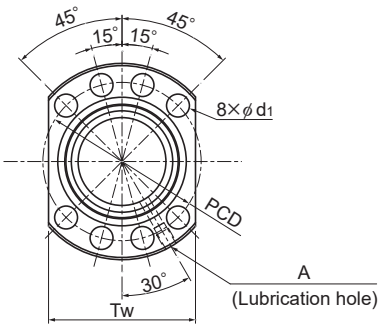


EBB-V

Oversized-Ball Preload / No Preload

DN value	130,000
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Model No.	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	Loaded circuits	Basic load rating		Rigidity
						Ca	C _{0a}	
	d	Ph	dp	d _c	Rows x turns	kN	kN	K
								N/μm
EBB 4004V-6	40	4	40.5	38.06	6×1	15.9	49.4	670
EBB 4005V-6	40	5	40.75	37.49	6×1	26.6	77.5	727
EBB 4006V-12	40	6	41	36.93	12×1	68.1	188.7	1,423
EBB 4008V-8	40	8	41.25	36.36	8×1	61.3	148.9	982
EBB 4010V-3	40	10	41.75	35.24	3×1	37.3	69.3	378
EBB 4010V-4	40	10	41.75	35.24	4×1	47.6	92.4	497
EBB 4012V-8	40	12	41.75	35.2	8×1	86.4	184.8	963
EBB 4020V-3	40	20	41.75	35.24	3×1	36.8	69.3	376
EBB 5005V-12	50	5	50.75	47.49	12×1	56.0	198.3	1,708
EBB 5008V-8	50	8	51.25	46.36	8×1	67.5	187.7	1,177
EBB 5010V-4	50	10	51.75	45.24	4×1	54.3	120.5	617
EBB 5020V-3	50	20	52.25	44.11	3×1	55.3	108.8	465
EBB 6310V-4	63	10	64.75	58.2	4×1	61.9	161.0	775
EBB 6312V-4	63	12	65.25	57.1	4×1	80.9	189.1	759
EBB 6316V-4	63	16	65.7	56.0	4×1	134.0	306.4	970
EBB 6320V-3	63	20	65.7	56.0	3×1	104.4	229.3	736
EBB 8010V-4	80	10	81.75	75.2	4×1	68.6	206.9	943
EBB 8012V-4	80	12	82.25	74.1	4×1	92.1	251.7	953
EBB 8016V-4	80	16	82.7	73.0	4×1	154.7	413.2	1,233
EBB 8020V-4	80	20	82.7	73.0	4×1	154.5	413.2	1,232

Model number coding

EBB4005V-6 RR G0 +650L C3

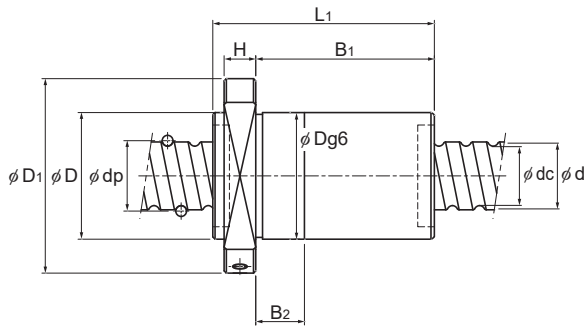
Model No.

Clearance symbol

Accuracy symbol

Ball screw shaft length (mm)

Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)



Unit: mm

	Nut dimensions										Nut mass	Shaft mass	Permissible rotational speed
	Outer diameter	Flange diameter	Overall length							Lubrication hole	kg	kg/m	min ⁻¹
	D	D ₁	L ₁	H	B ₁	B ₂	PCD	d _i	T _w	A			
	63	93	59	14	45	12	78	9	70	M8	0.96	9.40	3,200
	63	93	65	14	51	12	78	9	70	M8	1.01	9.23	3,190
	63	93	117	14	103	18	78	9	70	M8	1.61	9.09	3,170
	63	93	113	14	99	18	78	9	70	M8	1.54	8.98	3,150
	63	93	75	14	61	20	78	9	70	M8	1.03	8.76	3,110
	63	93	85	14	71	20	78	9	70	M8	1.15	8.76	3,110
	63	93	152	14	138	20	78	9	70	M8	1.79	8.97	3,110
	63	93	122	14	98	27	78	9	70	M8	1.62	9.28	3,110
	75	110	104	16	88	18	93	11	85	M8	2.08	14.59	2,560
	75	110	115	16	99	18	93	11	85	M8	2.16	14.28	2,530
	75	110	87	16	71	18	93	11	85	M8	1.65	14.00	2,510
	75	110	117	16	101	27	93	11	85	M8	2.07	14.32	2,480
	90	125	89	18	71	18	108	11	95	M8	2.10	22.64	2,000
	95	135	104	20	84	25	115	13.5	100	M8	2.93	22.21	1,990
	95	135	125	20	105	25	115	13.5	100	M8	3.27	22.07	1,970
	95	135	122	20	102	27	115	13.5	100	M8	3.48	22.52	1,970
	105	145	93	20	73	18	125	13.5	110	M8	2.60	37.07	1,590
	125	165	110	25	85	25	145	13.5	130	M8	6.06	36.51	1,580
	125	165	131	25	106	25	145	13.5	130	M8	7.15	36.33	1,570
	125	165	149	25	124	25	145	13.5	130	M8	8.13	36.90	1,570

The rigidity values in the table represent spring constants each obtained from the load and the elastic deformation when providing an axial load 24% of the basic dynamic load rating (Ca).

These values do not include the rigidity of the components related to mounting the nut. Therefore, it is normally appropriate to regard roughly 80% of the value in the table as the actual value.

If the axial load (Fa) is not 30% of Ca, the rigidity value (K_N) is obtained from the following equation.

$$K_N = K \left(\frac{F_a}{0.3C_a} \right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table