

C-Lube Linear Way MH Linear Way H

MH · LWH



C-Lube Linear Way MH

MH



The aquamarine end plate is the symbol of maintenance free.

Track rail

Slide unit

Casing

C-Lube

Ball

End plate

Under seal

Ball retaining band

End seal

Grease nipple

Linear Way H

LWH

Points

- **High rigidity series with the largest-class load rating among ball types**

High rigidity linear motion rolling guides designed to evenly support high load capacity by incorporating large-diameter balls.

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

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

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

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

- **Series of ultra seal specification for excellent dust protection performance**

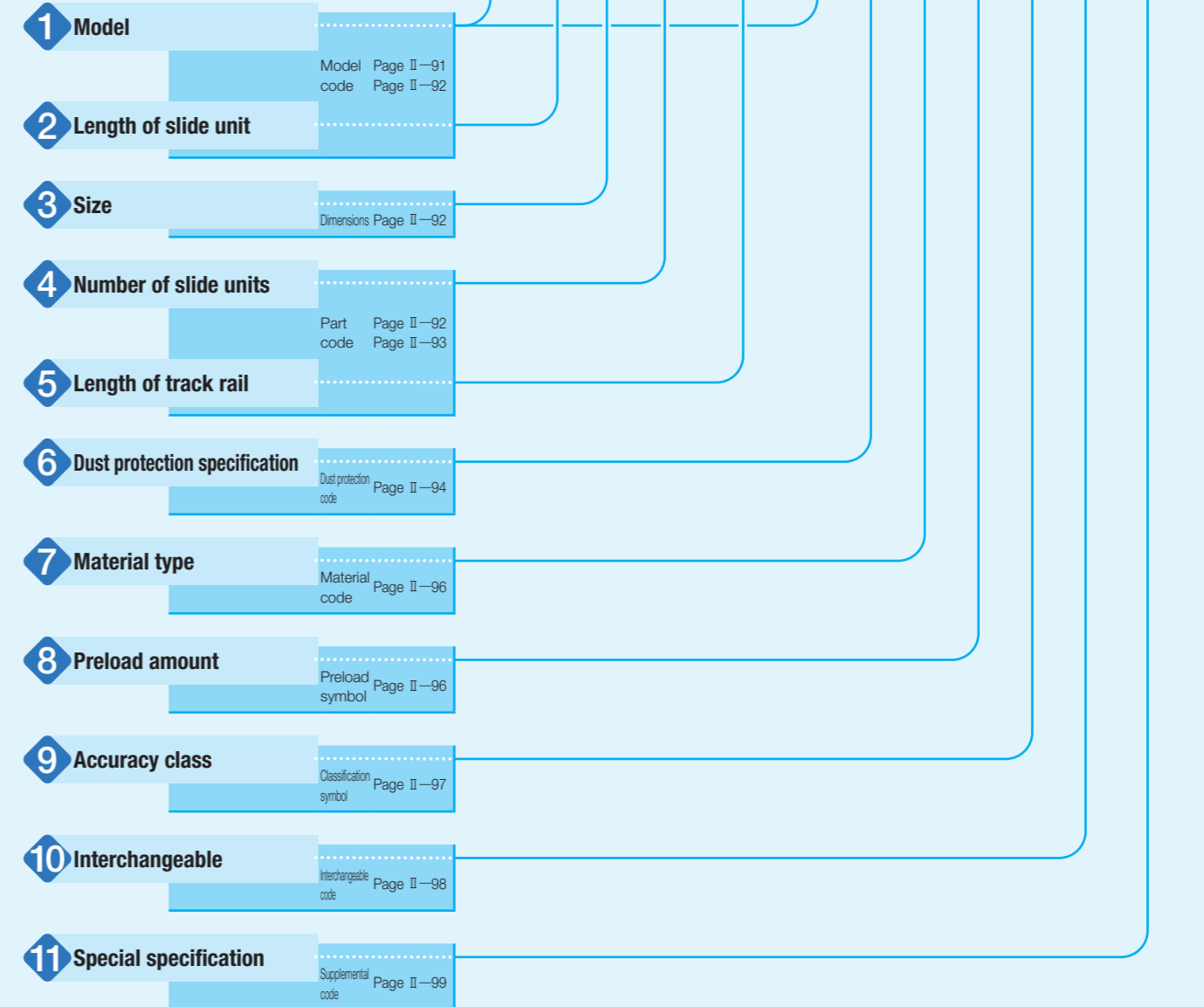
Products of ultra seal specifications have excellent dust protection performance thanks to the combination of the dedicated track rail finished with total ground and slide unit with end seal and under seal of special shapes. Special specification with inner seal further improves dust protection property of the ball circulation section against foreign substances from the upper surface of the track rail.

Identification Number and Specification

Example of an identification number

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

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



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

MH · LWH

Identification Number and Specification — Model —

| | | |
|----------------|--|--|
| 1 Model | C-Lube Linear Way MH (MH series) | Flange type mounting from bottom : MH Flange type mounting from top ⁽²⁾ : MHT Block type mounting from top : MHD Compact block type mounting from top : MHS |
| | Linear Way H ⁽¹⁾ (LWH series) | Flange type mounting from bottom : LWH (...B) Flange type mounting from top ⁽²⁾ : LWHT (...B) Block type mounting from top : LWHD (...B) Compact block type mounting from top : LWHS (...B) Side mounting type : LWHY |

For applicable models and sizes, see Table 1.1 and Table 1.2.
Indicate "LWH...B" or "LWH" for the model code of the single track rail regardless of the series and the combination of slide unit models.

Notes ⁽¹⁾ This model has no built-in C-Lube.
⁽²⁾ Some models may be mounted upward.

Table 1.1 Models and sizes of MH and LWH series

| Material | Shape | Length of slide unit | Model | Size | | | | | | | | | | | |
|------------------------|--------------------------------------|----------------------|----------|------|----|---------------------|------------------|----|----|----|----|----|----|----|---|
| | | | | 8 | 10 | 12 | 15 | 20 | 25 | 30 | 35 | 45 | 55 | 65 | |
| High carbon steel made | Flange type mounting from bottom | Standard | MH | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | - | - | |
| | | | LWH...B | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | Long | MHG | - | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | - | - |
| | | | LWHG | - | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Flange type mounting from top | Standard | MHT | - | - | ○ ⁽¹⁾ | ○ | ○ | ○ | ○ | ○ | ○ | - | - | |
| | | | LWHT...B | - | - | ○ ⁽¹⁾⁽²⁾ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | | Long | MHTG | - | - | - | ○ ⁽¹⁾ | ○ | ○ | ○ | ○ | ○ | - | - | |
| | | | LWHTG | - | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Block type mounting from top | Standard | MHD | - | - | ○ | ○ | - | ○ | ○ | ○ | ○ | - | - | |
| | | | LWHD...B | - | - | ○ ⁽²⁾ | ○ | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | | Long | MHDG | - | - | - | - | - | ○ | ○ | ○ | ○ | - | - | |
| | | | LWHDG | - | - | - | - | - | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Compact block type mounting from top | Standard | MHS | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | |
| | | | LWHS...B | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | |
| Long | | MHSG | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| Side mounting type | Standard | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| Side mounting type | Standard | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| Side mounting type | Standard | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| Side mounting type | Standard | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| Side mounting type | Standard | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |
| | | LWHS...M (U) | - | - | - | ○ | ○ | ○ | ○ | - | - | - | - | | |

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

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

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

Table 1.2 Models and sizes of MH and LWH series

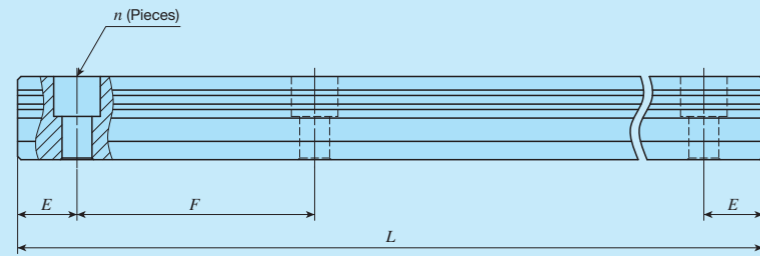
| Material | Shape | Slide unit Length | Model | Size | | | | | | | | | | |
|----------------------|--------------------------------------|-------------------|-----------|------------------|------------------|------------------|----|----|----|----|----|----|----|----|
| | | | | 8 | 10 | 12 | 15 | 20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

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

5 Length of track rail

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

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



unit: mm

| Item | Identification 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 E or higher dimensions ⁽¹⁾ | below | 5.5 | 7 | 8 | 9 | 10 |
| | | 25.5 | 37 | 38 | 39 | 50 |
| Maximum length ⁽²⁾ | | 1 480 | 1 500 (3 000) | 1 980 (3 000) | 3 000 (3 960) | 2 960 (4 000) |
| Item | Identification number | MH 35 LWH35...B | MH 45 LWH45...B | LWH55...B | LWH65...B | |
| 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 | |
| E | | 40 | 52.5 | 60 | 75 | |
| Standard E or higher dimensions ⁽¹⁾ | below | 10 | 12.5 | 15 | 17 | |
| | | 50 | 65 | 75 | 92 | |
| Maximum length ⁽²⁾ | | 2 960 (4 000) | 2 940 (3 990) | 3 000 (3 960) | 3 000 (3 900) | |

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

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

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

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

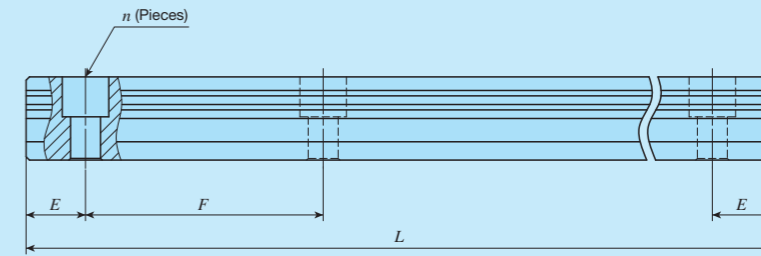
3. For ultra seal specification, refer to Table 2.3 and Table 2.4.

4. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page III -30.

6 Dust protection specification

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

Table 2.2 Standard and maximum length of stainless steel track rail



unit: mm

| Item | Identification number | MH 8...SL LWH8...SL | MH 10...SL LWH10...SL | MH 12...SL LWH12...SL | MH 15...SL LWH15...SL | MH 20...SL LWH20...SL | MH 25...SL LWH25...SL | MH 30...SL LWH30...SL |
|--|-----------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Standard length 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) | | | | |
| Pitch of mounting holes F | | 20 | 25 | 40 | 60 | 60 | 60 | 80 |
| E | | 10 | 12.5 | 20 | 30 | 30 | 30 | 40 |
| Standard E or higher dimensions ⁽¹⁾ | below | 4.5 | 5 | 5.5 | 7 | 8 | 9 | 10 |
| | | 14.5 | 17.5 | 25.5 | 37 | 38 | 39 | 50 |
| Maximum length ⁽²⁾ | | 480 (1 000) | 850 (1 000) | 1 000 (1 480) | 1 200 (1 500) | 1 200 (1 980) | 1 200 (1 980) | 1 200 (2 000) |

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

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

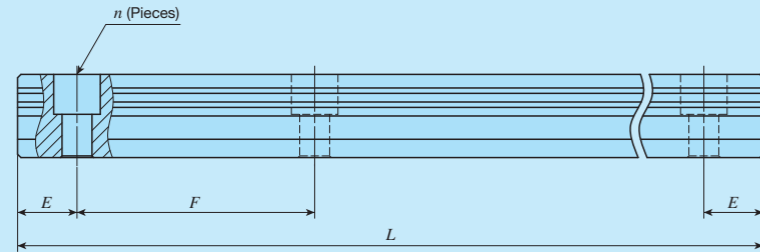
Remarks 1. A typical identification number is indicated, but is applied to all models of the same size.

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

3. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page III -30.

