

C-Lube Linear Way MH

MH



The aquamarine end plate is the symbol of maintenance free.

Track rail

Slide unit

Casing

C-Lube

Ball

End plate

Under seal

Ball retaining band

End seal

Grease nipple

Linear Way H

LWH

Points

- High rigidity series with the maximum load rating among ball types

High rigidity linear motion rolling guide having a maximum load rating among ball-type units by incorporating a large-diameter ball.

- Wide range of variations for your needs For details P.I-26

As the lineup of 5 types of slide unit shape including the flange type, block type with small width and side mounting type, etc., and 3 types with different slide unit length with same section are available, you can select an optimal product for the specifications of your machine and device.

- Stainless steels superior in corrosion resistance are listed on lineup. For details P.I-41

Products made of stainless steel are highly resistant to corrosion, so that they are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

- Series of high sealed specification for excellent dust protection performance

Products of high sealed specifications have excellent dust protection performance thanks to the combination of the dedicated track rail finished with total ground and slide unit with end seal and under seal of special shapes.

Identification Number and Specification

Example of an identification number

The specifications of MH and LWH series are indicated by the identification number. Indicate the identification number, consisting of a model code, dimensions, a part code, a seal code, a material code, a preload symbol, a classification symbol, an interchangeable code, and a supplemental code for each specification to apply.

Interchangeable specification												
	1	2	3	4	5	1	6	7	8	9	10	11
Single slide unit	MHT	G	20	C1					T ₁	P	S1	/V
Single track rail (1)	LWH		20		R840	B				P	S1	/F
Assembled set	MHT	G	20	C1	R840				T ₁	P	S1	/FV
Non-interchangeable specification												
Assembled set	MHT	G	20	C1	R840				T ₁	P		/FV

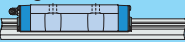
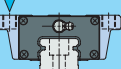
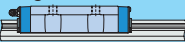
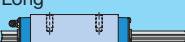
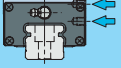
1	Model	Model code Page II—69 Page II—70
2	Length of slide unit	
3	Size	Dimensions Page II—70
4	Number of slide units	Part code Page II—70 Page II—71
5	Length of track rail	
6	Sealed specification	Seal code Page II—72
7	Material type	Material code Page II—74
8	Preload amount	Preload code Page II—74
9	Accuracy class	Classification code Page II—75
10	Interchangeable	Interchangeable code Page II—76
11	Special specification	Supplemental code Page II—76

Note (1) Indicate "LWH···B" or "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.

Details of Identification Number and Specification — Model —

1	Model	C-Lube Linear Way MH (MH series)	Flange type mounting from bottom : MH Flange type mounting from top ⁽²⁾ : MHT Block type mounting from top : MHD Compact block type mounting from top : MHS
		Linear Way H ⁽¹⁾ (LWH series)	Flange type mounting from bottom : LWH (…B) Flange type mounting from top ⁽²⁾ : LWHT (…B) Block type mounting from top : LWHD (…B) Compact block type mounting from top : LWHS (…B) Side mounting type : LWHY
For applicable models and sizes, see Table 1.1 and Table 1.2. Indicate "LWH…B" or "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.			
Notes ⁽¹⁾ This model has no built-in C-Lube. ⁽²⁾ Some models may be mounted upward.			

Table 1.1 Models and sizes of MH and LWH series

Material	Shape	Slide unit Length	Model	Size												
				8	10	12	15	20	25	30	35	45	55	65	85	
High carbon steel made			MH	—	—	—	○	○	○	○	○	○	—	—	—	
			LWH…B	—	—	—	○	○	○	○	○	○	○	—		
			LWH…M (U)	—	—	—	○	○	○	○	○	—	—	—		
			MHG	—	—	—	—	○	○	○	○	○	—	—	—	
	LWHG		—	—	—	—	○	○	○	○	○	○	○	○ ⁽³⁾		
			MHT	—	—	○ ⁽¹⁾	○	○	○	○	○	○	—	—	—	
			LWHT…B	—	—	○ ⁽¹⁾⁽²⁾	○	○	○	○	○	○	○	—		
			LWHT…M (U)	—	—	—	○	○	○	○	○	—	—	—		
			MHTG	—	—	—	○ ⁽¹⁾	○	○	○	○	○	—	—	—	
			LWHTG	—	—	—	—	○	○	○	○	○	○	○	○ ⁽³⁾	
			MHTL ⁽¹⁾	—	—	—	—	—	—	○	○	○	—	—	—	
				MHD	—	—	○	○	—	○	○	○	○	—	—	—
				LWHD…B	—	—	○ ⁽²⁾	○	—	○	○	○	○	○	—	
		LWHD…M (U)		—	—	—	○	—	○	○	○	—	—	—		
			MHDG	—	—	—	—	—	○	○	○	○	—	—	—	
			LWHDG	—	—	—	—	—	○	○	○	○	○	—		
				MHDL	—	—	—	—	—	—	○	○	○	—	—	—
					MHS	—	—	—	○	○	○	○	—	—	—	—
		LWHS…B	—		—	—	○	○	○	○	—	—	—	—		
		LWHS…M (U)	—		—	—	○	○	○	○	—	—	—	—		
			MHSG	—	—	—	○	○	○	○	—	—	—	—		
			LWHS	—	—	—	—	○	○	○	—	—	—	—		
			LWHY	—	—	—	○	○	○	○	○	○	○	—		

Notes ⁽¹⁾ This may be mounted upward.
⁽²⁾ "...B" is not included in the model code.
⁽³⁾ This unit is prepared based on respective usages.
Remark: For the models indicated in , the interchangeable specification is available.

— Model · Length of Slide Unit · Size · Number of Slide Unit —

2	Length of slide unit	Short	: C	For applicable models and sizes, see Table 1.1 and Table 1.2.
		Standard	: No symbol	
		Long	: G	
		Extra long	: L	
3	Size	8, 10, 12, 15, 20, 25, 30, 35, 45, 55, 65, 85	For applicable models and sizes, see Table 1.1 and Table 1.2.	
4	Number of slide units		: C○	For an assembled set, indicates the number of slide units assembled on a track rail. For a single slide unit, only "C1" is specified.

Table 1.2 Models and sizes of MH and LWH series

Material	Shape	Slide unit Length	Model	Size												
				8	10	12	15	20	25	30	35	45	55	65	85	
Stainless steel made	Flange type mounting from bottom 	Standard 	LWH...SL	—	—	—	○	○	○	○	—	—	—	—	—	
	Flange type mounting from top 	Standard 	MHT...SL	○ ⁽¹⁾	○ ⁽¹⁾	○ ⁽¹⁾	○	○	○	○	—	—	—	—	—	
			LWHT...SL	○ ⁽¹⁾	○ ⁽¹⁾	○ ⁽¹⁾	○	○	○	○	—	—	—	—	—	
	Block type mounting from top 	Short 	MHDC...SL	○	○	○	—	—	—	—	—	—	—	—	—	
		Standard 	LWDC...SL	○	○	○	—	—	—	—	—	—	—	—	—	
			MHD...SL	○	○	○	—	—	—	—	—	—	—	—	—	
		Long 	LWHD...SL	○	○	○	—	—	—	—	—	—	—	—	—	
			MHDG...SL	○	○	○	—	—	—	—	—	—	—	—	—	
		Compact block type mounting from top 	Standard 	MHS...SL	—	—	—	○	○	○	○	—	—	—	—	—
	LWHS...SL			—	—	—	○	○	○	○	—	—	—	—	—	

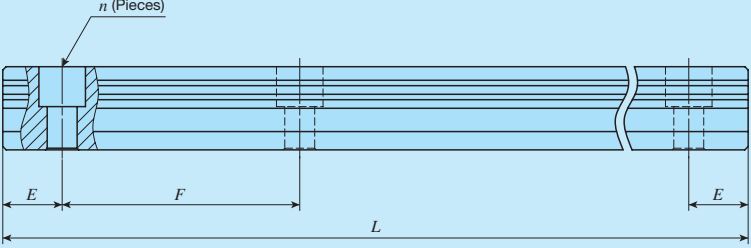
Note ⁽¹⁾ This may be mounted upward.
Remark: For the models indicated in , the interchangeable specification is available.

MH · LWH

5 Length of track rail

: RO Indicate the length of track rail in mm.
For standard and maximum length, see Table 2.1 and
Table 2.2.

Table 2.1 Standard and maximum length of high carbon steel track rail

					
unit: mm					
Identification number	MH 12 LWH12	MH 15 LWH15···B	MH 20 LWH20···B	MH 25 LWH25···B	MH 30 LWH30···B
Standard length <i>L</i> (<i>n</i>)	80 (2)	180 (3)	240 (4)	240 (4)	480 (6)
	160 (4)	240 (4)	480 (8)	480 (8)	640 (8)
	240 (6)	360 (6)	660 (11)	660 (11)	800 (10)
	320 (8)	480 (8)	840 (14)	840 (14)	1 040 (13)
	400 (10)	660 (11)	1 020 (17)	1 020 (17)	1 200 (15)
	480 (12)	900 (15)	1 200 (20)	1 200 (20)	1 520 (19)
	560 (14)	1 200 (20)	1 500 (25)	1 500 (25)	2 000 (25)
	640 (16)			1 980 (33)	
	720 (18)				
Pitch of mounting holes <i>F</i>	40	60	60	60	80
<i>E</i>	20	30	30	30	40
<i>E</i> reference or higher dimensions ⁽¹⁾ below	5.5	7	8	9	10
Maximum length ⁽²⁾	1 480	1 500 (3 000)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)
Identification number	MH 35 LWH35···B	MH 45 LWH45···B	LWH55···B	LWH65···B	LWHG85 ⁽³⁾
Standard length <i>L</i> (<i>n</i>)	480 (6)	840 (8)	840 (7)	1 500 (10)	—
	640 (8)	1 050 (10)	1 200 (10)	1 950 (13)	
	800 (10)	1 260 (12)	1 560 (13)	3 000 (20)	
	1 040 (13)	1 470 (14)	1 920 (16)		
	1 200 (15)	1 995 (19)	3 000 (25)		
	1 520 (19)				
Pitch of mounting holes <i>F</i>	80	105	120	150	180
<i>E</i>	40	52.5	60	75	90
<i>E</i> reference or higher dimensions ⁽¹⁾ below	10	12.5	15	17	23
Maximum length ⁽²⁾	2 960 (4 000)	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 880

Notes ⁽¹⁾ This does not apply to female threads for bellows (supplemental code "/J").

⁽²⁾ Length up to the value in () can be produced. If needed, please contact **IKO**.

⁽³⁾ This unit is prepared based on respective usages.

Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.

2. Indicate "LWH" for series of size 12 or "LWH···B" for series of size 15 or above for the model code of the single track rail regardless of the series and the combination of slide unit models.

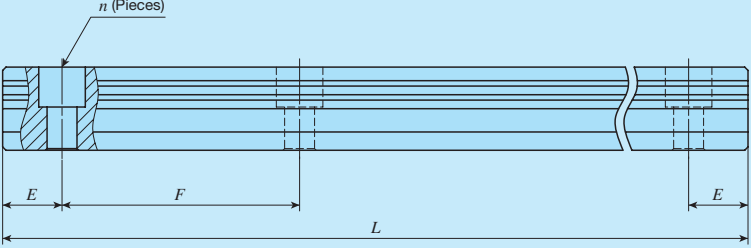
3. For high sealed specifications, refer to Table 2.3 and Table 2.4.

4. 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. For more information, see page III-29.

6 Sealed specification

Standard specification : No symbol For applicable models and sizes, see Table 1.1 and Table 1.2.
Highly sealed specification : M Each specification of highly sealed track rail mounting from bottom is in compliance to the highly sealed specification.
Highly sealed track rail mounting from bottom : MU Highly sealed track rail mounting from bottom applies to products to fix the track rail on the mounting surface side by pressing in the aluminum caps for rail mounting holes to the mounting hole of the track rail in advance. As the upper surface of the track rail is flat, adhesion to the seal is high and sealing effect is improved further.
For track rail specifications, see Table 2.3 and Table 2.4.

Table 2.2 Standard and maximum length of stainless steel track rail

							
unit: mm							
Identification number	MH 8···SL LWH8···SL	MH 10···SL LWH10···SL	MH 12···SL LWH12···SL	MH 15···SL LWH15···SL	MH 20···SL LWH20···SL	MH 25···SL LWH25···SL	MH 30···SL LWH30···SL
Standard length <i>L</i> (<i>n</i>)	40 (2)	50 (2)	80 (2)	180 (3)	240 (4)	240 (4)	480 (6)
	80 (4)	100 (4)	160 (4)	240 (4)	480 (8)	480 (8)	640 (8)
	120 (6)	150 (6)	240 (6)	360 (6)	660 (11)	660 (11)	800 (10)
	160 (8)	200 (8)	320 (8)	480 (8)	840 (14)	840 (14)	1 040 (13)
	200 (10)	250 (10)	400 (10)	660 (11)			
	240 (12)	300 (12)	480 (12)				
	280 (14)	350 (14)	560 (14)				
		400 (16)	640 (16)				
		450 (18)	720 (18)				
Pitch of mounting holes <i>F</i>	20	25	40	60	60	60	80
<i>E</i>	10	12.5	20	30	30	30	40
<i>E</i> reference or higher dimensions ⁽¹⁾ below	4.5	5	5.5	7	8	9	10
Maximum length ⁽²⁾	480 (1 000)	850 (1 000)	1 000 (1 480)	1 200 (1 500)	1 200 (3 000)	1 200 (3 000)	1 200 (2 960)

Notes ⁽¹⁾ This does not apply to female threads for bellows (supplemental code "/J").

