

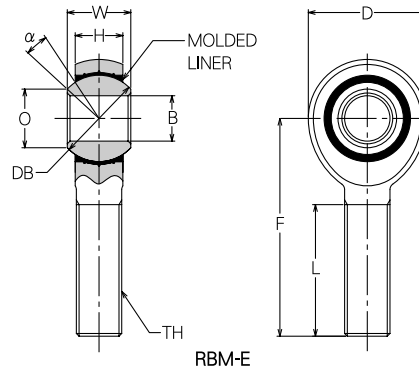
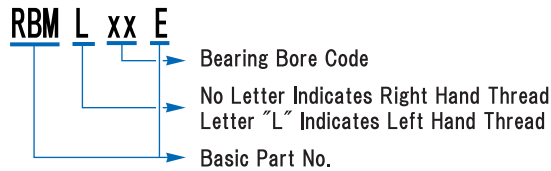
RBM-E

ROD END BEARING | **MOLDED** | **MINELON TN**

Materials

BODY Low Carbon Steel / Zinc Plated
BALL Bearing Steel / Heat Treated / Chrome Plated
LINER Minelon TN

Description of Types



Dimensions in mm

MINEBEA Part No.	φB H7	φD ± 0.5	W 0 -0.13	H ± 0.13	F ± 0.5	TH JIS Class 2	L ± 0.7	α (deg.)	φO Ref.	S φDB Ref.	No Load Rotational Breakaway Torque N · m	Radial Clearance mm	Radial Static Limit Load kN	Dynamic Load kN	Approx. Weight g
RBM5E	5	16	8	6.00	33	M5 × 0.8	20	13	7.7	11.11	0.04MAX	0.03MAX	3.62	1.90	12
RBM6E	6	18	9	6.75	36	M6 × 1.0	22	13	9.0	12.70	{0.4kgf · cmMAX}		5.05	2.17	20
RBM8E	8	22	12	9.00	42	M8 × 1.25	25	14	10.4	15.88	{0.6kgf · cmMAX}	0.05MAX	9.16	3.48	35
RBM10E	10	26	14	10.50	48	M10 × 1.5	29		12.9	19.05			14.61	5.14	55
RBM12E	12	30	16	12.00	54	M12 × 1.75	33	13	15.4	22.22	{1.2kgf · cmMAX}	0.05MAX	18.14	6.52	90
RBM14E	14	34	19	13.50	60	M14 × 2.0	36	16	16.9	25.40	{3.5kgf · cmMAX}		24.02	8.72	130
RBM16E	16	38	21	15.00	66	M16 × 2.0	40	15	19.4	28.58		{5.8kgf · cmMAX}	28.43	10.49	185
RBM18E	18	42	23	16.50	72	M18 × 1.5	44		21.9	31.75	35.79		13.23	250	
RBM20E	20	46	25	18.00	78	M20 × 1.5	47	15	24.4	34.92	{5.8kgf · cmMAX}	41.18	15.39	310	
RBM22E	22	50	28	20.00	84	M22 × 1.5	51		25.9	38.10		50.01	18.73	400	

Notes

- Operating temperature range: - 50 °C ~ + 100 °C
- Dynamic Load Ratings: Cd
 - Reversing & Alternating Load
Dynamic Load Ratings shall be reduced by half from the values given in the table under the use of reversing and alternating load condition.
 - Factor of Operating Temperature and Sliding Speed
Dynamic Load Ratings shall be determined by formula below under the use of High-Temperature and Sliding-Speed condition.
 $Cdt \cdot v = ft \cdot fv \cdot Cd$
 Cdt · v: Dynamic Load Ratings under the use of High-Temperature and Sliding speed.
 ft: Coefficient of Temperature
 fv: Coefficient of Sliding speed

- Static Load Ratings: Cs
 - Dynamic Load Ratings shall be reduced to one-thirds of the values given in the table under the use of that High-Load will be applied continuously or periodically and be reduced to one-sixth of the values given under Reversing and Alternating Load and Impact Load conditions.
 - Factor of Operating Temperature
Dynamic Load Ratings shall be determined by formula below under the use of High-Temperature conditions.
 $Cs \cdot t = ft \cdot Cs$
 Cs · t: Dynamic Load Ratings under the use of High-Temperature condition.
 ft: Coefficient of Temperature
 Cs: Static Load given in the table

Table 1

Temp. °C	~ 40	~ 60	~ 80	~ 100
ft	1.0	0.95	0.8	0.6

Table 2

Sliding Speed m/min	~ 0.3	~ 0.4	~ 0.5	~ 0.6	~ 0.7	~ 0.8	~ 0.9	~ 1.1	~ 1.5	~ 2.5
fv	1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1

Table 3

Temp. °C	~ 30	~ 40	~ 60	~ 80	~ 90	~ 100
ft	1.0	0.95	0.85	0.6	0.5	0.3

○ Please consult MINEBEA for availability of bearings in this series.

Bore size	~ 3	~ 6	~ 10	~ 18	~ 30
H7 Tolerance (μm)	+ 10 0	+ 12 0	+ 15 0	+ 18 0	+ 21 0