One of the world’s highest quality ergonomic material handling equipment
Useful at Every Stage of Production

Production
Flexible height adjustment and 360-degree rotating pedestal make it easy to adapt to your production line.

Machining and Inspection
Use as a convenient and sturdy tabletop that adjusts easily to your processes, from opening press holes to inspection.

Conveyor Line
Extend your conveyor line or loading area with one or more microcomputer-controlled lifters.

Loading & Unloading
Perfect for any warehouse environment, castors make it easy to move lifters with heavy loads quickly to any location.

Press and Process
When working with steel plates, processing machines, and other large items, combine the power of two or more lifters and a foot switch to accomplish your tasks efficiently and easily.

Hamaco is proud to make one of the world’s highest-quality lines of lifters. All of our products feature precision craftsmanship and are ergonomically designed, making them exceptionally easy to use and materials handling safer and more efficient.

Hamaco offers a wide range of models that assist in numerous functions throughout the manufacturing process, from the automation line and assembly to the casting foundry and everyday materials transportation. Some of our line includes:

- Hydraulic cylinder or dry cylinder designs
- Simultaneous control models
- Ultra-low floor models
- Mast-style models

All mechanical models feature ball screw lifting construction which eliminates oil leaks, prevents lift platforms from sinking during loading, and ensures consistent lift speeds for added ease and safety.
Mechanical Lift (Ball Screw, Electric Type)

**ML Ultra-low Platform**

- **Mini Type**

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

### MAJOR FEATURES OF THE ML SERIES

- 3.1 in ultra-low platform (no external units)
- SPM motor
- Vector control
- Dry cylinder
- 110 V single-phase power supply
- Built-in unit
- Maximum starting frequency 10 times per minute
- Maximum usage frequency 30 times per hour
- Maximum/minimum limit switch
- Foot switch with LED Cord: 78.7 in
- Power cord: 118.1 in
- *Bellows type full cover (with ‘J’ at the end)*

### Load capacity: 220 / 330 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Duration of lifting and lowering in seconds</th>
<th>Motor output</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML-100-47V</td>
<td>220 lb</td>
<td>15.7” × 28.3”</td>
<td>19.6”</td>
<td>3.2” to 22.8”</td>
<td>10</td>
<td>70</td>
<td>79 lb</td>
</tr>
<tr>
<td>ML-100-56V</td>
<td>330 lb</td>
<td>20.5” × 33.5”</td>
<td>13.7”</td>
<td>3.2” to 16.9”</td>
<td>10</td>
<td>70</td>
<td>68 lb</td>
</tr>
<tr>
<td>ML-150-56V</td>
<td>15.7” × 19.7”</td>
<td>20.5” × 24.8”</td>
<td>3.2” to 16.9”</td>
<td>10</td>
<td>77 lb</td>
<td>77 lb</td>
<td></td>
</tr>
<tr>
<td>ML-100-58V</td>
<td>220 lb</td>
<td>20.5” × 33.5”</td>
<td>19.6”</td>
<td>3.2” to 22.8”</td>
<td>10</td>
<td>70</td>
<td>104 lb</td>
</tr>
<tr>
<td>ML-150-58V</td>
<td>330 lb</td>
<td>20.5” × 24.8”</td>
<td>13.7”</td>
<td>3.2” to 16.9”</td>
<td>10</td>
<td>70</td>
<td>86 lb</td>
</tr>
</tbody>
</table>

*Bellows cannot be installed in a standard type.

**MLM Mini Type**

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

### MAJOR FEATURES OF THE MLM SERIES

- 3.1 in ultra-low platform (no external units)
- SPM motor
- Vector control
- Dry cylinder
- 110 V single-phase power supply
- Built-in unit
- Maximum starting frequency 10 times per minute
- Maximum usage frequency 30 times per hour
- Maximum/minimum limit switch
- Foot switch with LED Cord: 78.7 in
- Power cord: 118.1 in
- *Bellows type full cover (with ‘J’ at the end)*

