

# C-Lube Linear Way MH Linear Way H

MH · LWH



# C-Lube Linear Way MH

# MH



Aquamarine endplate for identification of C-Lube Linear Way

Track rail



## Features

### High rigidity series having the maximum load capacity among Ball type.

High rigidity linear motion rolling guide, which has the maximum load rating among ball type with assembling large diameter balls in.

### Wide variation corresponding to needs

Five shapes of slide unit, flanged type, block type, side mounting type and etc. are lined up with three variations in length of slide unit with same section. They are available for optimal products to fit for requirement of machine and equipment.

### Stainless steel type is lined up

The main metal components made of corrosion resistant stainless steel are most suitable for use in cleanroom environment and also for applications where the use of lubricants and rust preventive oil should be avoided or kept to a minimum.

### Serialized Ultra sealed specification performing superior dust protection

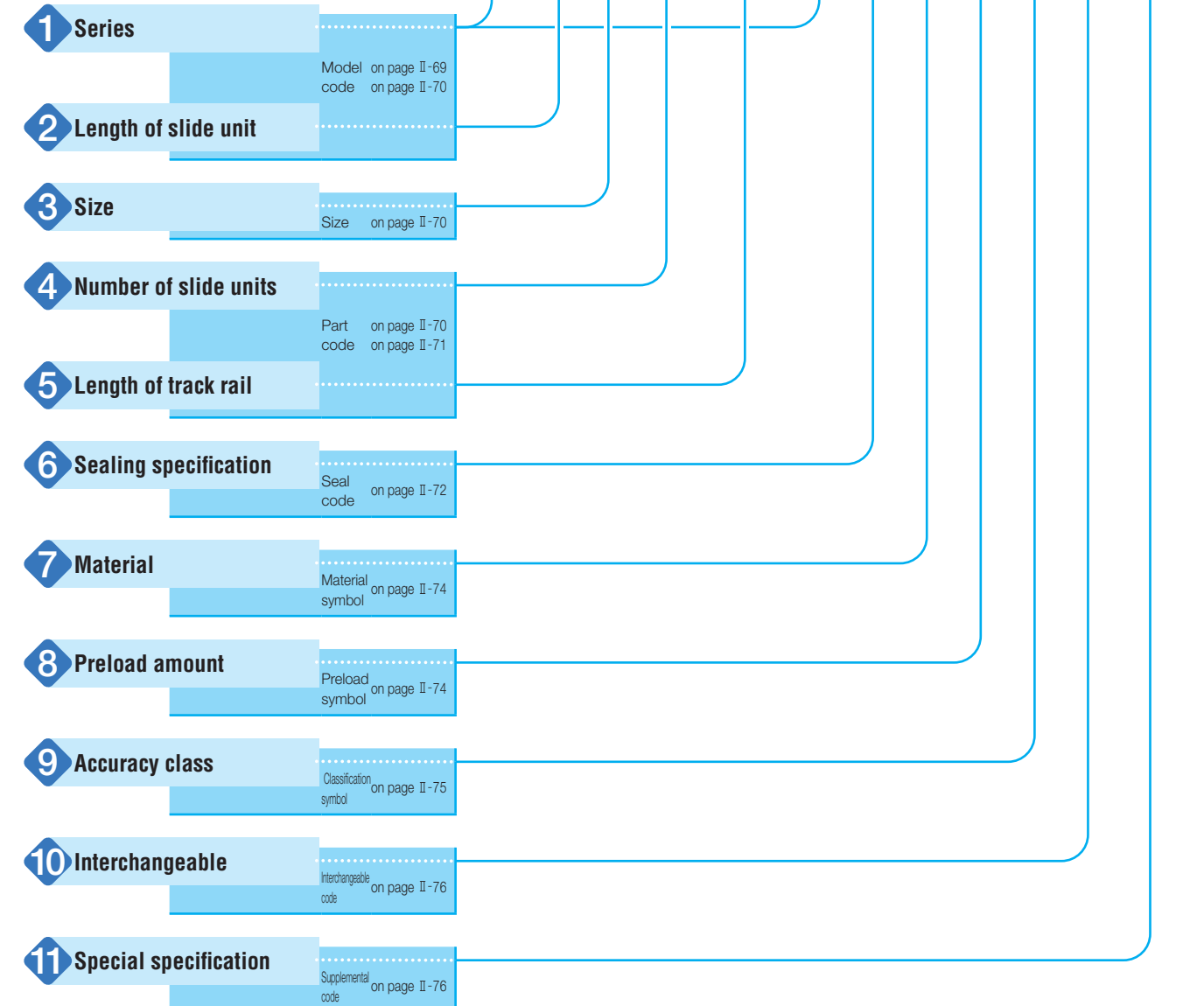
Linear Way H with Ultra sealed specification performs superior dust protection due to combination of finished surface of track rail and slide unit with special lip structure on both end seals and under seals.

## Identification number and specification

The specifications of MH series and LWH series are indicated by the identification number, consisting of a model code, a size, a part code, a seal code, a material symbol, a preload symbol, a classification symbol, an interchangeable code and any supplemental codes.

Interchangeable specification	1	2	3	4	5	6	7	8	9	10	11
Slide unit only	MHT	G	20	C1				T <sub>1</sub>	P	S1	/V
Track rail only <sup>(1)</sup>	LWH		20		R840	B			P	S1	/F
Assembled set	MHT	G	20	C1	R840			T <sub>1</sub>	P	S1	/FV

Non-interchangeable specification	1	2	3	4	5	6	7	8	9	10	11
Assembled set	MHT	G	20	C1	R840			T <sub>1</sub>	P		/FV



Note<sup>(1)</sup>: For the model code of track rail of interchangeable specification, indicate "LWH··B" or "LWH" regardless of the slide unit type to be combined.

# Identification number and specification —Series—

<b>1 Series</b>	C-Lube Linear Way (MH Series)	Flange type, mounting from bottom : <b>MH</b> Flange type, mounting from top <sup>(2)</sup> : <b>MHT</b> Block type, mounting from top : <b>MHD</b> Compact block type, mounting from top : <b>MHS</b>
	Linear Way <sup>(1)</sup> (LWH Series)	Flange type mounting from bottom : <b>LWH</b> (…B) Flange type mounting from top <sup>(2)</sup> : <b>LWHT</b> (…B) Block type mounting from top : <b>LWHD</b> (…B) Compact block type mounting from top : <b>LWHS</b> (…B) Side mounting type : <b>LWHY</b>

Applicable size and shape of slide unit are shown in Table 1.1 and 1.2.  
For the model code of a single track rail of interchangeable specification, indicate "LWH…B" or "LWH" regardless of the slide unit type to be combined.

Note<sup>(1)</sup> : Linear Way without C-Lube.  
Note<sup>(2)</sup> : Mounting from bottom is also possible in some type.

**Table 1.1 Models and size of MH and LWH**

Material	Shape	Length of slide unit	Model code	Size																										
				8	10	12	15	20	25	30	35	45	55	65	85															
High carbon steel	Flange type, mounting from bottom	Standard	MH	-	-	-	○	○	○	○	○	-	-	-	High rigidity long	MHG	-	-	-	○	○	○	○	○	-	-	-			
			LWH…B	-	-	-	○	○	○	○	○	○	○	○		-	LWHG	-	-	-	○	○	○	○	○	○	○	○ <sup>(3)</sup>		
		Flange type, mounting from top	Standard	MHT	-	-	○ <sup>(1)</sup>	○	○	○	○	○	○	-	-	-	High rigidity long	MHTG	-	-	-	○ <sup>(1)</sup>	○	○	○	○	○	-	-	-
				LWHT…B	-	-	○ <sup>(1)(2)</sup>	○	○	○	○	○	○	○	○	-		LWHTG	-	-	-	○	○	○	○	○	○	○	○ <sup>(3)</sup>	
	High rigidity long		MHTL	-	-	-	-	-	○	○	○	-	-	-	Extra high rigidity long	MHTL	-	-	-	-	-	○	○	○	-	-	-			
			MHD	-	-	○	○	-	○	○	○	○	-	-		-	MHD	-	-	○	○	○	○	○	○	-	-	-		
	Block type, mounting from top	Standard	LWHD…B	-	-	○ <sup>(2)</sup>	○	-	○	○	○	○	○	-	High rigidity long	MHDG	-	-	-	-	○	○	○	○	-	-	-			
			LWHD…M (U)	-	-	-	○	○	○	○	○	○	-	-		-	LWHDG	-	-	-	-	○	○	○	○	○	-	-		
		High rigidity long	MHDL	-	-	-	-	-	○	○	○	-	-	-	Extra high rigidity long	MHDL	-	-	-	-	-	○	○	○	-	-	-			
			MHS	-	-	-	○	○	○	○	-	-	-	-		MHS	-	-	-	○	○	○	○	-	-	-	-			
		Compact block type, mounting from top	Standard	LWHS…B	-	-	-	○	○	○	○	-	-	-	-	High rigidity long	MHSG	-	-	-	○	○	○	○	-	-	-	-		
				LWHS…M (U)	-	-	-	○	○	○	○	-	-	-	-		LWHS	-	-	-	○	○	○	○	-	-	-	-		
	Side mounting type	Standard	LWHY	-	-	-	○	○	○	○	○	○	○	-																

Notes<sup>(1)</sup> : Mounting from bottom is also possible.

<sup>(2)</sup> : "…B" is not necessary.

<sup>(3)</sup> : Customised item.

Remark : The mark  indicates that interchangeable specification is available.


# —Length of slide unit · Size · Number of slide unit—

<b>2 Length of slide unit</b>	Short : <b>C</b> Standard : <b>No symbol</b> High rigidity long : <b>G</b> Extra high rigidity long : <b>L</b>	Applicable size and shape of slide unit are shown in Table 1.1 to 1.2.
<b>3 Size</b>	8, 10, 12, 15, 20, 25, 30, 35, 45, 55, 65, 85	Applicable size and shape of slide unit are shown in Table 1.1 to 1.2.
<b>4 Number of slide unit</b>	: <b>○</b>	For an assembled set, indicate the number of slide units assembled on one track rail. For an interchangeable slid unit only, "C1" can be indicated.

**Table 1.2 Models and size of MH…SL and LWH…SL**

Material	Shape	Length of slide unit	Model code	Size																				
				8	10	12	15	20	25	30	35	45	55	65	85									
Stainless steel	Flange type, mounting from bottom	Standard	LWH…SL	-	-	-	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			MHT…SL	○ <sup>(1)</sup>	○ <sup>(1)</sup>	○ <sup>(1)</sup>	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Flange type, mounting from top	Standard	LWHT…SL	○ <sup>(1)</sup>	○ <sup>(1)</sup>	○ <sup>(1)</sup>	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	
			MHDC…SL	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Block type, mounting from top	Standard	LWDC…SL	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			MHD…SL	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		High rigidity long	LWHD…SL	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			MHDG…SL	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Compact block type, mounting from top	Standard	MHS…SL	-	-	-	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			LWHS…SL	-	-	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-

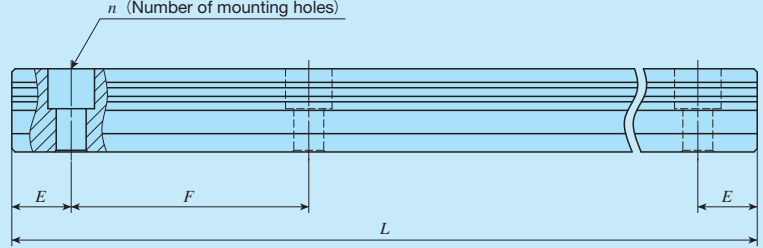
Note<sup>(1)</sup> : Mounting from bottom is also possible.

Remark : The mark  indicates that interchangeable specification is available.

5 Length of track rail

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

Table 2.1 Standard and maximum lengths of high carbon steel track rails



Item	Model number	MH 12 LWH12	MH 15 LWH15...B	MH 20 LWH20...B	MH 25 LWH25...B	MH 30 LWH30...B
Standard length $L(n)$		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 $F$		40	60	60	60	80
$E$		20	30	30	30	40
Standard range of $E^{(1)}$	incl.	5.5	7	8	9	10
	under	25.5	37	38	39	50
Maximum length <sup>(2)</sup>		1 480	1 500 (3 000)	1 980 (3 000)	3 000 (3 960)	2 960 (4 000)
Item	Model number	MH 35 LWH35...B	MH 45 LWH45...B	LWH55...B	LWH65...B	LWH85 <sup>(3)</sup>
Standard length $L(n)$		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 $F$		80	105	120	150	180
$E$		40	52.5	60	75	90
Standard range of $E^{(1)}$	incl.	10	12.5	15	17	23
	under	50	65	75	92	113
Maximum length <sup>(2)</sup>		2 960 (4 000)	2 940 (3 990)	3 000 (3 960)	3 000 (3 900)	2 880

Notes<sup>(1)</sup> : Not applicable to the track rail with female threads for bellows (supplemental code "/J").  
<sup>(2)</sup> : Track rails with the maximum lengths in parentheses can be manufactured. Consult **IKO** for further information.  
<sup>(3)</sup> : Customized item.

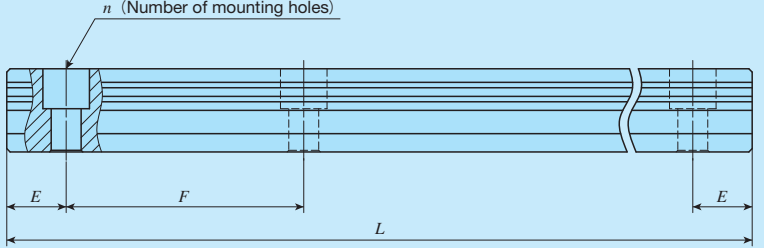
Remarks 1 : The above table shows representative model numbers but is applicable to all models of the same size.  
 2 : For the model code of track rail of interchangeable specification, indicate "LWH" for size 12 and "LWH...B" for size 15 or larger regardless of slide unit type to be combined.  
 3 : In Ultra sealed type, see Table 2.3 and 2.4.

6 Sealing specification

Standard specification : No symbol  
 Ultra sealed specification : M  
 Ultra sealed track rail mounting from bottom : MU

Applicable size and shape of slide unit are shown in Table 1.1 and 1.2.  
 For the specifications of ultra sealed track rail mounted from bottom MU, the slide unit of the ultra sealed specification M is applicable.  
 Table 2.3 and 2.4 show the specification of track rail.

