

C-Lube Linear Way MH Ultra Seal Specification

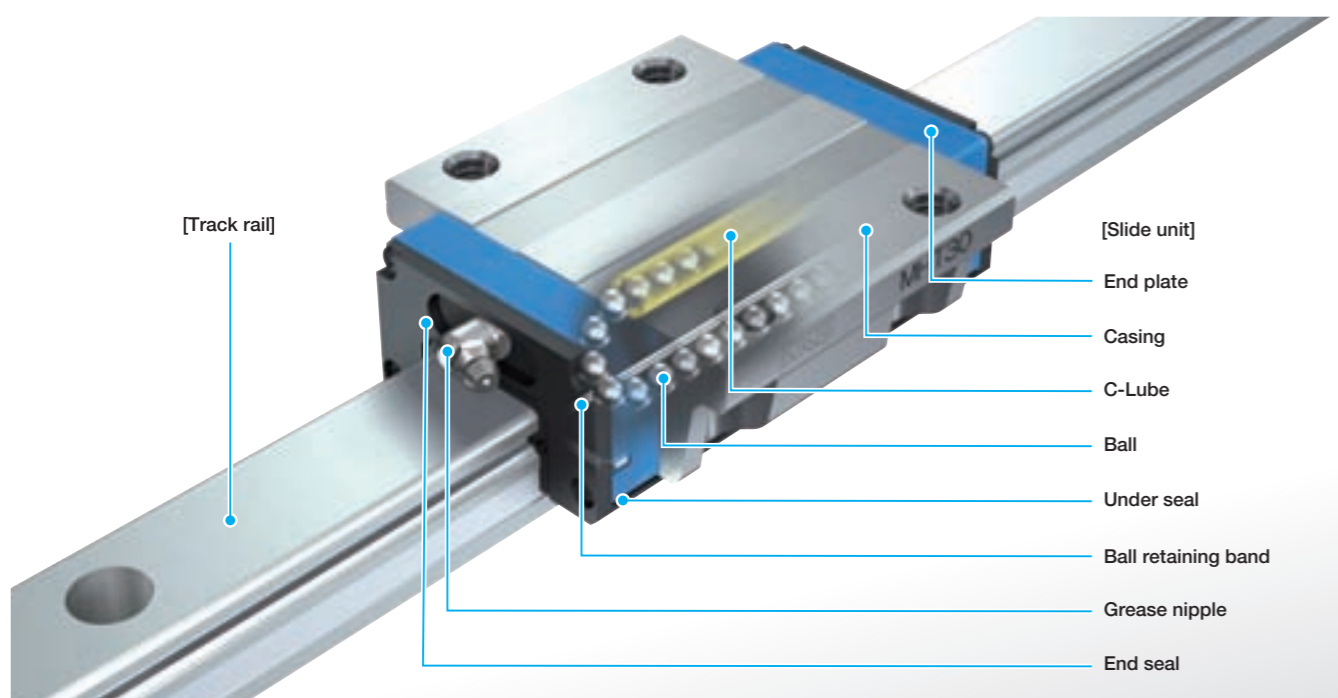
MH...M (Size: 25 and 30)



Ultra seal specification for C-Lube Maintenance Free MH Series released!

C-Lube Linear Way MH realizes long period maintenance free thanks to the incorporated large-diameter ball and using the built-in lubrication parts C-Lube in the Linear Way H series slide unit with large load rating and rigidity. Further, Ultra seal specification is released with optimal sealing performance suitable for use in environment with foreign particles.

»»» MH...M Structure



»» MH...M Variation

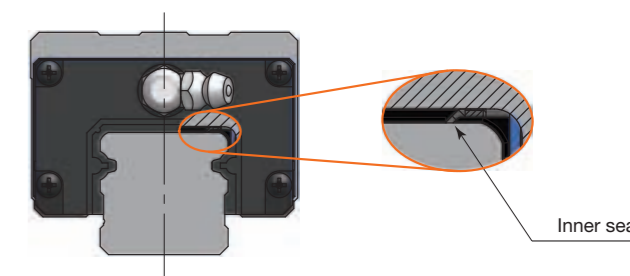
Shape	Length of slide unit	Model	Size	
			25	30
Flange type mounting from bottom	Standard	MH...M(U)	☆	☆ NEW
Flange type mounting from top	Standard	MHT...M(U)	☆	☆
Block type mounting from top	Standard	MHD...M(U)	☆	☆
Compact block type mounting from top	Standard	MHS...M(U)	☆	☆

Remark: Only standard slide unit length is available.

Features

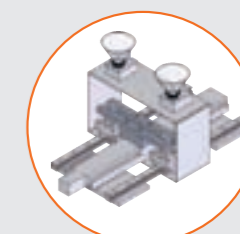
1 Ultra seal specification with optimal sealing performance

It has excellent dust protection performance thanks to the combination of the dedicated track rail finished with special grinding process and slide unit with end seal and under seal of optimal shapes. If you specify special specification / UR with inner seal, the inner seal can be attached to the inside of the slide unit. Inner seal improves dust protection property of the ball circulation section against foreign particles from the upper surface of the track rail.



