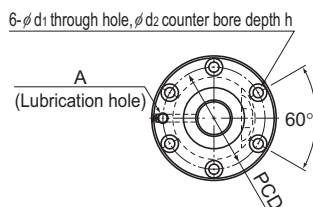


BNF (Unfinished Shaft Ends) No Preload

DN value	70,000
----------	--------



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 ₀ a kN				
BNF 1605-2.5	16	5	16.75	13.2	1×2.5	7.4	13.9	40	60	41	10
BNF 1810-2.5	18	10	18.8	15.5	1×2.5	7.8	15.9	42	65	69	12
BNF 2005-5	20	5	20.75	17.2	2×2.5	15.1	35	44	67	56	11
BNF 2505-5	25	5	25.75	22.2	2×2.5	16.7	44	50	73	55	11

Model number coding

BNF2005-5 RR G1 +610L C5 A

Model No.

Symbol for clearance
in the axial direction²

Accuracy symbol³

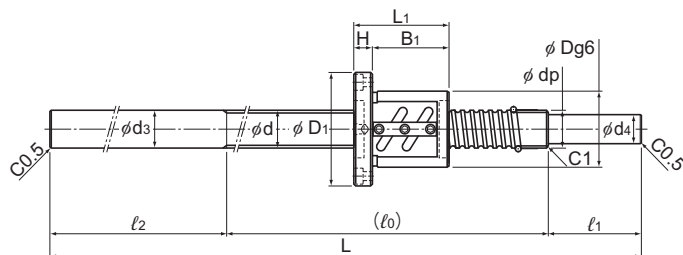
Unfinished shaft ends code (A or B)

Seal symbol¹

Overall screw shaft
length (in mm)

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

Positioning Ball Screw



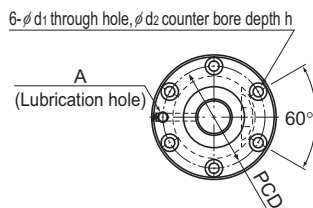
Unit: mm

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
31	50	4.5	8	4.5	M6	A	410	200	50	160	16	12.8	0.37	0.92	1.25	4,170
							510	300								
							610	400								
							710	500								
57	53	5.5	9.5	5.5	M6	A	410	200	50	160	18	15.3	0.67	1.62	3,720	
							510	300								
							610	400								
							710	500								
45	55	5.5	9.5	5.5	M6	A	810	600	50	160	20	15.3	0.57	1.65	3,370	
							410	200								
							510	300								
							610	400								
44	61	5.5	9.5	5.5	M6	A	710	500	60	160	25	20.3	0.75	2.84	2,710	
							810	600								
							1,010	800								
							1,220	1,000								
44	61	5.5	9.5	5.5	M6	A	1,420	1,200	60	160	25	21.8	0.75	2.84	2,710	
							720	400								
							820	500								
							720	400								

Ball Screw

BNF (Unfinished Shaft Ends) No 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 _t	H
BNF 2510A-2.5	25	10	26.3	21.4	1×2.5	15.8	33	58	85	70	18
BNF 2806-5	28	6	28.75	25.2	2×2.5	17.5	49.4	55	85	68	12
BNF 3205-5	32	5	32.75	29.2	2×2.5	18.5	56.4	58	85	56	12

Model number coding

BNF2806-10 RR G1 +1020L C5 A

Model No.

Symbol for clearance in the axial direction ²

Accuracy symbol ³

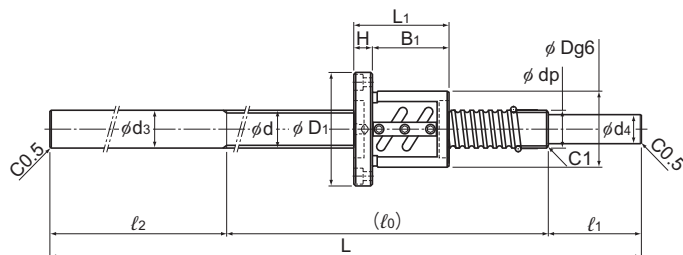
Unfinished shaft ends code (A or B)

