Mechanical Lift (Ball Screw, Electric Type)

**MLSB**

Ultra-low & Slim Type

It’s possible to directly place a hand-pushed cart or a flat cart currently in use on top of the lift. Work can be more efficient since there is no need to pile up items over again on the table lift.

**MAJOR FEATURES OF THE MLSB SERIES**

- Ultra-low platform
- Stand-alone unit
- Foot switch cond: 78.7 in.
- High-pressure hose: 78.7 in.
- Power cord: 157.9 in. (E-type)
- Table height: 110 V single-phase power supply
- Built-in unit
- Maximum starting frequency 10 times per minute
- Maximum/min limit switch
- Foot switch with LED Cond: 78.7 in
- Power cond: 118.1 in
- Enhanced rigidity with cam-type cylinder head
- Enhanced durability through strengthening the axis
- Bellows type full cover (with ‘J’ at the end)

**MLSB-100-2007**

Load capacity: 220 lb

<table>
<thead>
<tr>
<th>Electric ball screw type</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 from unloaded to loaded</th>
<th>Lowering duration from unloaded to loaded</th>
<th>Outdoor (H3)</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSB-100-2007</td>
<td>220 lb</td>
<td>7.9” x 27.6”</td>
<td>19.6”</td>
<td>6.2” to 22.4”</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>70</td>
<td>62 lb</td>
</tr>
<tr>
<td>MLSB-100-2507</td>
<td>220 lb</td>
<td>9.8” x 27.6”</td>
<td>20.5”</td>
<td>6.2” to 22.4”</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>71</td>
<td>66 lb</td>
</tr>
<tr>
<td>MLSB-100-2009</td>
<td>220 lb</td>
<td>11.8” x 27.6”</td>
<td>25.5”</td>
<td>6.2” to 22.4”</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>75</td>
<td>71 lb</td>
</tr>
<tr>
<td>MLSB-100-2509</td>
<td>220 lb</td>
<td>9.8” x 35.4”</td>
<td>32.7”</td>
<td>6.2” to 28.7”</td>
<td>Approx. 15</td>
<td>Approx. 15</td>
<td>79</td>
<td>79 lb</td>
</tr>
<tr>
<td>MLSB-100-2009</td>
<td>220 lb</td>
<td>11.8” x 35.4”</td>
<td>32.7”</td>
<td>6.2” to 28.7”</td>
<td>Approx. 15</td>
<td>Approx. 15</td>
<td>84</td>
<td>84 lb</td>
</tr>
</tbody>
</table>

* When the table is raised from the lowest position to the highest position, the table shifts up to 1.1 in. in the longitudinal direction (L).

**MLP**

Mini Type

Using IPM Motor

**Long Service Life and High Output by Adopting the IPM Motor**

**MAJOR FEATURES OF THE MLP SERIES**

- IPM motor
- Vector control
- Dry ball screw cylinder
- No oil leaks
- No hydraulic drift
- 110 V single-phase power supply
- Built-in unit
- Maximum/min limit switch
- Foot switch with LED Cond: 78.7 in
- Power cond: 118.1 in
- Enhanced rigidity with cam-type cylinder head
- Enhanced durability through strengthening the axis
- Bellows type full cover (with ‘J’ at the end)