—Length of Track Rail—

Table 2.3 Standard and maximum length of ultra seal specification high carbon steel track rail



unit: mm

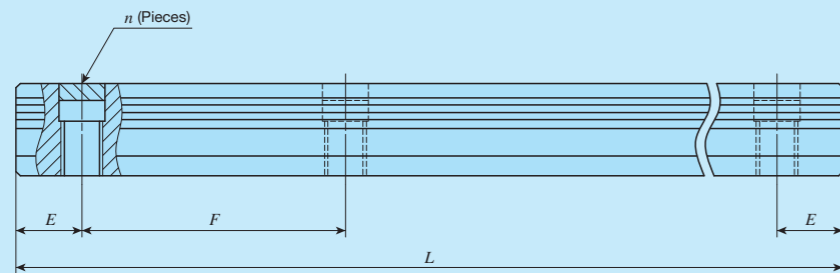
| Item | Identification number | | | | | |
|--|-----------------------|------------|------------------------|------------------------|------------|------------|
| | LWH15...M | LWH20...M | MH 25...M LWH25...M | MH 30...M LWH30...M | LWH35...M | LWH45...M |
| Standard length L (n) | 180 (3) | 240 (4) | 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) |
| Pitch of mounting holes F | 60 | 60 | 60 | 80 | 80 | 105 |
| E | 30 | 30 | 30 | 40 | 40 | 52.5 |
| Standard E or higher dimensions ⁽¹⁾ below | 7 | 8 | 9 | 10 | 10 | 12.5 |
| | 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 track rails | 3 | 3 | 3 | 3 | 3 | 3 |
| Maximum length of butt-jointing track rail | 4 200 | 5 640 | 8 700 | 8 480 | 8 480 | 8 295 |

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

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

2. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page III -30.

Table 2.4 Standard and maximum length of ultra seal specification with track rail mounting from bottom



unit: mm

| Item | Identification number | | | | | |
|--|-----------------------|------------|--------------------------|--------------------------|------------|------------|
| | LWH15...MU | LWH20...MU | MH 25...MU LWH25...MU | MH 30...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) |
| Pitch of mounting holes F | 60 | 60 | 60 | 80 | 80 | 105 |
| E | 30 | 30 | 30 | 40 | 40 | 52.5 |
| Standard E or higher dimensions ⁽¹⁾ below | 7 | 8 | 9 | 10 | 10 | 12.5 |
| | 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 track rails | 3 | 3 | 3 | 3 | 3 | 3 |
| Maximum length of butt-jointing track rail | 4 200 | 5 640 | 8 700 | 8 480 | 8 480 | 8 295 |

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

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

2. Track rail mounting bolt is not included.

3. If not directed, E dimensions for both ends will be the same within the range of standard E dimensions. To change the dimensions, indicate the specified rail mounting hole positions "/E" of special specification. For more information, see page III -30.

—Material Type · Preload Amount—

7 Material type

High carbon steel made : No symbol For applicable models and sizes, see Table 1.1 and
Stainless steel made ⁽¹⁾ : SL Table 1.2.

Note ⁽¹⁾ Mount a standard grease nipple (brass) on the stainless steel type, too.
Stainless steel grease nipple is also available. If needed, please contact IKO.

8 Preload amount

Clearance : T₀ Specify this item for an assembled set or a single slide unit.
Standard : No symbol For details of the preload amount, see Table 3.
Light preload : T₁ For applicable preload types, see Table 4.
Medium preload : T₂
Heavy preload : T₃

Table 3 Preload amount

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

Notes ⁽²⁾ There is zero or subtle clearance.

⁽³⁾ Indicates zero or minimal amount of preload.

Remark: C₀ indicates the basic static load rating.

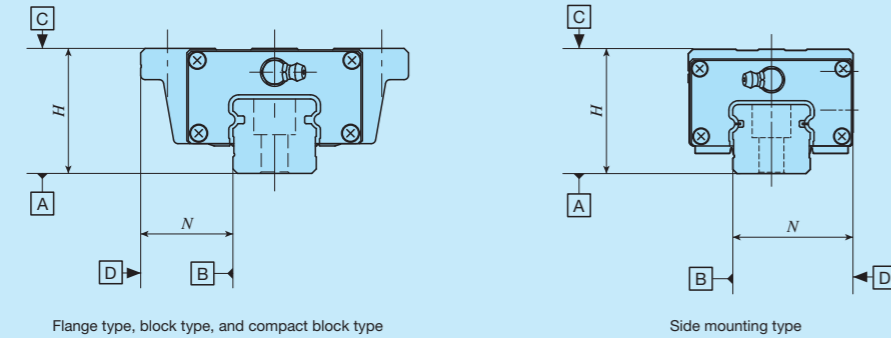
Table 4 Application of preload

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

Remark: The mark indicates that interchangeable specification products are available.

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

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



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

Notes ⁽¹⁾ It means the size variation between slide units mounted on the same track rail.
⁽²⁾ Applicable to the interchangeable specifications.

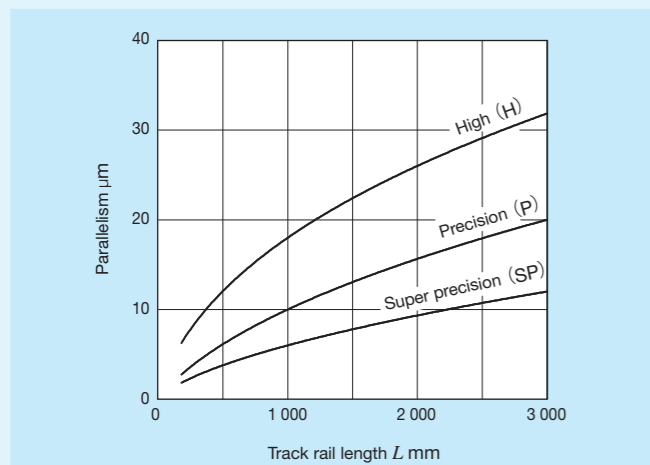
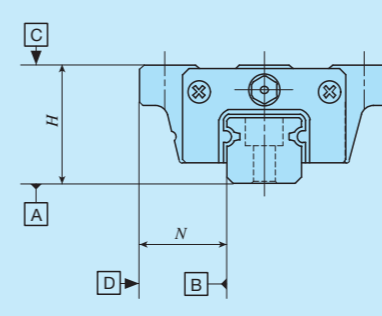


Fig. 1.1 Parallelism in operation (series of Size 15 or higher)

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




| Item | Class (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> ⁽¹⁾ | | 0.015 | 0.007 |
| Dim. variation of <i>N</i> ⁽¹⁾ | | 0.020 | 0.010 |
| Dim. variation of <i>H</i> for multiple assembled sets ⁽²⁾ | | 0.030 | 0.020 |
| Parallelism in operation of the slide unit C surface to A surface | | See Fig. 1.2 | |
| Parallelism in operation of the slide unit D surface to B surface | | See Fig. 1.2 | |

Notes ⁽¹⁾ It means the size variation between slide units mounted on the same track rail.
⁽²⁾ Applicable to the interchangeable specifications.

Table 6 Application of accuracy class

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

Remark: The mark  indicates that interchangeable specification products are available.

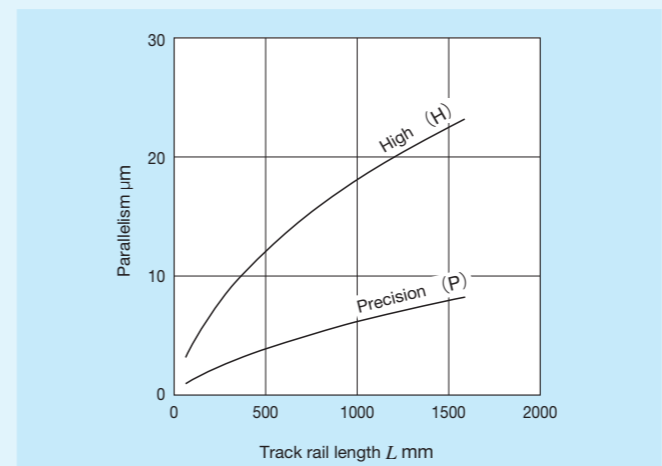


Fig. 1.2 Parallelism in operation (Series of size 8 to 12)

10 Interchangeable

| | | |
|-----------------------------------|-------------|--|
| S1 specification | : S1 | This is specified for the interchangeable specifications. |
| S2 specification | : S2 | Assemble a track rail and a slide unit with the same interchangeable code. When using in combination with different interchangeable codes, please contact IKO. |
| Non-interchangeable specification | : No symbol | Note that the combination of interchangeable codes will not have any effect on accuracy. For applicable models and sizes, see Table 1.1 and Table 1.2. "No symbol" is indicated for non-interchangeable specification. |

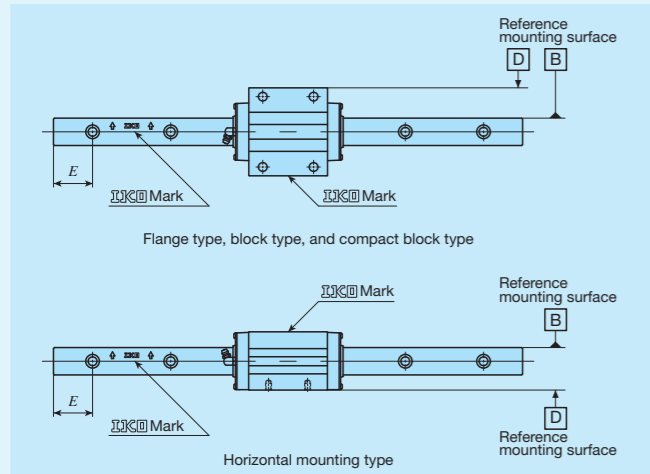


Fig. 2 Specified rail mounting hole positions (Supplemental code /E)

Remark: For details of specified rail mounting hole positions (supplemental code /E), see page III-30.

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

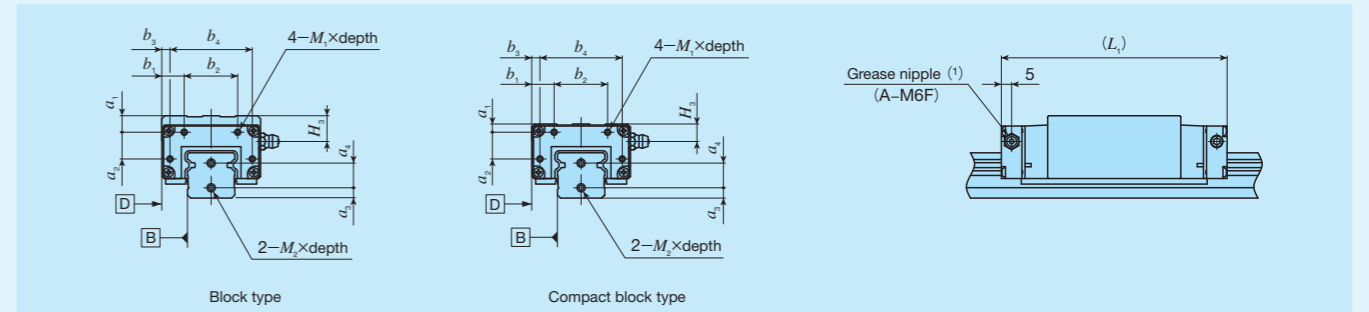
| Identification number | | Slide unit | | | | | | | | Track rail | | | |
|-----------------------|------------------|------------|-------|-------|-------|-------|-------|---------------------------|-------------|------------|-------|-------|---------------------------|
| | | a_1 | a_2 | b_1 | b_2 |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

Notes (1) The specification and mounting positions of grease nipple are different from those of the standard specification product. Provided grease nipple for size 15 models is NPB2 type (special specification). For details of dimensions, contact IKO.

(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.

Remark: This is also applicable to stainless steel models of the same size.