Seal symbol¹

Overall screw shaft length (in mm)

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

Positioning Ball Screw



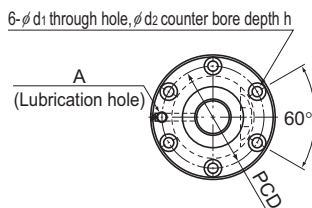
Unit: mm

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			
	52	71	6.6	11	6.5	M6	A	620	400	60	160	25	20.3	1.43	2.68	2,660
								820	600							
								1,020	800							
								1,220	1,000							
								1,420	1,200							
	56	69	6.6	11	6.5	M6	A	520	300	60	160	28	20.3	1.13	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	28	24.8			
								920	500		350					
								1,100	700		330					
	44	71	6.6	11	6.5	M6	A	730	500	70	160	32	25.3	0.93	5.03	2,130
								930	700							
								1,230	1,000							
								1,430	1,200							
								1,630	1,400							
								1,830	1,600							

Ball Screw

BNF (Unfinished Shaft Ends) No 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	H
	d	Ph	dp	dc	Rows X turns	Ca kN	C ₀ a kN	D	D _f	L ₁	
BNF 3206-5	32	6	33	28.4	2×2.5	25.2	70.4	62	89	63	12
BNF 3210A-5	32	10	33.75	26.4	2×2.5	47.2	112.7	74	108	100	15
BNF 3610-5	36	10	37.75	30.5	2×2.5	50.1	126.4	75	120	111	18

Model number coding

BNF3206-10 RR G1 +1100L C5 B

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)

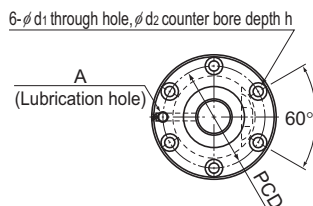
¹ See **A15-356**. ² See **A15-19**. ³ See **A15-12**.



Ball Screw

BNF (Unfinished Shaft Ends) No 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 ₀ a kN	D	D ₁	L ₁	H
BNF 4010-5	40	10	41.75	34.4	2×2.5	52.7	141.1	82	124	103	18
BNF 4012-5	40	12	42	34.1	2×2.5	61.6	158.8	84	126	119	18
BNF 5010-5	50	10	51.75	44.4	2×2.5	58.2	176.4	93	135	103	18

Model number coding

BNF4012-10 RR G1 +1230L C5 A

Model No.

Symbol for clearance in the axial direction²

Accuracy symbol³

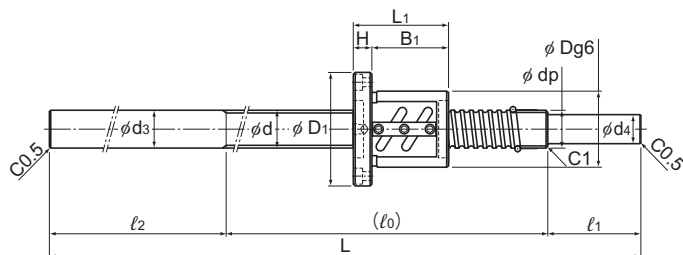
Unfinished shaft ends code (A or B)

Seal symbol¹

Overall screw shaft length (in mm)

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

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									
	B ₁	PCD	d ₁	d ₂	h	A		L	ℓ ₀	ℓ ₁	ℓ ₂	d ₃	d ₄	kg	kg/m	min ⁻¹	
	85	102	11	17.5	11	M6	A	1,230	1,000	70	160	40	30.3	3.58	6.59	1,670	
								1,730	1,500								
								2,030	1,800								
								2,230	2,000								
	101	104	11	17.5	11	M6	A	1,230	1,000	70	160	40	30.3	4.2	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	113	11	17.5	11	Rc1/8 (PT1/8)	A	1,300	1,000	100	200	50	40.3	4.4	11.36	1,350	
								1,800	1,500								
								2,300	2,000								
								2,800	2,500								

Ball Screw