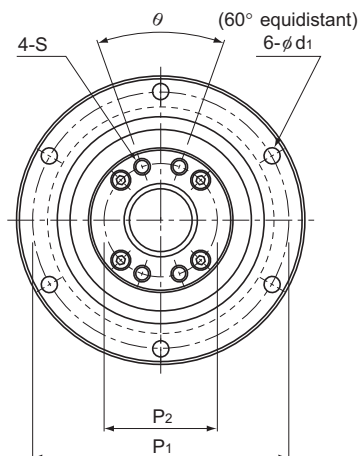


BLR (Precision Ball Screw) No Preload

DN value	70,000
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Model No.	Screw shaft outer diameter d	Thread minor diameter dc	Lead Ph	Ball center-to-center diameter dp	Basic load rating		Outer diameter D	Flange diameter D ₁	Overall length L ₁	D ₃
					Ca kN	C _{0a} kN				
BLR 1616-3.6	16	13.7	16	16.65	7.1	14.3	52 ⁰ -0.007	68	43.5	40 ⁰ -0.025
BLR 2020-3.6	20	17.5	20	20.75	11.1	24.7	62 ⁰ -0.007	78	54	50 ⁰ -0.025
BLR 2525-3.6	25	21.9	25	26	16.6	38.7	72 ⁰ -0.007	92	65	58 ⁰ -0.03
BLR 3232-3.6	32	28.3	32	33.25	23.7	59.5	80 ⁰ -0.007	105	80	66 ⁰ -0.03
BLR 3636-3.6	36	31.7	36	37.4	30.8	78	100 ⁰ -0.008	130	93	80 ⁰ -0.03
BLR 4040-3.6	40	35.2	40	41.75	38.7	99.2	110 ⁰ -0.008	140	98	90 ⁰ -0.035
BLR 5050-3.6	50	44.1	50	52.2	57.8	155	120 ⁰ -0.008	156	126	100 ⁰ -0.035

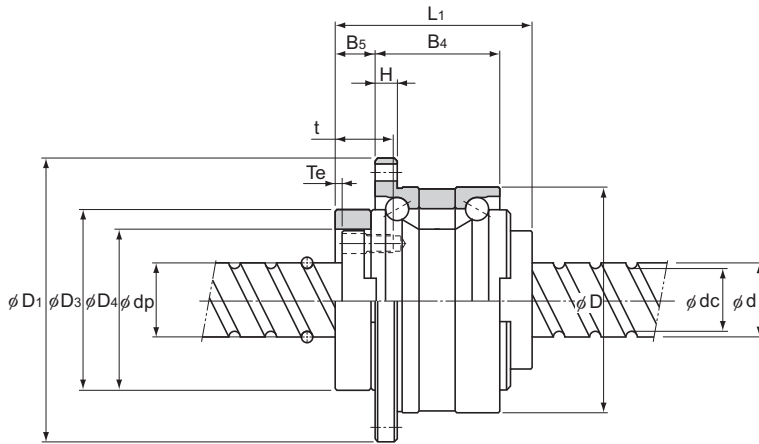
Model number coding

BLR2020-3.6 K UU G1 +1000L C5

Model number	Flange orientation symbol	Symbol for clearance in the axial direction ²	Accuracy symbol ³
	Symbol for support bearing seal ¹	Overall screw shaft length (in mm)	

¹ UU: Seal attached on both ends No symbol: Without seal. ² See **A15-19**. ³ See **A15-12**.

Rotary Nut Ball Screw



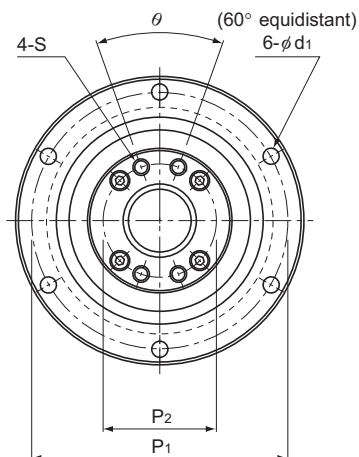
Unit: mm

Ball screw dimensions													Support bearing basic load rating		Nut inertial moment	Nut mass	Shaft mass	Permissible rotational speed
	D_4	H	B_4	B_5	Te	P_1	P_2	S	t	d_1	θ°		Ca kN	C_0a kN	$kg \cdot m^2$	kg	kg/m	min^{-1}
32	$^{+0.025}_0$	5	27.5	9	2	60	25	M4	12	4.5	40		19.4	19.2	4.80×10^{-5}	0.38	1.41	4,200
39	$^{+0.025}_0$	6	34	11	2	70	31	M5	16	4.5	40		26.8	29.3	1.44×10^{-4}	0.68	2.25	3,370
47	$^{+0.025}_0$	8	43	12.5	3	81	38	M6	19	5.5	40		28.2	33.3	3.23×10^{-4}	1.1	3.52	2,690
58	$^{+0.03}_0$	9	55	14	3	91	48	M6	19	6.6	40		30	39	6.74×10^{-4}	1.74	5.83	2,100
66	$^{+0.03}_0$	11	62	17	3	113	54	M8	22	9	40		56.4	65.2	1.68×10^{-3}	3.2	7.34	1,870
73	$^{+0.03}_0$	11	68	16.5	3	123	61	M8	22	9	50		59.3	74.1	2.79×10^{-3}	3.95	9.01	1,670
90	$^{+0.035}_0$	12	80	25	4	136	75	M10	28	11	50		62.2	83	5.82×10^{-3}	6.22	14.08	1,340