Table 2.2 Standard and maximum length of Stainless steel track rails



Item	Model 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 $L(n)$		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)					
Mounting hole pitch $F$		20	25	40	60	60	60	80
$E$		10	12.5	20	30	30	30	40
Reference dimension $E^{(1)}$	Over (Incl.)	4.5	5	5.5	7	8	9	10
	Under	14.5	17.5	25.5	37	38	39	50
Maximum length <sup>(2)</sup>		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<sup>(1)</sup> : Not applied to optional specification "female threads for bellows" (supplemental code "/J", "/JJ")  
<sup>(2)</sup> : The track rails can be manufactured up to the maximum length shown in parentheses. If required, please consult **IKO**.  
 Remarks 1 : The above table shows representative model number but is applicable to all models of the same size.  
 2 : For the model code of track rail of interchangeable specification, indicate "LWH...SL" regardless of slide unit type to be combined.



Table 2.3 Standard and maximum lengths of Ultra sealed specification high carbon steel track rails

Item	Model number	LWH15...M	LWH20...M	LWH25...M	LWH30...M	LWH35...M	LWH45...M
Standard length $L(n)$		180 ( 3)	240 ( 4)	240 ( 4)	480 ( 6)	480 ( 6)	840 ( 8)
		240 ( 4)	480 ( 8)	480 ( 8)	640 ( 8)	640 ( 8)	1 050 (10)
		360 ( 6)	660 (11)	660 (11)	800 (10)	800 (10)	1 260 (12)
		480 ( 8)	840 (14)	840 (14)	1 040 (13)	1 040 (13)	1 470 (14)
		660 (11)	1 020 (17)	1 020 (17)	1 200 (15)	1 200 (15)	1 995 (19)
			1 200 (20)	1 200 (20)	1 520 (19)	1 520 (19)	
Pitch of mounting holes $F$		60	60	60	80	80	105
$E$		30	30	30	40	40	52.5
Standard range of $E^{(1)}$	incl.	7	8	9	10	10	12.5
	under	37	38	39	50	50	65
Maximum length		1 500	1 980	3 000	2 960	2 960	2 940
Maximum number of butt-jointing rails		3	3	3	3	3	3
Maximum length of butt-jointing rails		4 200	5 640	8 700	8 480	8 480	8 295

unit : mm

Note<sup>(1)</sup> : Not applicable to the track rail with female threads for bellows (supplemental code "J").  
 Remark : The above table shows representative model numbers but is applicable to all models of the same size.

Table 2.4 Standard and maximum lengths of Ultra sealed track rail mounting from bottom

Item	Model number	LWH15...MU	LWH20...MU	LWH25...MU	LWH30...MU	LWH35...MU	LWH45...MU
Standard length $L(n)$		180 ( 3)	240 ( 4)	240 ( 4)	480 ( 6)	480 ( 6)	840 ( 8)
		240 ( 4)	480 ( 8)	480 ( 8)	640 ( 8)	640 ( 8)	1 050 (10)
		360 ( 6)	660 (11)	660 (11)	800 (10)	800 (10)	1 260 (12)
		480 ( 8)	840 (14)	840 (14)	1 040 (13)	1 040 (13)	1 470 (14)
		660 (11)	1 020 (17)	1 020 (17)	1 200 (15)	1 200 (15)	1 995 (19)
			1 200 (20)	1 200 (20)	1 520 (19)	1 520 (19)	
Pitch of mounting holes $F$		60	60	60	80	80	105
$E$		30	30	30	40	40	52.5
Standard range of $E^{(1)}$	incl.	7	8	9	10	10	12.5
	under	37	38	39	50	50	65
Maximum length		1 500	1 980	3 000	2 960	2 960	2 940
Maximum number of butt-jointing rails		3	3	3	3	3	3
Maximum length of butt-jointing rails		4 200	5 640	8 700	8 480	8 480	8 295

unit : mm

Note<sup>(1)</sup> : Not applicable to the track rail with female threads for bellows (supplemental code "J").  
 Remarks 1 : The above table shows representative model numbers but is applicable to all models of the same size.  
 2 : The track rail mounting bolts are not appended. Hexagon socket head bolts of JIS B 1176 with strength 12.9 or equivalent is recommended

7 Material	High carbon steel	: No symbol	Applicable sizes are shown in Table 1.1 to 1.2.
	Stainless steel	: SL	
8 Preload amount	Clearance	: T <sub>0</sub>	Specify this items for an assembled set or an interchangeable single slide unit.
	Standard	: No symbol	
	Light preload	: T <sub>1</sub>	Applicable preload and size are shown in Table 3 to 4.
	Medium preload	: T <sub>2</sub>	
	Heavy preload	: T <sub>3</sub>	

Table 3 Preload amount

Preload type	Item	Symbol	Preload amount N	Applicatin
Clearance		T <sub>0</sub>	0 <sup>(1)</sup>	· Very smooth motion
Standard		(No symbol)	0 <sup>(2)</sup>	· Smooth and precise motion
Light preload		T <sub>1</sub>	0.02C <sub>0</sub>	· Medium vibration · Load is evenly balanced. · Smooth and precise motion
Medium preload		T <sub>2</sub>	0.05C <sub>0</sub>	· Medium vibration · Medium overhung load
Heavy preload		T <sub>3</sub>	0.08C <sub>0</sub>	· Vibration and/or shocks · Large overhung load · Heavy cutting

Notes<sup>(1)</sup> : Zero or minimal amount of clearance  
<sup>(2)</sup> : Zero or minimal amount of preload  
 Remark : C<sub>0</sub> means the basic static load rating.

Table 4 Applicable preload

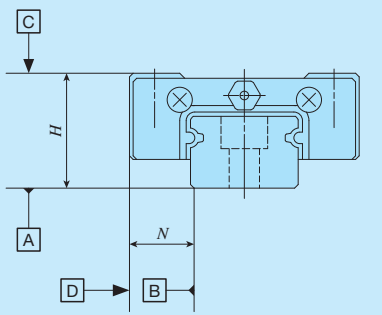
Size	Preload class and symbol				
	Clearance (T <sub>0</sub> )	Standard (No symbol)	Light preload (T <sub>1</sub> )	Medium preload (T <sub>2</sub> )	Heavy preload (T <sub>3</sub> )
8	○	○	○	—	—
10	○	○	○	—	—
12	○	○	○	—	—
15	—	○	○	○	○
20	—	○	○	○	○
25	—	○	○	○	○
30	—	○	○	○	○
35	—	○	○	○	○
45	—	○	○	○	○
55	—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

Remark : The mark  indicates that it is also applicable to interchangeable specification.

9 Accuracy class

High	: H	For the interchangeable specification, combine slide units and track rails of the same class. For details of accuracy, see Table 5.1 and 5.2. Applicable sizes are shown in Table 6.
Precision	: P	
Super precision	: SP	

Table 5.1 Accuracy (Size 8 to 12)



unit : mm

Item	Classification (Symbol)	High (H)	Precision (P)
Dim. <i>H</i> tolerance		±0.020	±0.010
Dim. <i>N</i> tolerance		±0.025	±0.015
Dim. variation of <i>H</i> <sup>(1)</sup>		0.015	0.007
Dim. variation of <i>N</i> <sup>(1)</sup>		0.020	0.010
Dim. variation of <i>H</i> for multiple assembled sets <sup>(2)</sup>		0.030	0.020
Parallelism in operation of C to A		See Fig. 1.1	
Parallelism in operation of D to B		See Fig. 1.1	

Notes<sup>(1)</sup> : It means the size variation between slide units mounted on the same track rail.

<sup>(2)</sup> : It applies to the interchangeable specification.

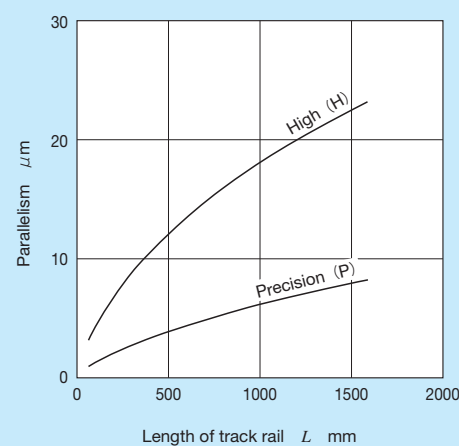
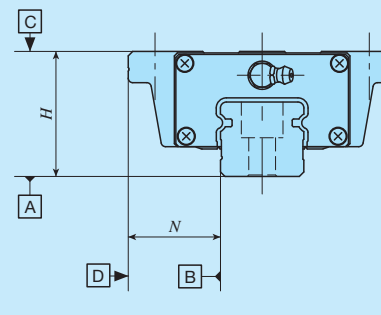


Fig. 1.1 Parallelism in operation (Size 8 to 12)

Table 5.2 Accuracy (Size 15 or over)



unit : mm

Item	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
Dim. variation of <i>H</i> <sup>(1)</sup>		0.015	0.007	0.005
Dim. variation of <i>N</i> <sup>(1)</sup>		0.020	0.010	0.007
Dim. variation of <i>H</i> for multiple assembled sets <sup>(2)</sup>		0.035	0.025	—
Parallelism in operation of C to A		See Fig. 1.2		
Parallelism in operation of D to B		See Fig. 1.2		

Notes<sup>(1)</sup> : It means the size variation between slide units mounted on the same track rail.

<sup>(2)</sup> : It applies to the interchangeable specification.

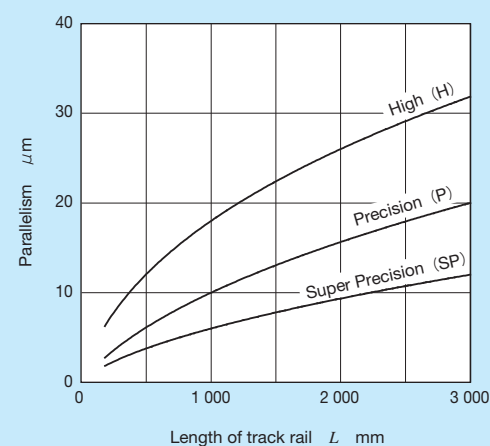


Fig. 1.2 Parallelism in operation (Size 15 or over)

Table 6 Accuracy class and size

Size	Accuracy class		
	High class (H)	Precision class (P)	Super precision (SP)
8	○	○	—
10	○	○	—
12	○	○	—
15	○	○	○
20	○	○	○
25	○	○	○
30	○	○	○
35	○	○	○
45	○	○	○
55	○	○	○
65	○	○	○
85 <sup>(1)</sup>	○	○	○

Note<sup>(1)</sup> : Customised item.

Remark : The mark  indicates that it is also applicable to interchangeable specification.

10 Interchangeable code

Interchangeable	: S1	Specify this code for the interchangeable specification products. Assemble track rails and slide units with the same interchangeable code. For applicable models and sizes, see Table 1.1 and 1.2.
	: S2	
Non-interchangeable	: No symbol	

11 Special specification

/A, /BS, /D, /E, /F, /I, /JO, /LO, /LFO, /MA, /MN, /N, /PS, /Q, /RE, /T, /U, /VO, /WO, /YO, /ZO	For applicable special specifications, see Table 7.1, 7.2, 7.3, and 7.4. When several special specifications are required, see Table 8. For details of special specifications, see page III-17.
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Table 7.1 Special specifications (Interchangeable specification, single slide unit)

Special specification	Supplemental code	Size											
		8	10	12	15	20	25	30	35	45	55	65	85
Stainless steel end plates <sup>(1)</sup>	/BS	×	×	×	○	○	○	○	×	×	×	×	—
Female threads for bellows <sup>(2)</sup>	/JO	×	×	×	○	○	○	○	○	○	○	○	—
No end seal	/N	○	○	○	○	○	○	○	○	○	○	○	—
C-Lube plates <sup>(1)</sup>	/Q	○	○	○	○	○	○	○	○	○	○	○	—
Seals for special environment <sup>(1)</sup>	/RE	×	×	×	○	○	○	○	×	×	×	×	—
Under seals	/U	○	○	○	×	×	×	×	×	×	×	×	—
Double end seals	/VO	×	×	×	○	○	○	○	○	○	○	○	—
Scrapers	/ZO	×	×	×	○	○	○	○	○	○	○	○	—

Notes<sup>(1)</sup> : Applicable to LWH series.

<sup>(2)</sup> : Not applicable to stainless steel model.

Table 7.2 Special specifications (Interchangeable specification, track rail)

Special specification	Supplemental code	Size											
		8	10	12	15	20	25	30	35	45	55	65	85
Specified rail mounting hole positions	/E	○	○	○	○	○	○	○	○	○	○	○	—
Caps for rail mounting holes	/F	×	×	○	○	○	○	○	○	○	○	○	—
Female threads for bellows <sup>(1)</sup>	/JO	×	×	×	○	○	○	○	○	○	○	○	—
Black chrome surface treatment	/LR	×	×	×	○	○	○	○	○	○	○	○	—
Supplied without track rail mounting bolt	/MN	○	○	○	○	○	○	○	○	○	○	○	—
Butt-jointing interchangeable track rail	/T	×	×	×	○	○	○	○	○	○	○	○	—

Note<sup>(1)</sup> : Not applicable to stainless steel model.

**Table 7.3 Special specifications (Interchangeable specification, Assembled set)**

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

Notes<sup>(1)</sup> : Applicable to LWH series.

<sup>(2)</sup> : Not applicable to stainless steel model.

<sup>(3)</sup> : Applicable to MH series.

**Table 7.4 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 rail	/A	○	○	○ <sup>(1)</sup>	○	○	○	○	○	○	○	○	×
Stainless steel end plates <sup>(2)</sup> <sup>(3)</sup>	/BS	×	×	×	○	○	○	○	×	×	×	×	×
Opposite reference surfaces arrangement <sup>(3)</sup>	/D	○	○	○	○	○	○	○	○	○	○	○	×
Specified rail mounting hole positions	/E	○	○	○	○	○	○	○	○	○	○	○	×
Caps for rail mounting holes <sup>(4)</sup>	/F	×	×	○	○	○	○	○	○	○	○	○	×
Inspection sheet	/I	○	○	○	○	○	○	○	○	○	○	○	×
Female threads for bellows <sup>(3)</sup>	/J○	×	×	×	○	○	○	○	○	○	○	○	×
Black chrome surface treatment	/L○	○ <sup>(4)</sup>	○ <sup>(4)</sup>	○ <sup>(4)</sup>	○	○	○	○	○	○	○	○	×
Fluorine black chrome surface treatment	/LF○	×	×	×	○	○	○	○	○	○	○	○	×
With track rail mounting bolts (Applicable to set order) <sup>(6)</sup>	/MA	○	○	○	○	○	○	○	○	○	×	×	×
Supplied without track rail mounting bolt <sup>(2)</sup> <sup>(4)</sup>	/MN	○	○	○	○	○	○	○	○	○	○	○	×
No end seal <sup>(7)</sup>	/N	○	○	○	○	○	○	○	○	○	○	○	×
Rail cover plate <sup>(7)</sup> <sup>(8)</sup>	/PS	×	×	×	×	×	○	○	○	○	○	○	×
C-Lube plates <sup>(2)</sup> <sup>(3)</sup> <sup>(7)</sup>	/Q	○	○	○	○	○	○	○	○	○	○	○	×
Seals for special environment <sup>(2)</sup> <sup>(7)</sup>	/RE	×	×	×	○	○	○	○	×	×	×	×	×
Under seals	/U	○	○	○	×	×	×	×	×	×	×	×	×
Double end seals	/V○	×	×	×	○	○	○	○	○	○	○	○	×
Matched sets to be used as an assembled group <sup>(3)</sup>	/W○	○	○	○	○	○	○	○	○	○	○	○	×
Specified grease <sup>(2)</sup>	/Y○	○	○	○	○	○	○	○	○	○	○	○	×
Scrapers	/Z○	×	×	×	○	○	○	○	○	○	○	○	×

Notes<sup>(1)</sup> : Not applicable to carbon steel models.