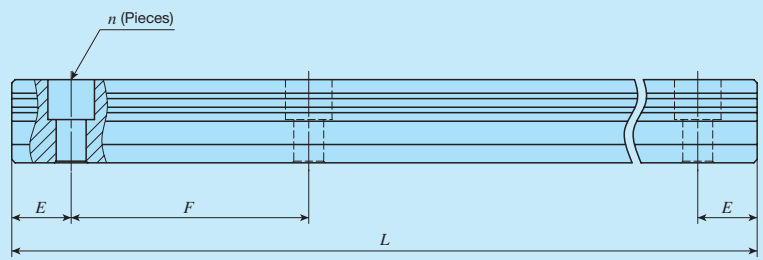
⁽²⁾ Length up to the value in () can be produced. If needed, please contact **IKO**.

Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.

2. Indicate "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.

3. 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. For more information, see page III-29.

Table 2.3 Standard and maximum length of highly sealed specification high carbon steel track rail

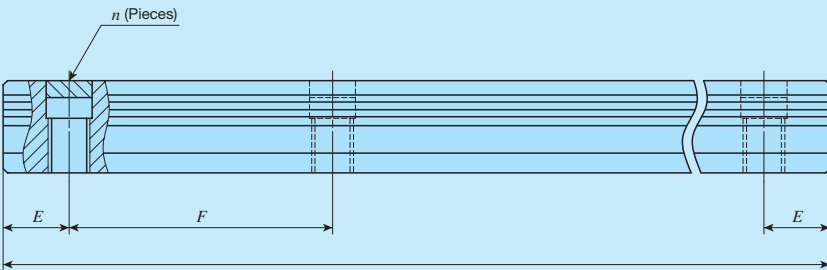
						
unit: mm						
Item	Identification number	LWH15...M	LWH20...M	LWH25...M	LWH30...M	LWH45...M
Standard length <i>L</i> (<i>n</i>)		180 (3)	240 (4)	240 (4)	480 (6)	480 (6)
		240 (4)	480 (8)	480 (8)	640 (8)	640 (8)
		360 (6)	660 (11)	660 (11)	800 (10)	800 (10)
		480 (8)	840 (14)	840 (14)	1 040 (13)	1 040 (13)
		660 (11)	1 020 (17)	1 020 (17)	1 200 (15)	1 200 (15)
Pitch of mounting holes <i>F</i>		60	60	60	80	80
<i>E</i>		30	30	30	40	40
<i>E</i> reference dimensions ⁽¹⁾	or higher	7	8	9	10	10
	below	37	38	39	50	50
Maximum length		1 500	1 980	3 000	2 960	2 960
Maximum number of butt-jointing track rails		3	3	3	3	3
Maximum length of butt-jointing track rail		4 200	5 640	8 700	8 480	8 480

Note ⁽¹⁾ This does not apply to 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. For more information, see page III-29.

Table 2.4 Standard and maximum length of highly sealed track rail mounting from bottom

						
unit: mm						
Item	Identification number	LWH15...MU	LWH20...MU	LWH25...MU	LWH30...MU	LWH45...MU
Standard length <i>L</i> (<i>n</i>)		180 (3)	240 (4)	240 (4)	480 (6)	480 (6)
		240 (4)	480 (8)	480 (8)	640 (8)	640 (8)
		360 (6)	660 (11)	660 (11)	800 (10)	800 (10)
		480 (8)	840 (14)	840 (14)	1 040 (13)	1 040 (13)
		660 (11)	1 020 (17)	1 020 (17)	1 200 (15)	1 200 (15)
Pitch of mounting holes <i>F</i>		60	60	60	80	80
<i>E</i>		30	30	30	40	40
<i>E</i> reference dimensions ⁽¹⁾	or higher	7	8	9	10	10
	below	37	38	39	50	50
Maximum length		1 500	1 980	3 000	2 960	2 960
Maximum number of butt-jointing track rails		3	3	3	3	3
Maximum length of butt-jointing track rail		4 200	5 640	8 700	8 480	8 480

Note ⁽¹⁾ This does not apply to 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. Track rail mounting bolt is not included.

3. 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. For more information, see page III-29.

7	Material type	High carbon steel made	: No symbol	For applicable models and sizes, see Table 1.1 and Table 1.2.
		Stainless steel made	: SL	
8	Preload amount	Clearance	: T ₀	Specify this item for an assembled set or a single slide unit.
		Standard	: No symbol	For details of the preload amount, see Table 3.
		Light preload	: T ₁	For applicable preload types, see Table 4.
		Medium preload	: T ₂	
		Heavy preload	: T ₃	

Table 3 Preload amount

Item	Preload symbol	Preload amount N	Operational conditions
Preload type			
Clearance	T ₀	0 ⁽¹⁾	· Very light motion
Standard	(No symbol)	0 ⁽²⁾	· Light and precise motion
Light preload	T ₁	0.02C ₀	· Almost no vibrations · Load is evenly balanced · Light and precise motion
Medium preload	T ₂	0.05C ₀	· Medium vibration · Medium overhung load
Heavy preload	T ₃	0.08C ₀	· Operation with vibration and/or shock · Overhanging load applied · Heavy cutting

Notes ⁽¹⁾ There is zero or subtle clearance.

⁽²⁾ Indicates zero or minimal amount of preload.

Remark: C₀ indicates the basic static load rating.

Table 4 Application of preload

Size	Preload type (preload symbol)				
	Clearance (T ₀)	Standard (No symbol)	Light preload (T ₁)	Medium preload (T ₂)	Heavy preload (T ₃)
8	○	○	○	—	—
10	○	○	○	—	—
12	○	○	○	—	—
15	—	○	○	○	○
20	—	○	○	○	○
25	—	○	○	○	○
30	—	○	○	○	○
35	—	○	○	○	○
45	—	○	○	○	○
55	—	○	○	○	○
65	—	○	○	○	○
85	—	○	○	○	○

Remark: The values indicated in are also applicable to the interchangeable specifications.

9	Accuracy class	High	: H	For interchangeable specification products, assemble a slide unit and a track rail of the same accuracy class. For details of accuracy class, see Table 5.1 and Table 5.2. For applicable accuracy class, see Table 6.
		Precision	: P	
		Super precision	: SP	

Table 5.1 Tolerance and allowance (Series of size 15 or higher)

Flange type, block type, and compact block type

Side mounting type

unit: mm

Item	Class (classification symbol)	High (H)	Precision (P)	Super precision (SP)
Dim. H tolerance		± 0.040	± 0.020	± 0.010
Dim. N tolerance		± 0.050	± 0.025	± 0.015
Dim. variation of H ⁽¹⁾		0.015	0.007	0.005
Dim. variation of N ⁽¹⁾		0.020	0.010	0.007
Dim. variation of H for multiple assembled sets ⁽²⁾		0.035	0.025	—
Slide unit against the A surface Parallelism during running on the C surface		Based on Fig. 1.1		
Slide unit against the B surface Parallelism during running on the D surface		Based on Fig. 1.1		

Notes ⁽¹⁾ The value shows variation of slide units incorporated in the same track rail.
⁽²⁾ Applicable to the interchangeable specifications.

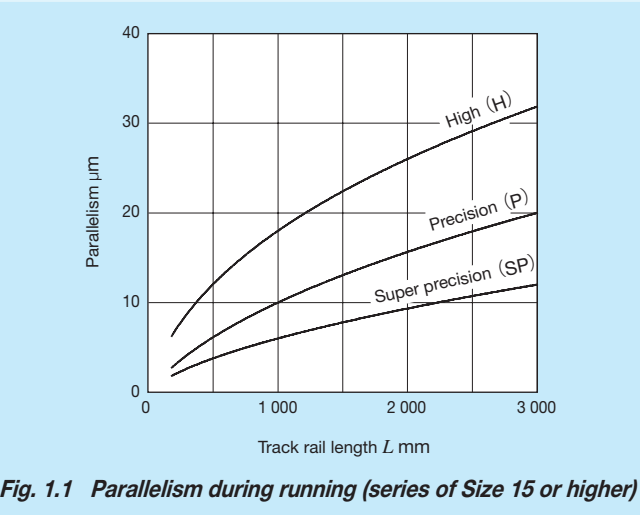
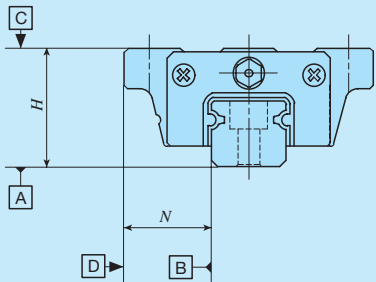


Table 5.2 Tolerance and allowance (Series of size 8 to 12)

		unit: mm	
Item	Class (classification symbol)	High (H)	Precision (P)
Dim. H tolerance		± 0.020	± 0.010
Dim. N tolerance		± 0.025	± 0.015
Dim. variation of H ⁽¹⁾		0.015	0.007
Dim. variation of N ⁽¹⁾		0.020	0.010
Dim. variation of H for multiple assembled sets ⁽²⁾		0.030	0.020
Parallelism in operation of the slide unit C surface to A surface		Based on Fig. 1.2	
Parallelism in operation of the slide unit D surface to B surface		Based on Fig. 1.2	

Notes ⁽¹⁾ The value shows variation of slide units incorporated in the same track rail.
⁽²⁾ Applicable to the interchangeable specifications.

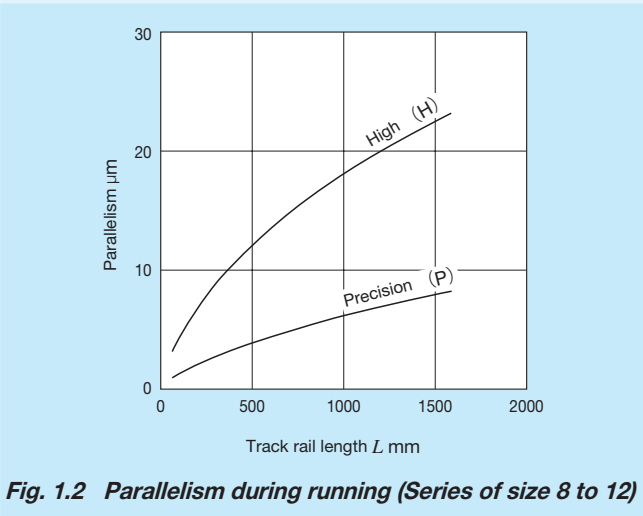


Table 6 Application of accuracy class

Size	Class (classification symbol)		
	High (H)	Precision (P)	Super precision (SP)
8	○	○	—
10	○	○	—
12	○	○	—
15	○	○	○
20	○	○	○
25	○	○	○
30	○	○	○
35	○	○	○
45	○	○	○
55	○	○	○
65	○	○	○
85 ⁽¹⁾	○	○	○

Note ⁽¹⁾ This is individually corresponding.
Remark: The values indicated in are also applicable to the interchangeable specifications.

10	Interchangeable	S1 specification	: S1	This is specified for the interchangeable specifications. Assemble a track rail and a slide unit with the same interchangeable code. Performance and accuracy of "S1" and "S2" are the same. For applicable models and sizes, see Table 1.1 and Table 1.2. No symbol is indicated for non-interchangeable specification.
		S2 specification	: S2	
		Non-interchangeable specification	: No symbol	

11 Special specification

/A, /BS, /D, /E, /F, /I, /JO,
/LO, /LF, /MA, /MN, /N,
/PS, /Q, /RE, /T, /U, /VO,
/WO, /YO, /ZO

For applicable special specification, see Table 7.1, Table 7.2, Table 7.3, and Table 7.4.
For combination of multiple special specifications, see Table 8.
For details of special specification, see page III-28.

Table 7.1 Application of special specifications (Interchangeable specification and slide unit specification)

[illegible]

Notes (1) Applicable to LWH series.

(2) Not applicable to stainless steel made products.

Table 7.2 Application of special specifications (Interchangeable specification and track rail specification)

[illegible]

Note (1) Not applicable to stainless steel made products.