Ball Screw

BLR (Rolled Ball Screw) No Preload

DN value	70,000
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Model No.	Screw shaft outer diameter d	Thread minor diameter dc	Lead Ph	Ball center-to-center diameter dp	Basic load rating		Outer diameter D	Flange diameter D ₁	Overall length L ₁	D ₃
					Ca kN	C _{0a} kN				
BLR 1616-3.6	16	13.7	16	16.65	5.8	12.9	52 ⁰ _{-0.007}	68	43.5	40 ⁰ _{-0.025}
BLR 2020-3.6	20	17.5	20	20.75	7.7	22.3	62 ⁰ _{-0.007}	78	54	50 ⁰ _{-0.025}
BLR 2525-3.6	25	21.9	25	26	12.1	35	72 ⁰ _{-0.007}	92	65	58 ⁰ _{-0.03}
BLR 3232-3.6	32	28.3	32	33.25	17.3	53.9	80 ⁰ _{-0.007}	105	80	66 ⁰ _{-0.03}
BLR 3636-3.6	36	31.7	36	37.4	22.4	70.5	100 ⁰ _{-0.008}	130	93	80 ⁰ _{-0.03}
BLR 4040-3.6	40	35.2	40	41.75	28.1	89.8	110 ⁰ _{-0.008}	140	98	90 ⁰ _{-0.035}
BLR 5050-3.6	50	44.1	50	52.2	42.1	140.4	120 ⁰ _{-0.008}	156	126	100 ⁰ _{-0.035}

Model number coding

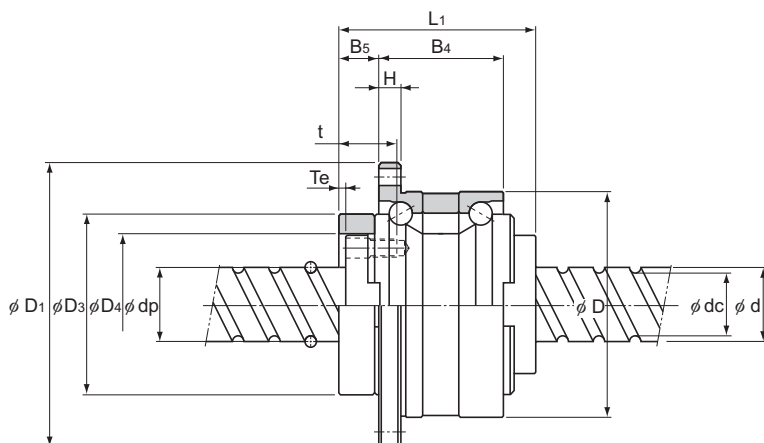
BLR2020-3.6 K UU +1000L C7 T

Model number Flange orientation symbol Overall screw shaft length (in mm) Symbol for support bearing seal¹ Accuracy symbol² Symbol for rolled Ball Screw

¹ UU: seal attached on both ends; No symbol: without seal. ² See **A15-12**.

Note: For clearance in the axial direction, see **A15-19**.

Rotary Nut Ball Screw



Unit: mm

Ball screw dimensions												Support bearing basic load rating		Nut inertial moment	Nut mass	Shaft mass	Permissible rotational speed
											Ca						
	D ₄	H	B ₄	B ₅	T _e	P ₁	P ₂	S	t	d ₁	θ°	kN	kN	kg·m ²	kg	kg/m	min ⁻¹
	32 ^{+0.025 0}	5	27.5	9	2	60	25	M4	12	4.5	40	19.4	19.2	4.80×10 ⁻⁵	0.38	1.35	4,200
	39 ^{+0.025 0}	6	34	11	2	70	31	M5	16	4.5	40	26.8	29.3	1.44×10 ⁻⁴	0.68	2.17	3,370
	47 ^{+0.025 0}	8	43	12.5	3	81	38	M6	19	5.5	40	28.2	33.3	3.23×10 ⁻⁴	1.1	3.41	2,690
	58 ^{+0.03 0}	9	55	14	3	91	48	M6	19	6.6	40	30	39	6.74×10 ⁻⁴	1.74	5.69	2,100
	66 ^{+0.03 0}	11	62	17	3	113	54	M8	22	9	40	56.4	65.2	1.68×10 ⁻³	3.2	7.12	1,870
	73 ^{+0.03}	11	68	16.5	3	123	61	M8	22	9	50	59.3	74.1	2.79×10 ⁻³	3.95	8.76	1,670
	90 ^{+0.035 0}	12	80	25	4	136	75	M10	28	11	50	62.2	83	5.82×10 ⁻³	6.22	13.79	1,340

Ball Screw