**MLP-250-47**

Load capacity: 551 / 1102 / 2204 lb

<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 from unloaded to loaded</th>
<th>Lowering duration from unloaded to loaded</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard MLP-250-47</td>
<td>551 lb</td>
<td>15.7” x 28.3”</td>
<td>20.5”</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>Bellows MLP-250-47</td>
<td>551 lb</td>
<td>21.5” x 33.5”</td>
<td>25.6”</td>
<td>6.2” to 28.9”</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>15 times / hour</td>
<td>110 lb</td>
</tr>
<tr>
<td>Standard MLP-250-69W-12</td>
<td>551 lb</td>
<td>23.6” x 35.4”</td>
<td>28.2”</td>
<td>6.2” to 32.9”</td>
<td>Approx. 18</td>
<td>Approx. 18</td>
<td>15 times / hour</td>
<td>220 lb</td>
</tr>
<tr>
<td>Bellows MLP-250-69W-12</td>
<td>551 lb</td>
<td>31.5” x 41.3”</td>
<td>32.8”</td>
<td>6.2” to 37.5”</td>
<td>Approx. 18</td>
<td>Approx. 18</td>
<td>15 times / hour</td>
<td>232 lb</td>
</tr>
<tr>
<td>Standard MLP-250-812V-12</td>
<td>551 lb</td>
<td>25.6” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>216 lb</td>
</tr>
<tr>
<td>Bellows MLP-250-812V-12</td>
<td>551 lb</td>
<td>31.5” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>216 lb</td>
</tr>
<tr>
<td>Standard MLP-500-69W-12</td>
<td>1102 lb</td>
<td>25.6” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>353 lb</td>
</tr>
<tr>
<td>Bellows MLP-500-69W-12</td>
<td>1102 lb</td>
<td>31.5” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>353 lb</td>
</tr>
<tr>
<td>Standard MLP-500-812V-12</td>
<td>1102 lb</td>
<td>21.5” x 41.3”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>375 lb</td>
</tr>
<tr>
<td>Bellows MLP-500-812V-12</td>
<td>1102 lb</td>
<td>31.5” x 41.3”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>375 lb</td>
</tr>
<tr>
<td>Standard MLP-1000-812V-12</td>
<td>2204 lb</td>
<td>25.6” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 18</td>
<td>Approx. 18</td>
<td>15 times / hour</td>
<td>397 lb</td>
</tr>
<tr>
<td>Bellows MLP-1000-812V-12</td>
<td>2204 lb</td>
<td>31.5” x 47.2”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 18</td>
<td>Approx. 18</td>
<td>15 times / hour</td>
<td>397 lb</td>
</tr>
<tr>
<td>Standard MLP-1000-812V-12</td>
<td>551 lb</td>
<td>21.5” x 41.3”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>408 lb</td>
</tr>
<tr>
<td>Bellows MLP-1000-812V-12</td>
<td>551 lb</td>
<td>31.5” x 41.3”</td>
<td>32.1”</td>
<td>6.4” to 37.5”</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>408 lb</td>
</tr>
</tbody>
</table>

* Bellows cannot be installed in a standard type.

**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.
- When loading from the side of the table, please do so in the following manner: from side & load less than or equal to 1/2 of the loading capacity (see table), and from side # load less than or equal to 1/4 of the loading capacity (see table).
- Few subductions will occur.
- The unit cannot be used outdoors, or in places that are dusty, with high temperature and humidity, or in temperatures (0°C or below).

Web: www.bandcip.com | Phone: 888-276-3386 | Fax: 260-357-0889 | Email: sales@bandcip.com

Web: www.bandcip.com | Phone: 888-276-3386 | Fax: 260-357-0889 | Email: sales@bandcip.com
Mechanical Lift (Ball Screw, Electric Type)

MLP

Low & Mini Type

Using IPM Motor

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

Major Features of the MLP Series

- 3.3in. low platform (no external units)
- IPM motor
- Vector control
- Dry ball screw cylinder
- No oil leaks
- No hydraulic drift
- 110 V single-phase power supply
- Built-in unit
- Maximum starting frequency 10 times per minute
- Maximum/minimum limit switch
- Foot switch with LED Cord (8.7in.)
- Power cord: 118.1in.
- Enhanced rigidity with cam-type cylinder head
- Enhanced durability through strengthening the axis
- Bellows type full cover (with ‘J’ at the end)
- Quiet operation through the use of planetary gears in the decelerator (MLP-100-XX)
- With built-in control board BOX (excluding MLP-100-XX)

Model Load Capacity

MLP-100-47 220 lb
MLP-150-56 330 lb

Load capacity: 220 / 330 lb

Parts of ball-screw

ball-screw

microcomputer control

Foot switch (with LED)

Some of the major advantages Hamaco lifts offer include:

Lower Cost
Costs less to purchase and maintain than hydraulic models.

No Leak
Using a dry cylinder, there’s no oil leakage and the work environment stays clean.

Longer Life
With brushless motor design, it is not prone to typical wear and tear and will last significantly longer.

Precision Positioning
The ball-screw design makes it possible to perfectly position the lifts to your exact needs as well as to keep levels steady when loading or unloading the tables.

No Hydraulic Lift
Table height stays steady and consistent even when leaving it fully loaded for long periods of time.

Quiet
Hamaco motors are quiet during operation, eliminating additional workplace noise.

Easy Maintenance
Because of the simplified, clean design, such as long-life brushless motors and leak-free operation, maintenance is minimal and easy.

Built-In Power Unit
Lifters use a built-in power unit enabling you to use them anywhere.

LED Alarm
An LED alarm on the foot switch alerts you to operational troubles.

High-Quality Foot Switch
Made of durable, rigid plastic, the foot switch is two-toned (UP: black and DOWN: red) to make it easy to use even in low light. Switch is water-resistant.

Consistent Speed Control
By controlling the amount of current through the motor, we are able to accurately control the rotation speed. (Mini type)

Ultra-Efficient
Because of significant efficiency advantages over hydraulic, the lifters are able to use smaller output motors to handle large loads.

Vector Control Features

While a conventional system (120-degree conduction system) has the current impressed in the motor as a square wave, a vector control impresses voltage, which turns into a sine wave toward the rotor’s position (angle of the magnet), so it becomes possible to control the motor current.