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



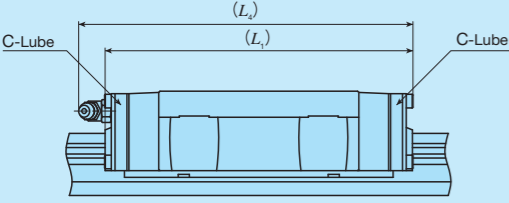
| Identification number | | Slide unit | | | | | | | | Track rail | | | |
|-----------------------|----------------|------------|-------|-------|-------|-------|-------|---------------------------|-------------|------------|-------|-------|---------------------------|
| | | a_1 | a_2 | b_1 | b_2 | b_3 | b_4 | $M_1 \times \text{depth}$ | $L_1^{(2)}$ | H_3 | a_3 | a_4 | $M_2 \times \text{depth}$ |
| MHD 15 | LWHD 15...B | 7 | 7 | 9 | 16 | 3 | 28 | M3×6 | 83 | 10.5 | 4 | 8 | M3×6 |
| — | LWHD 15...M | | | | | | | | 86 | | | | |
| MHS 15 | LWHS 15...B | 3 | 7 | 9 | 16 | 3 | 28 | M3×6 | 83 | 6.5 | 4 | 8 | M3×6 |
| — | LWHS 15...M(U) | | | | | | | | 86 | | | | |
| MHSG 15 | — | 4 | 10 | 11 | 22 | 4 | 36 | M3×6 | 99 | 8.5 | 5 | 9 | M4×8 |
| MHS 20 | LWHS 20...B | | | | | | | | 103 | | | | |
| — | LWHS 20...M(U) | 8 | 13 | 11 | 26 | 4 | 40 | M3×6 | 128 | 12.5 | 5 | 12 | M4×8 |
| MHSG 20 | LWHS 20 | | | | | | | | 110 | | | | |
| MHD 25 | LWHD 25...B | 4 | 13 | 11 | 26 | 4 | 40 | M3×6 | 115 | 8.5 | 5 | 12 | M4×8 |
| MHD 25...M(U) | LWHD 25...M(U) | | | | | | | | 133 | | | | |
| MHSG 25 | LWHS 25...B | 4 | 13 | 11 | 26 | 4 | 40 | M3×6 | 110 | 11 | 6 | 14 | M4×8 |
| MHS 25 | LWHS 25...B | | | | | | | | 115 | | | | |
| MHS 25...M(U) | LWHS 25...M(U) | 8 | 17 | 13 | 34 | 5 | 50 | M3×6 | 133 | 14 | 6 | 14 | M4×8 |
| MHSG 25 | LWHS 25 | | | | | | | | 154 | | | | |
| MHD 30 | LWHD 30...B | 5 | 17 | 13 | 34 | 5 | 50 | M3×6 | 128 | 11 | 6 | 14 | M4×8 |
| MHD 30...M(U) | LWHD 30...M(U) | | | | | | | | 133 | | | | |
| MHDG 30 | LWHDG 30 | 10 | 46 | 28 | 70 | 10 | 106 | M5×10 | 154 | 20 | 10 | 28 | M6×12 |
| MHS 30 | LWHS 30...B | | | | | | | | 128 | | | | |
| MHS 30...M(U) | LWHS 30...M(U) | 13 | 20 | 15 | 40 | 5 | 60 | M3×6 | 133 | 20 | 7 | 15 | M4×8 |
| MHSG 30 | LWHS 30 | | | | | | | | 143 | | | | |
| MHD 35 | LWHD 35...B | 17 | 26 | 18 | 50 | 6 | 74 | M4×8 | 165 | 25 | 8 | 19 | M5×10 |
| — | LWHD 35...M(U) | | | | | | | | 160 | | | | |
| MHDG 35 | LWHDG 35 | 17 | 32 | 20 | 60 | 7 | 86 | M4×8 | 167 | 27 | 8 | 25 | M5×10 |
| MHD 45 | LWHD 45...B | | | | | | | | 203 | | | | |
| — | LWHD 45...M(U) | 10 | 46 | 28 | 70 | 10 | 106 | M5×10 | 196 | 20 | 10 | 28 | M6×12 |
| MHDG 45 | LWHDG 45 | | | | | | | | 248 | | | | |
| — | LWHD 55...B | 10 | 46 | 28 | 70 | 10 | 106 | M5×10 | 240 | 20 | 10 | 28 | M6×12 |
| — | LWHD 65...B | | | | | | | | 314 | | | | |
| — | LWHDG 65 | 314 | | | | | | | | | | | |

Notes (1) The specification and mounting positions of grease nipple are different from those of the standard specification product. Provided grease nipple for size 15 models is NPB2 type (special specification). For details of dimensions, contact IKO.

(2) Dimensions of the specification that female threads for bellows are fitted to both ends of the slide unit are indicated.

Remark: This is also applicable to stainless steel models of the same size.

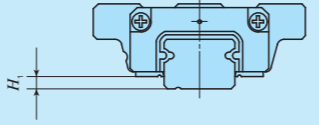
Table 10 Dimension of slide unit with C-Lube plate (Supplemental code /Q)



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

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

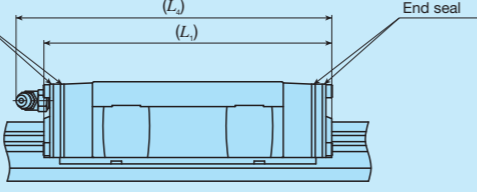
Table 11 H_1 dimension with under seal (Supplemental code /U)



| Size | H_1 |
|------|--------------------|
| 8 | 1.5 |
| 10 | 1.8 |
| 12 | 3.2 ⁽¹⁾ |

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

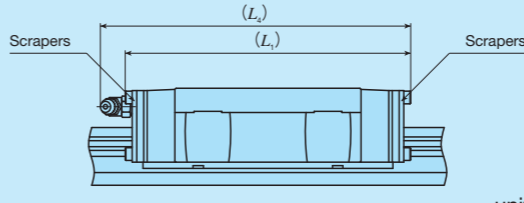
Table 12 Dimension of slide unit with double end seals (Supplemental code Single unit: /V Assembled set: /VV)



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

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

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



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

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

Table 15 Parts for lubrication

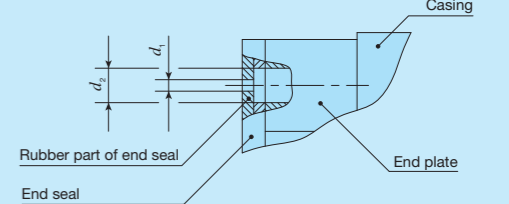
| Size | Grease nipple type ⁽¹⁾ | Applicable supply nozzle type | Bolt size of female threads for piping |
|------|-----------------------------------|------------------------------------|--|
| 8 | Oil hole | Miniature greaser | — |
| 10 | | | — |
| 12 | A-M3 | A-5120V A-5240V | — |
| 15 | A-M4 | B-5120V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

Note ⁽¹⁾ For grease nipple specification, see Table 14.1 and Table 14.2 on page III-23.
Remark: Stainless steel grease nipple is also available. If needed, please contact IKO.

In the series of size 8 to 12 of MH series and LWH series, lithium-soap base grease (MULTEMP PS No.2, KYODO YUSHI) is pre-packed, and in the series of size 15 to 65, lithium-soap base grease with extreme-pressure additive (Alvania EP grease 2, [Shell Lubricants Japan K.K.]) is pre-packed. Additionally, MH series has C-Lube placed in the recirculation part of balls, so that the interval for reapplying lubricant can be extended and maintenance works such as grease job can be reduced significantly.

MH series and LWH series have grease nipple or oil hole as indicated in Table 15. Supply nozzles fit to each shapes of grease nipple and dedicated supplying equipment (miniature greasers) fit to oil holes are also available. For order of these parts for lubrication, see Table 13 and Table 14.1 on Page III-23, and Table 15 on page III-24.

Table 14 Oil hole specifications



| Size | d_1 | d_2 |
|------|-------|-------|
| 8 | 0.5 | 1.5 |
| 10 | | |

Dust Protection

The slide units of MH series and LWH series are equipped with end seals and under seals as standard for dust protection. However, if large amount of contaminant or dust are floating, or if large particles of foreign substances such as chips or sand may adhere to the track rail, it is recommended to cover the whole unit with bellows or telescope type shield, etc. MH series and LWH series are provided with specific bellows. The bellows are easy to mount and provide excellent dust protection. If needed, please refer to III-26 for ordering. And, track rail mounting from bottom with no mounting hole on the upper surface of the track rail (Figure 3) is also available. If needed, contact IKO.

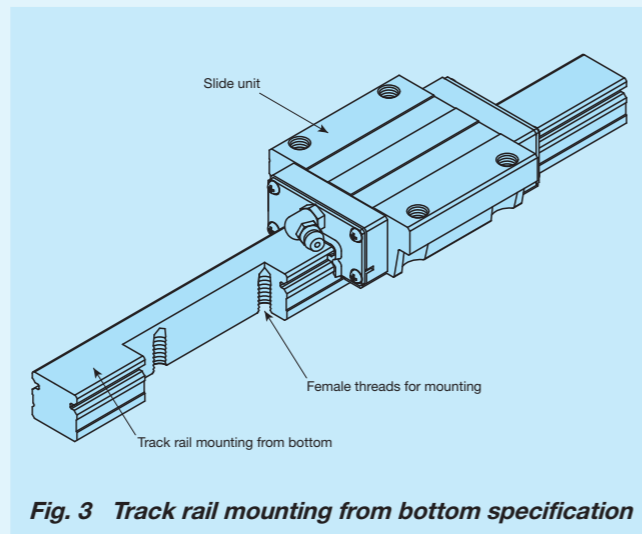


Fig. 3 Track rail mounting from bottom specification

Precaution for Use

1 Mounting surface, reference mounting surface and typical mounting structure

When mounting the MH series and LWH series, properly align the reference mounting surfaces B and D of the track rail and slide unit with the reference mounting surface of the table and bed and fix them. (See Fig. 4.)

The reference mounting surfaces B and D and mounting surfaces A and C are precisely ground. Machining the mounting surface of the table and bed, such as machine or device, to high accuracy and mounting them properly will ensure stable linear motion with high accuracy.

Reference mounting surface of the slide unit is the opposite side of the IKO Mark. The track rail reference mounting surface is identified by locating the IKO Mark on the top surface of the track rail. It is the side surface above the mark (in the direction of the arrow). (See Fig. 5.)

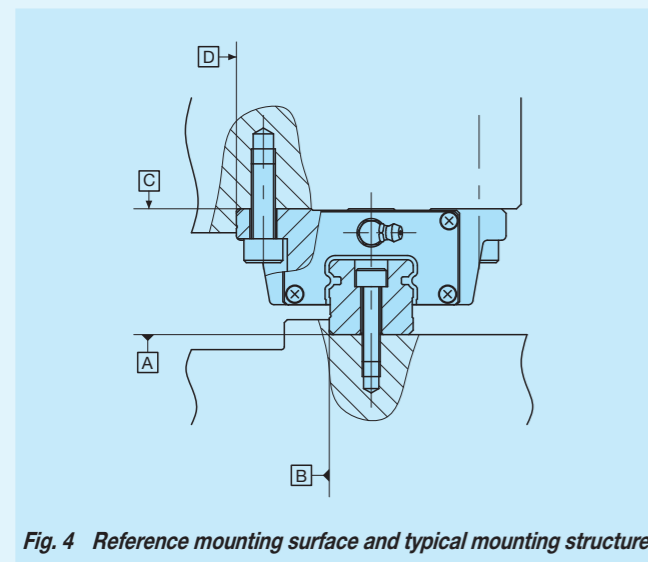


Fig. 4 Reference mounting surface and typical mounting structure

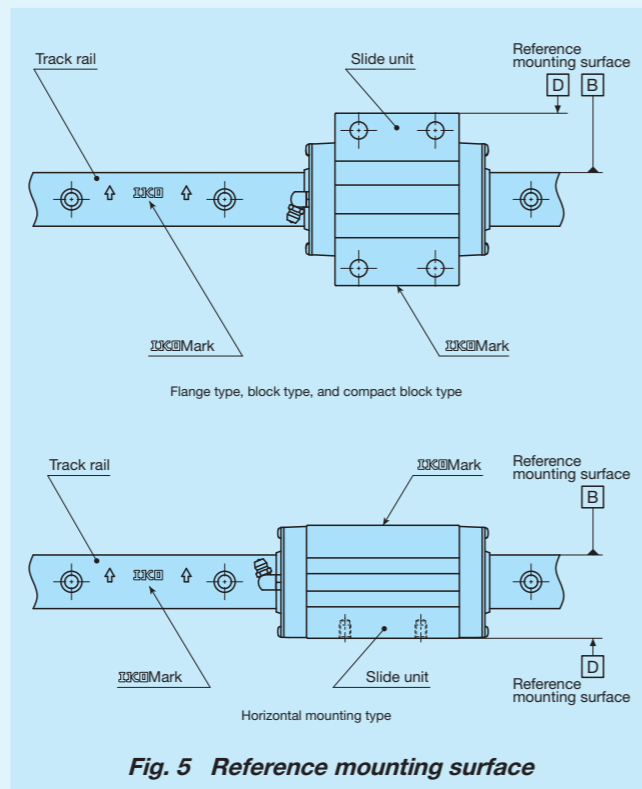


Fig. 5 Reference mounting surface

2 Shoulder height and corner radius of the reference mounting surface

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

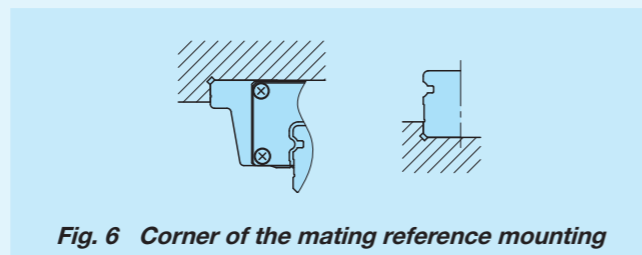


Fig. 6 Corner of the mating reference mounting

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

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

unit: mm

Notes ⁽¹⁾ The values in () are applied to MHD and LWHD.