Table 7.3 Application of special specifications (Interchangeable specification and assembled set)

Special specification	Supplemental code	Size												
		8	10	12	15	20	25	30	35	45	55	65	85	
Stainless steel end plate ⁽¹⁾	/BS	×	×	×	○	○	○	○	×	×	×	×	—	
Opposite reference surfaces arrangement	/D	○	○	○	○	○	○	○	○	○	○	○	—	
Specified rail mounting hole positions	/E	○	○	○	○	○	○	○	○	○	○	○	—	
Caps for rail mounting holes	/F	×	×	○	○	○	○	○	○	○	○	○	—	
Female threads for bellows ⁽²⁾	/J○	×	×	×	○	○	○	○	○	○	○	○	—	
Black chrome surface treatment	/L○	×	×	×	○	○	○	○	○	○	○	○	—	
Fluorine black chrome surface treatment	/LF○	×	×	×	○	○	○	○	○	○	○	○	—	
With track rail mounting bolt ⁽³⁾	/MA	○	○	○	○	○	○	○	○	○	×	×	—	
Without track rail mounting bolt ⁽¹⁾	/MN	○	○	○	○	○	○	○	○	○	○	○	—	
No end seal	/N	○	○	○	○	○	○	○	○	○	○	○	—	
With C-Lube plate ⁽¹⁾	/Q	○	○	○	○	○	○	○	○	○	○	○	—	
Special environment seal ⁽¹⁾	/RE	×	×	×	○	○	○	○	×	×	×	×	—	
Butt-jointing track rails	/T	×	×	×	○	○	○	○	○	○	○	○	—	
Under seal	/U	○	○	○	×	×	×	×	×	×	×	×	—	
Double end seals	/V○	×	×	×	○	○	○	○	○	○	○	○	—	
Specified grease ⁽⁴⁾	/Y○	×	×	×	○	○	○	○	○	○	○	○	—	
Scrapers	/Z○	×	×	×	○	○	○	○	○	○	○	○	—	

Notes (1) Applicable to LWH series.

(2) Not applicable to stainless steel made products.

(3) Applicable to MH series.

(4) MH series is applicable only to /YCG.

—Special Specification—

Table 7.4 Application of special specifications (Non-interchangeable specification)

Special specification	Supplemental code	Size											
		8	10	12	15	20	25	30	35	45	55	65	85
Butt-jointing track rails	/A	○	○	○ ⁽¹⁾	○	○	○	○	○	○	○	○	×
Stainless steel end plate ⁽²⁾ ⁽³⁾	/BS	×	×	×	○	○	○	○	×	×	×	×	×
Opposite reference surfaces arrangement ⁽³⁾	/D	○	○	×	○	○	○	○	○	○	○	○	×
Specified rail mounting hole positions	/E	○	○	○	○	○	○	○	○	○	○	○	×
Caps for rail mounting holes ⁽⁴⁾	/F	×	×	○	○	○	○	○	○	○	○	○	×
Inspection sheet	/I	○	○	○	○	○	○	○	○	○	○	○	×
Female threads for bellows ⁽³⁾	/J○	×	×	×	○	○	○	○	○	○	○	○	×
Black chrome surface treatment	/L○	○ ⁽⁵⁾	○ ⁽⁵⁾	○ ⁽⁵⁾	○	○	○	○	○	○	○	○	×
Fluorine black chrome surface treatment	/LF○	×	×	×	○	○	○	○	○	○	○	○	×
With track rail mounting bolt ⁽⁶⁾	/MA	○	○	○	○	○	○	○	○	○	×	×	×
Without track rail mounting bolt ⁽²⁾ ⁽⁴⁾	/MN	○	○	○	○	○	○	○	○	○	○	○	×
No end seal ⁽⁷⁾	/N	○	○	○	○	○	○	○	○	○	○	○	×
Rail cover plate for track rail ⁽⁷⁾ ⁽⁸⁾	/PS	×	×	×	×	×	○	○	○	○	○	○	×
With C-Lube plate ⁽²⁾ ⁽³⁾ ⁽⁷⁾	/Q	○	○	○	○	○	○	○	○	○	○	○	×
Special environment seal ⁽²⁾ ⁽⁷⁾	/RE	×	×	×	○	○	○	○	×	×	×	×	×
Under seal	/U	○	○	○	×	×	×	×	×	×	×	×	×
Double end seals	/V○	×	×	×	○	○	○	○	○	○	○	○	×
A pair of multiple assembled sets ⁽³⁾	/W○	○	○	○	○	○	○	○	○	○	○	○	×
Specified grease ⁽⁹⁾	/Y○	○	○	○	○	○	○	○	○	○	○	○	×
Scrapers	/Z○	×	×	×	○	○	○	○	○	○	○	○	×

Notes (1) Not applicable to high carbon steel made products.

(2) Applicable to LWH series. / YCG is applicable to MH series.

(3) This does not apply to side mounting type (LWHY).

(4) This does not apply to highly sealed track rail mount

(5) Applicable only to "LR".

(6) Applicable to MH series

(7) This does not apply to hi

(8) Not applicable to stainless steel made products

(9) MH series is applicable only to NCG

(*) MH series is applicable only to /YCG.

Table 8 *Combination of supplemental codes*

[illegible]

Note (1) Contact IKO for the case of size 8 to 12.

Remarks 1. The combination of "-" shown in the table is not available.

2. Contact **IKO** for the combination of the interchangeable specification marked with ●.

3. When using multiple types for combination, indicate the symbols in alphabetical order.

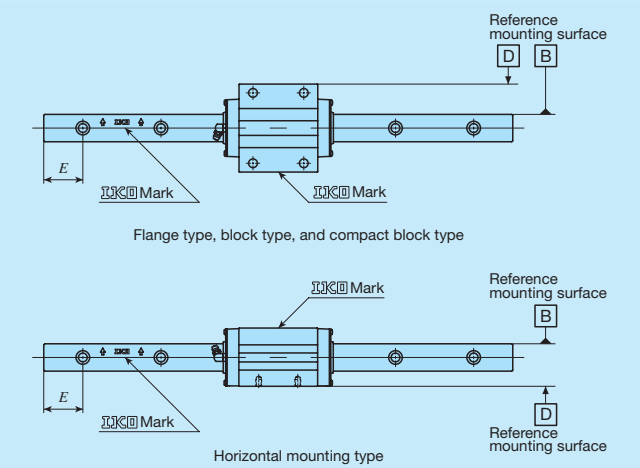


Fig. 2 Specified rail mounting hole positions (Supplemental code /E)

Remark: For details of specified rail mounting hole positions (supplemental code /E), see page III-29.

Table 9.1 Dimensions of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)

Flange type

unit: mm

Identification number		Slide unit									Track rail		
		a_1	a_2	b_1	b_2	b_3	b_4	$M_1 \times \text{depth}$	$L_1^{(2)}$	H_3	a_3	a_4	$M_2 \times \text{depth}$
MH(T) 15	LWH(T) 15···B	3	7	15.5	16	9.5	28	M3× 6	83	6.5	4	8	M3× 6
—	LWH(T) 15···M								86				
MHTG 15	—								99				
MH(T) 20	LWH(T) 20···B	4	10	20.5	22	13.5	36	M3× 6	99	8.5	5	9	M4× 8
—	LWH(T) 20···M(U)								103				
MH(T)G 20	LWH(T)G 20								128				
MH(T) 25	LWH(T) 25···B	4	13	22	26	15	40	M3× 6	110	8.5	5	12	M4× 8
—	LWH(T) 25···M(U)								115				
MH(T)G 25	LWH(T)G 25								133				
MH(T) 30	LWH(T) 30···B	5	17	28	34	20	50	M3× 6	128	11	6	14	M4× 8
—	LWH(T) 30···M(U)								133				
MH(T)G 30	LWH(T)G 30								154				
MHTL 30	—	6	20	30	40	20	60	M3× 6	200	13	7	15	M4× 8
MH(T) 35	LWH(T) 35···B								137				
—	LWH(T) 35···M(U)								143				
MH(T)G 35	LWH(T)G 35	7	26	35	50	23	74	M4× 8	165	15	8	19	M5×10
MHTL 35	—								213				
MH(T) 45	LWH(T) 45···B								160				
—	LWH(T) 45···M(U)	7	32	40	60	27	86	M4× 8	167	15	8	19	M5×10
MH(T)G 45	LWH(T)G 45								203				
MHTL 45	—								251				
—	LWH(T) 55···B	7	32	40	60	27	86	M4× 8	196	17	8	25	M5×10
—	LWH(T)G 55								248				
—	LWH(T) 65···B								240				
—	LWH(T)G 65	10	46	50	70	32	106	M5×10	314	20	10	28	M6×12

Notes (1) Grease nipple specifications and mounting position are different from standard specifications. Provided grease nipple for size 15 models is NPB2 type (special specification). For details of dimensions, contact IKO.
(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.
Remark: This is applicable to stainless steel models of the same size.

Table 9.2 Dimensions of female threads for bellows (Supplemental code Single unit: /J Assembled set: /J /JJ)

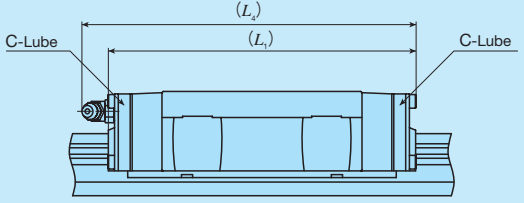
Block type		Compact block type			

unit: mm

Identification number		Slide unit								Track rail			
		a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	M ₁ ×depth	L ₁ ⁽²⁾	H ₃	a ₃	a ₄	M ₂ ×depth
MHD 15	LWHD 15…B	7	7	9	16	3	28	M3×6	83	10.5	4	8	M3×6
—	LWHD 15…M								86				
MHS 15	LWHS 15…B	3	7	9	16	3	28	M3×6	83	6.5	4	8	M3×6
—	LWHS 15…M(U)								86				
MHSG 15	—								99				
MHS 20	LWHS 20…B	4	10	11	22	4	36	M3×6	99	8.5	5	9	M4×8
—	LWHS 20…M(U)								103				
MHSG 20	LWHS 20								128				
MHD 25	LWHD 25…B	8	13	11	26	4	40	M3×6	110	12.5	5	12	M4×8
—	LWHD 25…M(U)								115				
MHDG 25	LWHDG 25								133				
MHS 25	LWHS 25…B	4	13	11	26	4	40	M3×6	110	8.5	5	12	M4×8
—	LWHS 25…M(U)								115				
MHSG 25	LWHS 25								133				
MHD 30	LWHD 30…B	8	17	13	34	5	50	M3×6	128	14	6	14	M4×8
—	LWHD 30…M(U)								133				
MHDG 30	LWHDG 30								154				
MHDL 30	—	5	17	13	34	5	50	M3×6	200	11	6	14	M4×8
MHS 30	LWHS 30…B								128				
—	LWHS 30…M(U)								133				
MHSG 30	LWHS 30	13	20	15	40	5	60	M3×6	154	20	7	15	M4×8
MHD 35	LWHD 35…B								137				
—	LWHD 35…M(U)								143				
MHDG 35	LWHDG 35	17	26	18	50	6	74	M4×8	165	25	8	19	M5×10
MHDL 35	—								213				
MHD 45	LWHD 45…B								160				
—	LWHD 45…M(U)	17	32	20	60	7	86	M4×8	167	27	8	25	M5×10
MHDG 45	LWHDG 45								203				
MHDL 45	—								251				
—	LWHD 55…B	17	32	20	60	7	86	M4×8	196	20	10	28	M6×12
—	LWHDG 55								248				
—	LWHD 65…B								240				
—	LWHDG 65	10	46	28	70	10	106	M5×10	314				

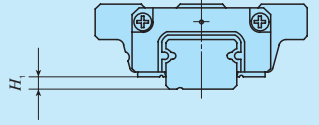
Notes (1) Grease nipple specifications and mounting position are different from standard specifications. Provided grease nipple for size 15 models is NPB2 type (special specification). For details of dimensions, contact IKO.
(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.
Remark: This is applicable to stainless steel models of the same size.

Table 10 Dimension of slide unit with C-Lube plate
(Supplemental code /Q)

		
unit: mm		
Identification number	L_1	L_4
LWHDC 8...SL	26	—
LWHT 8...SL	32	—
LWHD 8...SL		
LWHDG 8...SL	38.5	—
LWHDC 10...SL	34	—
LWHT 10...SL	42	—
LWHD 10...SL		
LWHDG 10...SL	50	—
LWHDC 12...SL	44	48
LWHT 12	56	60
LWHD 12		
LWHDG 12...SL	68	72
LWH 15...B	75	78
LWH 20...B	92	105
LWHG 20	121	134
LWH 25...B	105	116
LWHG 25	127	139
LWH 30...B	125	135
LWHG 30	151	161
LWH 35...B	134	146
LWHG 35	162	174
LWH 45...B	160	170
LWHG 45	203	214
LWH 55...B	196	207
LWHG 55	248	258
LWH 65...B	246	253
LWHG 65	321	328

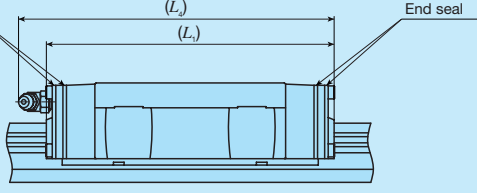
Remarks 1. The dimensions of the slide unit with C-Lube at both ends are indicated.
2. A typical identification number is indicated, but is applied to all LWH series models of the same size.