■ Durability test in environment with foreign particles

Test conditions	Test portion	MH30M standard preload amount / caps for rail mounting hole and inner seal attached
	Maximum velocity	18 m/min
	Stroke length	500 mm
	Foreign substances	Fine metal particles Hardness HRC40 ~ 50 Particle diameter lower than 125 μm Application dose 20 g/h (total dose: 2 kg)



2 Long term maintenance free

Long term maintenance free is realized by using the built-in capillary lubrication parts "C-Lube" for the circulation path of rolling elements. The lubrication workload is reduced and the reliability of machine or device can be improved.

Example of an Identification Number

MHD **25** **C2** **R840** **M** **T₁** **P** **/UR**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

1 Model

MH	Flange type mounting from bottom
MHT	Flange type mounting from top
MHD	Block type mounting from top
MHS	Compact block type mounting from top

2 Size

25, 30

3 Number of slide unit (C○)

Specifies the number of slide units assembled on a track rail.

4 Length of track rail (R○)

Indicate the length of track rail in mm.
For standard and maximum lengths, see Table 1.

5 Dust protection specification

M	Ultra seal specification
MU	Ultra seal specification with bottom mount track rail

6 Size of preload amount

For details of the preload amount, see Table 2.

7 Accuracy class

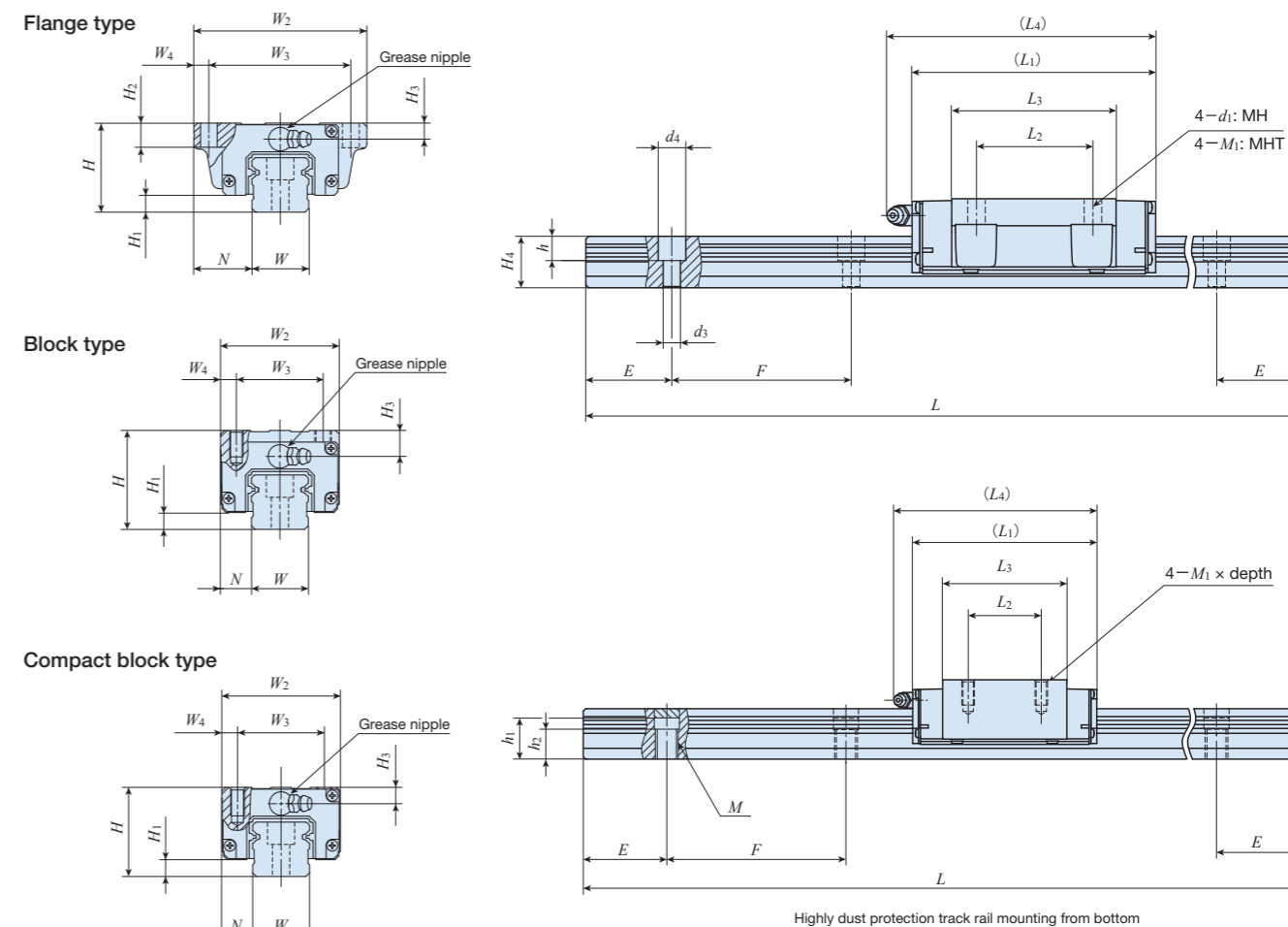
For accuracy class, see Table 3.