⁽²⁾ For models with under seals (supplemental code "/U"), it is recommended to use the values 0.6 mm smaller than the values in the table.

3 Tightening torque for fixing screw

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

Table 17 Tightening torque for fixing screw

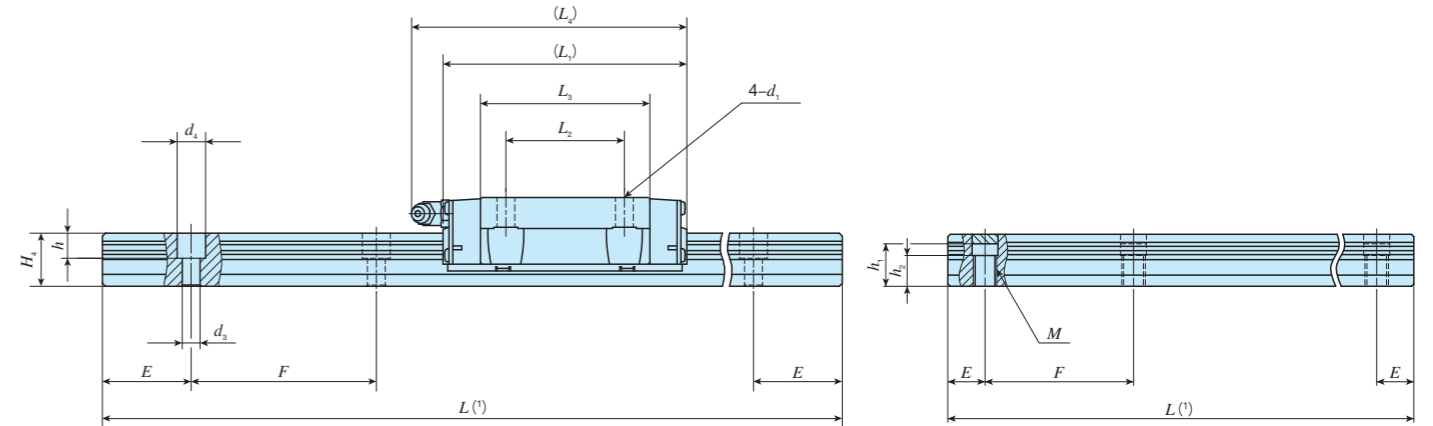
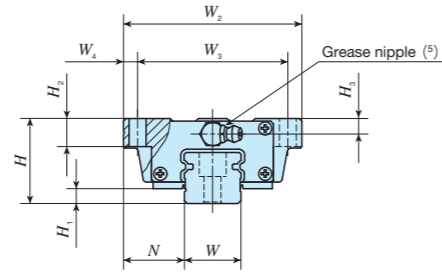
| Bolt size | Tightening torque N · m | | |
|------------|------------------------------|----------------|----------------------------|
| | High carbon steel-made screw | | Stainless steel-made screw |
| | Size: 12 | Size: 15 to 65 | |
| M 1.6×0.35 | — | — | 0.15 |
| M 2 ×0.4 | — | — | 0.31 |
| M 2.3×0.4 | — | — | 0.49 |
| M 2.6×0.45 | — | — | 0.70 |
| M 3 ×0.5 | 1.3 | — | 1.1 |
| M 4 ×0.7 | 2.9 | 4.1 | 2.5 |
| M 5 ×0.8 | — | 8.0 | 5.0 |
| M 6 ×1 | — | 13.6 | 8.5 |
| M 8 ×1.25 | — | 32.7 | 20.4 |
| M10 ×1.5 | — | 63.9 | 40.0 |
| M12 ×1.75 | — | 110 | — |
| M14 ×2 | — | 175 | — |
| M16 ×2 | — | 268 | — |

Remark: The tightening torque is calculated based on strength division 8.8 for high carbon steel bolts in product size 12, strength division 12.9 for carbon steel bolts in product size 15 to 65, and property division A2-70 for stainless steel bolts.

IKO C-Lube Linear Way MH

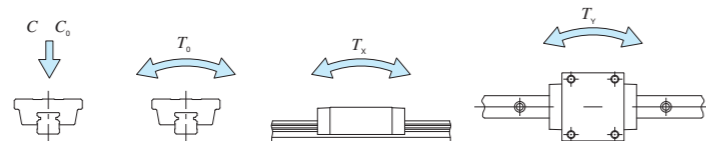
Flange type mounting from bottom

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



| Identification number | Interchangeable | Mass (Ref.) Slide unit kg / Track rail kg/m | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | | | | | Dimensions of track rail mm | | | | | | Appended mounting bolt for track rail (3) mm Bolt size × ℓ | Basic dynamic load rating (4) C N | Basic static load rating (4) C ₀ N | Static moment rating (4) | | | | | | | |
|-----------------------|-----------------|--|---------------------------|----------------|------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----------------------------|----------------|----------------|-----|---|--------------------|---|-----------------------------------|---|--------------------------|--------|--------|----------------------|----------------------|----------------------|------|-------|
| | | | H | H ₁ | N | W ₂ | W ₃ | W ₄ | L ₁ | L ₂ | L ₃ | L ₄ | d ₁ | H ₂ | H ₃ | W | H ₄ | d ₃ | d ₄ | h | M | h ₁ (2) | | | | h ₂ | E | F | T ₀ N · m | T _x N · m | T _y N · m | | |
| MH 15 | ○ | 0.22 / 1.47 | 24 | 4.5 | 16 | 47 | 38 | 4.5 | 66 | 30 | 44.2 | 69 | 4.5 | 7 | 4.5 | 15 | 15 | 4.5 | 8 | 6 | - | - | - | 30 | 60 | M4×16 | 11 600 | 13 400 | 112 | 95.6 | 556 | 95.6 | 556 |
| LWH 15···B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 15···SL | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 15···MU* | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MH 20 | ○ | 0.48 / 2.56 | 30 | 5 | 21.5 | 63 | 53 | 5 | 83 | 40 | 56 | 94 | 6 | 10 | 5.5 | 20 | 18 | 6 | 9.5 | 8.5 | - | - | - | 30 | 60 | M5×18 | 18 100 | 21 100 | 232 | 195 | 1 090 | 195 | 1 090 |
| LWH 20···B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 20···SL | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 20···MU* | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHG 20 | ○ | 0.71 | 30 | 5 | 21.5 | 63 | 53 | 5 | 112 | 40 | 84.8 | 122 | 6 | 10 | 5.5 | 20 | 18 | 6 | 9.5 | 8.5 | - | - | - | 30 | 60 | M5×18 | 24 100 | 31 700 | 349 | 421 | 2 140 | 421 | 2 140 |
| LWHG 20 | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MH 25 | ○ | 0.70 / 3.50 | 36 | 6.5 | 23.5 | 70 | 57 | 6.5 | 95 | 45 | 63.9 | 105 | 7 | 10 | 6.5 | 23 | 22 | 7 | 11 | 9 | - | - | - | 30 | 60 | M6×22 | 25 200 | 28 800 | 362 | 309 | 1 690 | 309 | 1 690 |
| LWH 25···B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 25···SL | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWH 25···MU* | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHG 25 | ○ | 0.93 | 36 | 6.5 | 23.5 | 70 | 57 | 6.5 | 118 | 45 | 86.6 | 128 | 7 | 11 | 9 | 23 | 22 | 7 | 11 | 9 | - | - | - | 30 | 60 | M6×22 | 30 800 | 38 300 | 483 | 533 | 2 740 | 533 | 2 740 |
| LWHG 25 | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.
 (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
 In an assembled set of MH series and LWH···MU model, track rail mounting bolts are not appended.
 (4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-104.
 Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

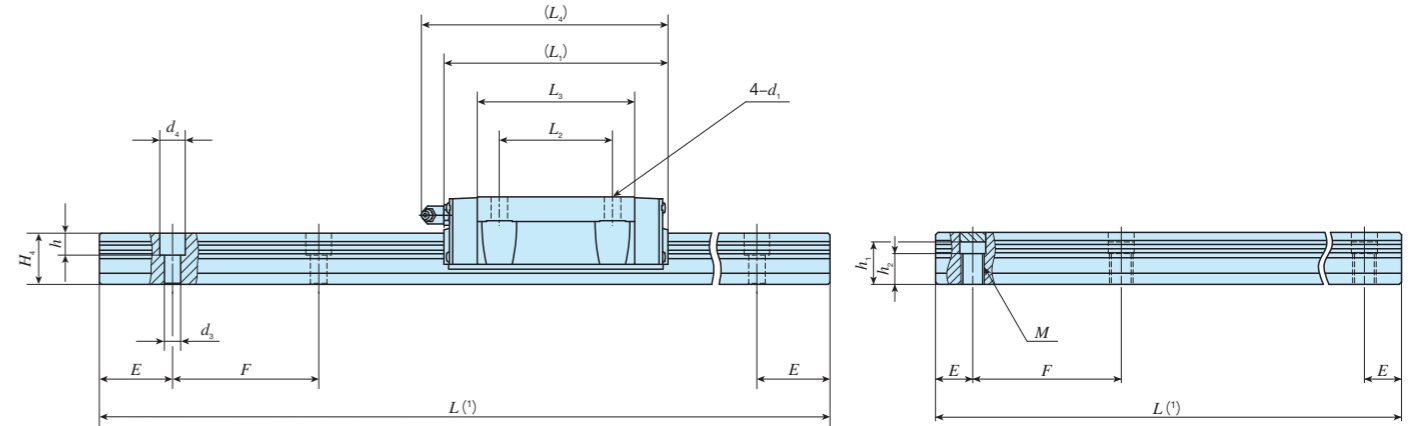
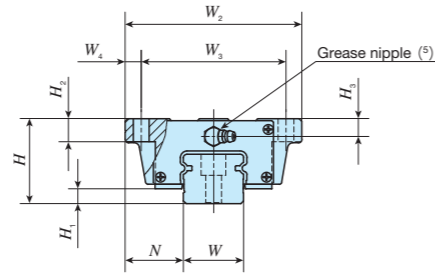
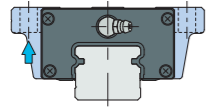
| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MH | G | 20 | C2 | R480 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | |
|-------------------------------------|--|--------------------|--|
| ① Model | ⑤ Length of track rail (480 mm) | ⑧ Preload amount | ⑩ Interchangeable |
| MH Flange type mounting from bottom | | No symbol Standard | No symbol Non-interchangeable specification |
| LWH(···B) | | T1 Light preload | S1 S1 specification |
| ② Length of slide unit | ⑥ Dust protection code | T2 Medium preload | S2 S2 specification |
| No symbol Standard | No symbol Standard specification | T3 Heavy preload | |
| G Long | M Ultra seal specification | | |
| ③ Size | MU Ultra seal specification with track rail mounting from bottom | ⑨ Accuracy class | ⑪ Special specification |
| 15, 20, 25 | | H High | A, BS, D, E, F, I, J, L, LF, MA, MN, N, PS, Q, RE, T, UR, V, W, Y, Z |
| ④ Number of slide unit (2) | ⑦ Material type | P Precision | |
| | No symbol High carbon steel made | SP Super precision | |
| | SL Stainless steel made | | |

IKO C-Lube Linear Way MH

Flange type mounting from bottom

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



Ultra seal specification with track rail mounting from bottom

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

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.

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

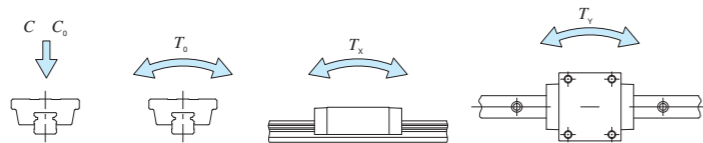
(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

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

(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.