Table 11 H_1 dimension with under seal (Supplemental code /U)

	
unit: mm	
Size	H_1
8	1.5
10	1.8
12	3.2 ⁽¹⁾

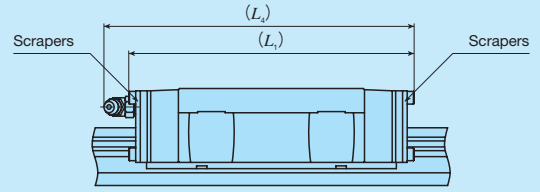
Note ⁽¹⁾ The dimensions are the same as those before mounting of under seal.

Table 12 Dimension of slide unit with double end seals
(Supplemental code Single unit: /V Assembled set: /V /VV)

			
unit: mm			
Identification number		L_1	L_4
MH 15	LWH 15...B	72	77
—	LWH 15...M(U)	71	76
MHTG 15	—	88	93
MH 20	LWH 20...B	91	104
—	LWH 20...M(U)	90	103
MHG 20	LWHG 20	119	133
MH 25	LWH 25...B	104	116
—	LWH 25...M(U)	103	115
MHG 25	LWHG 25	127	139
MH 30	LWH 30...B	122	134
—	LWH 30...M(U)	121	
MHG 30	LWHG 30	148	160
MHL 30	—	194	206
MH 35	LWH 35...B	133	146
—	LWH 35...M(U)		
MHG 35	LWHG 35	161	173
MHL 35	—	209	222
MH 45	LWH 45...B	159	170
—	LWH 45...M(U)	158	
MHG 45	LWHG 45	202	213
MHL 45	—	251	261
—	LWH 55...B	195	206
—	LWHG 55	247	258
—	LWH 65...B	241	251
—	LWHG 65	316	325

Remarks 1. The dimensions of the slide unit with double end seals at both ends are indicated.
2. A typical identification number is indicated, but is applied to all models of the same size.

Table 13 Dimensions of slide unit with scrapers (Supplemental code Single unit: /Z Assembled set: /Z /ZZ)

			
unit: mm			
Identification number		L_1	L_4
MH 15	LWH 15...B	73	75
—	LWH 15...M(U)	72	74
MHTG 15	—	89	91
MH 20	LWH 20...B	91	104
—	LWH 20...M(U)	90	100
MHG 20	LWHG 20	119	133
MH 25	LWH 25...B	104	116
—	LWH 25...M(U)	103	112
MHG 25	LWHG 25	126	138
MH 30	LWH 30...B	124	135
—	LWH 30...M(U)	123	131
MHG 30	LWHG 30	150	161
MHL 30	—	196	206
MH 35	LWH 35...B	133	146
—	LWH 35...M(U)		
MHG 35	LWHG 35	161	174
MHL 35	—	209	222
MH 45	LWH 45...B	160	170
—	LWH 45...M(U)	159	
MHG 45	LWHG 45	203	214
MHL 45	—	251	262
—	LWH 55...B	196	207
—	LWHG 55	248	258
—	LWH 65...B	242	251
—	LWHG 65	317	326

Remarks 1. The dimensions of the slide unit with scraper at both ends are indicated.
2. A typical identification number is indicated, but is applied to all models of the same size.

Table 15 Parts for lubrication

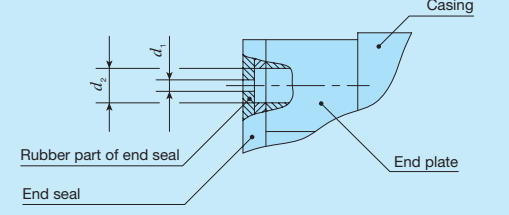
Size	Grease nipple type ⁽¹⁾	Applicable supply nozzle type	Bolt size of female threads for piping
8	Oil hole	Miniature greaser	—
10			
12	A-M3	A-5120V A-5240V B-5120V B-5240V	—
15	A-M4		
20	B-M6	Grease gun available on the market	M6
25			
30			
35			
45	JIS type 4		PT1/8
55			
65			
85 ⁽²⁾			

Notes ⁽¹⁾ For specifications of grease nipple, refer to Tables 15.1 and 15.2 in page III-22.
⁽²⁾ This unit is prepared based on respective usages.

In the series of size 8 to 12 of MH series and LWH series, lithium-soap base grease (MULTEMP PS No.2, KYODO YUSHI) is pre-packed, and in the series of size 15 to 85, lithium-soap base grease containing extreme-pressure additive (ALVANIA EP grease 2, SHOWA SHELL SEKIYU K. K.) is pre-packed. Additionally, MH series has C-Lube placed in the recirculation part of balls, so that the interval for reapplying lubricant can be extended and maintenance works such as grease job can be reduced significantly.

MH series and LWH series have grease nipple or oil hole as indicated in Table 15. Supply nozzles fit to each shapes of grease nipple and dedicated supplying equipment (miniature greasers) fit to oil holes are also available. For these parts for lubrication, refer to Table 14 and Table 15.1 on Page III-22, and Table 16 on page III-23 if required.

Table 14 Oil hole specifications

		
unit: mm		
Size	d_1	d_2
8	0.5	1.5
10		

Dust Protection

The slide units of MH series and LWH series are equipped with end seals and under seals as standard for dust protection. However, if large amount of contaminant or dust are floating, or if large particles of foreign substances such as chips or sand may adhere to the track rail, it is recommended to cover the entire unit with bellows, telescopic shields, etc. MH series and LWH series are provided with specific bellows. The bellows are easy to mount and provide excellent dust protection. If needed, please refer to Ⅲ-25 for ordering. And, track rail mounting from bottom with no mounting hole on the upper surface of the track rail (Figure 3) is also available. If needed, contact **IKO**.

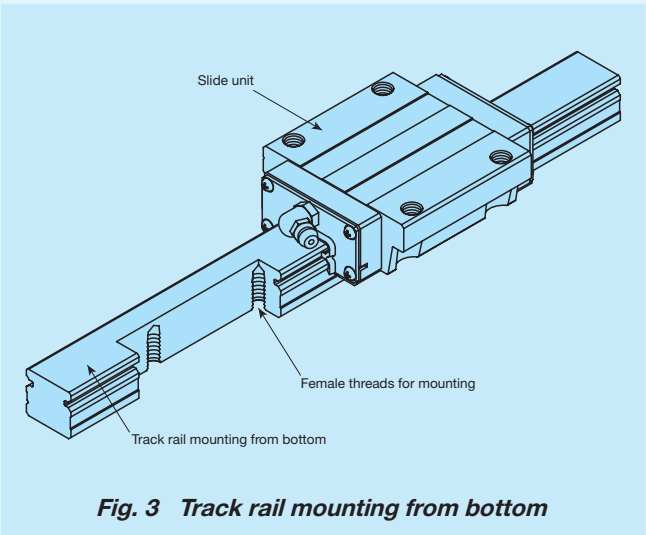


Fig. 3 Track rail mounting from bottom

Precaution for Use

① Mounting surface, reference mounting surface and typical mounting structure

When mounting the MH series and LWH series, properly align the reference mounting surfaces B and D of the track rail and slide unit with the reference mounting surface of the table and bed and fix them. (See Fig. 4.) The reference mounting surfaces B and D and mounting surfaces A and C are precisely ground. By machining the mounting surface of the mating member, such as machine or device, to high accuracy and mounting them properly, stable linear motion with high accuracy is realized. Reference mounting surface of the slide unit is the opposite side of the **IKO** mark. The track rail reference mounting surface is identified by locating the **IKO** mark on the top surface of the track rail. It is the side surface above the mark (in the direction of the arrow). (See Fig. 5.)

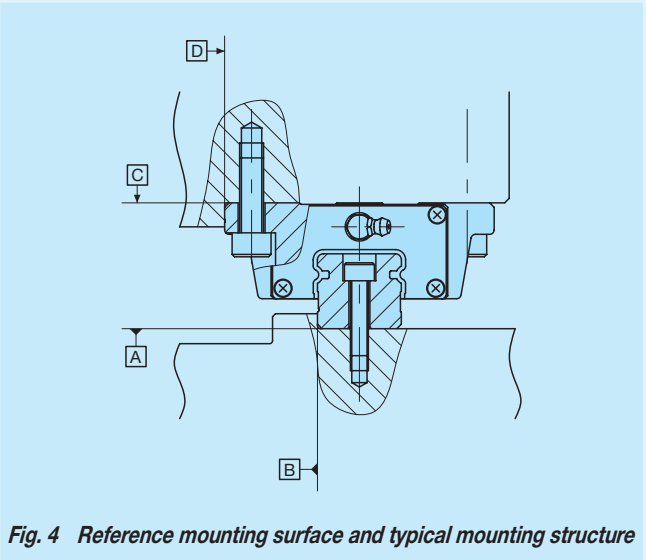


Fig. 4 Reference mounting surface and typical mounting structure

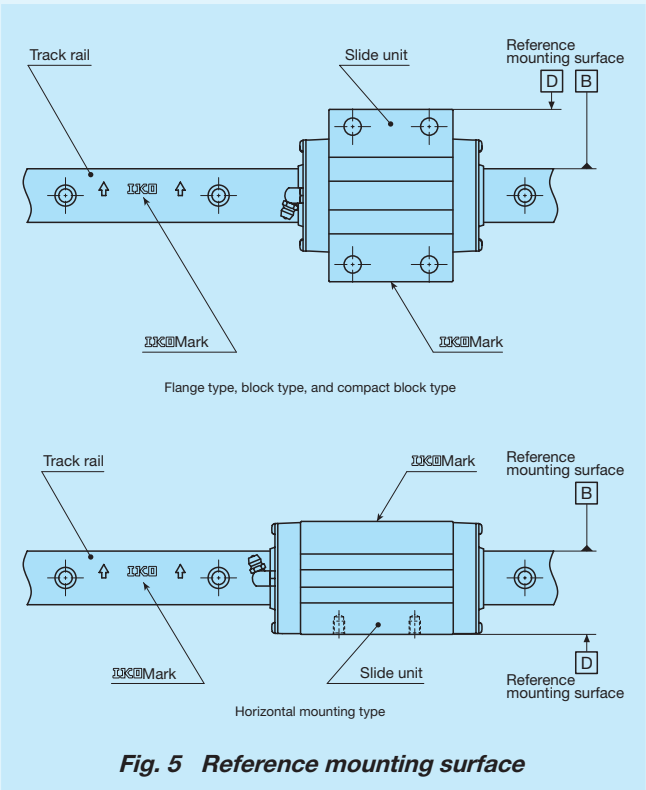


Fig. 5 Reference mounting surface

② Corner radius and shoulder height of reference mounting surfaces

For the opposite corner of the mating reference mounting, it is recommended to have relieved fillet as indicated in Fig. 6. Recommended value for the shoulder height on the mating side is indicated in Table 16.

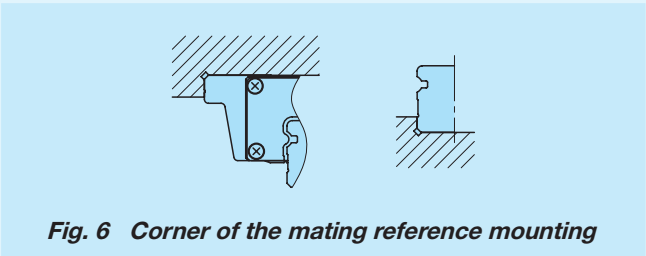


Fig. 6 Corner of the mating reference mounting

Table 16 Shoulder height and corner radius of the reference mounting surface

Size	Mounting part of slide unit		Mounting part of track rail	
	Shoulder height h_1	Corner radius R_1 (Maximum)	Shoulder height h_2	Corner radius R_2 (Maximum)
8	3.5(4) ⁽¹⁾	0.5	1.6 ⁽²⁾	0.2
10	4.5(5) ⁽¹⁾	0.5	1.9 ⁽²⁾	0.2
12	6	0.5	2.7 ⁽²⁾	0.7
15	4	0.5	3	0.5
20	5	0.5	3	0.5
25	6	1	4	1
30	8	1	5	1
35	8	1	6	1
45	8	1.5	7	1.5
55	10	1.5	8	1.5
65	10	1.5	10	1.5

Notes ⁽¹⁾ For MHD and LWHD, the values within () are applied.
⁽²⁾ For models with under seals (supplemental code "/U"), it is recommended to use the values 0.6 mm smaller than the values in the table.

③ Tightening torque for fixing screw

Typical tightening torques for mounting of the MH series and LWH series to the steel mating member material are indicated in Table 17. When vibration and shock of the machine or device are large, fluctuating load is large, or moment load is applied, fix it by using the torque 1.2 to 1.5 times larger than the value indicated in the table as necessary. If the mating member material is cast iron or aluminum, reduce the tightening torque depending on the strength characteristic of the mating member material.