Vector control offers numerous advantages, including:

- Efficient operation using low torque pulsation. By being able to control the motor current according to the angle of the magnet, you can achieve smoother acceleration and accurate stopping.
- It can instantly respond to speed changes during load fluctuations.
- Compared with conventional systems, the degree of speed regularity greatly improves when lifting or lowering, regardless of the load.

Some of the major advantages Hamaco lifts offer include:

Lower Cost
Costs less to purchase and maintain than hydraulic models.

No Leak
Using a dry cylinder, there’s no oil leakage and the work environment stays clean.

Longer Life
With brushless motor design, it is not prone to typical wear and tear and will last significantly longer.

Precision Positioning
The ball-screw design makes it possible to perfectly position the lifts to your exact needs as well as to keep levels steady when loading or unloading the tables.

No Hydraulic Lift
Table height stays steady and consistent even when leaving it fully loaded for long periods of time.

Quiet
Hamaco motors are quiet during operation, eliminating additional workplace noise.

Easy Maintenance
Because of the simplified, clean design, such as long-life brushless motors and leak-free operation, maintenance is minimal and easy.

Built-In Power Unit
Lifters use a built-in power unit enabling you to use them anywhere.

LED Alarm
An LED alarm on the foot switch alerts you to operational troubles.

High-Quality Foot Switch
Made of durable, rigid plastic, the foot switch is two-toned (UP: black and DOWN: red) to make it easy to use even in low light. Switch is water-resistant.

Consistent Speed Control
By controlling the amount of current through the motor, we are able to accurately control the rotation speed. (Mini type)

Ultra-Efficient
Because of significant efficiency advantages over hydraulic, the lifters are able to use smaller output motors to handle large loads.

Some of the major advantages Hamaco lifts offer include:

Lower Cost
Costs less to purchase and maintain than hydraulic models.

No Leak
Using a dry cylinder, there’s no oil leakage and the work environment stays clean.

Longer Life
With brushless motor design, it is not prone to typical wear and tear and will last significantly longer.

Precision Positioning
The ball-screw design makes it possible to perfectly position the lifts to your exact needs as well as to keep levels steady when loading or unloading the tables.

No Hydraulic Lift
Table height stays steady and consistent even when leaving it fully loaded for long periods of time.

Quiet
Hamaco motors are quiet during operation, eliminating additional workplace noise.

Easy Maintenance
Because of the simplified, clean design, such as long-life brushless motors and leak-free operation, maintenance is minimal and easy.

Built-In Power Unit
Lifters use a built-in power unit enabling you to use them anywhere.

LED Alarm
An LED alarm on the foot switch alerts you to operational troubles.

High-Quality Foot Switch
Made of durable, rigid plastic, the foot switch is two-toned (UP: black and DOWN: red) to make it easy to use even in low light. Switch is water-resistant.

Consistent Speed Control
By controlling the amount of current through the motor, we are able to accurately control the rotation speed. (Mini type)

Ultra-Efficient
Because of significant efficiency advantages over hydraulic, the lifters are able to use smaller output motors to handle large loads.

Some of the major advantages Hamaco lifts offer include:

Lower Cost
Costs less to purchase and maintain than hydraulic models.

No Leak
Using a dry cylinder, there’s no oil leakage and the work environment stays clean.

Longer Life
With brushless motor design, it is not prone to typical wear and tear and will last significantly longer.

Precision Positioning
The ball-screw design makes it possible to perfectly position the lifts to your exact needs as well as to keep levels steady when loading or unloading the tables.

No Hydraulic Lift
Table height stays steady and consistent even when leaving it fully loaded for long periods of time.

Quiet
Hamaco motors are quiet during operation, eliminating additional workplace noise.

Easy Maintenance
Because of the simplified, clean design, such as long-life brushless motors and leak-free operation, maintenance is minimal and easy.

Built-In Power Unit
Lifters use a built-in power unit enabling you to use them anywhere.

LED Alarm
An LED alarm on the foot switch alerts you to operational troubles.

High-Quality Foot Switch
Made of durable, rigid plastic, the foot switch is two-toned (UP: black and DOWN: red) to make it easy to use even in low light. Switch is water-resistant.

Consistent Speed Control
By controlling the amount of current through the motor, we are able to accurately control the rotation speed. (Mini type)

Ultra-Efficient
Because of significant efficiency advantages over hydraulic, the lifters are able to use smaller output motors to handle large loads.

Mechanical Lift Features

Hamaco lifts utilize a ball screw driving system, making them exceptionally compact and easily able to adapt to any work environment. This dry cylinder method, rather than hydraulics, virtually eliminates leaks and enhances performance. Additionally, they feature brushless motors for much greater longevity and simple maintenance.