2.5	15.8	33	58	85	100	18
BIF 2806-5 BIF 2806-10	28	6	28.75	25.2	1×2.5 2×2.5	9.6 17.5	24.6 49.4	55	85	68 104	12
BIF 3205-5 BIF 3205-10	32	5	32.75	29.2	1×2.5 2×2.5	10.2 18.5	28.1 56.4	58	85	56 86	12

Model number coding

BIF2806-10 RR G0 +1020L C5 A

Model No.

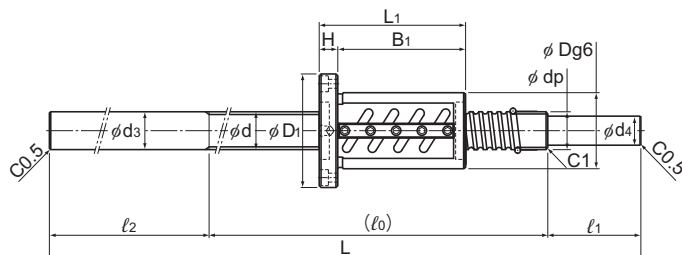
Symbol for clearance
in the axial direction ²Accuracy symbol ³

Unfinished shaft ends code (A or B)

Seal symbol¹Overall screw shaft
length (in mm)

¹ See **A15-356**. ² See **A15-19**. ³ See **A15-12**.

Positioning Ball Screw



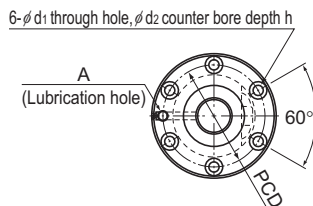
Unit: mm

Dimensions							Screw shaft dimensions							Nut mass	Shaft mass	Permissible rotational speed
	B ₁	PCD	d ₁	d ₂	h	Lubrication hole A	Stan- dardstock symbol	Overall length L	ℓ ₀	ℓ ₁	ℓ ₂	d ₃	d ₄			
	82	71	6.6	11	6.5	M6	A	620	400	60	160	25	20.3	1.87	2.68	2,660
								820	600							
								1,020	800							
								1,220	1,000							
								1,420	1,200							
	56 92	69	6.6	11	6.5	M6	A	520	300	60	160	28	20.3	1 1.57	3.89	2,430
								620	400							
								720	500							
								920	700							
								1,020	800							
								1,220	1,000							
								1,420	1,200							
							B	720	400	70	250 350 330	28	24.8			
								920	500							
								1,100	700							
	44 74	71	6.6	11	6.5	M6	A	730	500	70	160	32	25.3	0.87 1.32	5.03	2,130
								930	700							
								1,230	1,000							
								1,430	1,200							
								1,630	1,400							
								1,830	1,600							

Ball Screw

BIF (Unfinished Shaft Ends) With Preload

DN value	70,000
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Model No.	Ball screw specifications							Nut			
	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Outer diameter	Flange diameter	Overall length	H
	d	Ph	dp	dc	Rows X turns	Ca kN	C:a kN	D	D _f	L ₁	
BIF 3206-5 BIF 3206-10	32	6	33	28.4	1×2.5 2×2.5	13.9 25.2	35.2 70.4	62	89	63 99	12
BIF 3210A-5	32	10	33.75	26.4	1×2.5	26.1	56.2	74	108	100	15
BIF 3610-5 BIF 3610-10	36	10	37.75	30.5	1×2.5 2×2.5	27.6 50.1	63.3 126.4	75	120	111 171	18

Model number coding

BIF3206-10 RR G0 +1100L C5 B

Model No.

Symbol for clearance
in the axial direction ²

Accuracy symbol ³

Unfinished shaft ends code (A or B)

Seal symbol ¹

Overall screw shaft
length (in mm)

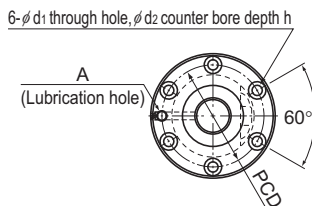
¹ See **A15-356**. ² See **A15-19**. ³ See **A15-12**.



Ball Screw

BIF (Unfinished Shaft Ends) With Preload

DN value	70,000
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Model No.	Ball screw specifications							Nut			
	Screw shaft outer diameter d	Lead Ph	Ball center- to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows X turns	Basic load rating		Outer diameter D	Flange diameter D _f	Overall length L ₁	H
						Ca kN	C _{0a} kN				
BIF 4010-5 BIF 4010-10	40	10	41.75	34.4	1×2.5 2×2.5	29 52.7	70.4 141.1	82	124	103 163	18
BIF 4012-5 BIF 4012-10	40	12	42	34.1	1×2.5 2×2.5	33.9 61.6	79.2 158.8	84	126	119 191	18
BIF 5010-5 BIF 5010-10	50	10	51.75	44.4	1×2.5 2×2.5	32 58.2	88.2 176.4	93	135	103 163	18

Model number coding

BIF4012-10 RR G0 +1230L C5 A

Model No.

Symbol for clearance
in the axial direction ²

Accuracy symbol ³

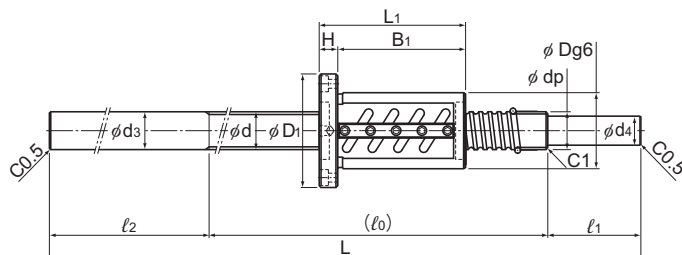
Unfinished shaft ends code (A or B)

Seal symbol ¹

Overall screw shaft
length (in mm)

¹ See **A15-356**. ² See **A15-19**. ³ See **A15-12**.

Positioning Ball Screw



Unit: mm

Dimensions							Screw shaft dimensions							Nut mass	Shaft mass	Permissible rotational speed					
	B ₁	PCD	d ₁	d ₂	h	Lubrication hole A	Standard stock symbol	Overall length L	ℓ ₀	ℓ ₁	ℓ ₂	d ₃	d ₄				kg	kg/m	min ⁻¹		
	85 145	102	11	17.5	11	M6	A	1,230	1,000	70	160	40	30.3	3.58 5.18	6.59	1,670					
								1,730	1,500												
								2,030	1,800												
								2,230	2,000												
	101 173	104	11	17.5	11	M6	A	1,230	1,000	70	160	40	30.3	4.2 6.24	6.39	1,660					
																				1,730	1,500
																				2,030	1,800
																				2,230	2,000
												B	1,730	1,200	100	430	40	33.8			
													2,030	1,200		730					
	85 145	113	11	17.5	11	Rc1/8 (PT1/8)	A	1,300	1,000	100	200	50	40.3	4.4 6.35	11.36	1,350					
																				1,800	1,500
																				2,300	2,000
																				2,800	2,500

Ball Screw