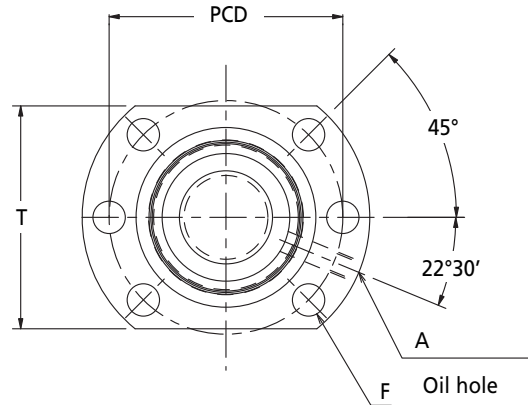


EBB

LINEAR MOTION

Precision Rolled Ballscrew

with Pre-loaded (0.02Ca) Nut (Cp5 23µm/300mm)



Drilling Template 1

Part Number	Screw Shaft Dia. d	Lead L	Ball Centre-to-Centre Dia. dp	Thread Minor Dia. d3	No. of Loaded Circuits/Rows x Turns	Basic Load Rating		Rigidity 1) K (N/µm)	Screw Shaft inertial moment per mm (kg·cm ² /mm)
						Ca (kN) Dyn	C0a (kN) Stat		
EBB1605-500	16	5	16.75	13.5	4 x 1	8.0	16.7	216	5.05x10 ⁻⁴
EBB1605-1000	16	5	16.75	13.5	4 x 1	8.0	16.7	216	5.05x10 ⁻⁴
EBB2005-500	20	5	20.75	17.5	3 x 1	7.3	16.6	206	1.23x10 ⁻³
EBB2005-1000	20	5	20.75	17.5	3 x 1	7.3	16.6	206	1.23x10 ⁻³
EBB2505-500	25	5	25.75	22.5	3 x 1	8.3	21.8	255	3.01x10 ⁻³
EBB2505-1000	25	5	25.75	22.5	3 x 1	8.3	21.8	255	3.01x10 ⁻³
EBB2510-500	25	10	26.00	21.9	3 x 1	11.0	25.9	255	3.01x10 ⁻³
EBB2510-1000	25	10	26.00	21.9	3 x 1	11.0	25.9	255	3.01x10 ⁻³
EBB3205-500	32	5	32.75	29.5	3 x 1	9.4	29.0	314	8.08x10 ⁻³
EBB3205-1000	32	5	32.75	29.5	3 x 1	9.4	29.0	314	8.08x10 ⁻³
EBB3210-500	32	10	33.75	27.2	3 x 1	22.0	50.0	314	8.08x10 ⁻³
EBB3210-1000	32	10	33.75	27.2	3 x 1	22.0	50.0	314	8.08x10 ⁻³
EBB4010-500	40	10	41.75	35.2	3 x 1	25.6	66.5	392	1.97x10 ⁻²
EBB4010-1000	40	10	41.75	35.2	3 x 1	25.6	66.5	392	1.97x10 ⁻²

1) The rigidity values in this table indicate spring constants obtained from the load and elastic displacement under a preload of 10% of the basic dynamic load rating C_a , and an axial load F_a that is three times that of the preload F_{a0} . As these values do not take into account the rigidity of the parts involved in the nut installation, take 80% of the values given in this table as a general guideline.

If the preload F_{a0} differs from $0.1 C_a$, the rigidity KN can be calculated using the following equation:

$$K_N = K \cdot \left(\frac{F_{a0}}{0.1 C_a} \right)^{1/2} \cdot 0.8$$

If the ballscrew is not preloaded, please consult our technical department for the rigidity value.

Material

All steel construction except end wipers in Nitrile Rubber. Single nut according to DIN 69051 (1989) with flange form B.

Other Info.