Table 17 Tightening torque for fixing screw

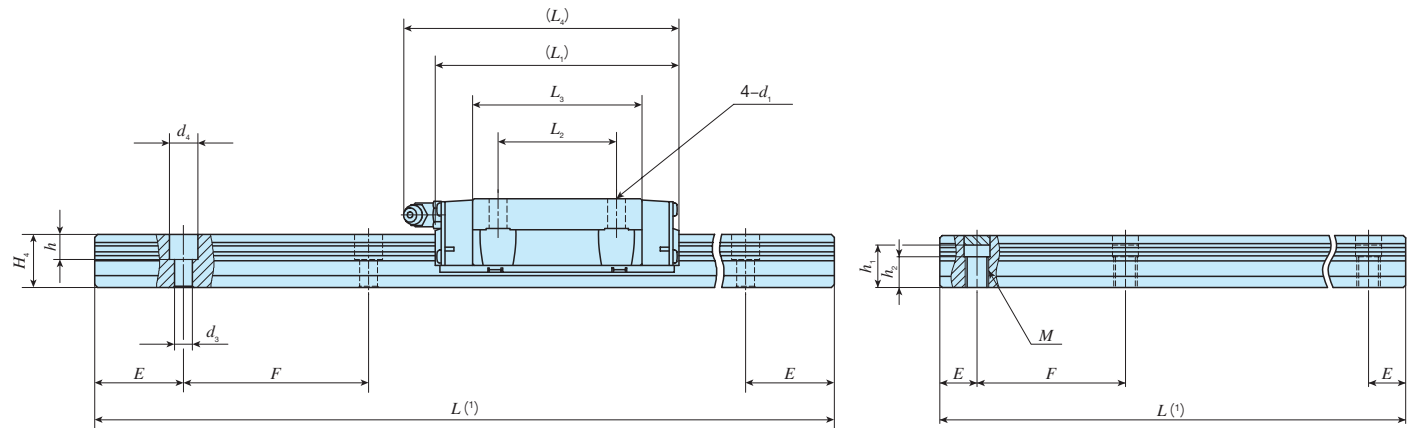
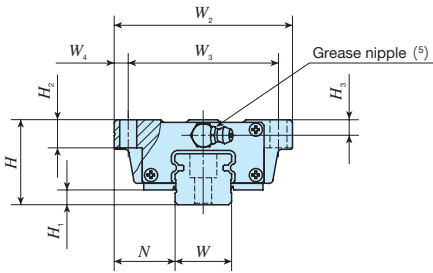
Bolt size	Tightening torque N · m		
	High carbon steel-made screw		Stainless steel-made screw
	Size: 12	Size: 15 or larger	
M 1.6×0.35	—	—	0.15
M 2 ×0.4	—	—	0.31
M 2.3×0.4	—	—	0.48
M 2.6×0.45	—	—	0.70
M 3 ×0.5	1.2	—	1.1
M 4 ×0.7	2.8	4.0	2.5
M 5 ×0.8	—	7.9	5.0
M 6 ×1	—	13.3	8.5
M 8 ×1.25	—	32.0	20.4
M10 ×1.5	—	62.7	39.7
M12 ×1.75	—	108	—
M14 ×2	—	172	—
M16 ×2	—	263	—
M20 ×2.5	—	512	—
M24 ×3	—	882	—

Remark: The recommended tightening torque is calculated based on strength division 8.8 for high carbon steel bolts in product size 12, strength division 12.9 for carbon steel bolts in product size 15 or larger, and property division A2-70 for stainless steel bolt.

IKO C-Lube Linear Way MH

Flange type mounting from bottom

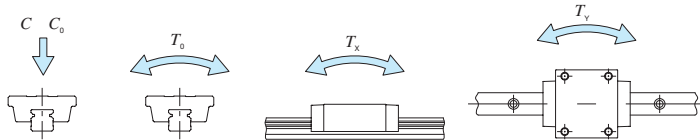
Shape	MH · LWH				
Size	15	20	25	30	35
	45	55	65	85	



Highly sealed track rail mounting from bottom

Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm											Dimensions of track rail mm										Appended mounting bolt for track rail ⁽³⁾ mm	Basic dynamic load rating ⁽⁴⁾	Basic static load rating ⁽⁴⁾	Static moment rating ⁽⁴⁾		
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	d ₁	H ₂	H ₃		W	H ₄	d ₃	d ₄	h	M	h ₁ ⁽²⁾	h ₂	E	F				Bolt size×ℓ	C N	C ₀ N
MH 15		○	0.22	1.47	24	4.5	16	47	38	4.5	66	30	44.2	69	4.5	7	4.5		15	15	4.5	8	6	—	—	—	30	60	M4×16	11 600	13 400	112	95.6 556	95.6 556
	LWH 15---B	○																																
—	LWH 15---SL	○																																
—	LWH 15---M*	—																																
—	LWH 15---MU*	—																																
MH 20		○	0.48	2.56	30	5	21.5	63	53	5	83	40	56	94	6	10	5.5	20	18	6	9.5	8.5	—	—	—	30	60	M5×18	18 100	21 100	232	195 1 090	195 1 090	
	LWH 20---B	○																																
—	LWH 20---SL	○																																
—	LWH 20---M*	—																																
—	LWH 20---MU*	—																												—				
MHG 20		○	0.71										84.8	122							6	9.5	8.5	—	—	—			M5×18	24 100	31 700	349	421 2 140	421 2 140
	LWHG 20	○																																
MH 25		○	0.70	3.50	36	6.5	23.5	70	57	6.5	95	45	63.9	105	7	10	6.5	23	22	7	11	9	—	—	—	30	60	M6×22	25 200	28 800	362	309 1 690	309 1 690	
	LWH 25---B	○																																
—	LWH 25---SL	○																																
—	LWH 25---M*	—																																
—	LWH 25---MU*	—																												—				
MHG 25		○	0.93								118		86.6	128							7	11	9	—	—	—			M6×22	30 800	38 300	483	533 2 740	533 2 740
	LWHG 25	○																																

- Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Tables 2.3 and 2.4 on page II-73.
- (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
- (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
- In an assembled set of MH series and LWH···MU model, track rail mounting bolts are not appended.
- (4) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.
- The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.
- (5) The shapes of grease nipple vary by size. For details of special specifications, see page Table 15 on page II-82.
- Remark: The identification numbers with * are our semi-standard items.



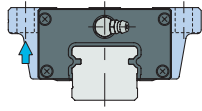
Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Seal code	Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
MH	G	20	C2	R480					
1	2	3	4	5	6	7	8	9	10
11									
① Model		⑤ Length of track rail (480 mm)		⑧ Preload amount		⑩ Interchangeable			
MH		Flange type mounting from bottom		No symbol		S1			
LWH(···B)				T1		S2			
② Length of slide unit		⑥ Seal code		No symbol		No symbol			
No symbol		No symbol		Standard specification		Non-interchangeable specification			
G		M		Highly sealed specification					
③ Size		MU		Highly sealed track rail mounting from bottom		⑪ Special specification			
15, 20, 25						A, BS, D, E, F, I, J, L, LF, MA			
④ Number of slide unit (2)		⑦ Material type		No symbol		MN, N, PS, Q, RE, T, V, W, Y, Z			
		No symbol		High carbon steel made					
		SL		Stainless steel made					

Flange type mounting from bottom

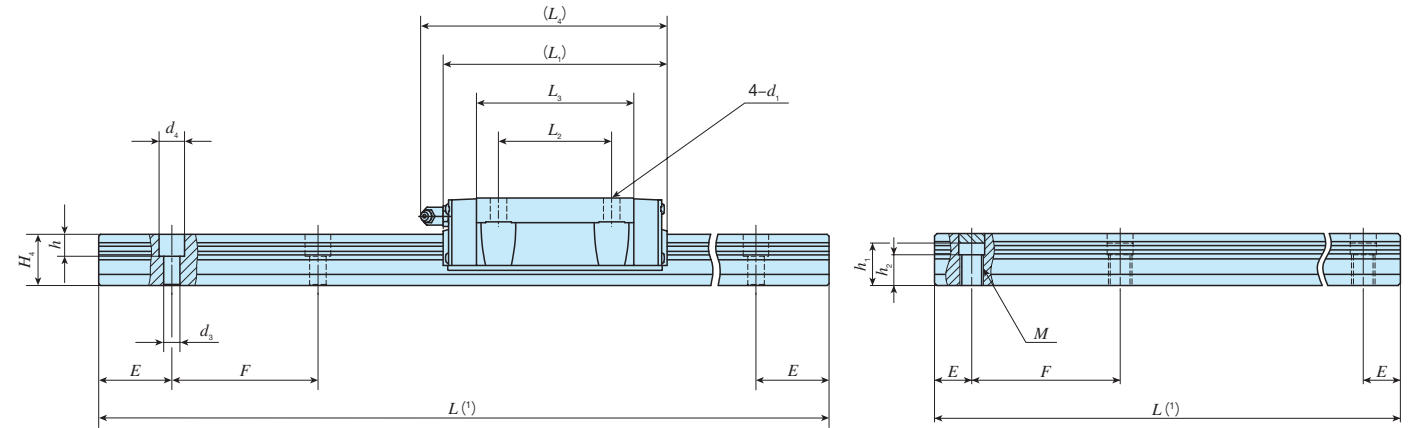
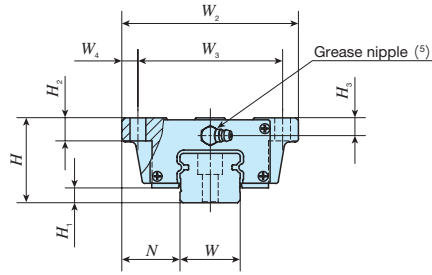
MH • LWH

Shape



Size

15	20	25	30	35
45	55	65	85	



Highly sealed track rail mounting from bottom

Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm										Appended mounting bolt for track rail ⁽³⁾ mm	Basic dynamic load rating ⁽⁴⁾	Basic static load rating ⁽⁴⁾	Static moment rating ⁽⁴⁾			
			Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	d ₁	H ₂	H ₃		W	H ₄	d ₃	d ₄	h	M	h ₁ (²)	h ₂	E				F	Bolt size×ℓ	C N	C ₀ N
MH 30		○	1.28	4.82	42	9	31	90	72	9	113	52	80.6	123	9	10	8		28	25	9	14	12	—	—	—	40	80	M 8×28	35 400	40 700	623	536 2 820	536 2 820
	LWH 30…B	○																																
—	LWH 30…SL	○																																
—	LWH 30…M*	—																																
—	LWH 30…MU*	—	1.69			7																												
	LWHG 30	○																																
MHG 30		○																																
	LWHG 30	○																																
MH 35		○	1.79	6.85	48	10	33	100	82	9	123	62	86.2	135	9	13	10		34	28	9	14	12	—	—	—	40	80	M 8×28	48 700	53 700	823	631 3 480	579 3 190
	LWH 35…B	○																																
—	LWH 35…M*	—																																
—	LWH 35…MU*	—																																
MHG 35		○	2.35			10					151		114	163																				
	LWHG 35	○																																
MHG 35		○																																
	LWHG 35	○																																
MH 45		○	3.17	10.7	60	13	37.5	120	100	10	147	80	103.4	158	11	15	13		45	34	14	20	17	—	—	—	52.5	105	M12×35	74 600	80 200	1 610	1 150 6 190	1 060 5 690
	LWH 45…B	○																																
—	LWH 45…M*	—																																
—	LWH 45…MU*	—																																
MHG 45		○	4.34			13					190		146.6	201																				
	LWHG 45	○																																
MHG 45		○																																
	LWHG 45	○																																

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Tables 2.3 and 2.4 on page II-73.

(2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .

⁽³⁾ The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

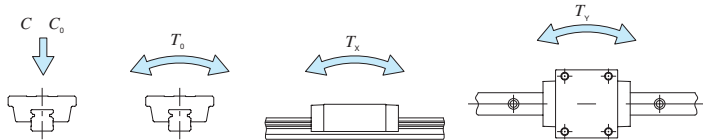
In an assembled set of MH series and LWH...MU model, track rail mounting bolts are not appended.

⁽⁴⁾ Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.

The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.

(5) The shapes of grease nipple vary by size. For details of special specifications, see page Table 15 on page II-82.

Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Seal code	Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
MH	G	35	C2	R800				T₁	P	S1	N
1	2	3	4	5	1	6	7	8	9	10	11

① Model	
MH	Flange type mounting from bottom
LWH(…B)	
② Length of slide unit	
No symbol	Standard
G	Long
③ Size	
30, 35, 45	
④ Number of slide unit (2)	

⑤ Length of track rail (800 mm)	
⑥ Seal code	
No symbol	Standard specification
M	Highly sealed specification
MU	Highly sealed track rail mounting from bottom
⑦ Material type	
No symbol	High carbon steel made
SL	Stainless steel made

⑧ Preload amount	
No symbol	Standard
T ₁	Light preload
T ₂	Medium preload
T ₃	Heavy preload

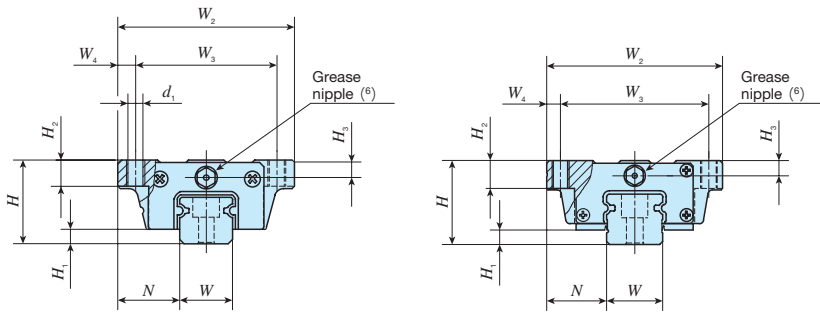
10 Interchangeable	
S1	S1 specification
S2	S2 specification
No symbol	Non-interchangeable specification

11 Special specification	
A, BS, D, E, F, 1, J, L, LF, MA	
MN, N, PS, Q, RE, T, V, W, Y, Z	

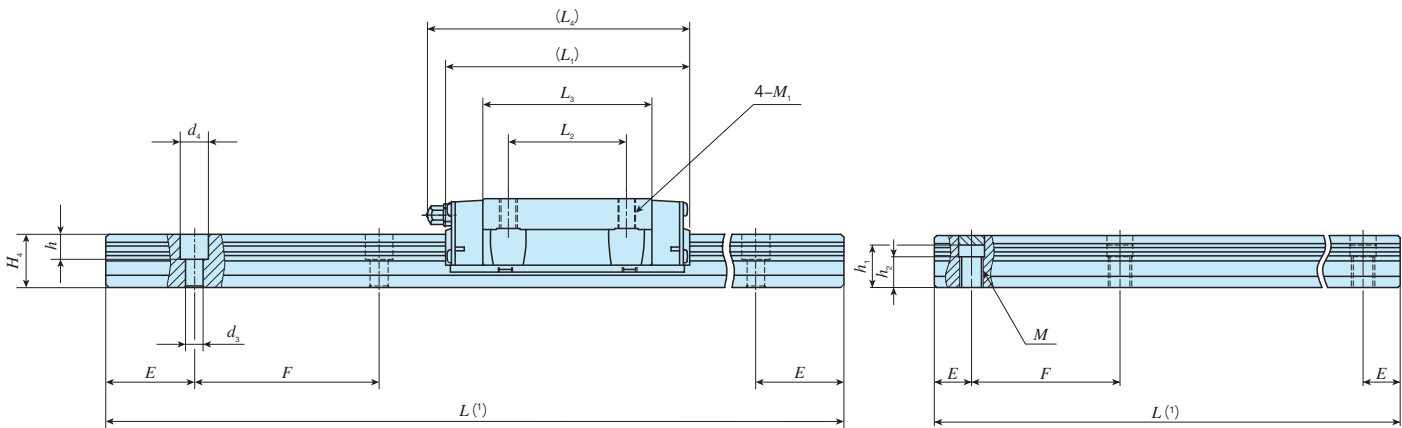
IKO C-Lube Linear Way MH

Flange type mounting from top

Shape	MHT · LWHT					
Size	8	10	12	15	20	25
	30	35	45	55	65	85



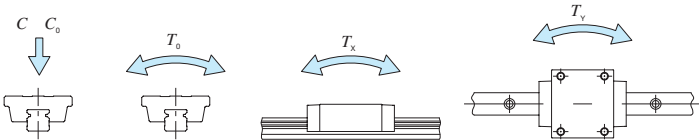
MHT 8 ...SL, LWHT 8 ...SL
MHT 10 ...SL, LWHT 10 ...SL
MHT 12 (...SL) , LWHT 12 (...SL)
MHTG 15



Highly sealed track rail mounting from bottom

Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm											Dimensions of track rail mm										Appended mounting bolt for track rail ⁽⁴⁾ mm	Basic dynamic load rating ⁽⁵⁾	Basic static load rating ⁽⁵⁾	Static moment rating ⁽⁵⁾			
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	d ₁ ⁽²⁾	M ₁	H ₂	H ₃	W	H ₄	d ₃	d ₄	h	M	h ₁ ⁽³⁾	h ₂	E	F				Bolt size× ℓ	C N	C ₀ N	T ₀ N·m
MHT 8…SL	LWHT 8…SL	○	0.015	0.32	10	2.1	8	24	19	2.5	24	10	15.3	—	1.9	M2.3	3.5	2		8	6	2.4	4.2	2.3	—	—	—	10	20	M2× 8	1 510	2 120	8.8	5.5 32.0	4.7 26.9
MHT 10…SL	LWHT 10…SL	○	0.031	0.47	12	2.4	10	30	24	3	32	12	21.4	—	2.6	M3	4.5	2.5		10	7	3.5	6	3.5	—	—	—	12.5	25	M3× 8	2 640	3 700	19.2	13.3 73.8	11.1 61.9
		○	0.032																																
MHT 12	LWHT 12	○	0.108	0.86	19	3.2	14	40	32	4	46	15	31.6	50	3.4	M4	6	4		12	10.5	3.5	6	4.5	—	—	—	20	40	M3×12	6 260	8 330	51.6	44.7 237	37.5 199
		○	0.11																																
		○	0.108																																
MHT 12…SL	LWHT 12…SL	○	0.11																																
MHT 15	LWHT 15…B	○	0.22	1.47	24	4.5	16	47	38	4.5	66	30	44.2	69	—	M5	7	4.5		15	15	4.5	8	6	—	—	—	30	60	M4×16	11 600	13 400	112	95.6 556	95.6 556
		○											44.6																						
MHT 15…SL	LWHT 15…SL	○											44.2																						
		○											44.6																						
—	LWHT 15…M*	—																																	
—	LWHT 15…MU*	—																																	
MHTG 15	—	○	0.29								82		60.1	85	4.4							4.5	8	6	—	—	—								

- Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Tables 2.3 and 2.4 on page II-73.
(2) Series of size 8 to 12 and MHTG15 can also be mounted in upward direction.
(3) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
(4) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
In an assembled set of MH series and LWHT...MU model, track rail mounting bolts are not appended.
(5) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.
The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.
(6) Series of size 8 and 10 are provided with an oil hole. The specifications of oil holes are shown in Table 14 on page II-82.
The shapes of grease nipples of size 12 and 15 vary by size. For details of special specifications, see page Table 15 on page II-82.
Remark: The identification numbers with * are our semi-standard items.



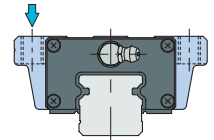
Example of identification number of assembled set

Model code	Dimensions	Part code	Model code	Seal code	Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
MHT	G	15	C2	R900	—	—	—	—	—
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

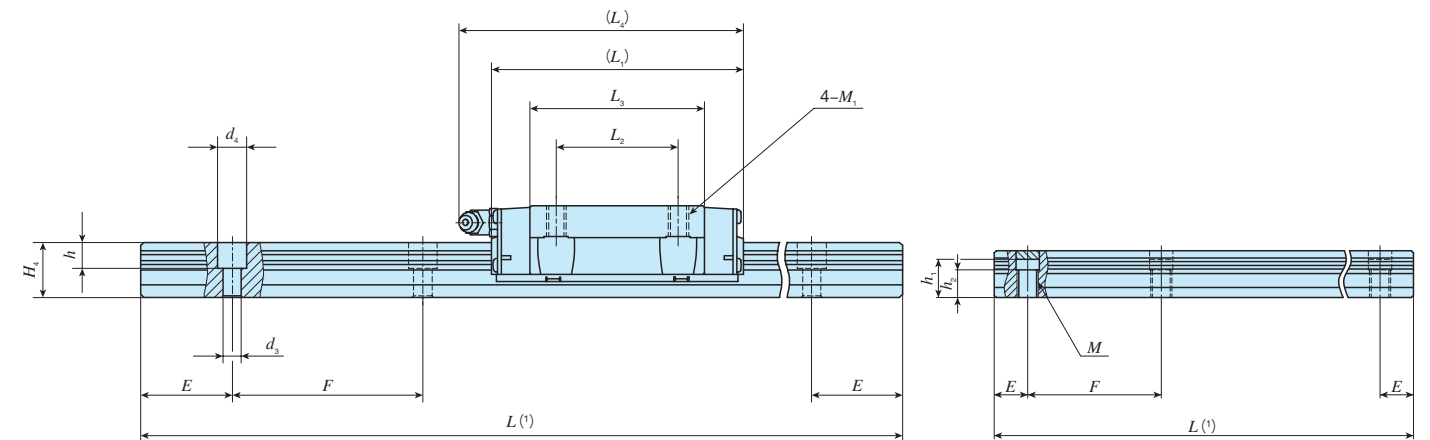
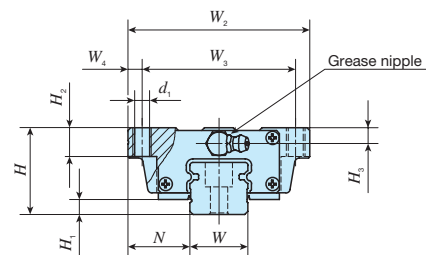
① Model MHT LWHT (...B)	⑤ Length of track rail (900 mm)	⑧ Preload amount T0 Clearance T1 Standard T2 Light preload T3 Medium preload T4 Heavy preload	⑩ Interchangeable S1 S1 specification S2 S2 specification No symbol Non-interchangeable specification
② Length of slide unit No symbol Standard G Long	⑥ Seal code No symbol Standard specification M Highly sealed specification MU Highly sealed track rail mounting from bottom	⑨ Accuracy class H High P Precision SP Super precision	⑪ Special specification A, BS, D, E, F, 1, J, L, LF, MA MN, N, Q, RE, T, U, V, W, Y, Z
③ Size 8, 10, 12, 15	⑦ Material type No symbol High carbon steel made SL Stainless steel made		
④ Number of slide unit (2)			

Flange type mounting from top

MHT • LWHT



Size	8	10	12	15	20	25
	30	35	45	55	65	85



Highly sealed track rail mounting from bottom

Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm												Dimensions of track rail mm										Appended mounting bolt for track rail ⁽³⁾ mm	Basic dynamic load rating ⁽⁴⁾	Basic static load rating ⁽⁴⁾	Static moment rating ⁽⁴⁾			
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	d ₁	M ₁	H ₂		H ₃	W	H ₄	d ₃	d ₄	h	M	h ₁ ⁽²⁾	h ₂	E	F				Bolt size×ℓ	C N	C ₀ N	T ₀ N·m
MHT 20		○	0.48	2.56	30	5	21.5	63	53	5	83	40	56	94	—	M6	10		5.5	20	18	6	9.5	8.5	—	—	—	30	60	M5×18	18 100	21 100	232	195 1 090	195 1 090	
	LWHT 20…B	○											57.2																							
MHT 20…SL		○											56																							
	LWHT 20…SL	○																																		
—	LWHT 20…M*	—									57.2																									
—	LWHT 20…MU*	—																																		
MHTG 20		○	0.71								112	84.8 86	122									6	9.5	8.5	—	—	—	30		60	M5×18	24 100	31 700	349	421 2 140	421 2 140
	LWHTG 20	○																																		
MHT 25		○	0.70	3.50	36	6.5	23.5	70	57	6.5	95	45	63.9	105	—	M8	10		6.5	23	22	7	11	9	—	—	—	30	60	M6×22	25 200	28 800	362	309 1 690	309 1 690	
	LWHT 25…B	○											64.7																							
MHT 25…SL		○											63.9																							
	LWHT 25…SL	○																																		
—	LWHT 25…M*	—									64.7																									
—	LWHT 25…MU*	—																																		
MHTG 25		○	0.93								118	86.6 87.4	128									7	11	9	—	—	—	30		60	M6×22	30 800	38 300	483	533 2 740	533 2 740
	LWHTG 25	○																																		

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Tables 2.3 and 2.4 on page II-73.

(2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_r .

(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

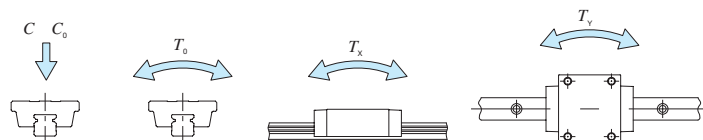
In an assembled set of MH series and LWHT···MU model, track rail mounting bolts are not appended.

(4) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.

The upper values of T_v and T_v are for one slide unit and the lower values are for two slide units sticking.

Remarks 1. The specifications of grease nipple are in Table 15 on page II -82.

