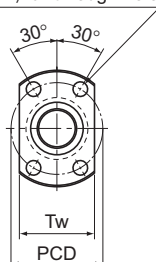


MDK (Unfinished Shaft Ends) No Preload

DN value	70000
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4- ϕ d₁ through hole

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	Nut
	d	Ph	dp	dc	Rows X turns	Ca kN	C _{0a} kN	D	D ₁	L ₁	
MDK 0401-3	4	1	4.15	3.4	3×1	0.29	0.42	9	19	13	3
MDK 0601-3	6	1	6.2	5.3	3×1	0.54	0.94	11	23	14.5	3.5
MDK 0801-3	8	1	8.2	7.3	3×1	0.64	1.4	13	26	15	4
MDK 0802-3	8	2	8.3	7	3×1	1.4	2.3	15	28	22	5
MDK 1002-3	10	2	10.3	9	3×1	1.5	2.9	17	34	22	5

Model number coding

MDK0401-3 GT +95L C5 A

Model No.

Overall screw shaft
length (in mm)

Unfinished shaft ends code

Symbol for clearance in the axial direction (*1) Accuracy symbol (*2)

(*1) See **A15-19**. (*2) See **A15-12**.

A15-178 THK

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

<https://tech.thk.com>



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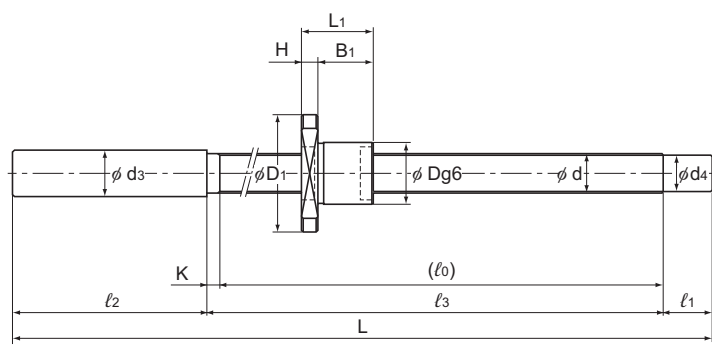
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E-mail: lintech@hennlich.sk

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Positioning Ball Screw



Unit: mm

Dimensions					Screw shaft dimensions									Nut mass kg	Shaft mass kg/m
	B ₁	PCD	d ₁	Tw	Unfinished Shaft End Code	Overall length									
							L	ℓ ₀	ℓ ₁	ℓ ₂	ℓ ₃	d ₃	d ₄	K	
	10	14	2.9	13	A	95	47	10	35	50	6.2	3.2	3	0.01	0.07
						115	67			70					
						145	97			100					
	11	17	3.4	15	A	120	67	10	40	70	8.2	5.3	3	0.02	0.14
						150	97			100					
						180	127			130					
	11	20	3.4	17	A	130	67	15	45	70	10.2	7.3	3	0.02	0.29
						160	97			100					
						190	127			130					
						240	177			180					
	17	22	3.4	19	A	140	76	15	45	80	10.2	7	4	0.04	0.27
						170	106			110					
						200	136			140					
						250	186			190					
	17	26	4.5	21	A	160	86	15	55	90	12.2	9	4	0.05	0.47
						210	136			140					
						260	186			190					
						310	236			240					

Note) Models MDK 0401, 0601, and 0801 are not provided with a labyrinth seal.

Ball Screw

Options⇒ A15-325

THK A15-179



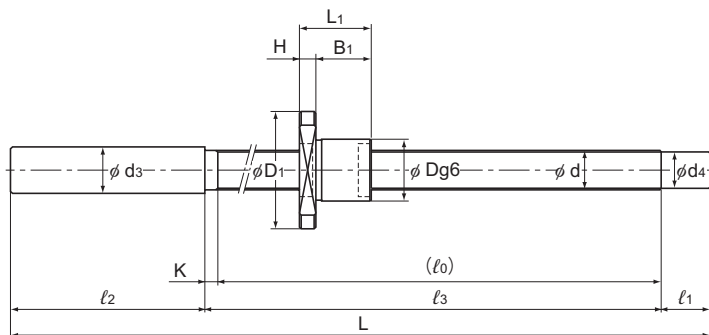
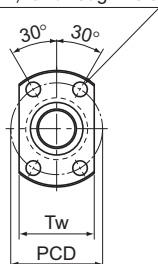
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MDK (Unfinished Shaft Ends) No Preload

DN value	70000
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4- ϕ d₁ through hole

MDK1202/1402/1404

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	Nut
	d	Ph	dp	dc	Rows X turns	Ca kN	C _{0a} kN	D	D ₁	L ₁	
MDK 1202-3	12	2	12.3	11	3×1	1.7	3.6	19	36	22	5
MDK 1402-3	14	2	14.3	13	3×1	1.8	4.3	21	40	23	6
MDK 1404-3	14	4	14.65	12.2	3×1	4.2	7.6	26	45	33	6
MDK 1405-3	14	5	14.75	11.2	3×1	7	11.6	26	45	42	10

Model number coding

MDK1202-3 RR GT +165L C5 A

Model No.	Seal symbol (*1)	Overall screw shaft length (in mm)	Unfinished shaft ends code
	Symbol for clearance in the axial direction (*2)	Accuracy symbol (*3)	

(*1) See **A15-326**. (*2) See **A15-19**. (*3) See **A15-12**.