Max. running temperature 80°C. Preload by ball selection (G0 pre-loaded) $F_{a0} = 0.02C_a$. Precision accuracy Cp5 23µm/300mm (Cp3 P.O.A.). ISO 3408-3

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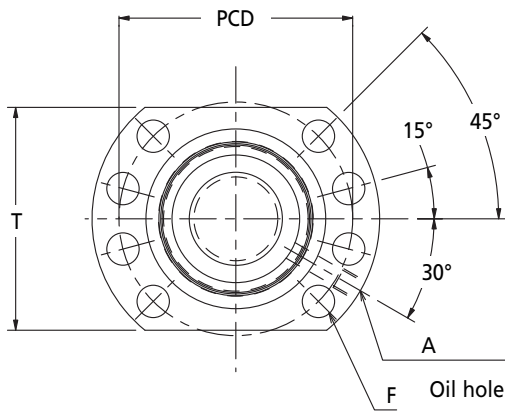
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

LINEAR MOTION

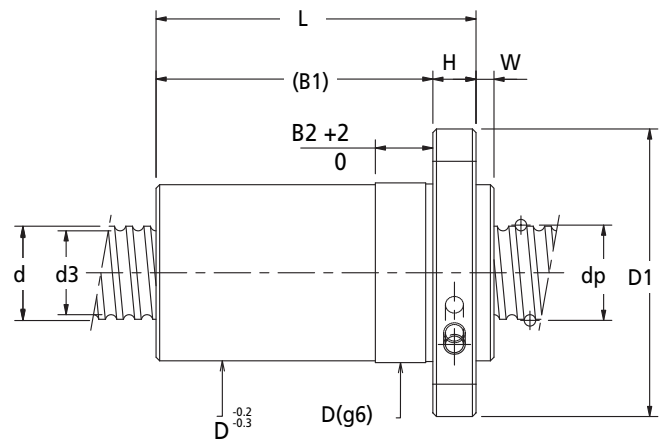
EBB

Precision Rolled Ballscrew

with Pre-loaded (0.02Ca) Nut (C_p5 23µm/300mm)



Drilling Template 2



Discounts: 5+ -10% 10+ -15% 20+ -18%

Part Number	Outer Dia. D	Flange Dia. D1	Overall Length L	Nut Dimensions							Drilling Template	Oil Hole A	Price Each 1 - 4
				H	B1	B2	W	T	PCD	d1			
EBB1605-500	28	48	50	10	40	10	5	40	38	5.5	1	M6x1	£P.O.A
EBB1605-1000	28	48	50	10	40	10	5	40	38	5.5	1	M6x1	£595.60
EBB2005-500	36	58	45	10	35	10	5	44	47	6.6	1	M6x1	£630.11
EBB2005-1000	36	58	45	10	35	10	5	44	47	6.6	1	M6x1	£742.80
EBB2505-500	40	62	45	10	35	10	5	48	51	6.6	1	M6x1	£660.00
EBB2505-1000	40	62	45	10	35	10	5	48	51	6.6	1	M6x1	£975.06
EBB2510-500	40	62	75	10	65	16	5	48	51	6.6	1	M6x1	£740.48
EBB2510-1000	40	62	75	10	65	16	5	48	51	6.6	1	M6x1	£862.37
EBB3205-500	50	80	47	12	35	10	5	62	65	9.0	1	M6x1	£926.77
EBB3205-1000	50	80	47	12	35	10	5	62	65	9.0	1	M6x1	£995.76
EBB3210-500	50	80	77	12	65	16	5	62	65	9.0	1	M6x1	£841.68
EBB3210-1000	50	80	77	12	65	16	5	62	65	9.0	1	M6x1	£903.77
EBB4010-500	63	93	79	14	65	16	5	70	78	9.0	1	M6x1	£1211.93
EBB4010-1000	63	93	79	14	65	16	5	70	78	9.0	1	M6x1	£1287.83

Ordering Info.

EBB 32 05 – 1000

(1) (2) (3) (4)

- (1) Nut
- (2) Screw shaft outer diameter (mm)
- (3) Lead (mm)
- (4) Screw shaft total length (mm)

(RR: labyrinth seals attached to both sides G0 = preloaded F_{ao} = 0.02Ca)

Prices shown are for upto and including 500mm (0-500) and 1000mm (501-1000).

Prices for longer lengths on application.

Where No. 4 is put - insert length needed (overall length)

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