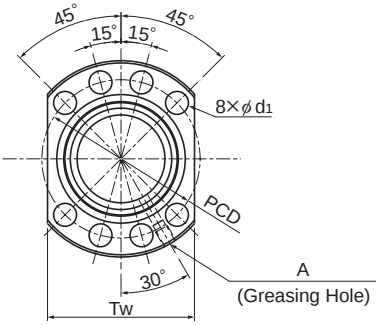
EBB-V
Oversized-ball Preload / No Preload

DN value	130000



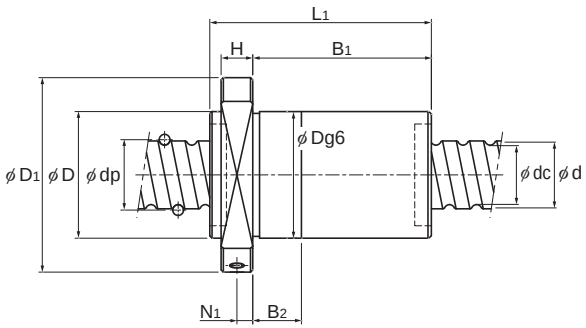
Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Thread minor diameter d_c	Loaded circuits Rows x turns	Basic load rating Ca kN	Basic load rating C_0a kN	Rigidity K N/μm
EBB 4004V-6	40	4	40.5	38.06	6×1	15.9	49.4	670
EBB 4005V-6	40	5	40.75	37.49	6×1	26.6	77.5	727
EBB 4006V-12	40	6	41	36.93	12×1	68.1	188.7	1423
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	1708
EBB 5008V-8	50	8	51.25	46.36	8×1	67.5	187.7	1177
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	1233
EBB 8020V-4	80	20	82.7	73.0	4×1	154.5	413.2	1232

Note) When the QZ Lubricator and W wiper ring are attached, the overall length of the nut dimensions will increase.Contact THK for details.

Model number coding

EBB4005V-6 RR G0 +650L C3

- EBB4005V-6: Model No.
- RR: Seal symbol (RR : Labyrinth seal, WW : Wiper ring.)
- G0: Clearance symbol
- +650L: Ball screw shaft length (mm)
- C3: Accuracy symbol



Unit: mm

	Nut dimensions										Nut mass	Shaft mass
	Outer diameter	Flange diameter	Overall length							Greasing hole		
	D	D_1	L_1	H	B_1	B_2	PCD	d_1	T_W	A	kg	kg/m
	63	93	59	14	45	12	78	9	70	M8	0.96	9.40
	63	93	65	14	51	12	78	9	70	M8	1.01	9.23
	63	93	117	14	103	18	78	9	70	M8	1.61	9.09
	63	93	113	14	99	18	78	9	70	M8	1.54	8.98
	63	93	75	14	61	20	78	9	70	M8	1.03	8.76
	63	93	85	14	71	20	78	9	70	M8	1.15	8.76
	63	93	152	14	138	20	78	9	70	M8	1.79	8.97
	63	93	122	14	98	27	78	9	70	M8	1.62	9.28
	75	110	104	16	88	18	93	11	85	M8	2.08	14.59
	75	110	115	16	99	18	93	11	85	M8	2.16	14.28
	75	110	87	16	71	18	93	11	85	M8	1.65	14.00
	75	110	117	16	101	27	93	11	85	M8	2.07	14.32
	90	125	89	18	71	18	108	11	95	M8	2.10	22.64
	95	135	104	20	84	25	115	13.5	100	M8	2.93	22.21
	95	135	125	20	105	25	115	13.5	100	M8	3.27	22.07
	95	135	122	20	102	27	115	13.5	100	M8	3.48	22.52
	105	145	93	20	73	18	125	13.5	110	M8	2.60	37.07
	125	165	110	25	85	25	145	13.5	130	M8	6.06	36.51
	125	165	131	25	106	25	145	13.5	130	M8	7.15	36.33
	125	165	149	25	124	25	145	13.5	130	M8	8.13	36.90

Note) The rigidity values in the table represent spring constants each obtained from the load and the Elastic Deformation finish 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 0.24 Ca, the rigidity value (K_N) is obtained from the following equation.

$$K_N = K\left(\frac{Fa}{0.24Ca}\right)^{\frac{1}{3}}$$

K: Rigidity value in the dimensional table.

Options⇒A15-307