Mechanical Lift (Ball Screw, Electric Type)

MLP Low & Mini Type
Using IPM Motor

Load capacity: 220/330 lb

Compact, space-saving, and thin type which can be placed anywhere.

Major features of the MLP Series

- Uses IPM motor
- 3.4in. low platform (no external units attached)
- Vector control
- Dry cylinder
- Built-in unit
- 110 V power supply
- Maximum starting frequency 10 times per minute
- Bellows type full cover (with 'J' at the end)
- Foot switch with LED

Cord: 78.7in.

- Has a maximum/minimum limit switch

Note) After the lifter powers up, the lifter remembers the maximum and minimum position based on the first signals of the limit switch.

On the succeeding operation, the lifter will stop at about 0.2in. lower than the maximum position during lifting and about 0.1in. higher than the minimum position when lowering.

Note) When loading from the side of the table, please do so in the following manner: from side (1) load less than or equal to 1/2 of the loading capacity (see table), and from side (2) load less than or equal to 1/4 of the loading capacity (see table).

Note) Few subductions will occur.

Note) The unit cannot be used outdoors, or in places that are dusty, with high temperature and humidity, or in temperatures (0°C or below).

<table>
<thead>
<tr>
<th>Table Type</th>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions W x L</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration (in seconds) Unloaded to loaded</th>
<th>Lowering duration (in seconds) Unloaded to loaded</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>MLP-100-47</td>
<td>220 lb</td>
<td>15.7×28.3</td>
<td>19.4</td>
<td>3.4 to 22.8</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>79 lb</td>
</tr>
<tr>
<td></td>
<td>MLP-100-58</td>
<td>330 lb</td>
<td>20.5×33.5</td>
<td>13.5</td>
<td>3.4 to 16.9</td>
<td></td>
<td></td>
<td>68 lb</td>
<td>93 lb</td>
</tr>
<tr>
<td></td>
<td>MLP-150-45</td>
<td>220 lb</td>
<td>15.7×19.7</td>
<td>13.5</td>
<td>3.4 to 22.8</td>
<td></td>
<td></td>
<td>68 lb</td>
<td>77 lb</td>
</tr>
<tr>
<td></td>
<td>MLP-150-56</td>
<td>330 lb</td>
<td>20.5×24.8</td>
<td>13.5</td>
<td>3.4 to 16.9</td>
<td></td>
<td></td>
<td>104 lb</td>
<td>86 lb</td>
</tr>
<tr>
<td>Bellows</td>
<td>MLP-100-58J</td>
<td>220 lb</td>
<td>20.5×33.5</td>
<td>19.4</td>
<td>3.4 to 22.8</td>
<td></td>
<td></td>
<td>30 times / hour</td>
<td>104 lb</td>
</tr>
<tr>
<td></td>
<td>MLP-150-56J</td>
<td>330 lb</td>
<td>20.5×24.8</td>
<td>13.5</td>
<td>3.4 to 16.9</td>
<td></td>
<td></td>
<td>86 lb</td>
<td></td>
</tr>
</tbody>
</table>

* A bellows cannot be installed in a standard type.
### Mechanical Lift (Ball Screw, Electric Type)

**MLP Mini Type Using IPM Motor**

- Load capacity: 551 lb

**Recommendation**

- Uses IPM motor
- Vector control
- Dry cylinder
- Built-in unit
- 110 V power supply
- Maximum starting frequency: 10 times per minute
- Bellows type full cover (with ‘J’ at the end)
- Foot switch with LED
- Has a maximum/minimum limit switch
- Power cord: 118.1 in.
- No oil leaks due to ball screw cylinder
- Cam-type cylinder head enhances rigidity
- Through strengthening the axis, durability is enhanced
- Does not fall by itself
- Cord: 78.7 in.

**Note**
- After the lifter powers up, the lifter remembers the maximum and minimum position based on the first signals of the limit switch. On the succeeding operation, the lifter will stop at about 0.2 in. lower than the maximum position during lifting and about 0.1 in. higher than the minimum position when lowering.

**Note**
- When loading from the side of the table, please do so in the following manner: from side (1) load less than or equal to 1/2 of the loading capacity (see table), and from side (2) load less than or equal to 1/4 of the loading capacity (see table)

**Note**
- Few subductions will occur.

**Note**
- The unit cannot be used outdoors, or in places that are dusty, with high temperature and humidity, or in temperatures (0°C or below).

### Table Type

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions W x L</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration (in seconds)</th>
<th>Lowering duration (in seconds)</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MLP-250-47</td>
<td>551 lb</td>
<td>15.7 x 28.3</td>
<td>16.2</td>
<td>6.2 to 22.4</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>15 times / hour</td>
<td>99 lb</td>
</tr>
<tr>
<td>MLP-250-58</td>
<td>551 lb</td>
<td>20.5 x 33.5</td>
<td>16.2</td>
<td>6.2 to 22.4</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>15 times / hour</td>
<td>110 lb</td>
</tr>
<tr>
<td>Bellows</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MLP-250-58J</td>
<td>551 lb</td>
<td>20.5 x 33.5</td>
<td>16.2</td>
<td>6.2 to 22.4</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>15 times / hour</td>
<td>132 lb</td>
</tr>
<tr>
<td>MLP-250-69V-12</td>
<td>551 lb</td>
<td>23.6 x 35.4</td>
<td>23.5</td>
<td>4.0 to 27.5</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>220 lb</td>
</tr>
<tr>
<td>MLP-250-610V-12</td>
<td>2205 lb</td>
<td>25.6 x 47.2</td>
<td>32.1</td>
<td>5.4 to 37.5</td>
<td>Approx. 15</td>
<td>Approx. 15</td>
<td>15 times / hour</td>
<td>331 lb</td>
</tr>
<tr>
<td>MLP-250-810V-12</td>
<td>1102 lb</td>
<td>31.5 x 47.2</td>
<td>32.1</td>
<td>5.4 to 37.5</td>
<td>Approx. 15</td>
<td>Approx. 15</td>
<td>15 times / hour</td>
<td>353 lb</td>
</tr>
<tr>
<td>MLP-500-610V-12</td>
<td>1102 lb</td>
<td>23.6 x 41.3</td>
<td>28.2</td>
<td>5.4 to 33.6</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>353 lb</td>
</tr>
<tr>
<td>MLP-500-810V-12</td>
<td>1102 lb</td>
<td>31.5 x 41.3</td>
<td>32.1</td>
<td>5.4 to 37.5</td>
<td>Approx. 15</td>
<td>Approx. 15</td>
<td>15 times / hour</td>
<td>375 lb</td>
</tr>
<tr>
<td>MLP-1000-810V-12</td>
<td>2205 lb</td>
<td>31.5 x 47.2</td>
<td>28.6</td>
<td>6.2 to 34.8</td>
<td>Approx. 32</td>
<td>Approx. 32</td>
<td>15 times / hour</td>
<td>397 lb</td>
</tr>
</tbody>
</table>

**Note**
- A bellows cannot be installed in a standard type.