(5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-104.

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



Example of identification number of assembled set

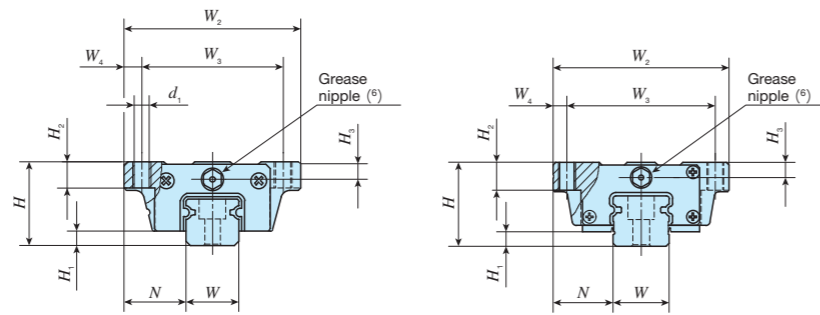
| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MH | G | 35 | C2 | R800 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | |
|---|--|---|--|
| ① Model MH Flange type mounting from bottom LWH(...B) | ⑤ Length of track rail (800 mm) | ⑧ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload | ⑩ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification |
| ② Length of slide unit No symbol Standard G Long | ⑥ Dust protection code No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | ⑨ Accuracy class H High P Precision SP Super precision | ⑪ Special specification A, BS, D, E, F, I, J, L, LF, MA, MN, N, PS, Q, RE, T, UR, V, W, Y, Z |
| ③ Size 30, 35, 45 | ⑦ Material type No symbol High carbon steel made SL Stainless steel made | | |
| ④ Number of slide unit (2) | | | |

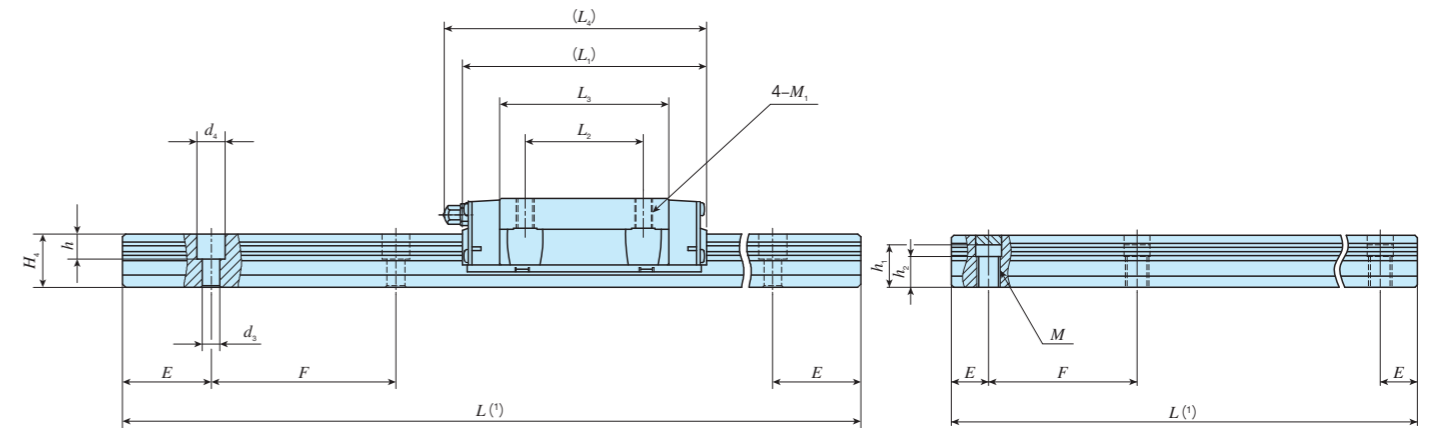
IKO C-Lube Linear Way MH

Flange type mounting from top

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



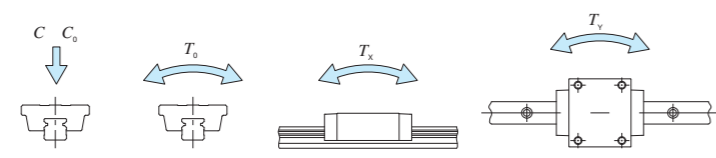
MHT 8 ...SL, LWHT 8 ...SL
 MHT 10 ...SL, LWHT 10 ...SL
 MHT 12 (...SL), LWHT 12 (...SL)
 MHTG 15



Ultra seal specification with track rail mounting from bottom

| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | | | | | Dimensions of track rail mm | | | | | | Appended mounting bolt for track rail (4) mm | Basic dynamic load rating (5) N | Basic static load rating (5) N | Static moment rating (5) | | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|----------------|-----|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|----------------|-----------------------------|----------------|----------------|----------------|-----|-----|---|------------------------------------|-----------------------------------|--------------------------|----------------|---------|---------|---------------|--------|----------------|----------------|----------------|
| | | Slide unit kg | Track rail kg/m | H | H ₁ | N | W ₂ | W ₃ | W ₄ | L ₁ | L ₂ | L ₃ | L ₄ | d ₁ (2) | M ₁ | H ₂ | H ₃ | W | H ₄ | d ₃ | d ₄ | h | M | | | | h ₁ (3) | h ₂ | E | F | Bolt size × ℓ | C | C ₀ | T ₀ | T _x |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 12...SL | LWHT 12...SL | ○ | 0.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 15 | LWHT 15...B | ○ | 0.22 | 1.47 | 24 | 4.5 | 16 | 47 | 38 | 4.5 | 66 | 30 | 44.2 | 69 | - | M5 | 7 | 4.5 | 15 | 15 | 4.5 | 8 | 6 | 6 | - | - | - | 30 | 60 | M4 × 16 | 11 600 | 13 400 | 112 | 95.6 556 | 95.6 556 |
| MHT 15...SL | LWHT 15...SL | ○ | | | | | | | | | | | 44.6 | | | | | | | | | | | | | | | | | | | | | | |
| MHT 15...SL | LWHT 15...SL | ○ | | | | | | | | | | | 44.2 | | | | | | | | | | | | | | | | | | | | | | |
| MHT 15...SL | LWHT 15...M* | - | | | | | | | | | | | 44.6 | | | | | | | | | | | | | | | | | | | | | | |
| MHT 15...SL | LWHT 15...MU* | - | | | | | | | | | | | 44.6 | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 15 | - | ○ | 0.29 | | | | | | | | 82 | | 60.1 | 85 | 4.4 | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.
 (2) Series of size 8 to 12 and MHTG15 can also be mounted in upward direction.
 (3) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (4) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
 In an assembled set of MH series and LWHT...MU model, track rail mounting bolts are not appended.
 (5) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (6) Series of size 8 and 10 are provided with an oil hole. The specifications of oil holes are shown in Table 14 on page II-104.
 The shapes of grease nipples of size 12 and 15 vary by size. The specifications are shown in Table 15 on page II-104.
 Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHT | G | 15 | C2 | R900 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

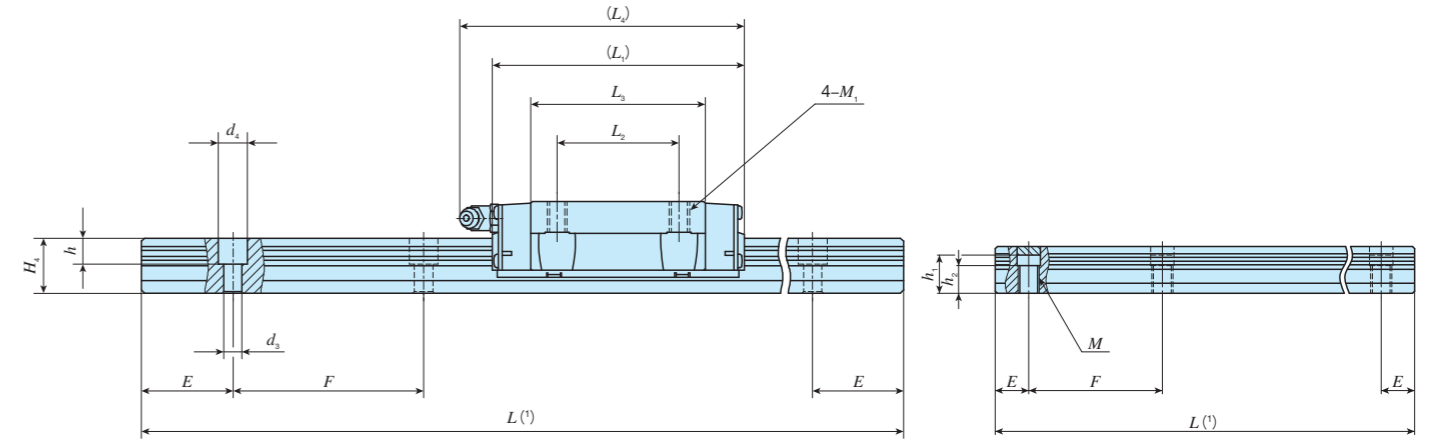
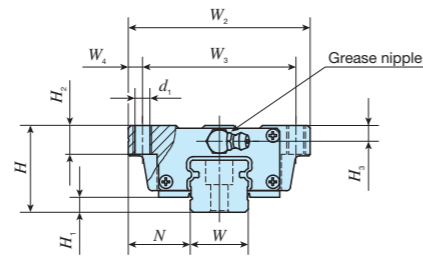
| | | | |
|------------------------------|--|--|---|
| ① Model | ⑤ Length of track rail (900 mm) | ⑧ Preload amount | ⑩ Interchangeable |
| MHT LWHT (...B) | Flange type mounting from top | T ₀ Clearance T ₁ Standard T ₂ Light preload T ₃ Medium preload T ₃ Heavy preload | No symbol Non-interchangeable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

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 | |



Ultra seal specification with track rail mounting from bottom

| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | | | | Dimensions of track rail mm | | | | | | | | Appended mounting bolt for track rail (3) mm | Basic dynamic load rating (4) C N | Basic static load rating (4) C ₀ N | Static moment rating (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|----------------|------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|----|----------------|----------------|----------------|-----|---|--------------------|--|-----------------------------------|---|--------------------------|--------|--------|---------------|----------------------|----------------------|----------------------|----|-----|------|----|----|-----|----|-----|------|------|-----|----|----|-----|----|----|---|----|---|---|---|---|----|----|-------|--------|--------|-----|-----|-------|-----|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Slide unit kg | Track rail kg/m | H | H ₁ | N | W ₂ | W ₃ | W ₄ | L ₁ | L ₂ | L ₃ | L ₄ | d ₁ | M ₁ | H ₂ | H ₃ | W | H ₄ | d ₃ | d ₄ | h | M | h ₁ (2) | | | | h ₂ | E | F | Bolt size × ℓ | T ₀ N · m | T _x N · m | T _y 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 | 1 090 | 1 090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHT 20...B | ○ | | | | | | | | | | | 57.2 | | | | | | | | - | - | - | - | - | - | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 20...SL | ○ | | | | | | | | | | | 56 | | | | | | | | | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | |
| LWHT 20...SL | ○ | | | | | | | | | | | 57.2 | | | | | | | | - | - | - | - | - | - | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | - | | | | |
| LWHT 20...M* | - | | | | | | | | | | | 57.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - |
| LWHT 20...MU* | - | 57.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 20 | ○ | 0.71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 112 | | 84.8 | 122 | | | | | | | | | | | | | | M5×18 | 24 100 | 31 700 | 349 | 421 | 2 140 | 421 | 2 140 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 25...M* | - | | | 63.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHT 25...M* | - | | | 64.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | - | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 25...MU* | - | | | 63.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | | | - | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LWHT 25...MU* | - | 64.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 25 | ○ | 0.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 118 | | 86.6 | 128 | | | | | | | | | | | | | | M6×22 | 30 800 | 38 300 | 483 | 533 | 2 740 | 533 | 2 740 | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHTG 25 | ○ | | 87.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.

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

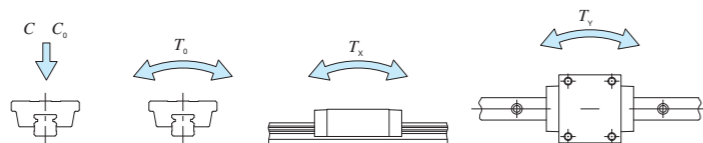
(3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.