2. The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Seal code	Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
<u>MHT</u>	<u>G</u>	<u>25</u>	<u>C2</u>	<u>R840</u>	<u> </u>	<u> </u>	<u> </u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>N</u>
1	2	3	4	5	1	6	7	8	9	10	11

① Model	
MHT	Flange type mounting from top
LWHT(...B)	
② Length of slide unit	
No symbol	Standard
G	Long
③ Size	
	20, 25
④ Number of slide unit (2)	

⑤ Length of track rail (840 mm)	
⑥ Seal code	
No symbol	Standard specification
M	Highly sealed specification
MU	Highly sealed track rail mounting from bottom
⑦ Material type	
No symbol	High carbon steel made
SL	Stainless steel made

⑧ Preload amount	
No symbol	Standard
T ₁	Light preload
T ₂	Medium preload
T ₃	Heavy preload

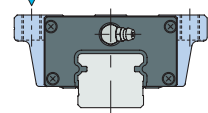
⑨ Accuracy class	
H	High
P	Precision
SP	Super precision

10 Interchangeable	
S1	S1 specification
S2	S2 specification
No symbol	Non-interchangeable specification

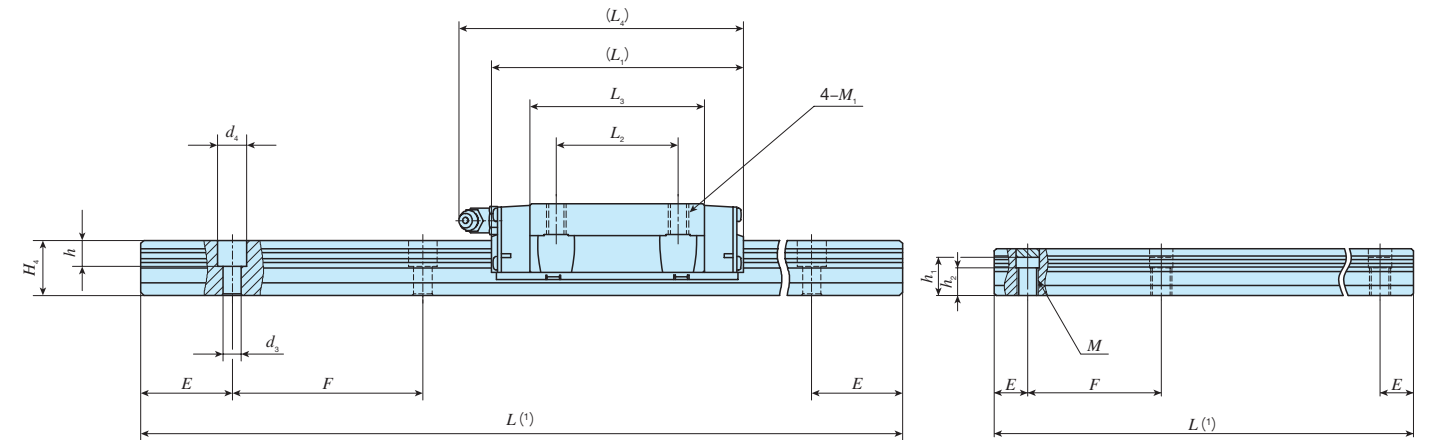
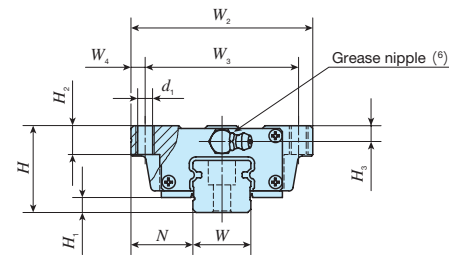
11 Special specification	
A, BS, D, E, F, 1, J, L, LF, MA MN, N, PS, Q, RE, T, V, W, Y, Z	

Flange type mounting from top

MHT • LWHT



Size	8	10	12	15	20	25
	30	35	45	55	65	85



Highly sealed track rail mounting from bottom

[illegible]

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Tables 2.3 and 2.4 on page II-73.

(²) MHTL30 and MHTL35 can also be mounted in upward direction.

(3) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .

(4) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

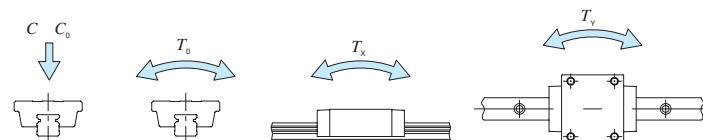
In an assembled set of MH series and LWHT...MU model, track rail mounting bolts are not appended.

(5) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.

The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.

(6) The shapes of grease nipple vary by size. For details of special specifications, see page Table 15 on page II-82.

Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Seal code	Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
<u>MHT</u>	<u>G</u>	<u>35</u>	<u>C2</u>	<u>R1040</u>	<u> </u>	<u> </u>	<u> </u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>N</u>
1	2	3	4	5	1	6	7	8	9	10	11

① Model	
MHT	Flange type mounting from top
LWHT(...B)	
② Length of slide unit	
No symbol	Standard
G	Long
L	Extra long
③ Size	
	30, 35
④ Number of slide unit (2)	

⑤ Length of track rail (1,040 mm)	
⑥ Seal code	
No symbol	Standard specification
M	Highly sealed specification
MU	Highly sealed track rail mounting from bottom
⑦ Material type	
No symbol	High carbon steel made
SL	Stainless steel made

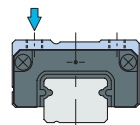
⑧ Preload amount	
No symbol	Standard
T ₁	Light preload
T ₂	Medium preload
T ₃	Heavy preload

⑨ Accuracy class	
H	High
P	Precision
SP	Super precision

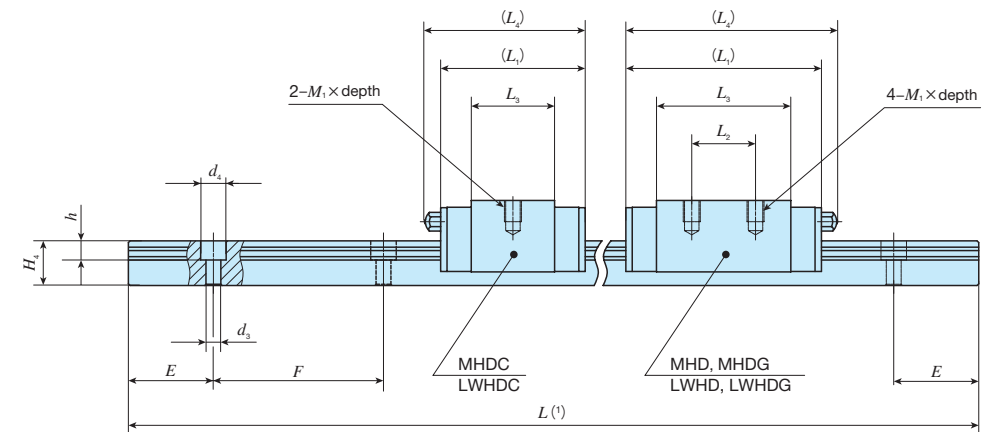
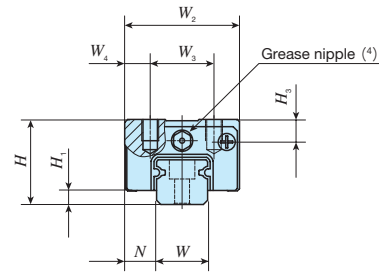
S1	S1 specification
S2	S2 specification
No symbol	Non-interchangeable specification

Block type mounting from top

MHD • LWHD



Size	8	10	12	15	25
	30	35	45	55	65



Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm								Appended mounting bolt for track rail ⁽²⁾ mm	Basic dynamic load rating ⁽³⁾	Basic static load rating ⁽³⁾	Static moment rating ⁽³⁾																																												
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	M ₁ ×depth		H ₃	W	H ₄	d ₃	d ₄	h	E	F	Bolt size×ℓ	C N	C ₀ N	T ₀ N · m	T _x N · m	T _y N · m																																											
MHDC 8…SL	LWHDC 8…SL	○	0.008	0.32	11	2.1	4	16	10	3	18	—	9.0	—	M2 ×2.5		3	8	6	2.4	4.2	2.3	10	20	M2× 8	1 050	1 270	5.3	^{2.2} _{15.5}	^{1.8} _{13.0}																																											
MHD 8…SL	LWHD 8…SL	○	0.013								24	10	15.3													M2.6×3		3.5	10	7	3.5	6	3.5	12.5	25	M3× 8	1 510	2 120	8.8	^{5.5} _{32.0}	^{4.7} _{26.9}																																
MHDG 8…SL	LWHDG 8…SL	○	0.018								30.5		21.7																								1 910	2 970	12.3	^{10.4} _{55.4}	^{8.8} _{46.4}																																
MHDC 10…SL	LWHDC 10…SL	○	0.018	0.47	13	2.4	5	20	13	3.5	24	—	13.4	—	M2.6×3		3.5	10	7	3.5	6	3.5	12.5	25	M3× 8												1 920	2 350	12.2	^{5.8} _{37.1}	^{4.8} _{31.2}																																
MHD 10…SL		○	0.026								32	12	21.4													M4 ×5		5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6	^{44.7} ₂₃₇	^{37.5} ₁₉₉																																
	LWHD 10…SL	○	0.027																																							40	29.4	6 260	8 330	51.6	^{44.7} ₂₃₇	^{37.5} ₁₉₉																									
MHDG 10…SL		○	0.035								40																																						29.4	7 780	11 400	70.4	^{80.4} ₃₉₉	^{67.5} ₃₃₅																			
	LWHDG 10…SL	○	0.036									34	—																													19.6													38	M4 ×5		5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6	^{44.7} ₂₃₇	^{37.5} ₁₉₉		
MHDC 12…SL		○	0.057	46	15	31.6	50	M4 ×5		5	12			10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6	^{44.7} ₂₃₇	^{37.5} ₁₉₉																																																
	LWHDC 12…SL	○	0.058									58														43.6	62	M4 ×5		5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6		^{44.7} ₂₃₇						^{37.5} ₁₉₉																								
MHD 12		○	0.089	46									15																													31.6		50	M4 ×5		5	12							10.5																	3.5	6
	LWHD 12	○	0.091		58	43.6	62					M4 ×5																																							5	12	10.5	3.5																			
MHD 12…SL		○	0.089	58																						43.6	62																													M4 ×5		5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6	^{44.7} ₂₃₇	^{37.5} ₁₉₉		
	LWHD 12…SL	○	0.091		58			43.6	62	M4 ×5			5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6	^{44.7} ₂₃₇																	^{37.5} ₁₉₉																															
MHDG 12…SL		○	0.115	58		43.6	62																					M4 ×5		5	12	10.5	3.5	6	4.5	20	40	M3×12	6 260	8 330	51.6		^{44.7} ₂₃₇	^{37.5} ₁₉₉																													
	LWHDG 12…SL	○	0.118		58																					43.6	62																		M4 ×5		5	12	10.5						3.5																	6	4.5

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71 and Table 2.2 on page II-72.

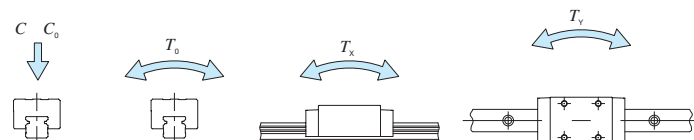
(2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

In an assembled set of MH series, track rail mounting bolts are not appended.

(3) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.

The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.

(4) Series of size 8 and 10 are provided with an oil hole. The specifications of oil holes are shown in Table 14 on page II-82. The specification of grease nipple for size 12 is shown in Table 15 on page II-82.



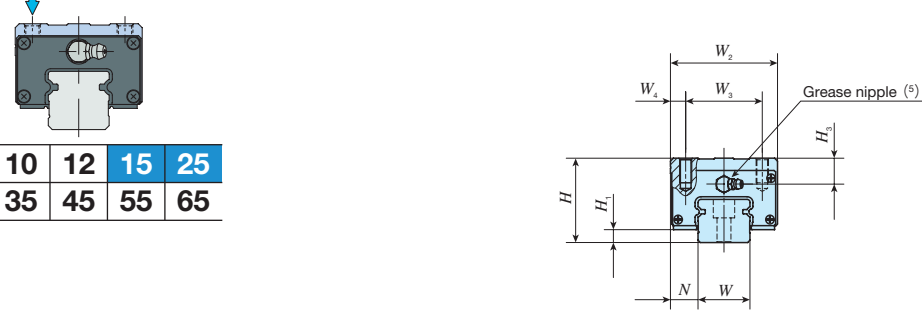
Example of identification number of assembled set

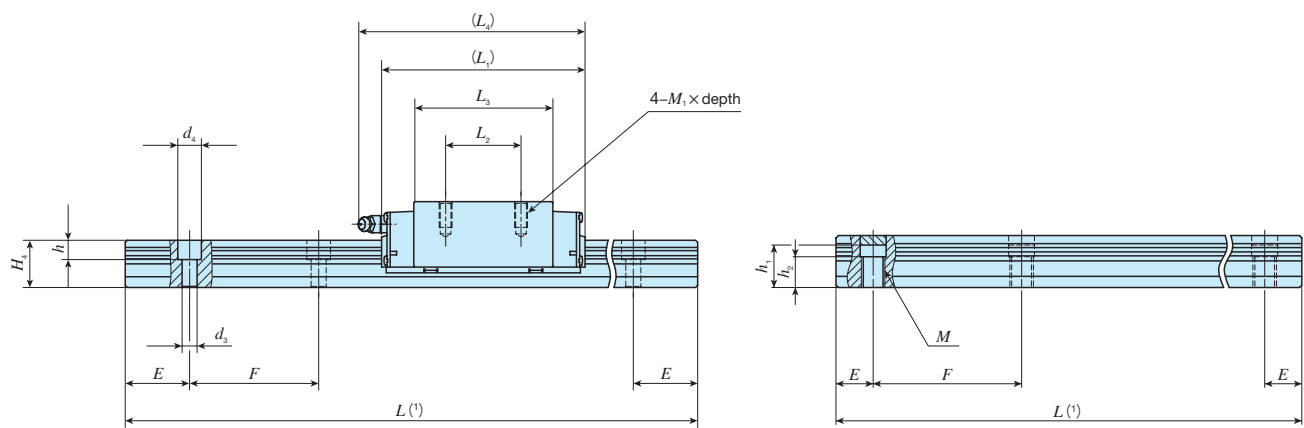
Model code		Dimensions	Part code		Material code	Preload symbol	Classification symbol	Interchangeable code	Special specification
MHD	G	12	C2	R320	—	T₁	P	S1	N
1	2	3	4	5	6	7	8	9	10