8 Special Specification

/A	Butt-jointing track rails
/D	Opposite reference surfaces arrangement
/E	Specified rail mounting hole positions
/F	Caps for rail mounting holes
/I	Inspection sheet
/J	Female threads for bellows
/L	Black chrome surface treatment
/LF	Fluorine black chrome surface treatment
/MA ⁽¹⁾	With track rail mounting bolt
/UR	Inner seal
/V	Double end seals
/W○	A group of multiple assembled sets
/YCG	Specified grease (Low Dust-Generation Grease for Clean Environment CG2)
/Z	Scrapers

Note ⁽¹⁾ Not applicable to MH (T, D, and S)---MU.
Remark: For details of special specification, please see the Linear Motion Rolling Guide Series General Catalog CAT-1552④.

Dimension



Remark: For details of specifications such as each dimension and load rating, please see the Linear Motion Rolling Guide Series General Catalog CAT-1552④.

Table 1 Standard and maximum lengths of track rail unit: mm

Item	Identification Number	MH25...M MH25...MU	MH30...M MH30...MU
Standard length <i>L</i> ⁽¹⁾		240 (4)	480 (6)
		480 (8)	640 (8)
		660(11)	800(10)
		840(14)	1 040(13)
		1 020(17)	1 200(15)
		1 200(20)	1 520(19)
Pitch of mounting holes <i>F</i>		60	80
<i>E</i>		30	40
<i>E</i> reference dimensions ⁽²⁾	or higher	9	10
	below	39	50
Maximum length		3 000	2 960
Maximum number of butt-jointing track rails		3	3
Maximum length of butt-jointing track rail		8 700	8 480

Notes ⁽¹⁾ The value in () indicates the number of mounting holes.
⁽²⁾ Not applicable to the track rail with female threads for bellows (supplemental code "/J").
Remarks: 1. A typical identification number is indicated, but is applied to all models of the same size.
2. If not directed, *E* dimensions for both ends will be the same within the range of *E* reference dimensions.
To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification.

Table 2 Preload amount

Preload amount type	Preload amount symbol	Preload amount <i>N</i>	Operational conditions
Standard	(No symbol)	0 ⁽¹⁾	• Light and precise motion
Light preload amount	T1	0.02 <i>C</i> ₀	• Almost no vibrations • Load is evenly balanced • Light and precise motion
Medium preload amount	T2	0.05 <i>C</i> ₀	• Medium vibration • Medium overhung load applied
Heavy preload amount	T3	0.08 <i>C</i> ₀	• Operation with vibration and / or shock • Overhanging load applied • Heavy cutting

Note ⁽¹⁾ Indicates zero or minimal amount of preload amount.
Remark: *C*₀ indicates the basic static load rating.

Table 3 Tolerance and allowance

Item	Class (classification symbol)	High (H)	Precision (P)	Super precision (SP)
Dim. <i>H</i> tolerance		±0.040	±0.020	±0.010
Dim. <i>N</i> tolerance		±0.050	±0.025	±0.015
Dimension variation of <i>H</i> ⁽¹⁾		0.015	0.007	0.005
Dimension variation of <i>N</i> ⁽¹⁾		0.020	0.010	0.007
Slide unit against the A surface Parallelism during running on the C surface		See Fig. 1		
Slide unit against the B surface Parallelism during running on the D surface		See Fig. 1		

Note ⁽¹⁾ The value shows variation of slide units incorporated in the same track rail.

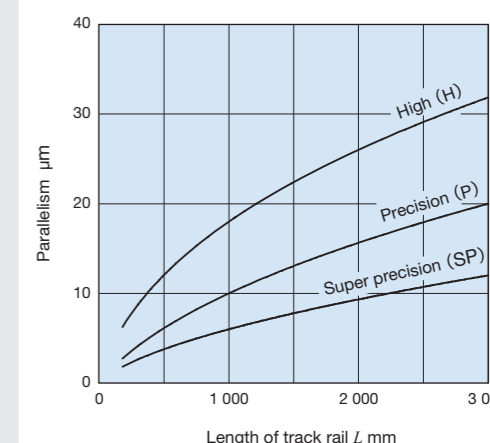


Fig. 1 Parallelism in operation