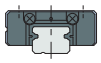
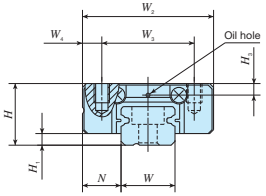
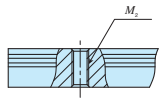
**Standard type**

Shape: ML • LWL

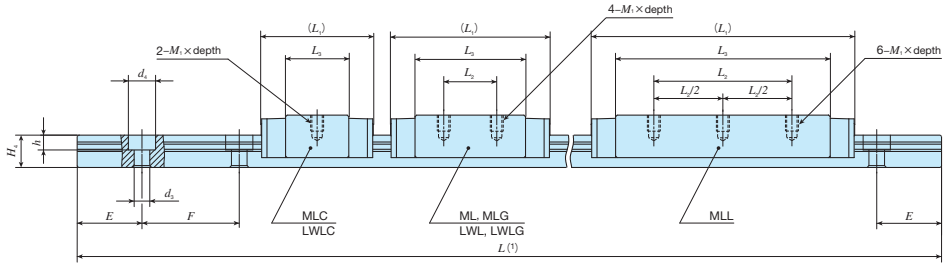


| Size | 1 | 2 | 3 | 5 | 7 |
|---|---|---|---|---|---|
| | 9 | 12 | 15 | 20 | 25 |



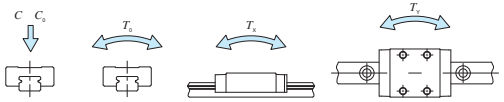



Tapped rail specification
LWL···N




| Identification number | | Interchangeable | Mass (Ref.) g | | 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 (4) | Basic static load rating (4) | Static moment rating (4) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ML series | LWL series (No C-Lube) | | Slide unit | Track rail (per 100 mm) | $H$ | $H_1$ | $N$ | $W_2$ | $W_3$ | $W_4$ | $L_1$ | $L_2$ | $L_3$ | $M_1$×depth | $H_3$ | $W$ | $H_4$ | $M_2$ | $d_3$ | $d_4$ | $h$ | $E$ | $F$ | Bolt size× $\ell$ | $C$ N | $C_0$ N | $T_0$ N·m | $T_x$ N·m | $T_y$ N·m |
| MLC 9 | LWLC 9···B | ○ | 11 | 35 | 10 | 2 | 5.5 | 20 | 15 | 2.5 | 21.5 | – | 11.9 | M3×3 | 2.2 | 9 | 6 | – | 3.5 | 6 | 3.5 | 10 | 20 | M3×8 | 1 180 | 1 480 | 6.9 | 2.9<br>21.4 | 2.4<br>18.0 |
| MLC 9···N* | LWLC 9···N* | – | | 37 | | | | | | | | | | | | | | M4 Through | – | – | – | | | M4× $\ell$ (3) (Not appended) | | | | | |
| ML 9 | | ○ | 18 | 35 | | | | | | | 30 | 10 | 20.8 | | | | | – | 3.5 | 6 | 3.5 | | | M3×8 | 1 810 | 2 760 | 12.8 | 9.1<br>51.1 | 7.6<br>42.9 |
| | LWL 9···B | ○ | 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| – | LWL 9···BCS | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ML 9···N* | | – | 18 | 37 | | | | | | | | | | | | | | M4 Through | – | – | – | | | M4× $\ell$ (3) (Not appended) | | | | | |
| | LWL 9···N* | – | 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLG 9 | | ○ | 26 | 35 | | | | | | | 40.5 | 15 | 30.9 | | | | | – | 3.5 | 6 | 3.5 | | | M3×8 | 2 370 | 4 030 | 18.7 | 18.7<br>98.3 | 15.7<br>82.5 |
| | LWLG 9···B | ○ | 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLG 9···N* | | – | 26 | 37 | | | | | | | | | | | | | | M4 Through | – | – | – | | | M4× $\ell$ (3) (Not appended) | | | | | |
| | LWLG 9···N* | – | 28 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLL 9 | – | ○ | 34 | 35 | | | | | | | 50 | 26 | 40.4 | | | | | – | 3.5 | 6 | 3.5 | | | M3×8 | 2 870 | 5 300 | 24.6 | 31.9<br>157 | 26.7<br>132 |
| MLL 9···N* | – | – | | 37 | | | | | | | | | | | | | | M4 Through | – | – | – | | | M4× $\ell$ (3) (Not appended) | | | | | |
| MLC 12 | LWLC 12···B | ○ | 22 | | | | | | | | 25 | – | 13 | | | | | | | | | | | | 2 210 | 2 380 | 14.8 | 5.3<br>41.7 | 4.5<br>35.0 |
| ML 12 | | ○ | 34 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LWL 12···B | ○ | 35 | 65 | 13 | 3 | 7.5 | 27 | 20 | 3.5 | 34 | 15 | 21.6 | M3×3.5 | 2.7 | 12 | 8 | – | 3.5 | 6.5 | 4.5 | 12.5 | 25 | M3×8 | 3 330 | 4 290 | 26.6 | 15.4<br>93.1 | 12.9<br>78.2 |
| – | LWL 12···BCS | ○ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLG 12 | | ○ | 48 | | | | | | | | 44 | 20 | 32 | | | | | | | | | | | | 4 310 | 6 200 | 38.4 | 30.6<br>168 | 25.7<br>141 |
| | LWLG 12···B | ○ | 51 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MLL 12 | – | ○ | 70 | | | | | | | | 59.5 | 30 | 47.3 | | | | | | | | | | | | 5 820 | 9 540 | 59.1 | 69.8<br>339 | 58.6<br>285 |

Notes (1) Track rail lengths $L$ are shown in Table 3.1 on page Ⅱ−10 and Table 3.3 on page Ⅱ−12.
(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.
(3) Choose screws whose dimension allow fixing thread depth into track rail $\ell$ to be less than $H_4$.
(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.
If hybrid C-Lube Linear Way specification (supplemental code "/HB") is selected in ML series, see Table 10 on page Ⅱ−17.
Remarks 1. The specification of oil hole is shown in Table 13 on page Ⅱ−18.
2. The identification numbers with * are our semi-standard items.




**Example of identification number of assembled set**

| Model code | | Dimensions | Part code | | Model code | Material code | Preload symbol | Classification symbol | Interchangeable code | Supplemental code |
|---|---|---|---|---|---|---|---|---|---|---|
| ML | G | 9 | C2 | R160 | | | T1 | P | | /D |
| ① | ② | ③ | ④ | ⑤ | ① | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ |

① Model

| | |
|---|---|
| ML | Standard type |
| LWL···B | |
| LWL···N | |

② Length of slide unit

| | |
|---|---|
| C | Short |
| No symbol | Standard |
| G | Long |
| L | Extra high rigidity long |

③ Size: 9, 12

④ Number of slide unit (2)

⑤ Length of track rail (160 mm)

⑥ Material type

| | |
|---|---|
| No symbol | Stainless steel made |
| CS | High carbon steel made |

⑦ Preload amount

| | |
|---|---|
| T0 | Clearance |
| No symbol | Standard |
| T1 | Light preload |

⑧ Accuracy class

| | |
|---|---|
| H | High |
| P | Precision |

⑨ Interchangeable

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

⑩ Special specification: A, BS, D, E, HB, Ⅰ, LR, MN N, Q, RE, S, U, W, Y

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch