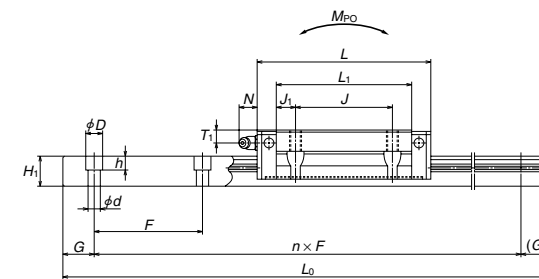
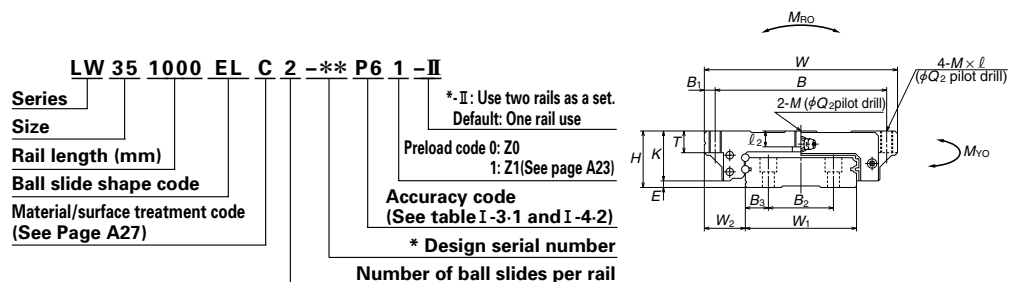


Dimensions of LW Series (Preloaded assembly)

LW-EL (Wide rail type)



\* Please note that we assign the design number, and omit the last code (II) that indicates a use of two rails as a set to finalize the reference number as product identification.

Table. I-5-23

| Model No. | Assembly           |                   |                                | Ball slide        |                    |               |          |                             |                      |                      |                      |                      |                      |          |          |           |                      |          |
|-----------|--------------------|-------------------|--------------------------------|-------------------|--------------------|---------------|----------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|-----------|----------------------|----------|
|           | Height<br><i>H</i> | Width<br><i>E</i> | Length<br><i>W<sub>2</sub></i> | Width<br><i>W</i> | Length<br><i>L</i> | Mounting hole |          |                             |                      |                      |                      | Grease fitting       |                      |          |          |           |                      |          |
|           |                    |                   |                                |                   |                    | <i>B</i>      | <i>J</i> | <i>M</i> × pitch × <i>ℓ</i> | <i>ℓ<sub>2</sub></i> | <i>Q<sub>2</sub></i> | <i>B<sub>1</sub></i> | <i>L<sub>1</sub></i> | <i>J<sub>1</sub></i> | <i>K</i> | <i>T</i> | Hole size | <i>T<sub>1</sub></i> | <i>N</i> |
| LW17EL    | 17                 | 2.5               | 13.5                           | 60                | 51.4               | 53            | 26       | M4×0.7×6                    | 3.2                  | 3.3                  | 3.5                  | 35                   | 4.5                  | 14.5     | 6        | φ 3       | 4                    | 3        |
| LW21EL    | 21                 | 3                 | 15.5                           | 68                | 58.8               | 60            | 29       | M5×0.8×8                    | 3.7                  | 4.4                  | 4                    | 41                   | 6                    | 18       | 8        | M6×0.75   | 4.5                  | 11       |
| LW27EL    | 27                 | 4                 | 19                             | 80                | 74                 | 70            | 40       | M6×1×10                     | 6                    | 5.3                  | 5                    | 56                   | 8                    | 23       | 10       | M6×0.75   | 6                    | 11       |
| LW35EL    | 35                 | 4                 | 25.5                           | 120               | 108                | 107           | 60       | M8×1.25×14                  | 9                    | 6.8                  | 6.5                  | 84                   | 12                   | 31       | 14       | M6×0.75   | 8                    | 11       |
| LW50EL    | 50                 | 4.5               | 36                             | 162               | 140.6              | 144           | 80       | M10×1.5×18                  | 14                   | 8.6                  | 9                    | 108                  | 14                   | 45.5     | 18       | Rc1/8     | 14                   | 14       |

Unit: mm

| Rail                          |                                | Basic load rating             |                                                      |                            |                                       |                     | Ball dia.                      | Weight                |                      |                       |               |       |     |      |
|-------------------------------|--------------------------------|-------------------------------|------------------------------------------------------|----------------------------|---------------------------------------|---------------------|--------------------------------|-----------------------|----------------------|-----------------------|---------------|-------|-----|------|
| Width<br><i>W<sub>1</sub></i> | Height<br><i>H<sub>1</sub></i> | Pitch<br><i>B<sub>2</sub></i> | Mounting bolt hole<br><i>d</i> × <i>D</i> × <i>h</i> | <i>G</i><br>(recomm ended) | Max. length<br><i>L<sub>max</sub></i> | Static moment       |                                |                       | <i>D<sub>w</sub></i> | Rail                  |               |       |     |      |
|                               |                                |                               |                                                      |                            |                                       | Dynamic<br><i>C</i> | Static<br><i>C<sub>0</sub></i> | <i>M<sub>Ro</sub></i> |                      | <i>M<sub>Vo</sub></i> | slide<br>(kg) | kg/m  |     |      |
| 33                            | 8.7                            | 18                            | 4.5×7.5×5.3                                          | 7.5                        | 15                                    | 1000                | 5600                           | 11300                 | 135                  | 44                    | 37            | 2.381 | 0.2 | 2.1  |
| 37                            | 10.5                           | 22                            | 4.5×7.5×5.3                                          | 7.5                        | 15                                    | 1600                | 6450                           | 13900                 | 185                  | 66                    | 55            | 2.381 | 0.3 | 2.9  |
| 42                            | 15                             | 24                            | 4.5×7.5×5.3                                          | 9                          | 20                                    | 2000                | 12800                          | 26900                 | 400                  | 171                   | 143           | 3.175 | 0.5 | 4.7  |
| 69                            | 19                             | 40                            | 7×11×9                                               | 14.5                       | 20                                    | 2400                | 33000                          | 66500                 | 1690                 | 645                   | 545           | 4.762 | 1.5 | 9.6  |
| 90                            | 24                             | 60                            | 9×14×12                                              | 15                         | 20                                    | 3000                | 61500                          | 117000                | 3900                 | 1530                  | 1280          | 6.350 | 4.0 | 15.8 |