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

(4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.

Remarks 1. The specifications of grease nipple are shown in Table 15 on page II-104.

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



Example of identification number of assembled set

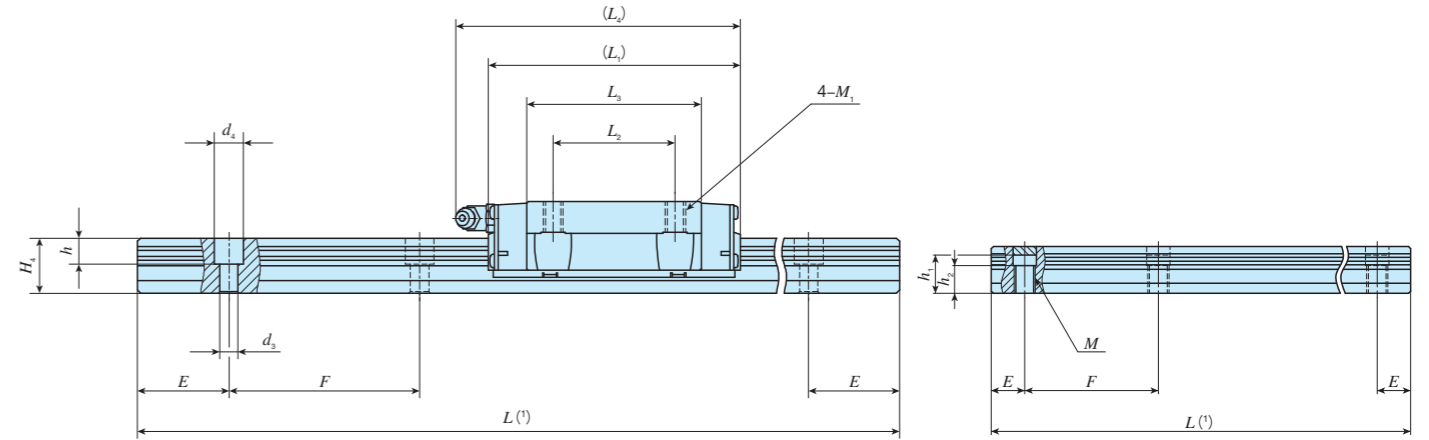
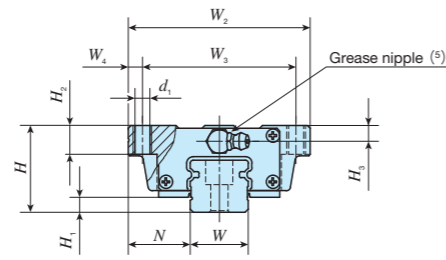
| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHT | G | 25 | C2 | R840 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | |
|--|--|---|--|
| ① Model MHT LWHT (...B) Flange type mounting from top | ⑤ Length of track rail (840 mm) | ⑧ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload | ⑩ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification |
| ② Length of slide unit No symbol Standard G Long | ⑥ Dust protection code No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | ⑨ Accuracy class H High P Precision SP Super precision | ⑪ Special specification A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, UR, V, W, Y, Z |
| ③ Size 20, 25 | ⑦ Material type No symbol High carbon steel made SL Stainless steel made | | |

IKO C-Lube Linear Way MH

Flange type mounting from top

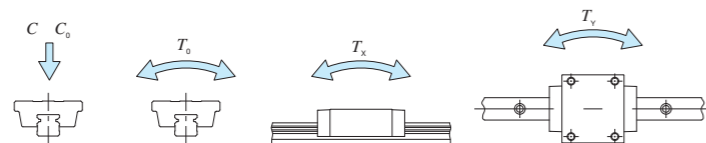
| | | | | | | |
|-------|------------|----|----|----|----|----|
| Shape | MHT · LWHT | | | | | |
| Size | 8 | 10 | 12 | 15 | 20 | 25 |
| | 30 | 35 | 45 | 55 | 65 | |



| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | | | | Dimensions of track rail mm | | | | | | Appended mounting bolt for track rail (3) mm | Basic dynamic load rating (4) C N | Basic static load rating (4) C0 N | Static moment rating (4) N·m | | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|----|----|-----------------------------|----|----|-----|----|------|-----|----|-----|----|-----------------------------|----|----|----|----|----|--|-----------------------------------|-----------------------------------|------------------------------|-------|--------|--------|--------|---------------|--------------|--------------|----|
| | | Slide unit kg | Track rail kg/m | H | H1 | N | W2 | W3 | W4 | L1 | L2 | L3 | L4 | d1 | M1 | H2 | H3 | W | H4 | d3 | d4 | h | | | | M | h1(2) | h2 | E | F | Bolt size × ℓ | 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 | ○ | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 30-M* | - | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHT 30-M* | - | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 30 | ○ | 1.69 | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHTG30 | ○ | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHT 35 | ○ | 1.79 | 6.85 | 48 | 10 | 33 | 100 | 82 | 9 | 123 | 62 | 86.2 | 135 | - | M10 | 13 | 10 | 34 | 28 | 9 | 14 | 12 | - | - | - | 40 | 80 | M 8×28 | 48 700 | 53 700 | 823 | 631 3 480 | 579 3 190 | |
| LWHT 35-B | ○ | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHT 35-M* | - | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHT 35-MU* | - | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 35 | ○ | 2.35 | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHTG35 | ○ | | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.
 (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
 In an assembled set of MH series and LWHT...MU model, track rail mounting bolts are not appended.
 (4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-104.

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



Example of identification number of assembled set

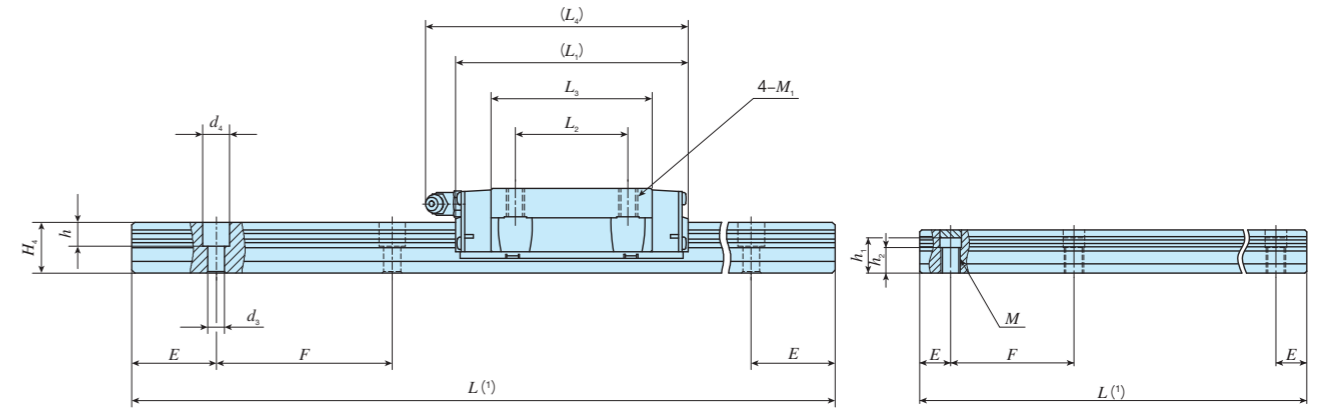
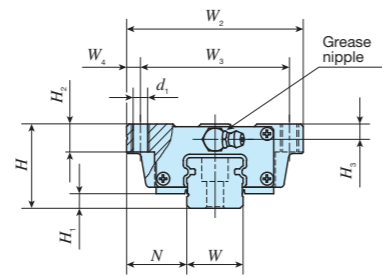
| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHT | G | 35 | C2 | R1040 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | |
|---|--|--|--|
| 1 Model MHT LWHT (...B) Flange type mounting from top | 5 Length of track rail (1,040 mm) No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | 8 Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload | 10 Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification |
| 2 Length of slide unit No symbol Standard G Long | 6 Dust protection code No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | 9 Accuracy class H High P Precision SP Super precision | 11 Special specification A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, UR, V, W, Y, Z |
| 3 Size 30, 35 | 7 Material type No symbol High carbon steel made SL Stainless steel made | | |
| 4 Number of slide unit (2) | | | |

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 | |



| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | | | | Dimensions of track rail mm | | | | | | | | Appended mounting bolt for track rail (3) mm | Basic dynamic load rating (4) C N | Basic static load rating (4) C0 N | Static moment rating (4) N·m | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|------|-----|-----------------------------|----|-----|-----|-------|-----|----|-----|----|----|-----------------------------|----|----|------|--------|-----|-----|-----|--|-----------------------------------|-----------------------------------|------------------------------|---------|---------|-------|---------------|-------|----|----|-----|--------|-----|----|----|----|-----|--------|---------|---------|
| | | Slide unit kg | Track rail kg/m | H | H1 | N | W2 | W3 | W4 | L1 | L2 | L3 | L4 | d1 | M1 | H2 | H3 | H4 | W | H4 | d3 | d4 | h | M | | | | h1(2) | h2 | E | F | Bolt size × ℓ | T0 | Tx | Ty | | | | | | | | | | |
| MHT 45 | ○ | 3.17 | 10.7 | 60 | 13 | 120 | 100 | 10 | 147 | 80 | 103.4 | 158 | - | M12 | 15 | 13 | - | 45 | 34 | 14 | 20 | 17 | - | - | - | 52.5 | 105 | M12×35 | 74 600 | 80 200 | 1 610 | 1 150 | 1 060 | | | | | | | | | | | | |
| LWHT 45...B | ○ | | | | 10 | | | | | | | | | | | | | | | 37.5 | 132 | 194 | - | M14 | 17 | | | 14 | | | | | | - | 53 | 41 | 16 | 23 | 20 | - | - | - | 60 | 120 | M14×45 |
| LWHT 45...M* | - | | | | 10 | | | | | | | | | | | | | | | 37.5 | 183 | 194 | | | | | | | | | | | | | | | | | | | | | | | - |
| LWHT 45...MU* | - | 10 | 37.5 | 183 | 194 | - | M14 | 17 | 14 | - | 53 | 41 | 16 | 23 | 20 | - | - | - | 60 | 120 | M14×45 | | | | | | | | | | | | | | | | | | | | | | | | |
| MHTG 45 | ○ | 4.34 | 15.5 | 70 | 13 | | | | | | | | | | | | | | | | 140 | 116 | 12 | 190 | 95 | 146.6 | 201 | - | M14 | 17 | 14 | - | 53 | 41 | 16 | 23 | 20 | - | - | - | 60 | 120 | M14×45 | 113 000 | 121 000 |
| LWHTG45 | ○ | 10 | | | 37.5 | 183 | 194 | - | M14 | 17 | 14 | - | 53 | 41 | 16 | 23 | 20 | - | - | - | | | | | | | | | | | | | | | 60 | 120 | M14×45 | | | | | | | | |
| LWHT 55...B | ○ | 10 | | | 37.5 | 183 | 194 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | M14 | 17 | 14 | | | - | | |
| LWHT 55...B | ○ | 5.30 | 15.5 | 70 | 13 | 140 | 116 | 12 | 190 | 95 | 146.6 | 201 | - | M14 | 17 | 14 | - | 53 | 41 | 16 | 23 | 20 | - | - | - | 60 | 120 | M14×45 | 113 000 | 121 000 | 2 870 | 2 210 | 2 030 | | | | | | | | | | | | |
| LWHTG55 | ○ | 7.40 | 22.2 | 90 | 13 | 170 | 142 | 14 | 235 | 110 | 183.6 | 246 | - | M16 | 23 | 20 | - | 63 | 48 | 18 | 26 | 22 | - | - | - | 75 | 150 | M16×50 | 176 000 | 184 000 | 5 180 | 4 130 | 3 790 | | | | | | | | | | | | |
| LWHT 65...B | ○ | 10 | | | 37.5 | | | | | | | | | | | | | | | 183 | 194 | - | M16 | 23 | 20 | | | - | | | | | | 63 | 48 | 18 | 26 | 22 | - | - | - | 75 | 150 | M16×50 | |
| LWHT 65...B | ○ | 10 | | | 37.5 | | | | | | | | | | | | | | | 183 | 194 | | | | | | | | | | | | | | | | | | | | | | | - | M16 |
| LWHTG65 | ○ | 17.6 | 22.2 | 90 | 14 | 170 | 142 | 14 | 235 | 110 | 183.6 | 246 | - | M16 | 23 | 20 | - | 63 | 48 | 18 | 26 | 22 | - | - | - | 75 | 150 | M16×50 | 176 000 | 184 000 | 5 180 | 4 130 | 3 790 | | | | | | | | | | | | |
| LWHTG65 | ○ | 17.6 | 22.2 | 90 | 14 | 170 | 142 | 14 | 303 | 110 | 238.8 | 313 | - | M16 | 23 | 20 | - | 63 | 48 | 18 | 26 | 22 | - | - | - | 75 | 150 | M16×50 | 229 000 | 269 000 | 7 560 | 8 530 | 7 810 | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93 and Tables 2.3 and 2.4 on page II-95.
 (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MH series and LWHT...MU model, track rail mounting bolts are not appended.
 (4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 Remarks 1. The specifications of grease nipple are shown in Table 15 on page II-104.
 2. The identification numbers with * are our semi-standard items.

Example of identification number of assembled set

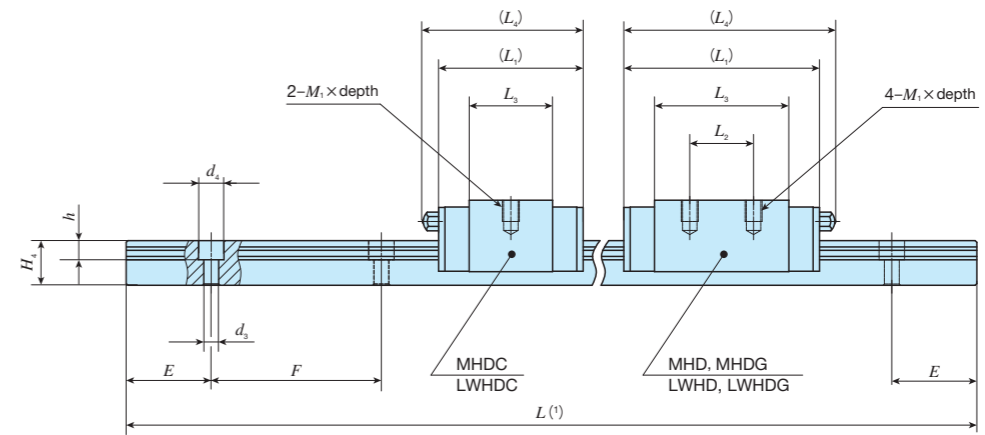
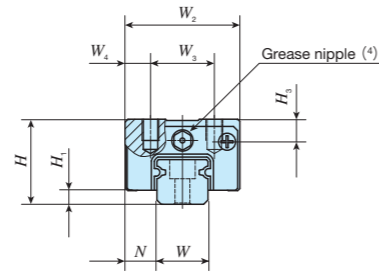
| | | | | | | | | |
|------------|------------|-----------|------------|----------------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHT | G | 45 | C2 | R1260 | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

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

IKO C-Lube Linear Way MH

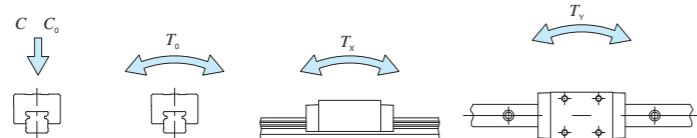
Block type mounting from top

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



| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | Dimensions of track rail mm | | | | | | | Appended mounting bolt for track rail (2) mm | Basic dynamic load rating (3) N | Basic static load rating (3) N | Static moment rating (3) | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|----------------|-----|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|----------------|-----|----------------|----------------|----------------|-----|--|---------------------------------|--------------------------------|--------------------------|-------|---------------|----------------------|----------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Slide unit kg | Track rail kg/m | H | H ₁ | N | W ₂ | W ₃ | W ₄ | L ₁ | L ₂ | L ₃ | L ₄ | M ₁ × depth | H ₃ | W | H ₄ | d ₃ | d ₄ | h | | | | E | F | Bolt size × ℓ | T ₀ N · m | T _x N · m | T _y N · m | | | | | | | | | | | | | | | | | |
| MHDC 8...SL | LWHDC 8...SL | ○ | 0.008 | 0.32 | 11 | 2.1 | 4 | 16 | 10 | 3 | 18 | — | 9.0 | — | M2 × 2.5 | 3 | 8 | 6 | 2.4 | 4.2 | 2.3 | 10 | 20 | M2 × 8 | 1 050 | 1 270 | 5.3 | 2.2 15.5 | 1.8 13.0 | | | | | | | | | | | | | | | | | |
| MHD 8...SL | LWHD 8...SL | ○ | 0.013 | | | | | | | | 24 | 10 | 15.3 | | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| MHDG 8...SL | LWHDG 8...SL | ○ | 0.018 | | | | | | | | 30.5 | 10 | 21.7 | | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 | | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| MHDG 10...SL | LWHDG 10...SL | ○ | 0.035 | | | | | | | | 40 | 12 | 29.4 | | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| MHDG 12...SL | LWHDG 12...SL | ○ | 0.115 | | | | | | | | 58 | 15 | 43.6 | 62 | | | | | | | | | | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| MHDG 12...SL | LWHDG 12...SL | ○ | 0.118 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | | | | | | | | | | | | | | | |

- Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93 and Table 2.2 on page II-94.
 (2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
 In an assembled set of MH series, track rail mounting bolts are not appended.
 (3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (4) Series of size 8 and 10 are provided with an oil hole. The specifications of oil holes are shown in Table 14 on page II-104.
 The specification of grease nipple for size 12 is shown in Table 15 on page II-104.



Example of identification number of assembled set

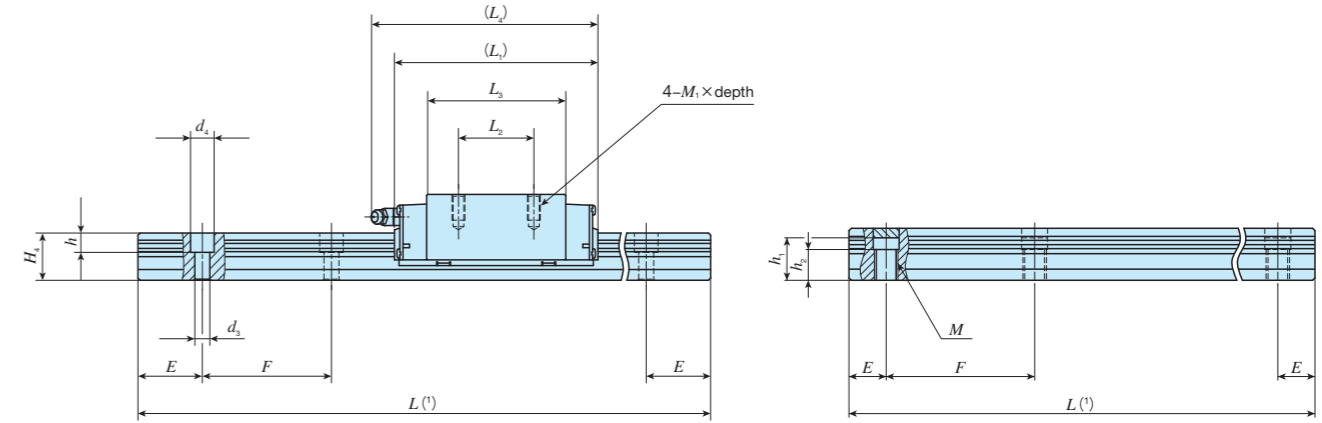
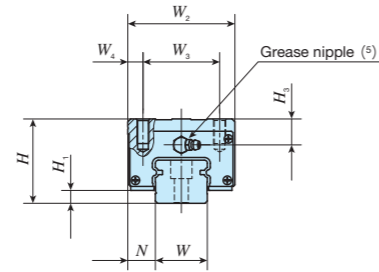
| Model code | Dimensions | Part code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
|------------|------------|-----------|---------------|----------------|-----------------------|----------------------|-------------------|
| MHD | G | 12 | C2 | R320 | SL | T1 | P |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | |
|---|--|--|--|
| ① Model MHD LWHD Block type mounting from top | ④ Number of slide unit (2) | ⑦ Preload amount T ₀ Clearance No symbol Standard T ₁ Light preload | ⑩ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification |
| ② Length of slide unit C Short No symbol Standard G Long | ⑤ Length of track rail (320 mm) | ⑧ Accuracy class H High P Precision | ⑪ Special specification A, D, E, F, I, LR, MA MN, N, Q, U, W, Y |
| ③ Size 8, 10, 12 | ⑥ Material type No symbol High carbon steel made SL Stainless steel made | | |

IKO C-Lube Linear Way MH

Block type mounting from top

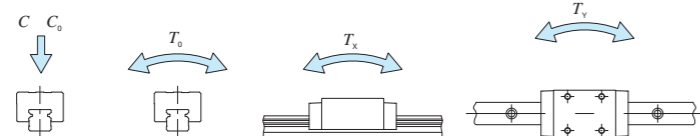
| | | | | | |
|-------|------------|----|----|----|----|
| Shape | MHD · LWHD | | | | |
| | | | | | |
| Size | 8 | 10 | 12 | 15 | 25 |
| | 30 | 35 | 45 | 55 | 65 |



Ultra seal specification with track rail mounting from bottom

| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | Dimensions of track rail mm | | | | | | | Appended mounting bolt for track rail (3) mm | Basic dynamic load rating (4) C N | Basic static load rating (4) C0 N | Static moment rating (4) | | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|-----|------|-----------------------------|----|-----|-----|----|-------|-----|-----------------------------|------|----|----|-----|----|----|--|-----------------------------------|-----------------------------------|--------------------------|-------|---------|--------|--------|---------------|--------------|--------------|
| | | Slide unit kg | Track rail kg/m | H | H1 | N | W2 | W3 | W4 | L1 | L2 | L3 | L4 | M1 x depth | H3 | W | H4 | d3 | d4 | h | | | | M | h1(2) | h2 | E | F | Bolt size x l | T0 N·m | Tx N·m |
| MHD 15 | ○ | 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-B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 15-M* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHD 25 | ○ | 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 | 309 690 | 309 690 |
| LWHD 25-B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 25-M* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 25-MU* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 25-MU* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHDG 25 | ○ | 0.80 | | | | | | | | 118 | 50 | 86.6 | 128 | | | | | | | | | | | | | | | | | | |
| LWHDG25 | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHD 30 | ○ | 1.12 | 4.82 | 45 | 7 | 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-B | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 30-M* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 30-MU* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHD 30-MU* | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHDG 30 | ○ | 1.44 | | | 9 | | | | | 139 | 60 | 106.6 | 149 | | | | | | | | | | | | | | | | | | |
| LWHDG30 | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93 and Tables 2.3 and 2.4 on page II-95.
 (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. In an assembled set of MH series and LWHD...MU model, track rail mounting bolts are not appended.
 (4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (5) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-104.
 Remark: The identification numbers with * are our semi-standard items.