<sup>(2)</sup> : Applicable to LWH series.

<sup>(3)</sup> : Not applicable to the side mounting type (model code : LWHY).

<sup>(4)</sup> : Not applicable to Ultra sealed track rail mounting from bottom.

<sup>(5)</sup> : Only "LR" is applicable.

<sup>(6)</sup> : Applicable to MH series.

<sup>(7)</sup> : Not applicable to Ultra sealed specification and Ultra sealed track rail mounting from bottom.

<sup>(8)</sup> : Not applicable to stainless steel model.

**Table 8 Combination of special specifications**

BS	○																								
D	○	○																							
E	—	○	—																						
F	○	○	○	○																					
I	○	○	○	○	○																				
J	○	○	○	○	○	○																			
L	○	○	○	○	○	○	○																		
LF	○	○	○	○	○	○	○	○																	
MA	○	—	○	○	○	○	○	○	○																
MN	○	○	○	○	○	○	○	○	○	○															
N	○	○	○	○	○	—	○	—	○	—	○	○	○	○	○	○	○								
PS	—	○	○	○	○	—	○	—	○	—	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○
Q	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RE	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
T	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
U	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
V	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
W	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Z	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	A	BS	D	E	F	I	J	L	LF	MA	MN	N	PS	Q	RE	T	U	V	W	Y					

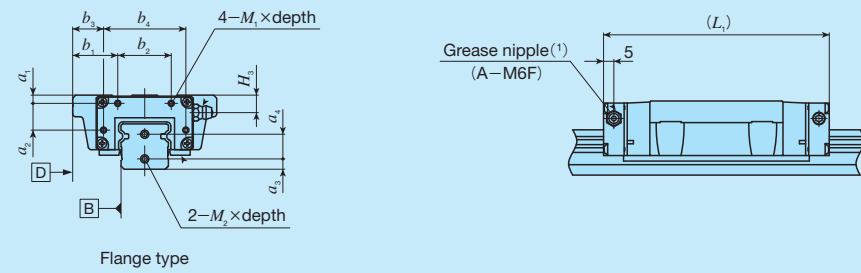
Remarks 1 : In the table, the mark "—" indicates that this combination cannot be made.

2 : The combinations marked ● are applicable to non-interchangeable specification products.

For combinations of interchangeable specification products, consult **IKO** for further information.

3 : When several special specifications are required, arrange the supplemental codes alphabetically.

Table 9.1 Female threads for bellows for flange type (Supplemental code /J, /JJ)



unit : mm

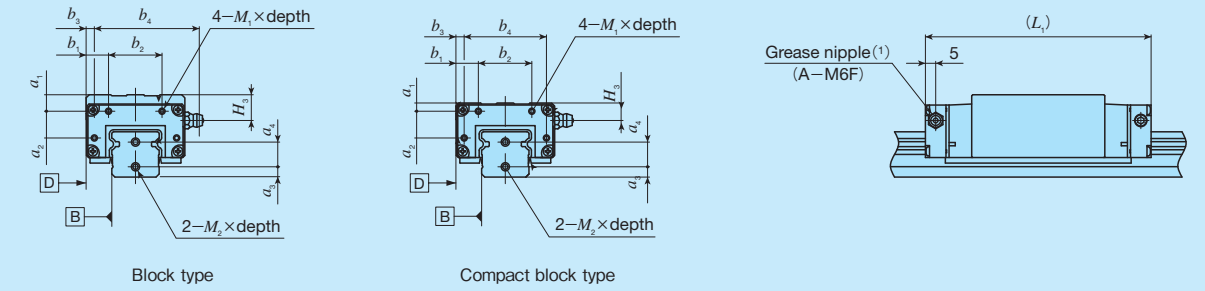
Model number		Slide unit									Track rail		
		a <sub>1</sub>	a <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	M <sub>1</sub> ×depth	L <sub>1</sub> <sup>(2)</sup>	H <sub>3</sub>	a <sub>3</sub>	a <sub>4</sub>	M <sub>2</sub> ×depth
MH(T) 15	LWH(T) 15...B	3	7	15.5	16	9.5	28	M3×6	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	—								200				
MH(T) 35	LWH(T) 35...B	6	20	30	40	20	60	M3×6	137	13	7	15	M4×8
—	LWH(T) 35...M(U)								143				
MH(T)G 35	LWH(T)G 35								165				
MHTL 35	—								213				
MH(T) 45	LWH(T) 45...B	7	26	35	50	23	74	M4×8	160	15	8	19	M5×10
—	LWH(T) 45...M(U)								167				
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<sup>(1)</sup> : The specification and mounting positions of grease nipple are different from those of the standard specification product. Size 15 models are provided with a special specification grease nipple (NPB2 type). For detail of dimensions, consult **IKO** for further information.

<sup>(2)</sup> : The values are for the slide unit with female threads for bellows at both ends.

Remark : Also applicable to stainless models.

Table 9.2 Female threads for bellows for block type (Supplemental code /J, /JJ)



unit : mm

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

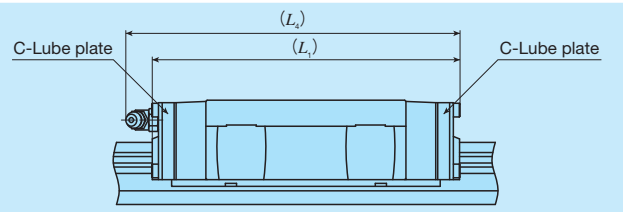
Notes<sup>(1)</sup> : The specification and mounting positions of grease nipple are different from those of the standard specification product. Size 15 models are provided with a special specification grease nipple (NPB2 type). For details of dimensions, consult **IKO** for further information.

<sup>(2)</sup> : The values are for the slide unit with female threads for bellows at both ends.

Remark : Also applicable to stainless models.



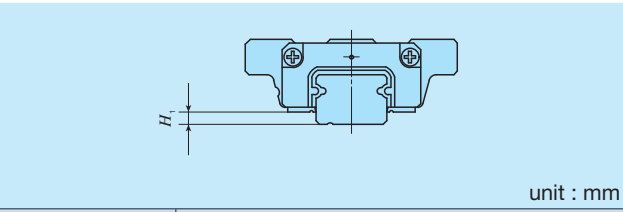
**Table 10 Slide unit with C-Lube plates (Supplemental code IQ)**



Model 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 valves for a slide unit with C-Lube plates at both ends are shown.  
 2 : The above table shows representative model numbers but is applicable to all models of the same size.

**Table 11  $H_1$  dimension of slide unit with under seals (Supplemental code IU)**



Size	$H_1$
8	1.5
10	1.8
12	3.2 <sup>(1)</sup>

Note<sup>(1)</sup> : The above table shows representative model numbers but is applicable to all models of the same size.

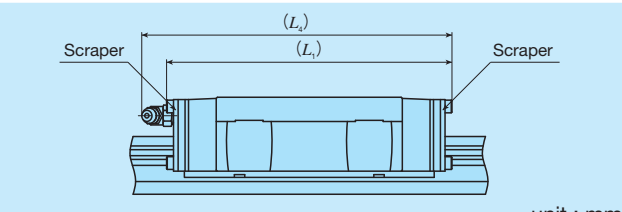
**Table 12 Slide unit with double end seals (Supplemental code IV, IVV)**



Model number	$L_1$	$L_4$
MH 15	72	77
—		LWH 15...M(U)
MHTG 15	—	88
MH 20	91	104
—		LWH 20...M(U)
MHG 20	119	133
MH 25		104
—	LWH 25...M(U)	
MHG 25	127	139
MH 30		122
—	LWH 30...M(U)	
MHG 30	148	160
MHL 30		—
MH 35	133	146
—		LWH 35...M(U)
MHG 35	161	173
MHL 35		—
MH 45	159	170
—		LWH 45...M(U)
MHG 45	202	213
MHL 45		—
—	195	206
—		LWHG 55
—	241	251
—		LWHG 65
—	316	325

Remarks 1 : The values are for the slide unit with double end seals at both ends.  
 2 : The above table shows representative model numbers but is applicable to all models of the same size.

**Table 13 Slide unit with scrapers (Supplemental code IZZ)**



Model number	$L_1$	$L_4$
MH 15	73	75
—		LWH 15...M(U)
MHTG 15	—	89
MH 20	91	104
—		LWH 20...M(U)
MHG 20	119	133
MH 25		104
—	LWH 25...M(U)	
MHG 25	126	138
MH 30		124
—	LWH 30...M(U)	
MHG 30	150	161
MHL 30		—
MH 35	133	146
—		LWH 35...M(U)
MHG 35	161	174
MHL 35		—
MH 45	160	170
—		LWH 45...M(U)
MHG 45	203	214
MHL 45		—
—	196	207
—		LWHG 55
—	242	251
—		LWHG 65
—	317	326

Remarks 1 : The total lengths of slide unit with scrapers at both ends are shown.  
 2 : The table shows representative model numbers but is applicable to all models of the same size.

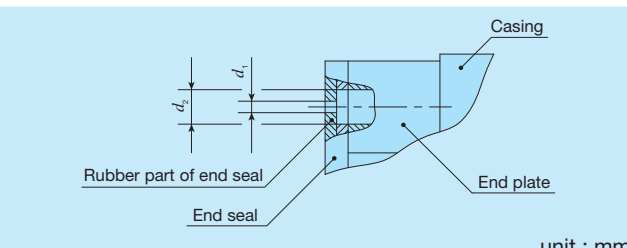
**Table 15 Parts for lubrication**

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

Notes<sup>(1)</sup> : In grease nipple specification please see Table 15.1 and 15.2 on page III-22.  
<sup>(2)</sup> : Customised item.

Lithium-soap base grease (ALVANIA grease EP 2 : SHELL, and Multemp PS No.2:Kyodo for Size 8 to 12) is pre-packed in MH and LWH series slide units. In MH, C-Lube (Capillary sleeve) a component part is built in the ball recirculation path, thereby extending the re-lubrication (greasing) interval time and reducing maintenance work for a long period. MH and LWH series are provided with grease nipple or oil hole shown in Table 15. Supply nozzles or grease injectors fit to each shapes of grease nipple and 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, and consult **IKO** for further information.

**Table 14 Oil hole**



Size	$d_1$	$d_2$
8	0.5	1.5
10		—

# Dust Protection

The MH and LWH series of slide units are equipped with end seals as standard for protection against dust. Linear way will be used in a working environment that contains lots of dust, contaminants, or comparatively large particles such as chips and sands that may cover its track rail, **IKO** recommend protecting the linear motion parts against them with a bellows, protective cover or the like. Bellows to match the dimension of MH and LWH are optionally available. Please refer to page III-25 for ordering. Track rail mounting from bottom (see Fig. 2) is also available. consult **IKO** if required.

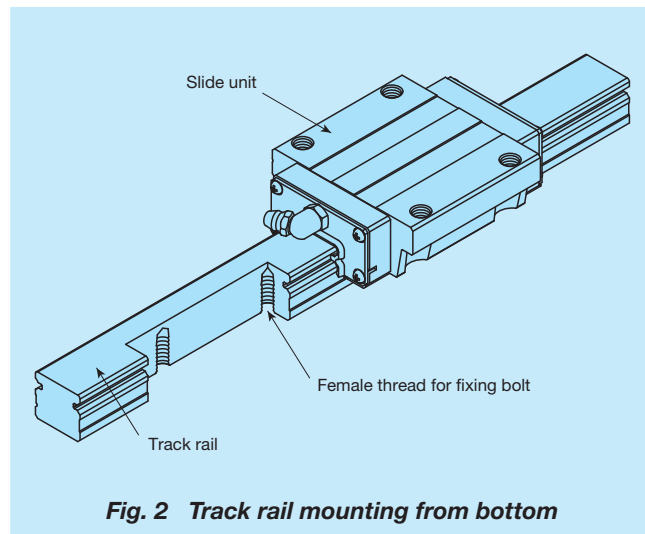


Fig. 2 Track rail mounting from bottom

# Precautions for Use

## ① Mounting surface, reference mounting surface, and general mounting structure

To mount MH or LWH series, correctly fit the reference mounting surfaces B and D of the slide unit and the track rail to the reference mounting surfaces of the table and the bed, and then fix them tightly. (See Fig. 3.)

The reference mounting surfaces B and D and mounting surfaces A and C of MH and LWH series are accurately finished by grinding. Stable and high accuracy linear motion can be obtained by finishing the mating mounting surfaces of machines or equipment with high accuracy and correctly mounting the guide on these surfaces.

The slide unit reference mounting surface is always the side surface opposite to the **IKO** mark. The track rail reference mounting surface is identified by locating the **IKO** mark on the top surface of the track rail. The track rail reference mounting surface is the side surface above the **IKO** mark (in the direction of the arrow). (See Fig. 4.)

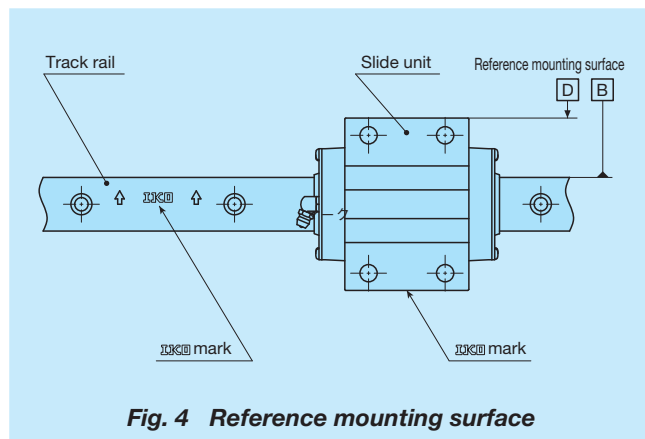


Fig. 4 Reference mounting surface

## ② Corner radius and shoulder height of reference mounting surfaces

It is recommended to make a relieved fillet at the corner of the mating reference mounting surfaces as shown in Fig. 5. Table 16 shows the recommended shoulder heights and corner radii of the mating reference mounting surfaces.