A15-180 THK

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

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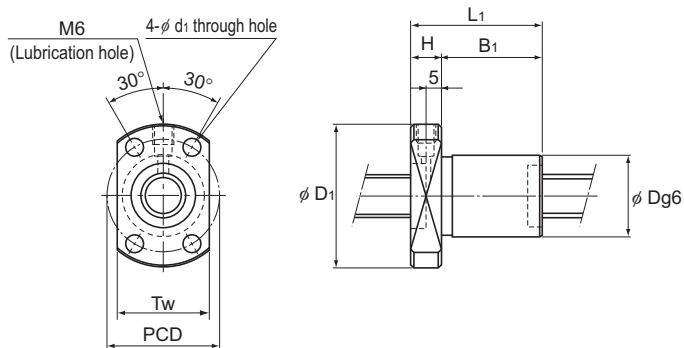
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Positioning Ball Screw



MDK1405

Unit: mm

Dimensions					Screw shaft dimensions									Nut mass kg	Shaft mass kg/m
	B ₁	PCD	d ₁	Tw	Unfinished Shaft End Code	Overall length L		ℓ ₁	ℓ ₂	ℓ ₃	d ₃	d ₄	K		
	17	28	4.5	23	A	165	86	15	60	90	14.2	11	4	0.05	0.71
						215	136			140					
						265	186			190					
						315	236			240					
						365	286			290					
	17	31	5.5	26	A	175	86	25	60	90	15.2	13	4	0.07	1
						225	136			140					
						275	186			190					
						325	236			240					
						425	336			340					
	27	36	5.5	28	A	240	150	25	60	155	15.2	11.9	5	0.14	0.8
						290	200			205					
						340	250			255					
						440	350			355					
						540	450			455					
	32	36	5.5	28	A	250	160	25	60	165	14	11.2	5	0.19	1.2
						300	210			215					
						350	260			265					
						450	360			365					
						550	460			465					

Ball Screw

Options⇒ A15-325

THK A15-181



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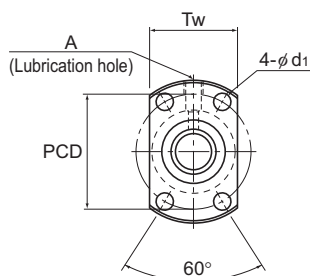
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MDK

No Preload

DN value	70000
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Model No.	Screw shaft outer diameter	Lead	Ball center- to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Rigidity	Nut dimensions			
						Ca	C _{0a}		K	Outer diameter	Flange diameter	
	d	Ph	dp	dc	Rows X turns	kN	kN	N/μm	D	D _i	L _i	
MDK 0401-3	4	1	4.15	3.4	3×1	0.29	0.42	35	9	19	13	
MDK 0601-3	6	1	6.2	5.3	3×1	0.54	0.94	60	11	23	14.5	
MDK 0801-3	8	1	8.2	7.3	3×1	0.64	1.4	80	13	26	15	
MDK 0802-3	8	2	8.3	7	3×1	1.4	2.3	80	15	28	22	
MDK 1002-3	10	2	10.3	9	3×1	1.5	2.9	100	17	34	22	
MDK 1202-3	12	2	12.3	11	3×1	1.7	3.6	120	19	36	22	
MDK 1402-3	14	2	14.3	13	3×1	1.8	4.3	190	21	40	23	
MDK 1404-3	14	4	14.65	12.2	3×1	4.2	7.6	190	26	45	33	
MDK 1405-3	14	5	14.75	11.2	3×1	7	11.6	140	26	45	42	

A15-182 THK

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

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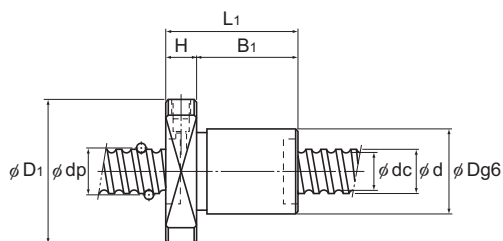
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Positioning Ball Screw



Unit: mm

	Nut dimensions						Screw shaft inertial moment/mm kg·m ² /mm	Nut mass kg	Shaft mass kg/m
	H	B ₁	PCD	d ₁	Tw	Lubrication hole A			
	3	10	14	2.9	13	—	1.97×10^{-10}	0.01	0.07
	3.5	11	17	3.4	15	—	9.99×10^{-10}	0.017	0.14
	4	11	20	3.4	17	—	3.16×10^{-9}	0.024	0.29
	5	17	22	3.4	19	—	3.16×10^{-9}	0.034	0.27
	5	17	26	4.5	21	—	7.71×10^{-9}	0.045	0.47
	5	17	28	4.5	23	—	1.60×10^{-8}	0.05	0.71
	6	17	31	5.5	26	—	2.96×10^{-8}	0.15	1
	6	27	36	5.5	28	—	2.96×10^{-8}	0.13	0.8
	10	32	36	5.5	28	M6	2.96×10^{-8}	0.18	0.91

Note) Models MDK0401, 0601 and 0801 are not provided with a seal.

Ball Screw

Options⇒ **A15-325****THK A15-183****HENNLICH s.r.o.**

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