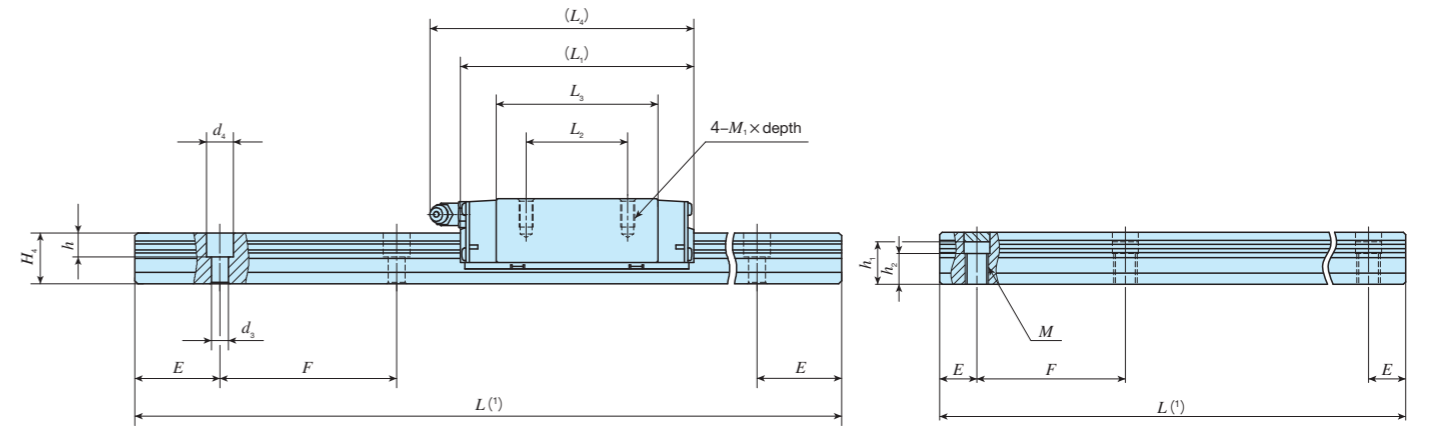
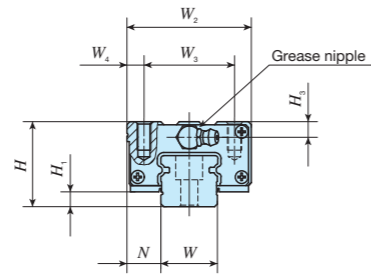
Example of identification number of assembled set

| | | | | | | | | |
|--|------------------------------|------------------------|------------------------|--|---|---|---|--|
| Model code | Dimensions | Part code | Model code | Dust protection code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHD | G | 25 | C2 | R840 | | T1 | P | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 Model | 2 Length of slide unit | 3 Length of track rail | 4 Number of slide unit | 5 Dust protection code | 6 Preload amount | 7 Interchangeable | 8 Accuracy class | 9 Special specification |
| MHD LWHD(...B) Block type mounting from top | No symbol Standard G Long | 840 mm | (2) | No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload | No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification | H High P Precision SP Super precision | A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, UR, V, W, Y, Z |

IKO C-Lube Linear Way MH

Compact block type mounting from top

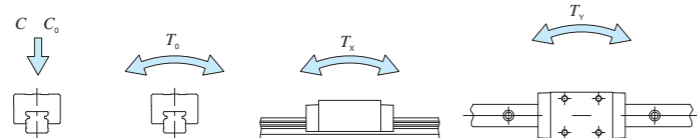
| | | | | |
|-------|------------|----|----|----|
| Shape | MHS · LWHS | | | |
| Size | 15 | 20 | 25 | 30 |



Ultra seal specification with track rail mounting from bottom

| Identification number | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | Dimensions of track rail mm | | | | | | | | Appended mounting bolt for track rail (3) mm | Basic dynamic load rating (4) C N | Basic static load rating (4) C ₀ N | Static moment rating (4) | | | | | | |
|-----------------------|-----------------|---------------|-----------------|---------------------------|----------------|------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|----------------|----|----------------|----------------|----------------|----|---|--|-----------------------------------|---|--------------------------|----------------|--------|--------|----------------------|----------------------|----------------------|
| | | Slide unit kg | Track rail kg/m | H | H ₁ | N | W ₂ | W ₃ | W ₄ | L ₁ | L ₂ | L ₃ | L ₄ | M ₁ × depth | H ₃ | W | H ₄ | d ₃ | d ₄ | h | M | | | | h ₁ (2) | h ₂ | E | F | T ₀ N · m | T _x N · m | T _y 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 | 1 690 |
| LWHS 25...B | ○ | | | | | | | | | | | 64.7 | | | | | | | | | | | | | | | | | | | |
| MHS 25...SL | ○ | | | | | | | | | | | 63.9 | | | | | | | | | | | | | | | | | | | |
| LWHS 25...SL | ○ | | | | | | | | | | | 64.7 | | | | | | | | | | | | | | | | | | | |
| MHS 25...M* | - | | | | | | | | | | | 63.9 | | | | | | | | | | | | | | | | | | | |
| LWHS 25...M* | - | | | | | | | | | | | 64.7 | | | | | | | | | | | | | | | | | | | |
| MHS 25...MU* | - | 63.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHS 25...MU* | - | 64.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHSG 25 | ○ | 0.67 | | | | | | | | 118 | 50 | 86.6 | 128 | | | | | | | | | | | | M6 × 22 | 30 800 | 38 300 | 483 | 533 | 2 740 | |
| LWHS 25 | ○ | | | | | | | | | | | 87.4 | | | | | | | | | | | | | | | | | | | |
| 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 | 536 | 2 820 |
| LWHS 30...B | ○ | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHS 30...SL | ○ | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHS 30...SL | ○ | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHS 30...M* | - | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHS 30...M* | - | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHS 30...MU* | - | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWHS 30...MU* | - | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHSG 30 | ○ | 1.29 | | | 9 | | | | | 139 | 60 | 106.6 | 149 | | | | | | | | | | | | | | | | | | |
| LWHS 30 | ○ | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93, Table 2.2 on page II-94, and Tables 2.3 and 2.4 on page II-95.
 (2) Choose bolts whose dimension allow fixing thread depth into track rail to be less than h_1 .
 (3) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176. For stainless steel model, stainless steel bolts are appended.
 In an assembled set of MH series and LWHS...MU model, track rail mounting bolts are not appended.
 (4) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 Remarks 1. The specifications of grease nipple are shown in Table 15 on page II-104.
 2. The identification numbers with * are our semi-standard items.

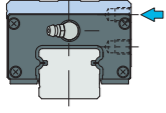


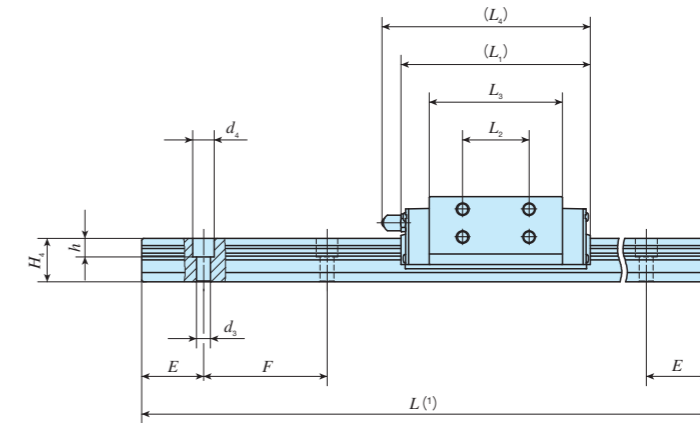
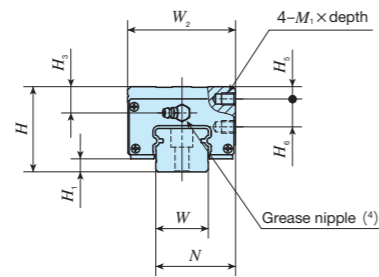
Example of identification number of assembled set

| | | | | | | | | | |
|------------|------------|-----------|------------|----------------------|---------------|----------------|-----------------------|----------------------|-------------------|
| Model code | Dimensions | Part code | Model code | Dust protection code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
| MHS | G | 30 | C2 | R480 | | T1 | P | | N |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | | |
|--|--------------------------------------|--|---|--|
| ① Model MHS LWHS(...B) | Compact block type mounting from top | ⑤ Length of track rail (480 mm) | ⑧ Preload amount No symbol Standard T1 Light preload T2 Medium preload T3 Heavy preload | ⑩ Interchangeable No symbol Non-interchangeable specification S1 S1 specification S2 S2 specification |
| ② Length of slide unit No symbol Standard G Long | | ⑥ Dust protection code No symbol Standard specification M Ultra seal specification MU Ultra seal specification with track rail mounting from bottom | ⑨ Accuracy class H High P Precision SP Super precision | ⑪ Special specification A, BS, D, E, F, I, J, L, LF, MA MN, N, PS, Q, RE, T, UR, V, W, Y, Z |
| ③ Size 25, 30 | | ⑦ Material type No symbol High carbon steel made SL Stainless steel made | | |
| ④ Number of slide unit (2) | | | | |

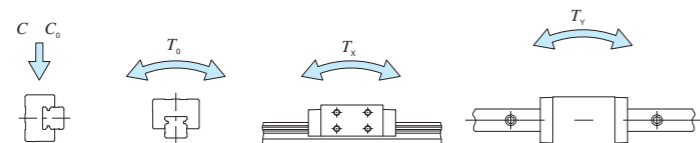
IKO C-Lube Linear Way MH

| Side mounting type | | | |
|--------------------|---|----|----|
| Shape | LWHY | | |
| |  | | |
| Size | 15 | 20 | 25 |
| | 30 | 35 | 45 |



| Identification number | | Interchangeable | Mass (Ref.) | | Dimensions of assembly mm | | | Dimensions of slide unit mm | | | | | | | Dimensions of track rail mm | | | | | | Appended mounting bolt for track rail (2) Bolt size x l | Basic dynamic load rating (3) C N | Basic static load rating (3) C0 N | Static moment rating (3) | | | | | |
|-----------------------|------------------------|-----------------|---------------|-----------------|---------------------------|-----|------|-----------------------------|-----|----|-------|-----|------------|------|-----------------------------|----|----|----|-----|-----|--|---|---|--------------------------|--------|--------|-------|----------------|----------------|
| MH series | LWH series (No C-Lube) | | Slide unit kg | Track rail kg/m | H | H1 | N | W2 | L1 | L2 | L3 | L4 | M1 x depth | H3 | H5 | H6 | W | H4 | d3 | d4 | | | | h | E | F | T0 | Tx | Ty |
| - | LWHY 15* | - | 0.23 | 1.47 | 28 | 4.5 | 24.3 | 34 | 66 | 18 | 44.6 | 69 | M 4 x 4 | 8.5 | 4 | 9 | 15 | 15 | 4.5 | 8 | 6 | 30 | 60 | M 4 x 16 | 11 600 | 13 400 | 112 | 95.6 556 | 95.6 556 |
| - | LWHY 20* | - | 0.36 | 2.56 | 30 | 5 | 31.5 | 43.7 | 83 | 25 | 57.2 | 94 | M 5 x 5 | 5.5 | 4 | 10 | 20 | 18 | 6 | 9.5 | 8.5 | 30 | 60 | M 5 x 18 | 18 100 | 21 100 | 232 | 195 1 090 | 195 1 090 |
| - | LWHY 25* | - | 0.65 | 3.50 | 40 | 6.5 | 35 | 47.7 | 95 | 30 | 64.7 | 105 | M 6 x 6 | 10.5 | 6 | 12 | 23 | 22 | 7 | 11 | 9 | 30 | 60 | M 6 x 22 | 25 200 | 28 800 | 362 | 309 1 690 | 309 1 690 |
| - | LWHY 30* | - | 1.12 | 4.82 | 45 | 7 | 43.5 | 59.7 | 113 | 40 | 80.6 | 123 | M 6 x 7 | 11 | 8 | 14 | 28 | 25 | 9 | 14 | 12 | 40 | 80 | M 8 x 28 | 35 400 | 40 700 | 623 | 536 2 820 | 536 2 820 |
| - | LWHY 35* | - | 1.74 | 6.85 | 55 | 8 | 51.5 | 69.7 | 123 | 43 | 86.2 | 135 | M 8 x 9 | 17 | 8 | 18 | 34 | 28 | 9 | 14 | 12 | 40 | 80 | M 8 x 28 | 38 000 | 41 900 | 823 | 631 3 480 | 579 3 190 |
| - | LWHY 45* | - | 3.30 | 10.7 | 70 | 10 | 65 | 85.7 | 147 | 55 | 103.4 | 158 | M10 x 11 | 23 | 10 | 22 | 45 | 34 | 14 | 20 | 17 | 52.5 | 105 | M12 x 35 | 58 300 | 62 600 | 1 610 | 1 150 6 190 | 1 060 5 690 |

Notes (1) Track rail lengths L are shown in Table 2.1 on page II-93.
 (2) The appended track rail mounting bolts are hexagon socket head bolts equivalent to JIS B 1176.
 (3) The direction of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0 , T_x , T_y) are shown in the sketches below. The upper values of T_x and T_y are for one slide unit and the lower values are for two slide units in close contact.
 (4) The shapes of grease nipple vary by size. The specifications are shown in Table 15 on page II-104.
 Remark: The identification numbers with * are our semi-standard items.



Example of identification number of assembled set

Model code: **LWHY** (1)
 Dimensions: **30** (2)
 Part code: **C2** (3)
 Preload symbol: **R480** (4)
 Preload amount: **T1** (5)
 Classification symbol: **P** (6)
 Supplemental code: **/N** (7)

① Model
LWHY Side mounting type

② Size
15, 20, 25, 30, 35, 45

③ Number of slide unit (2)

④ Length of track rail (480 mm)

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, E, F, I, L, LF, MA, N,
 PS, RE, Y, Z