① Model		④ Number of slide unit (2)		⑦ Preload amount		⑨ Interchangeable	
MHD	Block type mounting from top	⑤ Length of track rail (320 mm)		To	Clearance	S1	S1 specification
LWHD				No symbol	Standard	S2	S2 specification
② Length of slide unit		⑥ Material type		T1	Light preload	No symbol	Non-interchangeable specification
C	Short			⑧ Accuracy class		⑩ Special specification	
No symbol	Standard	No symbol	High carbon steel made	H	High	A, D, E, F, I, LR, MA MN, N, Q, U, W, Y	
G	Long	SI	Stainless steel made	P	Precision		
③ Size							
8, 10, 12							

IKO C-Lube Linear Way MH

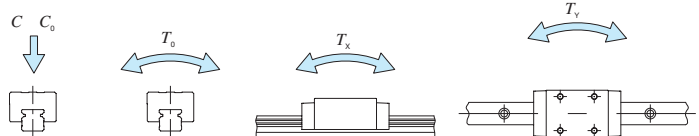
Block type mounting from top

Shape	MHD · LWHD				
					
Size	8	10	12	15	25
	30	35	45	55	65



Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm										Appended mounting bolt for track rail ⁽³⁾ mm	Basic dynamic load rating ⁽⁴⁾ C N	Basic static load rating ⁽⁴⁾ C ₀ N	Static moment rating ⁽⁴⁾		
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	M ₁ ×depth		H ₃	W	H ₄	d ₃	d ₄	h	M	h ₁ ⁽²⁾	h ₂	E	F				Bolt size×ℓ		
MHD 15		○	0.23	1.47	28	4.5	9.5	34	26	4	66	26	44.2	69	M4×10		8.5	15	15	4.5	8	6	—	—	—	30	60	M4×16	11 600	13 400	112	95.6 556	95.6 556
—	LWHD 15…B	○											44.6																				
—	LWHD 15…M*	—											—																				
—	LWHD 15…MU*	—																				M 6	12	9			—						
MHD 25		○	0.65	3.50	40	6.5	12.5	48	35	6.5	95	35	63.9	105	M6×12		10.5	23	22	7	11	9	—	—	—	30	60	M6×22	25 200	28 800	362	309 1 690	309 1 690
—	LWHD 25…B	○											64.7																				
—	LWHD 25…M*	—											—																				
—	LWHD 25…MU*	—																				M10	18	13			—						
MHDG 25		○	0.80								118	50	86.6	128						7	11	9	—	—	—	30	60	M6×22	30 800	38 300	483	533 2 740	533 2 740
—	LWHDG25	○											87.4																				
MHD 30		○	1.12	4.82	45	9	16	60	40	10	113	40	80.6	123	M8×16		11	28	25	9	14	12	—	—	—	40	80	M8×28	35 400	40 700	623	536 2 820	536 2 820
—	LWHD 30…B	○				7																											
—	LWHD 30…M*	—				—																											
—	LWHD 30…MU*	—																				M12	20	13			—						
MHDG 30		○	1.44			9					139	60	106.6	149						9	14	12	—	—	—	40	80	M8×28	42 700	53 200	814	894 4 460	894 4 460
—	LWHDG30	○				7							—																				
MHDL 30	—	○	1.92			8					185		152.2	194																		1 740 8 240	1 740 8 240

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71 and Tables 2.3 and 2.4 on page II-73.
(2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176.
In an assembled set of MH series and LWHD···MU model, track rail mounting bolts are not appended.
(4) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.
The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.
(5) The shapes of grease nipple vary by size. For details of special specifications, see page Table 15 on page II-82.
Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

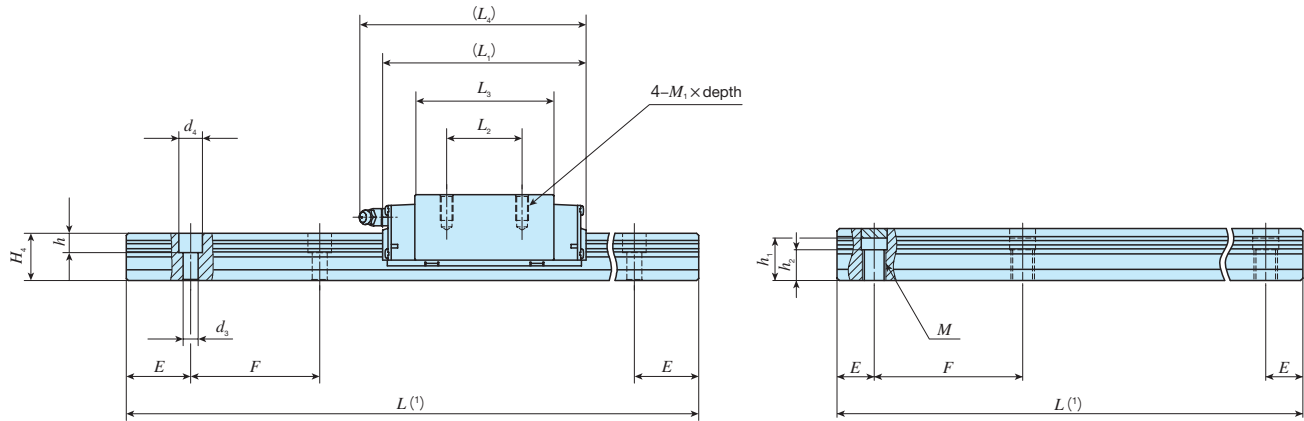
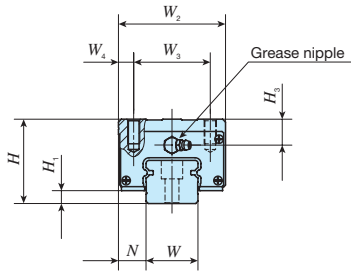
Model code		Dimensions	Part code		Model code	Seal code	Preload symbol	Classification symbol	Interchangeable code	Special specification
<u>MHD</u>	<u>G</u>	<u>25</u>	<u>C2</u>	<u>R840</u>	<u> </u>	<u> </u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>N</u>
1	2	3	4	5	1	6	7	8	9	10

① Model MHD LWHD(···B) Block type mounting from top	④ Number of slide unit (2)	⑦ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload	⑩ Interchangeable S1 S1 specification S2 S2 specification No symbol Non-interchangeable specification
② Length of slide unit No symbol Standard G Long L Extra long	⑤ Length of track rail (840 mm)	⑧ Accuracy class H High P Precision SP Super precision	⑨ Special specification A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, V, W, Y, Z
③ Size 15, 25, 30	⑥ Seal code No symbol Standard specification M Highly sealed specification MU Highly sealed track rail mounting from bottom		

IKO C-Lube Linear Way MH

Block type mounting from top

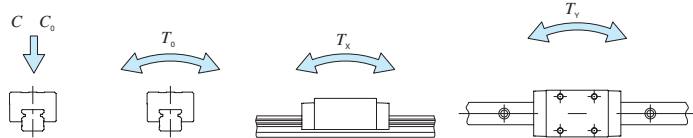
Shape	MHD · LWHD				
Size	8	10	12	15	25
	30	35	45	55	65



Highly sealed track rail mounting from bottom

Identification number		Interchangeable	Mass (Ref.)		Dimensions of assembly mm			Dimensions of slide unit mm										Dimensions of track rail mm										Appended mounting bolt for track rail ⁽³⁾ mm	Basic dynamic load rating ⁽⁴⁾	Basic static load rating ⁽⁴⁾	Static moment rating ⁽⁴⁾																													
MH series	LWH series (No C-Lube)		Slide unit kg	Track rail kg/m	H	H ₁	N	W ₂	W ₃	W ₄	L ₁	L ₂	L ₃	L ₄	M ₁ ×depth		H ₃	W	H ₄	d ₃	d ₄	h	M	h ₁ (²)	h ₂	E	F				Bolt size×ℓ	C N	C ₀ N	T ₀ N·m	T _x N·m	T _y N·m																								
MHD 35		○	1.74	6.85	55	10	18	70	50	10	123	50	86.2	135	M 8×16		17	34	28	9	14	12	—	—	—	40	80	M 8×28	48 700	53 700	823	631 3 480	579 3 190																											
—	LWHD 35--B	○				8					123	50	86.2	135						—	—	—	M12	23	16									M 8×28	59 500	71 600	1 100	1 090 5 570	1 000 5 110																					
—	LWHD 35--M*	—																										M 8×28												76 700	103 000	1 580	2 200 10 400	2 010 9 490																
—	LWHD 35--MU*	—																																																										
MHDG 35		○	2.26			10					151	72	114	163															M 8×28	59 500	71 600	1 100	1 090 5 570	1 000 5 110																										
—	LWHDG35	○				8					151		72	114																					163	9	14	12	—	—	—	M 8×28	76 700	103 000	1 580	2 200 10 400	2 010 9 490													
MHDL 35	—	○	3.08			9					199		162.2	211																																														
MHD 45		○	3.30	10.7	70	13	20.5	86	60	13	147	60	103.4	158	M10×20		23	45	34	14	20	17	—	—	—	52.5	105	M12×35	74 600	80 200	1 610	1 150 6 190	1 060 5 690																											
—	LWHD 45--B	○				14																												190	80	146.6	201	14	20	17	—	—	—	M12×35	95 200	114 000	2 280	2 240 11 100	2 050 10 200											
—	LWHD 45--M*	—				10																						13																						14	190	80	146.6	201	14	20	17	—	—	—
—	LWHD 45--MU*	—				12																																						238	194.8	249	14	20	17											
MHDG 45		○	4.57			13					190	80	146.6	201														M12×35	95 200	114 000	2 280	2 240 11 100	2 050 10 200																											
—	LWHDG45	○				14					238		194.8	249																				14	20	17	—	—	—	M12×35	114 000	147 000	2 960	3 680 17 800	3 370 16 300															
MHDL 45	—	○	5.85			12					238		194.8	249																																														
—	LWHD 55--B	○	5.36	15.5	80	17	23.5	100	75	12.5	183	75	132	194	M12×25		24	53	41	16	23	20	—	—	—	60	120	M14×45	113 000	121 000	2 870	2 210 11 600	2 030 10 600																											
—	LWHDG55	○	7.20								235	95	183.6	246																				16	23	20	—	—	—	60	120	142 000	168 000	3 970	4 120 20 200	3 780 18 500														
—	LWHD 65--B	○	9.80	22.2	90	18	31.5	126	76	25	229	70	164	239	M16×30		20	63	48	18	26	22	—	—	—	75	150	M16×50	176 000	184 000	5 180	4 130 22 000	3 790 20 200																											
—	LWHDG65	○	14.3								303	120	238.8	313																				18	26	22	—	—	—	75	150	229 000	269 000	7 560	8 530 41 500	7 810 38 100														

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-71 and Tables 2.3 and 2.4 on page II-73.
(2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176.
In an assembled set of MH series and LWHD...MU model, track rail mounting bolts are not appended.
(4) Basic dynamic load rating (C), Basic static load rating (C_0), static moment rating (T_0 , T_x , and T_y) are values for the direction indicated in the following figure.
The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units sticking.
Remarks 1. The specifications of grease nipple are in Table 15 on page II-82.
2. The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code		Dimensions	Part code		Model code	Seal code	Preload symbol	Classification symbol	Interchangeable code	Special specification
<u>MHD</u>	<u>G</u>	<u>45</u>	<u>C2</u>	<u>R1260</u>	<u> </u>	<u> </u>	<u>T₁</u>	<u>P</u>	<u>S1</u>	<u>N</u>
1	2	3	4	5	1	6	7	8	9	10

① Model MHD LWHD(...B) Block type mounting from top	④ Number of slide unit (2)	⑦ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload	⑩ Interchangeable S1 S1 specification S2 S2 specification No symbol Non-interchangeable specification
② Length of slide unit No symbol Standard G Long L Extra long	⑤ Length of track rail (1,260 mm)	⑧ Accuracy class H High P Precision SP Super precision	⑨ Special specification A, D, E, F, I, J, L, LF, MA MN, N, PS, Q, T, V, W, Y, Z
③ Size 35, 45, 55, 65	⑥ Seal code No symbol Standard specification M Highly sealed specification MU Highly sealed track rail mounting from bottom		