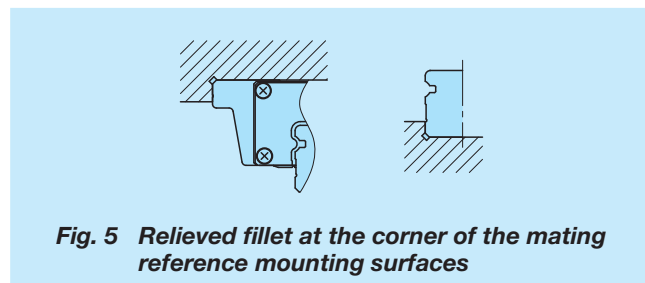


Fig. 5 Relieved fillet at the corner of the mating reference mounting surfaces

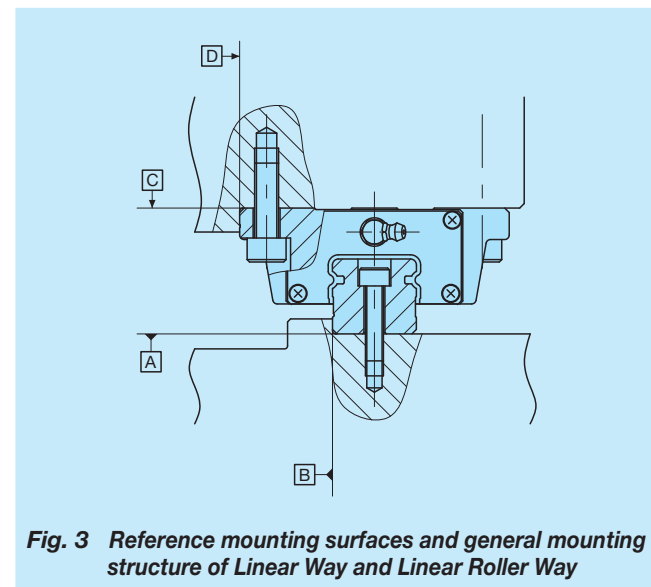


Fig. 3 Reference mounting surfaces and general mounting structure of Linear Way and Linear Roller Way

Table 16 Shoulder heights and corner of the mating reference mounting

Size	Slide unit		Track rail	
	Shoulder height $h_1$	Corner radius $R_1$ (max.)	Shoulder height $h_2$	Corner radius $R_2$ (max.)
8	3.5(4) <sup>(1)</sup>	0.5	1.6 <sup>(2)</sup>	0.2
10	4.5(5) <sup>(1)</sup>	0.5	1.9 <sup>(2)</sup>	0.2
12	6	0.5	2.7 <sup>(2)</sup>	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

unit : mm

Notes<sup>(1)</sup> : In MHD and LWH, values in ( ) are applicable.

<sup>(2)</sup> : For models with under seals (U), it is recommended to use  $h_2$  values 0.6mm smaller than the values in the table.

## ③ Tightening torque of mounting bolts

The standard torque values for MH and LWH series mounting bolts are shown in Table 17. When machines or equipment are subjected to severe vibration, shock, large fluctuating load, or moment load, the bolts should be tightened with a torque 1.2 to 1.5 times higher than the standard torque values shown.

When the mating member material is cast iron or aluminum, tightening torque should be lowered in accordance with the strength characteristics of the material.

Table 17 Tightening torque of mounting bolts

Bolt size	Tightening torque N·m		
	Carbon steel bolt		Stainless steel bolt
	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	—

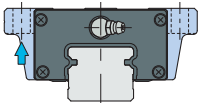
Remark : The recommended tightening torque is for strength division 8.8 for carbon steel bolts in product size 12.

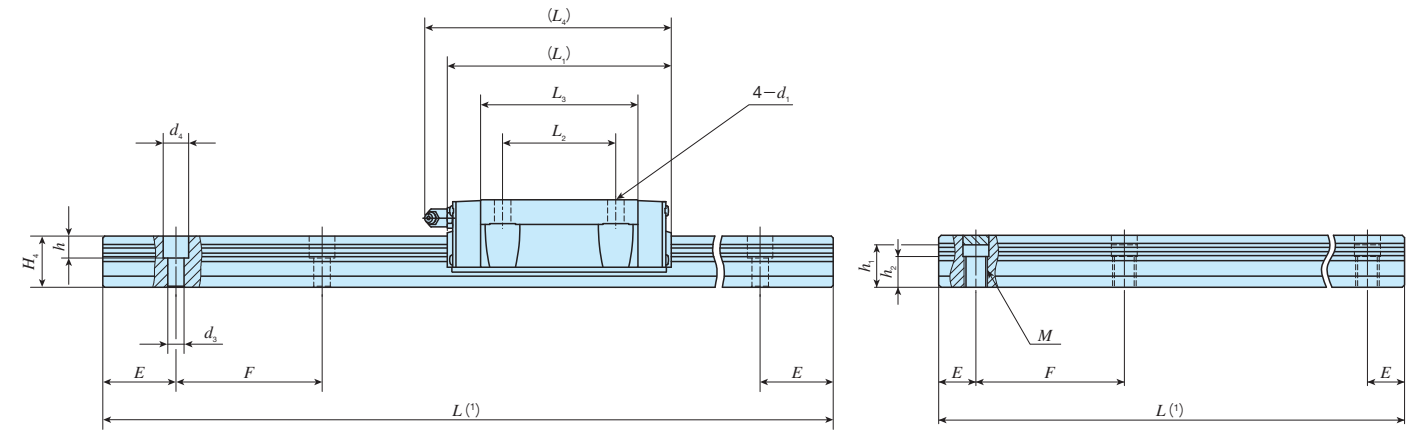
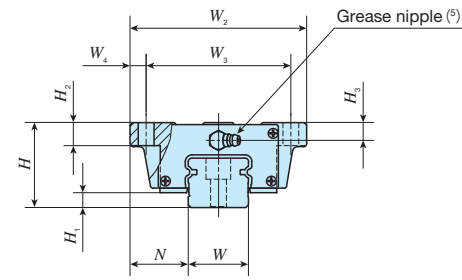
In product size 15 or larger, values are based on strength division 12.9 for carbon steel bolt and property division A2-70 for stainless steel bolt.



# IKO C-Lube Linear Way MH

Flange type, mounting from bottom

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



Ultra sealed track rail mounting from bottom

Model number		Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(3)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>									
MH	LWH (Non C-Lube)		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	d <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>				h	M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m	
MH 30	LWH 30...B	○			9																													
	LWH 30...SL	○	1.28		7					113		80.6	123																					
	LWH 30...M*	—		4.82	42	7	31	90	72	9		52			9	10	8									40	80							
	LWH 30...MU*	—																																
MHG 30	LWHG 30	○	1.69		9																													
	LWHG 30	○			7					139		106.6	149																					
MH 35	LWH 35...B	○			10																													
	LWH 35...M*	—	1.79		8					123		86.2	135																					
	LWH 35...MU*	—		6.85	48	8	33	100	82	9		62			9	13	10									40	80							
MHG 35	LWHG 35	○	2.35		10																													
	LWHG 35	○			8					151		114	163																					
MH 45	LWH 45...B	○			13																													
	LWH 45...M*	—	3.17		10					147		103.4	158																					
	LWH 45...MU*	—		10.7	60	10	37.5	120	100	10		80			11	15	13																	
MHG 45	LWHG 45	○	4.34		13																													
	LWHG 45	○			14					190		146.6	201																					

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

<sup>(2)</sup>: Tightening depth should not be exceeded h<sub>1</sub> dimension.

<sup>(3)</sup>: The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

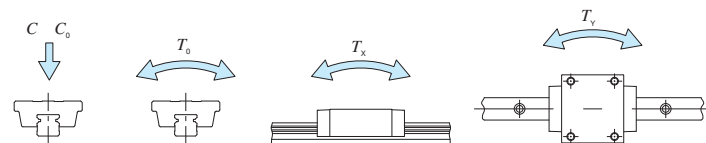
In an assembled set of MH and LWH...MU, track rail mounting bolt is not appended.

<sup>(4)</sup>: The directions of basic dynamic load rating (C), basic static load rating (C<sub>0</sub>) and static moment rating (T<sub>0</sub>, T<sub>x</sub> and T<sub>y</sub>) are shown in the sketches below.

The upper values in the T<sub>x</sub> and T<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.

<sup>(5)</sup>: For the shape of grease nipple, see Table 15 on page II-82.

Remark: Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code	
MH	G	35	C2	R800			T1	P	S1	N
1	2	3	4	5	6	7	8	9	10	11

<b>1 Series</b>	MH Flange type, mounting from bottom LWH(...B)	<b>5 Length of track rail (800mm)</b>	<b>8 Preload amount</b>	No symbol Standard T <sub>1</sub> Light preload T <sub>2</sub> Medium preload T <sub>3</sub> Heavy preload	<b>10 Interchangeable code</b>
<b>2 Length of slide unit</b>	No symbol Standard G High rigidity long	<b>6 Sealing specification</b>	No symbol Standard specification M Ultra sealed specification MU Ultra sealed track rail mounting from bottom	No symbol Non interchangeable specification	<b>11 Special specification</b>
<b>3 Size</b>	30, 35, 45	<b>7 Material</b>	No symbol High carbon steel SL Stainless steel	<b>9 Accuracy class</b>	A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, V, W, Y, Z

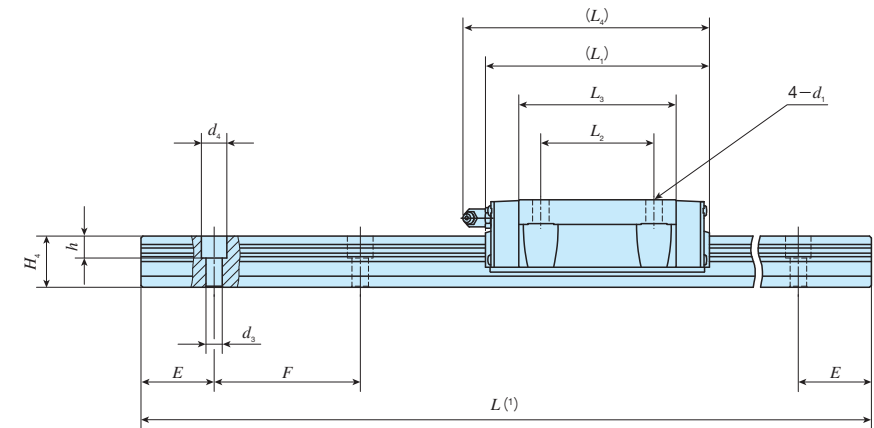
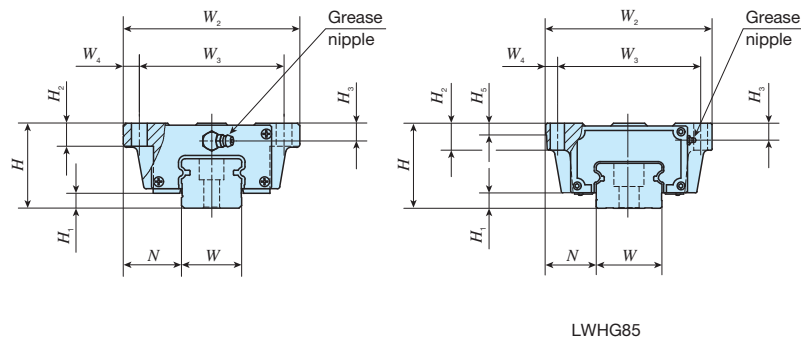
MH • LWH



# IKO C-Lube Linear Way MH

Flange type, mounting from bottom

Shape	<b>LWH</b>				
Size	15	20	25	30	35
	45	55	65	85	



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm										Dimension of track rail mm						Recommended <sup>(2)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(3)</sup> dynamic load rating C N	Basic <sup>(3)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(3)</sup>					
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	d <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>5</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m	
—	LWH 55-B	○	5.30	15.5	70	13	43.5	140	116	12	183	95	132	194	14	17	14	—	53	41	16	23	20	60	120	M14×45	113 000	121 000	2 870	2 210	2 030
—	LWHG 55	○	7.40								235		183.6																246	14	17
—	LWH 65-B	○	12.3	22.2	90	14	53.5	170	142	14	229	110	164	239	16	23	20	—	63	48	18	26	22	75	150	M16×50	176 000	184 000	5 180	4 130	3 790
—	LWHG 65	○	17.6								303		238.8																313	16	23
—	LWHG 85 <sup>(4)</sup>	—	25.9	34.6	110	16	65	215	185	15	318	140	240	—	18	30	22	15	85	58	26	39	30	90	180	M24×60	374 000	384 000	11 900	11 100	11 100

Notes<sup>(1)</sup> : Track rail lengths *L* are shown in Table 2.1 on page II-71.  
<sup>(2)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.  
<sup>(3)</sup> : The directions of basic dynamic load rating (*C*), basic static load rating (*C*<sub>0</sub>) and static moment rating (*T*<sub>0</sub>, *T*<sub>x</sub> and *T*<sub>y</sub>) are shown in the sketches below.  
 The upper values in the *T*<sub>x</sub> and *T*<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.  
<sup>(4)</sup> : Customised item.  
 Remark : For the specification of grease nipple, see Table 15 on page II-82.

MH · LWH

**Example of identification number for assembled set**

Model code	Size	Part code	Model code	Preload amount	Class symbol	Interchangeable code	Supplemental code
<b>LWH</b>	<b>G</b>	<b>55</b>	<b>C2 R1200</b>	<b>T<sub>1</sub></b>	<b>P</b>	<b>S1</b>	<b>/N</b>
①	②	③	④	⑤	⑥	⑦	⑧

**① Series**  
LWH(...B) Flange type, mounting from bottom

**② Length of slide unit**  
No symbol Standard  
G High rigidity long

**③ Size**  
55, 65, 85

**④ Number of slide unit (two slide units)**

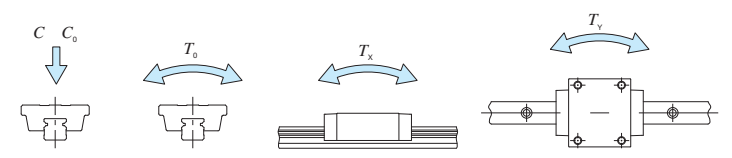
**⑤ Length of track rail (1200mm)**

**⑥ Preload amount**  
No symbol Standard  
T<sub>1</sub> Light preload  
T<sub>2</sub> Medium preload  
T<sub>3</sub> Heavy preload

**⑦ Accuracy class**  
H High  
P Precision  
SP Super precision

**⑧ Interchangeable code**  
S1 Interchangeable specification  
S2 Interchangeable specification  
No symbol Non interchangeable specification

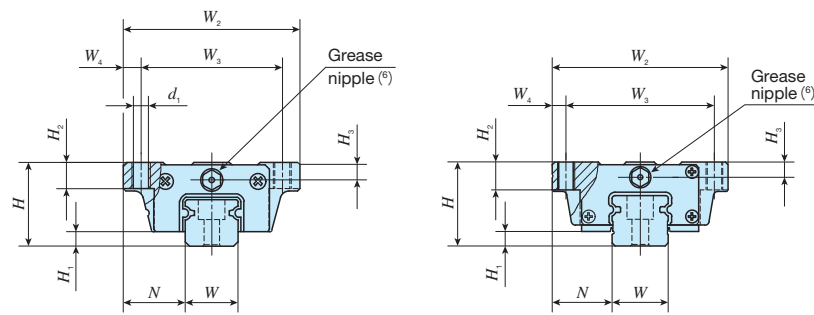
**⑨ Special specification**  
A, D, E, F, I, J, L, LF, MN  
N, PS, Q, T, V, W, Y, Z



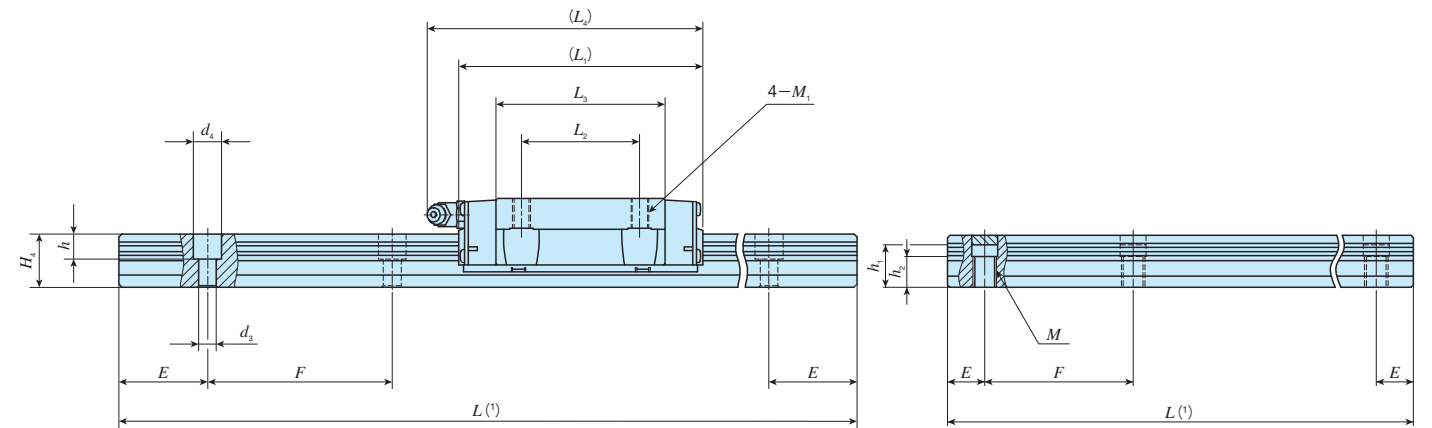
# IKO C-Lube Linear Way MH

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



Ultra sealed track rail mounting from bottom

Model number	Interchangeable	Mass(Reference)		Dimension of assembly mm			Dimension of slide unit mm											Dimension of track rail mm						Recommended <sup>(4)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(5)</sup> dynamic load rating C N	Basic <sup>(5)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(5)</sup>							
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	d <sub>1</sub> <sup>(2)</sup>	M <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h	M				h <sub>1</sub> <sup>(3)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> 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
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
MHT 12...SL	LWHT 12...SL	○	0.108																															
		○	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
MHT 15...SL	LWHT 15...SL	○											44.6																					
		○											44.2																					
		○											44.6																					
	LWHT 15...M*	-											44.6																					
	LWHT 15...MU*	-																																
MHTG 15		○	0.29								82		60.1	85	4.4																			

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

<sup>(2)</sup> : In sizes 8 to 12 and MHTG15, they can be also mounted from the lower side.

<sup>(3)</sup> : Tightening depth should not be exceeded h<sub>1</sub> dimension.

<sup>(4)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

In an assembled set of MHT and LWHT...MU, track rail mounting bolt is not appended.

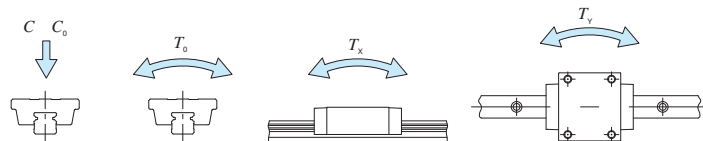
<sup>(5)</sup> : The directions of basic dynamic load rating (C), basic static load rating (C<sub>0</sub>) and static moment rating (T<sub>0</sub>, T<sub>x</sub> and T<sub>y</sub>) are shown in the sketches below.

The upper values in the T<sub>x</sub> and T<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.

<sup>(6)</sup> : In sizes 8 and 10, they are provided with an oil hole. For specification, see Table 14 on page II-82.

For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Preload amount	Preload amount	Class symbol	Interchangeable code	Supplemental code	
MHT	G	15	C2	R900			T1	P	S1	/V
1	2	3	4	5	6	7	8	9	10	11

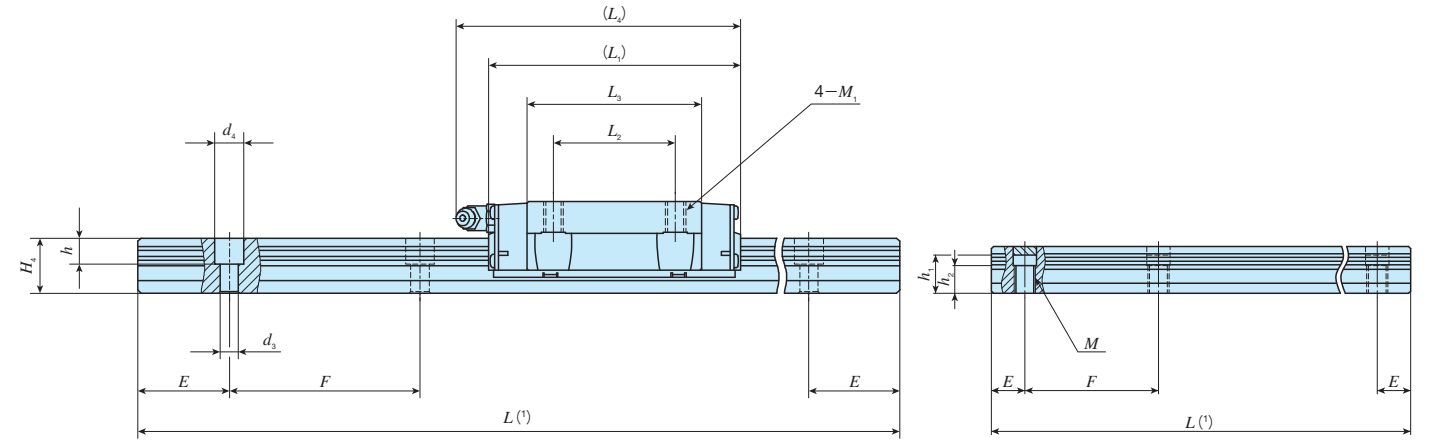
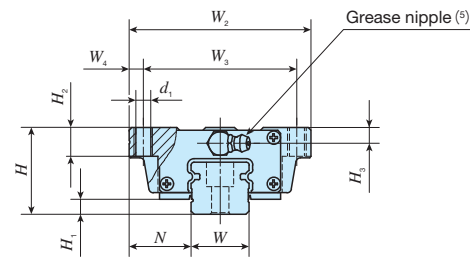
<b>① Series</b> MHT Flange type, mounting from top LWHT(...B)	<b>⑤ Length of track rail (900mm)</b>	<b>⑧ Preload amount</b> T <sub>0</sub> Clearance T <sub>1</sub> Standard T <sub>2</sub> Light preload T <sub>3</sub> Medium preload T <sub>4</sub> Heavy preload	<b>⑩ Interchangeable code</b> S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
<b>② Length of slide unit</b> No symbol Standard G High rigidity long	<b>⑥ Sealing specification</b> No symbol Standard specification M Ultra sealed specification MU Ultra sealed track rail mounting from bottom	<b>⑨ Accuracy class</b> H High P Precision SP Super precision	<b>⑪ Special specification</b> A, BS, D, E, F, I, J, L, LF, MA MN, N, Q, RE, T, U, V, W, Y, Z
<b>③ Size</b> 8, 10, 12, 15	<b>⑦ Material</b> No symbol High carbon steel SL Stainless steel		
<b>④ Number of slide unit (two slide units)</b>			

MH • LWHT

# 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



Ultra sealed track rail mounting from bottom

Model number	Interchangeable	Mass(Reference)		Dimension of assembly mm			Dimension of slide unit mm										Dimension of track rail mm						Recommended <sup>(3)</sup> mounting bolt for track rail mm	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>							
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	d <sub>1</sub>	M <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> 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	○											57.2																					
-	-	-	-	-	-	-	-	-	-	-	-	84.8	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LWHT 20...M*	-	86																															
LWHT 20...MU*	-	-	-	-	-	-	-	-	-	-	-	86.6	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MHTG 20	○	0.71	-	-	-	-	-	-	-	-	-	86																					
LWHTG 20	○	-	-	-	-	-	-	-	-	-	-	86																					
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	○											64.7																					
-	-	-	-	-	-	-	-	-	-	-	-	64.7	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LWHT 25...M*	-	64.7																															
LWHT 25...MU*	-	-	-	-	-	-	-	-	-	-	-	86.6	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MHTG 25	○	0.93	-	-	-	-	-	-	-	-	-	87.4																					
LWHTG 25	○	-	-	-	-	-	-	-	-	-	-	87.4																					

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

(2) : Tightening depth should not be exceeded h<sub>1</sub> dimension.

(3) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

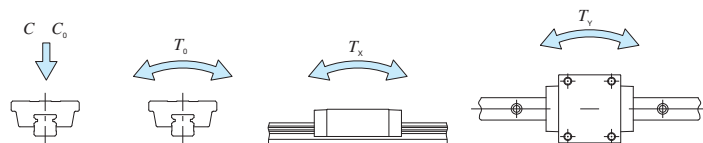
In an assembled set of MHT and LWHT...MU, track rail mounting bolt is not appended.

(4) : The directions of basic dynamic load rating (C), basic static load rating (C<sub>0</sub>) and static moment rating (T<sub>0</sub>, T<sub>x</sub> and T<sub>y</sub>) are shown in the sketches below.

The upper values in the T<sub>x</sub> and T<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.

Remarks 1. For the shape of grease nipple, see Table 15 on page II-82.

2. Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

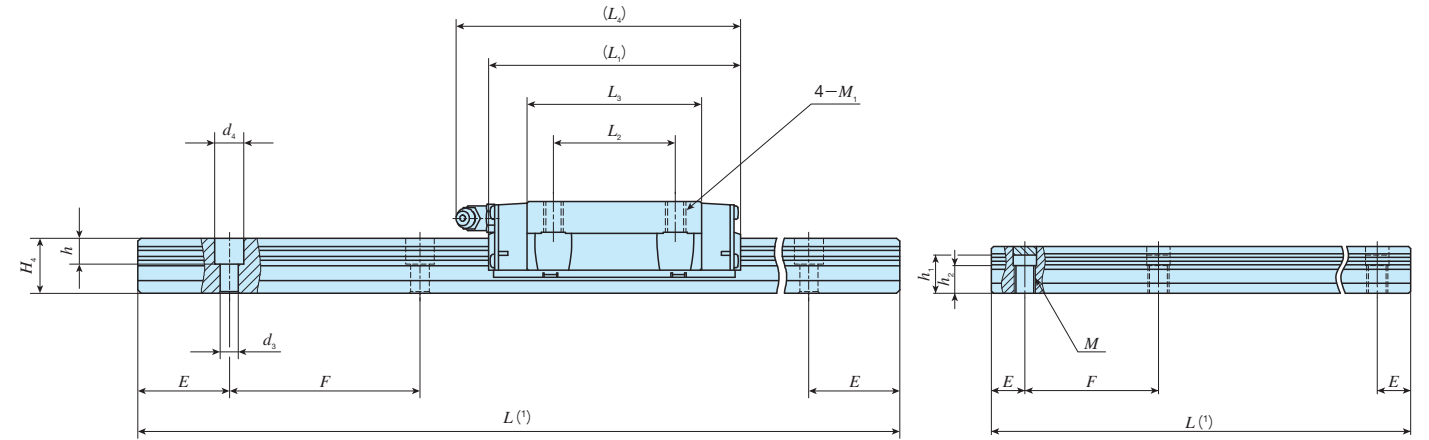
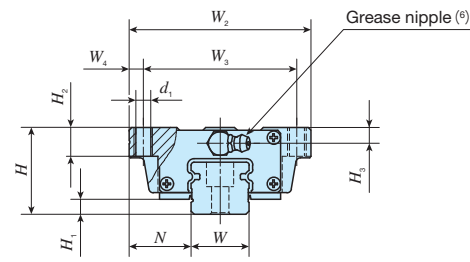
Model code	Size	Part code	Model code	Sealing type	Preload amount	Preload amount	Class symbol	Interchangeable code	Supplemental code	
MHT	G	25	C2	R840			T1	P	S1	/V
1	2	3	4	5	6	7	8	9	10	11

① Series	MHT Flange type, mounting from top	⑤ Length of track rail (840mm)	⑧ Preload amount	No symbol Standard	⑩ Interchangeable code	S1 Interchangeable specification
② Length of slide unit	No symbol Standard	⑥ Sealing specification	T1 Light preload	S2 Interchangeable specification	No symbol Non interchangeable specification	
G High rigidity long		M Ultra sealed specification	T2 Medium preload			
		MU Ultra sealed track rail mounting from bottom	T3 Heavy preload			
③ Size	20, 25	⑦ Material	⑨ Accuracy class	H High	A, BS, D, E, F, I, J, L, LF, MA	
		No symbol High carbon steel	P Precision		MN, N, PS, Q, RE, T, V, W, Y, Z	
④ Number of slide unit (two slide units)		SL Stainless steel	SP Super precision			

# 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



Ultra sealed track rail mounting from bottom

Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm										Dimension of track rail mm						Recommended (4) mounting bolt for track rail mm Bolt size × length	Basic (5) dynamic load rating C N	Basic (5) static load rating C0 N	Static moment rating (5)							
		Slide unit kg	Track rail kg/m	H	H1	N	W2	W3	W4	L1	L2	L3	L4	d1(2)	M1	H2	H3	W	H4	d3	d4	h				M	h1(3)	h2	E	F	T0	Tx	Ty
MHT 30	○	1.28	4.82	42	9	31	90	72	9	113	52	80.6	123	-	M10	10	8	28	25	9	14	12	-	-	-	40	80	M 8×28	35 400	40 700	623	536 2 820	536 2 820
LWHT 30-B	○				7																												
MHT 30-SL	○				9																												
LWHT 30-SL	○				9																												
-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MHTG 30	○	1.69	6.85	48	9	33	100	82	9	139	62	106.6	149	-	M10	13	10	34	28	9	14	12	-	-	-	40	80	M 8×28	42 700	53 200	814	894 4 460	894 4 460
LWHTG 30	○	7																															
MHTL 30	○	8																															
MHT 35	○	8																															
MHT 35	○	1.79	10.7	60	10	37.5	120	100	10	185	80	152.2	194	8.5	M10	15	13	45	34	9	14	12	-	-	-	52.5	105	M 8×28	48 700	53 700	823	631 3 480	579 3 190
LWHT 35-B	○	8																															
-	-	10																															
LWHT 35-M*	-	8																															
-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MHTG 35	○	2.35	10.7	60	10	37.5	120	100	10	151	80	114	163	-	M10	15	13	45	34	9	14	12	-	-	-	52.5	105	M 8×28	59 500	71 600	1 100	1 090 5 570	1 000 5 110
LWHTG 35	○	8																															
MHTL 35	○	9																															
MHT 45	○	9																															
MHT 45	○	3.17	10.7	60	13	37.5	120	100	10	199	80	162.2	211	8.5	M12	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
LWHT 45-B	○	10																															
-	-	13																															
LWHT 45-M*	-	10																															
-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MHTG 45	○	4.34	10.7	60	13	37.5	120	100	10	190	80	146.6	201	-	M12	15	13	45	34	14	20	17	-	-	-	52.5	105	M12×35	95 200	114 000	2 280	2 240 11 100	2 050 10 200
LWHTG 45	○	10																															
MHTL 45	○	12																															
MHT 45	○	12																															
MHTL 45	○	5.70	10.7	60	12	37.5	120	100	10	238	80	194.8	249	10.5	M12	15	13	45	34	14	20	17	-	-	-	52.5	105	M12×35	114 000	147 000	2 960	3 680 17 800	3 370 16 300

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

(2) : MHTL30, MHTL35, and MHTL45 can be mounted also from bottom.

(3) : Tightening depth should not be exceeded h1 dimension.

(4) : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

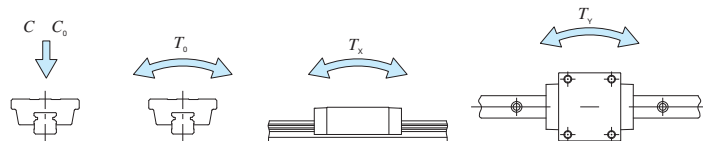
In an assembled set of MH and LWHT...MU, track rail mounting bolt is not appended.

(5) : The directions of basic dynamic load rating (C), basic static load rating (C0) and static moment rating (T0, Tx and Ty) are shown in the sketches below.

The upper values in the Tx and Ty column apply to one slide unit, and the lower values apply to two units in close contact.

(6) : For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHT	G	45	C2	R1260		T1	P	S1	N
1	2	3	4	5	6	7	8	9	10

① Series	⑤ Length of track rail (1260mm)	⑧ Preload amount	⑩ Interchangeable code
MHT Flange type, mounting from top	No symbol Standard specification	No symbol Standard	S1 Interchangeable specification
LWHT(...B) LWHT type, mounting from bottom	T1 Light preload	T1 Light preload	S2 Interchangeable specification
② Length of slide unit	No symbol Standard specification	T2 Medium preload	No symbol Non interchangeable specification
No symbol Standard	M Ultra sealed specification	T3 Heavy preload	⑪ Special specification
G High rigidity long	MU Ultra sealed track rail mounting from bottom	⑨ Accuracy class	A, BS, D, E, F, I, J, L, LF, MA, MN, N, PS, Q, RE, T, V, W, Y, Z
L Extra High rigidity long	⑦ Material	No symbol High	
③ Size	No symbol High carbon steel	P Precision	
30, 35, 45	SL Stainless steel	SP Super precision	
④ Number of slide unit (two slide units)			

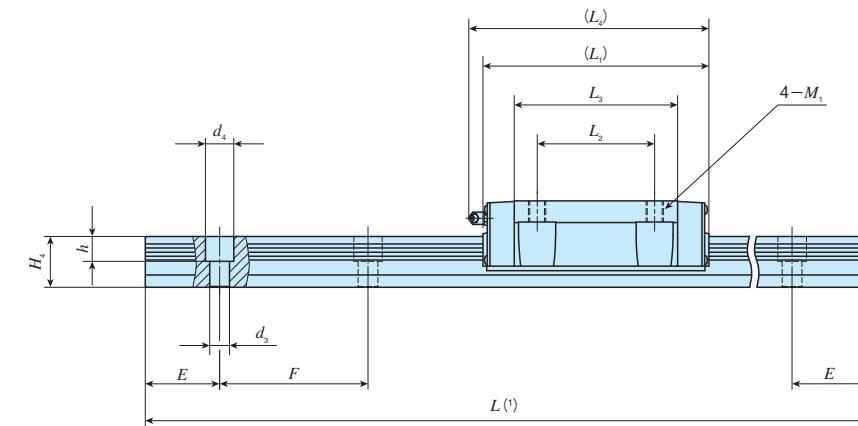
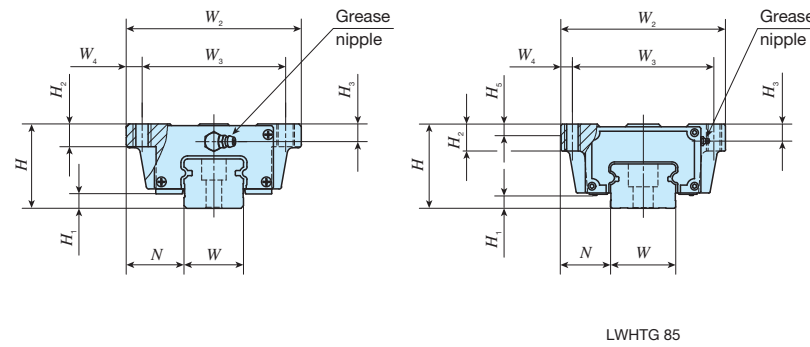
MH • LWHT



# IKO C-Lube Linear Way MH

Flange type, mounting from top

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



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm						Recommended <sup>(2)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(3)</sup> dynamic load rating C N	Basic <sup>(3)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(3)</sup>								
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>				h	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m			
—	LWHT 55...B	○	5.30	15.5	70	13	43.5	140	116	12	183	95	132	194	M14	17	14	—	53	41	16	23	20	60	120	M14×45	113 000	121 000	2 870	2 210	2 030
—	LWHTG 55	○	7.40								235		183.6	246															—	—	—
—	LWHT 65...B	○	12.3	22.2	90	14	53.5	170	142	14	229	110	164	239	M16	23	20	—	63	48	18	26	22	75	150	M16×50	176 000	184 000	5 180	4 130	3 790
—	LWHTG 65	○	17.6								303		238.8	313															—	—	—
—	LWHTG 85 <sup>(4)</sup>	—	25.9	34.6	110	16	65	215	185	15	318	140	240	—	M20	35	22	15	85	58	26	39	30	90	180	M24×60	374 000	384 000	11 900	11 100	11 100

Notes<sup>(1)</sup> : Track rail lengths  $L$  are shown in Table 2.1 on page II-71.  
<sup>(2)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.  
<sup>(3)</sup> : The directions of basic dynamic load rating ( $C$ ), basic static load rating ( $C_0$ ) and static moment rating ( $T_0$ ,  $T_x$  and  $T_y$ ) are shown in the sketches below.  
 The upper values in the  $T_x$  and  $T_y$  column apply to one slide unit, and the lower values apply to two units in close contact.  
<sup>(4)</sup> : Customised item.  
 Remark : For the specification of grease nipple, see Table 15 on page II-82.

MH · LWHT

**Example of identification number for assembled set**

Model code	Size	Part code	Model code	Preload amount	Class symbol	Interchangeable code	Supplemental code
LWHT	G	55	C2	R1200	T <sub>1</sub>	P	S1
①	②	③	④	⑤	⑥	⑦	⑧

**① Series**  
LWHT(...B) Flange type, mounting from top

**② Length of slide unit**  
No symbol Standard  
G High rigidity long

**③ Size**  
55, 65, 85

**④ Number of slide unit (two slide units)**

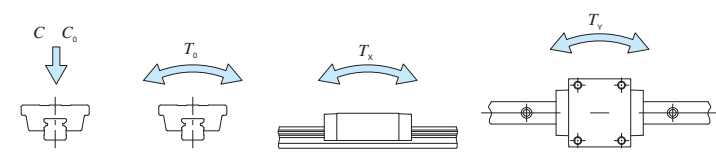
**⑤ Length of track rail (1200mm)**

**⑦ Preload amount**  
No symbol Standard  
T<sub>1</sub> Light preload  
T<sub>2</sub> Medium preload  
T<sub>3</sub> Heavy preload

**⑧ Accuracy class**  
H High  
P Precision  
SP Super precision

**⑧ Interchangeable code**  
S1 Interchangeable specification  
S2 Interchangeable specification  
No symbol Non interchangeable specification

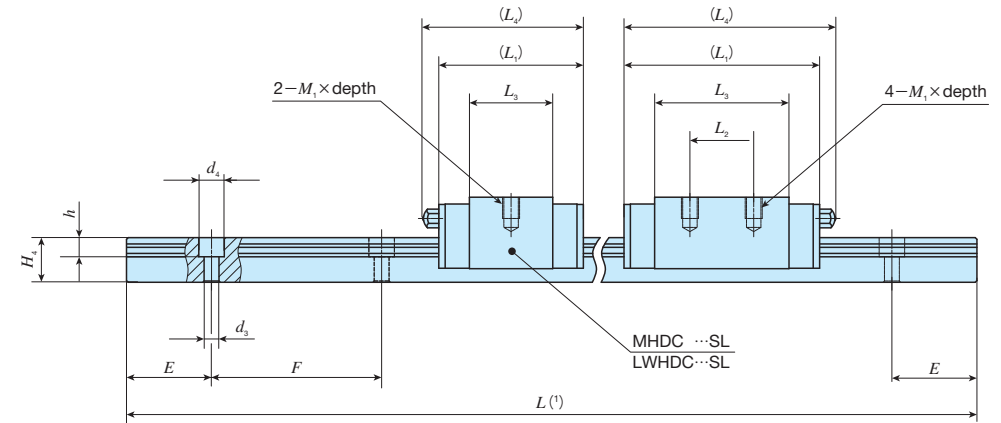
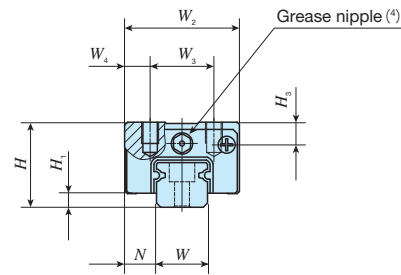
**⑨ Special specification**  
A, D, E, F, I, J, L, LF, MN  
N, PS, Q, T, V, W, Y, Z



# IKO C-Lube Linear Way MH

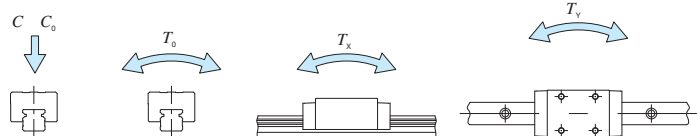
Block type, mounting from top

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



Model number	Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(2)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(3)</sup> dynamic load rating C N	Basic <sup>(3)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(3)</sup>					
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> × depth	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> 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												4.7 26.9				
MHDG 8...SL	LWHDG 8...SL	○	0.018								30.5	21.7	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	LWHD 10...SL	○	0.026								32	12	21.4												11.1 61.9				
MHDG 10...SL	LWHDG 10...SL	○	0.035								40	29.4	20.0 103																
MHDC 12...SL	LWHDC 12...SL	○	0.057	0.86	20	3.2	7.5	27	15	6	34	—	19.6	38	M4 × 5	5	12	10.5	3.5	6	4.5	20	40	M3 × 12	4 560	5 300	32.8	19.4 117	16.3 98.5
MHD 12	LWHD 12	○	0.089								46	15	31.6	50											44.7 237	37.5 199			
MHDG 12...SL	LWHDG 12...SL	○	0.115								58	43.6	62	70.4 399											67.5 335				

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 of JIS B 1176 or equivalent. For stainless steel type, stainless steel bolts are appended. In an assembled set of MHD, track rail mounting bolt is not appended.  
 (3) : The directions of basic dynamic load rating (*C*), basic static load rating (*C*<sub>0</sub>) and static moment rating (*T*<sub>0</sub>, *T*<sub>x</sub> and *T*<sub>y</sub>) are shown in the sketches below. The upper values in the *T*<sub>x</sub> and *T*<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.  
 (4) : In sizes 8 and 10, they are provided with an oil hole. For specification, see Table 14 on page II-82. For the shape of grease nipple, see Table 15 on page II-82.



