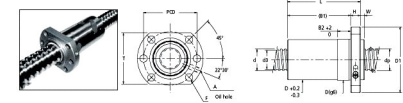




# MBA

## Screws - Ball - Precision - Rolled



(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 Ca, and an axial load Fa that is three times that of the preload Fa0. 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 Fa0 differs from 0.1 Ca, the rigidity KN can be calculated using the following equation:

$$KN = K \cdot \frac{Fa0}{0.1 Ca} \cdot 1.5 \cdot 0.8$$

NUT DIMENSIONS										
Nut Size	Outer Diameter (D)	Flange Diameter (Df)	Overall Length (L)	H	E1	E2	W	T	PGD	Oil Hole (d)
EBB1605	26	46	50	10	40	10	5	40	38	5.5
EBB3005	36	56	45	10	35	10	5	44	47	6.6
EBB3005	40	60	45	10	35	10	5	48	51	6.6
EBB2510	40	62	75	10	65	16	5	48	51	6.6
EBB3005	50	80	47	12	35	10	5	62	65	9
EBB210	50	80	77	12	65	16	5	62	65	9
EBB4010	63	93	79	14	65	16	5	70	78	9

With pre-loaded (0.02CA) Nut (Cp5 23um/300mm).

All steel construction except end wipers in Nitrile Rubber.

Single nut according to DIN 69051 (1989) with flange form B.

Max. running temperature 80°C. Preload by ball selection (G0 pre-loaded) Fa0 = 0.02Ca.

Precision accuracy Cp5 23um/300mm ISO 3408-3.

This catalogue to be read in conjunction with information at <http://www.minibearings.com.au/ogue/tech/>

<http://www.minibearings.com.au/ogue/tech/ballscrew/RPBB5B.pdf>

## Screws - Ball - Precision - Rolled

Part Number	Screw Shaft Dia. (d) mm	Lead (L) mm	Length mm	Ball Centre-to-centre Dia (dp) mm	Thread Minor Dia (d3) mm	No. of Loaded Circuits x turns	Ca Dyn. Rigidity (K) (Note 1)	C0a Stat, kN	Rigidity (K) (Note 1) kg.cm2/mm	Screw inertial moment per mm kg.cm2/mm
# EBB1605-500	16.0 <i>0.630</i>	5.0 <i>0.197</i>	500 <i>19.685</i>	16.75 <i>0.659</i>	13.5 <i>0.531</i>	4 x 1	8.0	16.7	216	0.000505
# EBB1605-1000	16.0 <i>0.630</i>	5.0 <i>0.197</i>	1000 <i>39.370</i>	16.75 <i>0.659</i>	13.5 <i>0.531</i>	4 x 1	8.0	16.7	216	0.000505
# EBB2005-1000	20.0 <i>0.787</i>	5.0 <i>0.197</i>	1000 <i>39.370</i>	20.75 <i>0.817</i>	17.5 <i>0.689</i>	3 x 1	7.3	16.6	206	0.001230

# Indicates item not stocked at time of printing - Please enquire for lead time

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## Screws - Ball - Precision - Rolled

Part Number	Screw Shaft Dia. (d) mm	Lead (L) mm	Length mm	Ball Centre-to-centre Dia (dp) mm	Thread Minor Dia (d3) mm	No. of Loaded Circuits x turns	Ca Dyn. Rigidity (K) (Note 1)	C0a Stat, kN	Rigidity (K) (Note 1) kg.cm2/mm	Screw inertial moment per mm kg.cm2/mm
# EBB2005-500	20.0 <i>0.787</i>	5.0 <i>0.197</i>	500 <i>19.685</i>	20.75 <i>0.817</i>	17.5 <i>0.689</i>	3 x 1	7.3	16.6	206	0.001230
# EBB2505-500	25.0 <i>0.984</i>	5.0 <i>0.197</i>	500 <i>19.685</i>	25.75 <i>1.014</i>	22.5 <i>0.886</i>	3 x 1	8.3	21.8	255	0.003010
# EBB2505-1000	25.0 <i>0.984</i>	5.0 <i>0.197</i>	1000 <i>39.370</i>	25.75 <i>1.014</i>	22.5 <i>0.886</i>	3 x 1	8.3	21.8	255	0.003010
# EBB2510-500	25.0 <i>0.984</i>	10.0 <i>0.394</i>	500 <i>19.685</i>	26.00 <i>1.024</i>	21.9 <i>0.862</i>	3 x 1	11.0	25.9	255	0.003010
# EBB2510-1000	25.0 <i>0.984</i>	10.0 <i>0.394</i>	1000 <i>39.370</i>	26.00 <i>1.024</i>	21.9 <i>0.862</i>	3 x 1	11.0	25.9	255	0.003010
# EBB3205-1000	32.0 <i>1.260</i>	5.0 <i>0.197</i>	1000 <i>39.370</i>	32.75 <i>1.289</i>	29.5 <i>1.161</i>	3 x 1	9.4	29.0	314	0.008080
# EBB3205-500	32.0 <i>1.260</i>	5.0 <i>0.197</i>	500 <i>19.685</i>	32.75 <i>1.289</i>	29.5 <i>1.161</i>	3 x 1	9.4	29.0	314	0.008080
# EBB3210-500	32.0 <i>1.260</i>	10.0 <i>0.394</i>	500 <i>19.685</i>	33.75 <i>1.329</i>	27.2 <i>1.071</i>	3 x 1	22.0	50.0	314	0.008080
# EBB3210-1000	32.0 <i>1.260</i>	10.0 <i>0.394</i>	1000 <i>39.370</i>	33.75 <i>1.329</i>	27.2 <i>1.071</i>	3 x 1	22.0	50.0	314	0.008080
# EBB4010-1000	40.0 <i>1.575</i>	10.0 <i>0.394</i>	1000 <i>39.370</i>	41.75 <i>1.644</i>	35.2 <i>1.386</i>	3 x 1	25.6	66.5	392	0.019700

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Part Number	Screw Shaft Dia. (d) mm	Lead (L) mm	Length mm	Ball Centre-to- centre Dia (dp) mm	Thread Minor Dia (d3) mm	No. of Loaded Circuits x turns	Ca Dyn. Rigidity (K) (Note 1)	C0a Stat, kN	Rigidity (K) (Note 1) kg.cm2/mm	Screw inertial moment per mm kg.cm2/mm
# EBB4010-500	40.0 <i>1.575</i>	10.0 <i>0.394</i>	500 <i>19.685</i>	41.75 <i>1.644</i>	35.2 <i>1.386</i>	3 x 1	25.6	66.5	392	0.019700

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