The basic dynamic load rating is a load that furnishes 50 km rating fatigue life; it is a vertical and constant load to the ball slide mounting surface.  
When converting the basic dynamic load rating C to the dynamic load rating C<sub>100</sub> for 100 km rating fatigue life, divide the C by 1.26

Dimensions of LW Series (Interchangeable ball slide)

LAW-EL (Wide rail type)

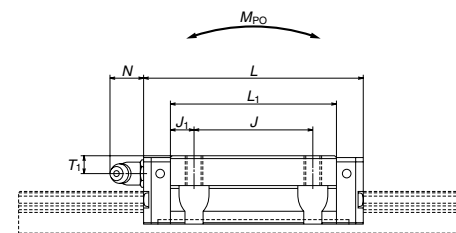
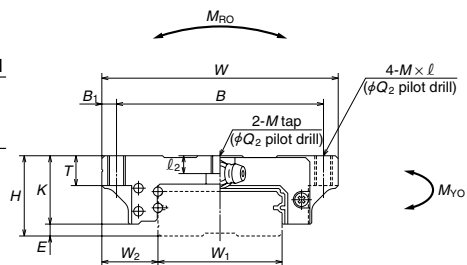
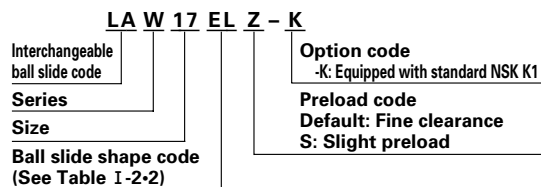


Table. I-5-24

| Model No. | Assembly    |     |                | Ball slide |             |               |    |               |                |                |                |                |                |      |    |
|-----------|-------------|-----|----------------|------------|-------------|---------------|----|---------------|----------------|----------------|----------------|----------------|----------------|------|----|
|           | Height<br>H | E   | W <sub>2</sub> | Width<br>W | Length<br>L | Mounting hole |    |               |                |                | B <sub>1</sub> | L <sub>1</sub> | J <sub>1</sub> | K    | T  |
|           |             |     |                |            |             | B             | J  | M × pitch × l | l <sub>2</sub> | Q <sub>2</sub> |                |                |                |      |    |
| LAW17EL   | 17          | 2.5 | 13.5           | 60         | 51.4        | 53            | 26 | M4×0.7×6      | 3.2            | 3.3            | 3.5            | 35             | 4.5            | 14.5 | 6  |
| LAW21EL   | 21          | 3   | 15.5           | 68         | 58.8        | 60            | 29 | M5×0.8×8      | 3.7            | 4.4            | 4              | 41             | 6              | 18   | 8  |
| LAW27EL   | 27          | 4   | 19             | 80         | 74          | 70            | 40 | M6×1×10       | 6              | 5.3            | 5              | 56             | 8              | 23   | 10 |
| LAW35EL   | 35          | 4   | 25.5           | 120        | 108         | 107           | 60 | M8×1.25×14    | 9              | 6.8            | 6.5            | 84             | 12             | 31   | 14 |
| LAW50EL   | 50          | 4.5 | 36             | 162        | 140.6       | 144           | 80 | M10×1.5×18    | 14             | 8.6            | 9              | 108            | 14             | 45.5 | 18 |

Unit: mm

| Grease fitting |                |    | Basic load rating |                          |                 |                 |                 | Ball dia.<br>D <sub>w</sub> | Weight<br>Ball slide<br>(kg) |
|----------------|----------------|----|-------------------|--------------------------|-----------------|-----------------|-----------------|-----------------------------|------------------------------|
|                |                |    | Dynamic<br>C      | Static<br>C <sub>0</sub> | Static moment   |                 |                 |                             |                              |
| Hole size      | T <sub>1</sub> | N  | (N)               | (N)                      | M <sub>RO</sub> | M <sub>PO</sub> | M <sub>YO</sub> | (N·m)                       |                              |
| φ 3            | 4              | 3  | 5600              | 11300                    | 135             | 44              | 37              | 2.381                       | 0.2                          |
| M6×0.75        | 4.5            | 11 | 6450              | 13900                    | 185             | 66              | 55              | 2.381                       | 0.3                          |
| M6×0.75        | 6              | 11 | 12800             | 26900                    | 400             | 171             | 143             | 3.175                       | 0.5                          |
| M6×0.75        | 8              | 11 | 33000             | 66500                    | 1690            | 645             | 545             | 4.762                       | 1.5                          |
| Rc1/8          | 14             | 14 | 61500             | 117000                   | 3900            | 1530            | 1280            | 6.350                       | 4.0                          |

The basic dynamic load rating is a load that furnishes 50 km rating fatigue life; it is a vertical and constant load to the ball slide mounting surface.

When converting the basic dynamic load rating C to the dynamic load rating C<sub>100</sub> for 100 km rating fatigue life, divide the C by 1.26