Example of identification number for assembled set

Model code	Size	Part code	Model code	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHD	G	12	C2	R320	T1	P	S1
1	2	3	4	5	6	7	8
9	10						

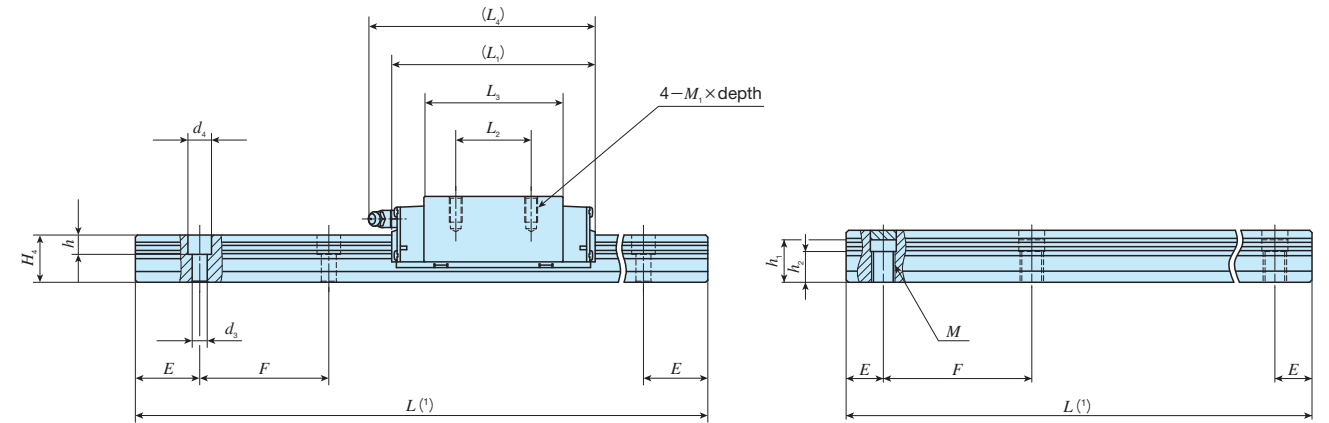
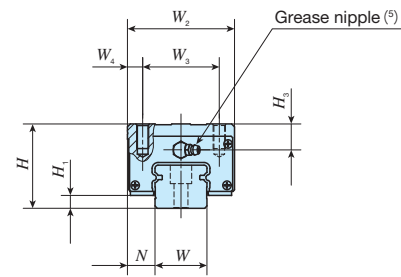
① Series	④ Number of slide unit (two slide units)	⑦ Preload amount	⑨ Interchangeable code
MHD Block type, mounting from top		T <sub>0</sub> Clearance	S1 Interchangeable specification
LWHD Block type, mounting from top		No symbol Standard	S2 Interchangeable specification
② Length of slide unit	⑤ Length of track rail (320mm)	T <sub>1</sub> Light preload	No symbol Non interchangeable specification
C Short		T <sub>2</sub> Medium preload	
No symbol Standard		T <sub>3</sub> Heavy preload	
G High rigidity long		⑧ Accuracy class	⑩ Special specification
③ Size	⑥ Material	H High	A, D, E, F, I, LR, MA
8, 10, 12	No symbol High carbon steel	P Precision	MN, N, Q, U, W, Y
	SL Stainless steel	SP Super precision	

MH • LWH

# 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

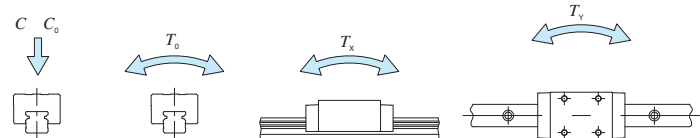


Ultra sealed track rail mounting from bottom

Model number		Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(3)</sup> mounting bolt for track rail mm Bolt size x length	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>											
MH	LWH (Non C-Lube)		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> x depth	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m				
MHD 15	LWHD 15...B	○	0.23	1.47	28	4.5	9.5	34	26	4	66	26	44.2	69	M4 x 10	8.5	15	15	4.5	8	6	-	-	-	30	60	M4 x 16	11 600	13 400	112	95.6 556	95.6 556				
-	LWHD 15...M*	-											44.6						-	-	-	M 6	12	9									-	-	-	-
-	LWHD 15...MU*	-											-						-	-	-	-	-	-									-	-	-	-
MHD 25	LWHD 25...B	○	0.65	3.50	40	6.5	12.5	48	35	6.5	95	35	63.9	105	M6 x 12	10.5	23	22	7	11	9	-	-	-	30	60	M6 x 22	25 200	28 800	362	309 1 690	309 1 690				
-	LWHD 25...M*	-											64.7						-	-	-	M10	18	13									-	-	-	-
-	LWHD 25...MU*	-											-						-	-	-	-	-	-									-	-	-	-
MHDG 25	LWHDG 25	○	0.80								118	50	86.6 87.4	128																						
MHD 30	LWHD 30...B	○	1.12	4.82	45	9	16	60	40	10	113	40	80.6	123	M8 x 16	11	28	25	9	14	12	-	-	-	40	80	M8 x 28	35 400	40 700	623	536 2 820	536 2 820				
-	LWHD 30...M*	-				7													-	-	-	M12	20	13									-	-	-	-
-	LWHD 30...MU*	-				-													-	-	-	-	-	-									-	-	-	-
MHDG 30	LWHDG 30	○	1.44			9					139	60	106.6	149																						
MHDL 30	-	○	1.92			8					185		152.2	194																						

Notes<sup>(1)</sup> : Track rail lengths  $L$  are shown in Table 2.1 on page II-71, and Table 2.3 and 2.4 on page II-73.  
<sup>(2)</sup> : Tightening depth should not be exceeded  $h_1$  dimension.  
<sup>(3)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.  
 In an assembled set of MHD and LWHD...MU, track rail mounting bolt is not appended.  
<sup>(4)</sup> : The directions of basic dynamic load rating ( $C$ ), basic static load rating ( $C_0$ ) and static moment rating ( $T_0$ ,  $T_x$  and  $T_y$ ) are shown in the sketches below.  
 The upper values in the  $T_x$  and  $T_y$  column apply to one slide unit, and the lower values apply to two units in close contact.  
<sup>(5)</sup> : For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHD	G	25	C2	R840	T1	P	S1	/N
1	2	3	4	5	6	7	8	9
10								

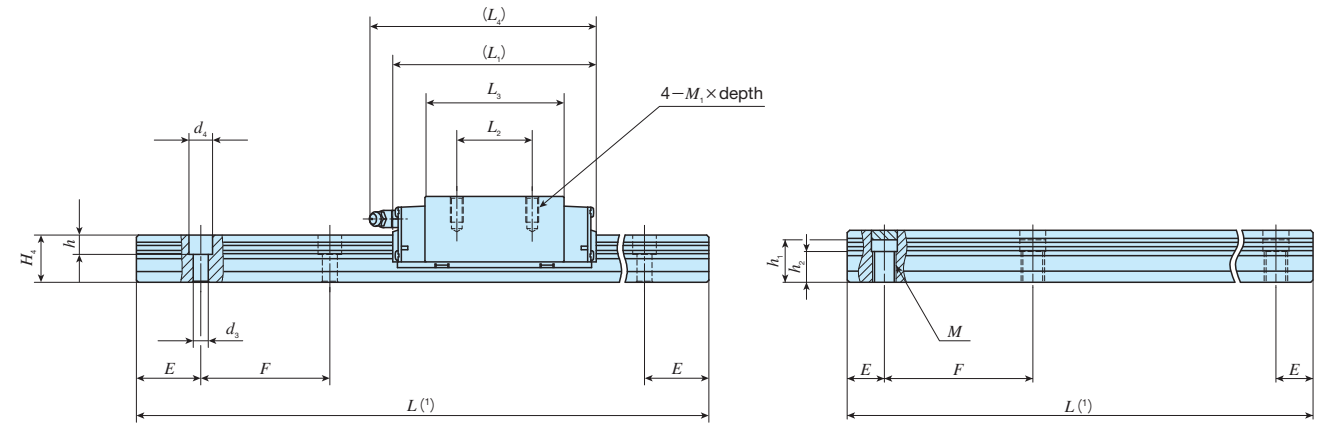
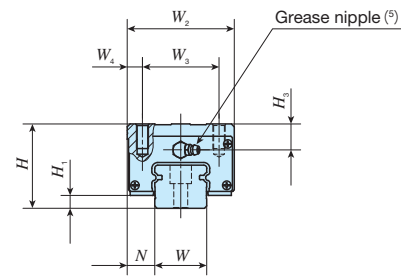
<b>1 Series</b>	<b>4 Number of slide unit (two slide units)</b>	<b>7 Preload amount</b>	<b>9 Interchangeable code</b>
MHD Block type, mounting from top	No symbol Standard	No symbol Standard	S1 Interchangeable specification
LWHD(...B) mounting from bottom		T1 Light preload	S2 Interchangeable specification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

MH • LWH

# 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



Ultra sealed track rail mounting from bottom

Model number		Interchangeable	Mass (Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm										Recommended <sup>(3)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>																								
MH	LWH (Non C-Lube)		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> × depth	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h	M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>				E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m																				
MHD 35	LWHD 35...B	○	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...M*	-				8													-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	LWHD 35...MU*	-				10													151	72	114	163	M 8 × 28	9			14						12	-	-	-	M12	23	16	59 500	71 600	1 100	1 090 5 570	1 000 5 110								
MHDG 35	LWHDG 35	○	2.26	10.7	70	10	20.5	86	60	13	151	72	114	163	M 8 × 16	17	34	28	9	14	12	-	-	-	40	80	M 8 × 28	59 500	71 600	1 100	1 090 5 570	1 000 5 110																				
MHDL 35	-	○	3.08			8													199	162.2	211	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MHD 45	LWHD 45...B	○	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
-	LWHD 45...M*	-		10	-		-	-	-	-	-	-	-	-	-	-	-	-		-					-	-		-	-	-	-	-								-	-	-	-	-	-							
-	LWHD 45...MU*	-		13	190		80	146.6	201	M12 × 35	14	20	17	-	-	-	M16	29		17					95 200	114 000		2 280	2 240 11 100	2 050 10 200																						
MHDG 45	LWHDG 45	○	4.57	15.5	80	13	23.5	100	75	12.5	190	80	146.6	201	M10 × 20	23	45	34	14	20	17	-	-	-	52.5	105	M12 × 35	95 200	114 000	2 280	2 240 11 100	2 050 10 200																				
MHDL 45	-	○	5.85			12													238	194.8	249	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	LWHD 55...B	○	5.36			13													183	75	132	194	M12 × 25	16			23						20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	LWHDG 55	○	7.20	22.2	90	13	23.5	100	75	12.5	235	95	183.6	246	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																				
-	LWHD 65...B	○	9.80			14													229	70	164	239	M16 × 30	18			26						22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	LWHDG 65	○	14.3			14													303	120	238.8	313	M16 × 30	18			26						22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	LWHD 65...B	○	9.80	22.2	90	14	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																				
-	LWHDG 65	○	14.3			14													303	120	238.8	313	M16 × 30	18			26						22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Notes<sup>(1)</sup> : Track rail lengths *L* are shown in Table 2.1 on page II-71, and Table 2.3 and 2.4 on page II-73.

<sup>(2)</sup> : Tightening depth should not be exceeded *h<sub>1</sub>* dimension.

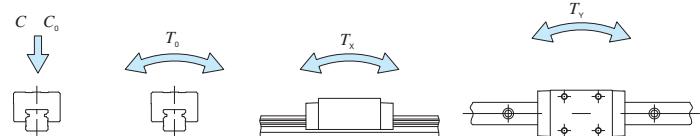
<sup>(3)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent. In an assembled set of MHD and LWHD...MU, track rail mounting bolt is not appended.

<sup>(4)</sup> : The directions of basic dynamic load rating (*C*), basic static load rating (*C<sub>0</sub>*) and static moment rating (*T<sub>0</sub>*, *T<sub>x</sub>* and *T<sub>y</sub>*) are shown in the sketches below.

The upper values in the *T<sub>x</sub>* and *T<sub>y</sub>* column apply to one slide unit, and the lower values apply to two units in close contact.

<sup>(5)</sup> : For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHD	G	45	C2	R1260	T1	P	S1	N
1	2	3	4	5	6	7	8	9

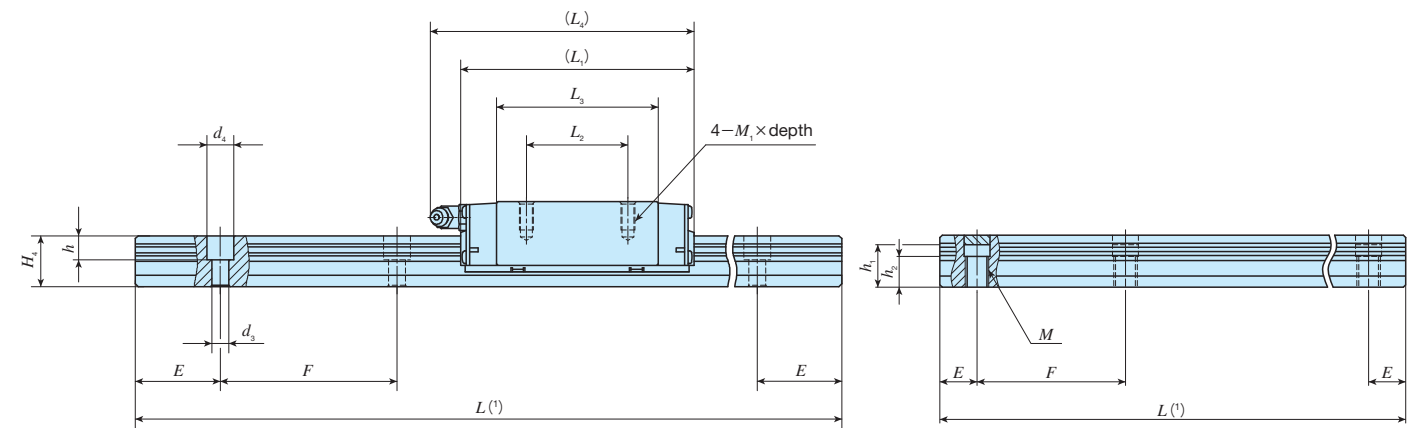
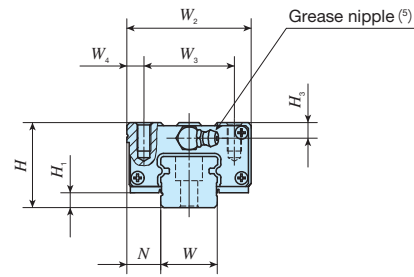
<b>1 Series</b>	<b>5 Length of track rail (1260mm)</b>	<b>7 Preload amount</b>	<b>9 Interchangeable code</b>
MHD Block type, mounting from top LWHD(...B)	1260	No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload	S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
<b>2 Length of slide unit</b>	<b>6 Sealing specification</b>	<b>8 Accuracy class</b>	<b>10 Special specification</b>
No symbol Standard G High rigidity long L Extra High rigidity long	No symbol Standard specification M Ultra sealed specification MU Ultra sealed track rail mounting from bottom	H High P Precision SP Super precision	A, D, E, F, I, J, L, LF, MA MN, N, PS, Q, T, V, W, Y, Z
<b>3 Size</b>			
35, 45, 55, 65			



# IKO C-Lube Linear Way MH

Compact block type, mounting from top

Shape	MHS • LWHS			
Size	15	20	25	30



Ultra sealed track rail mounting from bottom

Model number	Interchangeable	Mass(Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(3)</sup> mounting bolt for track rail mm Bolt size x length	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>								
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> x depth	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m	
MHS 15	○	0.18	1.47	24	4.5	9.5	34	26	4	66	26	69	M4 x 8	4.5	15	15	4.5	8	6	-	-	-	30	60	M4 x 16	11 600	13 400	112	95.6 556	95.6 556		
LWHS 15...B	○																														44.2	44.6
MHS 15...SL	○																														44.2	44.6
LWHS 15...M*	-																														44.6	44.6
MHSG 15	○	0.25								82		85					4.5	8	6	-	-	-			M4 x 16	14 400	18 300	153	172 918	172 918		
MHS 20	○	0.36	2.56	30	5	12	44	32	6	83	36	94	M5 x 10	5.5	20	18	6	9.5	8.5	-	-	-	30	60	M5 x 18	18 100	21 100	232	195 090	195 090		
LWHS 20...B	○																														56	57.2
MHS 20...SL	○																														56	57.2
LWHS 20...M*	-																														57.2	57.2
MHSG 20	○	0.53								112	50	84.8 86	122				6	9.5	8.5	-	-	-			M5 x 18	24 100	31 700	349	421 2 140	421 2 140		

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

<sup>(2)</sup> : Tightening depth should not be exceeded h<sub>1</sub> dimension.

<sup>(3)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

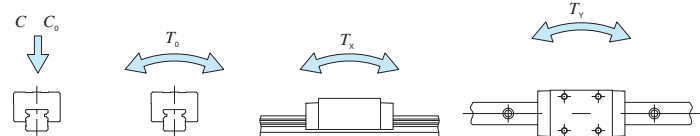
In an assembled set of MHS and LWHS...MU, track rail mounting bolt is not appended.

<sup>(4)</sup> : The directions of basic dynamic load rating (C), basic static load rating (C<sub>0</sub>) and static moment rating (T<sub>0</sub>, T<sub>x</sub> and T<sub>y</sub>) are shown in the sketches below.

The upper values in the T<sub>x</sub> and T<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.

<sup>(5)</sup> : For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHS	G	20	C2	R480		T1	P	S1	/N
1	2	3	4	5	6	7	8	9	10

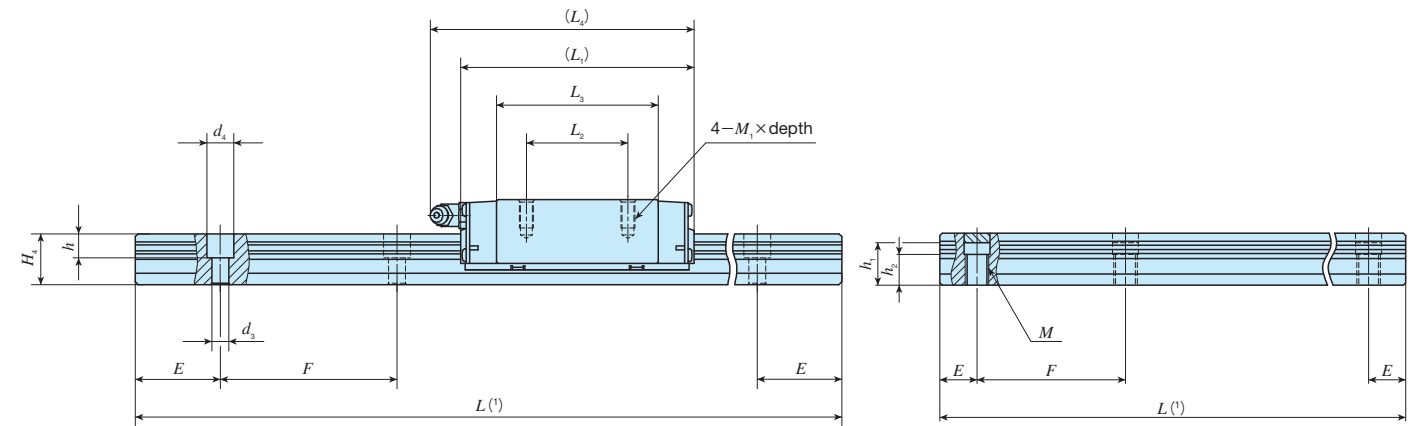
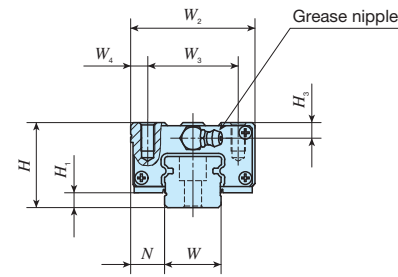
<b>1 Series</b> MHS Compact block type, mounting from top LWHS(...B)	<b>5 Length of track rail (480mm)</b>	<b>8 Preload amount</b> No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload	<b>10 Interchangeable code</b> S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
<b>2 Length of slide unit</b> No symbol Standard G High rigidity long	<b>6 Sealing specification</b> No symbol Standard specification M Ultra sealed specification MU Ultra sealed track rail mounting from bottom	<b>9 Accuracy class</b> H High P Precision SP Super precision	<b>11 Special specification</b> A, BS, D, E, F, I, J, L, LF, MA MN, N, Q, RE, T, V, W, Y, Z
<b>3 Size</b> 15, 20	<b>7 Material</b> No symbol High carbon steel SL Stainless steel		
<b>4 Number of slide unit (two slide units)</b>			

MH • LWHS

# IKO C-Lube Linear Way MH

Compact block type, mounting from top

Shape	MHS • LWHS			
Size	15	20	25	30



Ultra sealed track rail mounting from bottom

Model number	Interchangeable	Mass(Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(3)</sup> mounting bolt for track rail mm Bolt size × length	Basic <sup>(4)</sup> dynamic load rating C N	Basic <sup>(4)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(4)</sup>								
		Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> × depth	H <sub>3</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				M	h <sub>1</sub> <sup>(2)</sup>	h <sub>2</sub>	E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m	
MHS 25	○	0.55	3.50	36	6.5	12.5	48	35	6.5	95	35	63.9	105	M6×12	6.5	23	22	7	11	9	-	-	-	30	60	M6×22	25 200	28 800	362	1 309 690	1 309 690	
LWHS 25...B	○																															64.7
MHS 25...SL	○																															63.9
LWHS 25...SL	○																															64.7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MHSG 25	○	0.67	3.50	36	6.5	12.5	48	35	6.5	118	50	86.6	128	M6×12	6.5	23	22	7	11	9	-	-	-	30	60	M6×22	30 800	38 300	483	2 533 740	2 533 740	
LWHS 25...MU*	-																															87.4
MHSG 25	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MHS 30	○	1.00	4.82	42	9	16	60	40	10	113	40	80.6	123	M8×16	8	28	25	9	14	12	-	-	-	40	80	M8×28	35 400	40 700	623	2 536 820	2 536 820	
LWHS 30...B	○																															7
MHS 30...SL	○																															9
LWHS 30...SL	○																															7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MHSG 30	○	1.29	4.82	42	9	16	60	40	10	139	60	106.6	149	M8×16	8	28	25	9	14	12	-	-	-	40	80	M8×28	42 700	53 200	814	4 894 460	4 894 460	
LWHS 30...MU*	-																															7
MHSG 30	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Notes<sup>(1)</sup> : Track rail lengths *L* are shown in Table 2.1 on page II-71, Table 2.2 on page II-72, and Table 2.3 and 2.4 on page II-73.

<sup>(2)</sup> : Tightening depth should not be exceeded *h<sub>1</sub>* dimension.

<sup>(3)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

For stainless steel type, stainless steel bolts are appended.

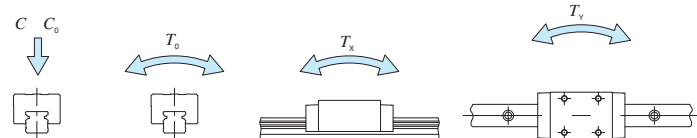
In an assembled set of MHS and LWHS...MU, track rail mounting bolt is not appended.

<sup>(4)</sup> : The directions of basic dynamic load rating (*C*), basic static load rating (*C<sub>0</sub>*) and static moment rating (*T<sub>0</sub>*, *T<sub>x</sub>* and *T<sub>y</sub>*) are shown in the sketches below.

The upper values in the *T<sub>x</sub>* and *T<sub>y</sub>* column apply to one slide unit, and the lower values apply to two units in close contact.

Remarks 1 : For the shape of grease nipple, see Table 15 on page II-82.

2 : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Model code	Sealing type	Material	Preload amount	Class symbol	Interchangeable code	Supplemental code
MHS	G	30	C2	R480		T1	P	S1	/N
1	2	3	4	5	6	7	8	9	10

① Series	MHS Compact block type, mounting from top
② Length of slide unit	No symbol Standard G High rigidity long
③ Size	25, 30
④ Number of slide unit (two slide units)	

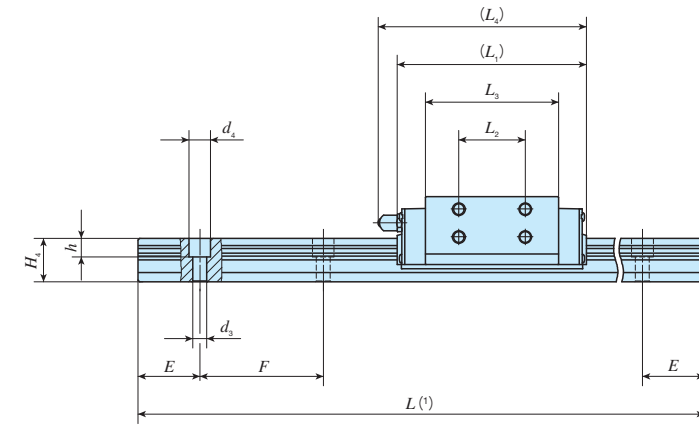
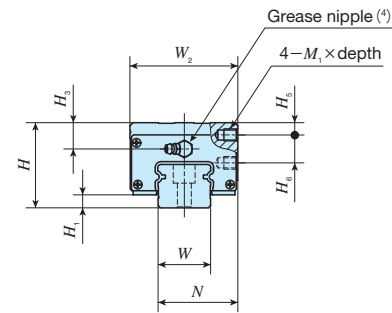
⑤ Length of track rail (480mm)	
⑥ Sealing specification	No symbol Standard specification M Ultra sealed specification MU Ultra sealed track rail mounting from bottom
⑦ Material	No symbol High carbon steel SL Stainless steel

⑧ Preload amount	No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload
⑨ Accuracy class	H High P Precision SP Super precision

⑩ Interchangeable code	S1 Interchangeable specification S2 Interchangeable specification No symbol Non interchangeable specification
⑪ Special specification	A, BS, D, E, F, I, J, L, LF, MA, MN, PS, N, Q, RE, T, V, W, Y, Z

# IKO C-Lube Linear Way MH

Side mounting type				
Shape	LWHY			
Size	15	20	25	30
	35	45	55	65



Model number	MH	Interchangeable LWH (Non C-Lube)	Mass(Reference)		Dimension of assembly mm			Dimension of slide unit mm							Dimension of track rail mm							Recommended <sup>(2)</sup> mounting bolt for track rail mm Bolt size×length	Basic <sup>(3)</sup> dynamic load rating C N	Basic <sup>(3)</sup> static load rating C <sub>0</sub> N	Static moment rating <sup>(3)</sup>				
			Slide unit kg	Track rail kg/m	H	H <sub>1</sub>	N	W <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	M <sub>1</sub> ×depth	H <sub>3</sub>	H <sub>5</sub>	H <sub>6</sub>	W	H <sub>4</sub>	d <sub>3</sub>	d <sub>4</sub>	h				E	F	T <sub>0</sub> N·m	T <sub>x</sub> N·m	T <sub>y</sub> N·m
—	LWHY 15*	—	0.23	1.47	28	4.5	24.3	34	66	18	44.6	69	M 4×4	8.5	4	9	15	15	4.5	8	6	30	60	M 4×16	9 360	13 900	116	99.2 577	99.2 577
—	LWHY 20*	—	0.36	2.56	30	5	31.5	43.7	83	25	57.2	94	M 5×5	5.5	4	10	20	18	6	9.5	8.5	30	60	M 5×18	14 500	21 900	241	202 1 130	202 1 130
—	LWHY 25*	—	0.65	3.50	40	6.5	35	47.7	95	30	64.7	105	M 6×6	10.5	6	12	23	22	7	11	9	30	60	M 6×22	20 100	29 800	376	320 1 750	320 1 750
—	LWHY 30*	—	1.12	4.82	45	7	43.5	59.7	113	40	80.6	123	M 6×7	11	8	14	28	25	9	14	12	40	80	M 8×28	28 100	42 200	646	556 2 930	556 2 930
—	LWHY 35*	—	1.74	6.85	55	8	51.5	69.7	123	43	86.2	135	M 8×9	17	8	18	34	28	9	14	12	40	80	M 8×28	31 200	43 500	878	665 3 600	601 3 310
—	LWHY 45*	—	3.30	10.7	70	10	65	85.7	147	55	103.4	158	M10×11	23	10	22	45	34	14	20	17	52.5	105	M12×35	47 600	65 000	1 720	1 200 6 420	1 100 5 900
—	LWHY 55*	—	5.36	15.5	80	13	76	99.7	183	70	132	194	M12×13	24	12	25	53	41	16	23	20	60	120	M14×45	71 200	98 300	3 050	2 300 12 000	2 110 11 000
—	LWHY 65*	—	9.80	22.2	90	14	94.5	126	229	85	164	239	M16×16	20	12	30	63	48	18	26	22	75	150	M16×50	110 000	149 000	5 510	4 280 22 800	3 930 21 000

Notes<sup>(1)</sup> : Track rail lengths L are shown in Table 2.1 on page II-71.

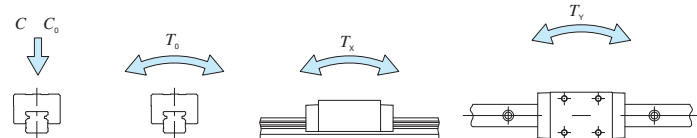
<sup>(2)</sup> : The appended track rail mounting bolts are hexagon socket head bolts of JIS B 1176 or equivalent.

<sup>(3)</sup> : The directions of basic dynamic load rating (C), basic static load rating (C<sub>0</sub>) and static moment rating (T<sub>0</sub>, T<sub>x</sub> and T<sub>y</sub>) are shown in the sketches below.

The upper values in the T<sub>x</sub> and T<sub>y</sub> column apply to one slide unit, and the lower values apply to two units in close contact.

<sup>(4)</sup> : For the shape of grease nipple, see Table 15 on page II-82.

Remark : Model numbers marked \* are semi-standard items.



### Example of identification number for assembled set

Model code	Size	Part code	Preload amount	Class symbol	Supplemental code
LWHY	30	C2 R480	T1	P	N
①	②	③	④	⑤	⑥

① Series  
LWHY Side mounting type

② Size  
15, 20, 25, 30, 35, 45, 55, 65

③ Number of slide unit (two slide units)

④ Length of track rail (480mm)

⑤ Preload amount  
No symbol Standard  
T1 Light preload  
T2 Medium preload  
T3 Heavy preload

⑥ Accuracy class  
H High  
P Precision  
SP Super precision

⑦ Special specification  
A, BS, D, E, F, I, J, L, LF, MA  
MN, PS, N, Q, RE, T, V, W, Y, Z