### Load capacity: 220 / 551 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Duration of lifting and lowering in seconds</th>
<th>Motor output</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLM-100-46V-12</td>
<td>220 lb</td>
<td>15.7” × 25.6”</td>
<td>16.4”</td>
<td>5.2” to 22.0”</td>
<td>10</td>
<td>70</td>
<td>71 lb</td>
</tr>
<tr>
<td>MLM-100-56V-12</td>
<td>330 lb</td>
<td>20.5” × 33.5”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>88 lb</td>
</tr>
<tr>
<td>MLM-150-56V-12</td>
<td>15.7” × 24.8”</td>
<td>20.5” × 25.6”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>99 lb</td>
</tr>
<tr>
<td>MLM-100-58V-12</td>
<td>220 lb</td>
<td>15.7” × 25.6”</td>
<td>16.4”</td>
<td>5.2” to 22.0”</td>
<td>10</td>
<td>70</td>
<td>99 lb</td>
</tr>
<tr>
<td>MLM-150-58V-12</td>
<td>330 lb</td>
<td>20.5” × 33.5”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>110 lb</td>
</tr>
<tr>
<td>MLM-250-58V-12</td>
<td>15.7” × 24.8”</td>
<td>20.5” × 25.6”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>97 lb</td>
</tr>
<tr>
<td>MLM-100-56WVJ-12</td>
<td>220 lb</td>
<td>15.7” × 25.6”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>110 lb</td>
</tr>
<tr>
<td>MLM-150-56WVJ-12</td>
<td>330 lb</td>
<td>20.5” × 33.5”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>108 lb</td>
</tr>
<tr>
<td>MLM-250-56WVJ-12</td>
<td>15.7” × 24.8”</td>
<td>20.5” × 25.6”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>132 lb</td>
</tr>
<tr>
<td>MLM-100-58WVJ-12</td>
<td>220 lb</td>
<td>15.7” × 25.6”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>130 lb</td>
</tr>
<tr>
<td>MLM-150-58WVJ-12</td>
<td>330 lb</td>
<td>20.5” × 33.5”</td>
<td>19.5”</td>
<td>6.0” to 25.5”</td>
<td>22</td>
<td>70</td>
<td>130 lb</td>
</tr>
</tbody>
</table>

*Bellows cannot be installed in a standard type.

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**Notes:**

- All figures are in inches.
- All tables and diagrams are for reference only.
- All specifications are subject to change without notice.
- For more information, contact Bandcip at sales@bandcip.com.
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 cord: 78.7in.
• High-pressure hose: 78.7in.
• Power cord: 157.9in. (E-type)
• Maximum usage frequency: 30 times per hour

Load capacity: 220 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration (sec)</th>
<th>Lowering duration (sec)</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLSB-100-2007</td>
<td>220 lb</td>
<td>7.9&quot;×27.6&quot;</td>
<td>19.6&quot;</td>
<td>3.2&quot; to 22.8&quot;</td>
<td>12</td>
<td>12</td>
<td>62 lb</td>
</tr>
<tr>
<td>MLSB-100-2507</td>
<td>220 lb</td>
<td>9.8&quot;×27.6&quot;</td>
<td>25.5&quot;</td>
<td>3.2&quot; to 28.7&quot;</td>
<td>15</td>
<td>15</td>
<td>79 lb</td>
</tr>
<tr>
<td>MLSB-100-3009</td>
<td>220 lb</td>
<td>9.8&quot;×35.4&quot;</td>
<td>11.8&quot;×35.4&quot;</td>
<td>25.5&quot;</td>
<td>15</td>
<td>15</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 1.1in. in the longitudinal direction (L).

MLB-250-47

Load capacity: 551 / 1102 / 2204 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration (sec)</th>
<th>Lowering duration (sec)</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLP-250-47</td>
<td>551 lb</td>
<td>15.7&quot;×28.7&quot;</td>
<td>16.2&quot;</td>
<td>6.2&quot; to 22.4&quot;</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>2204 lb</td>
<td>20.5&quot;×33.5&quot;</td>
<td>16.2&quot;</td>
<td>6.2&quot; to 22.4&quot;</td>
<td>Approx. 20</td>
<td>Approx. 20</td>
<td>15 times / hour</td>
<td>132 lb</td>
</tr>
<tr>
<td>MLP-500-612V-12</td>
<td>1102 lb</td>
<td>23.6&quot;×41.3&quot;</td>
<td>28.2&quot;</td>
<td>4.0&quot; to 32.2&quot;</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>2204 lb</td>
<td>25.6&quot;×47.2&quot;</td>
<td>32.1&quot;</td>
<td>5.4&quot; to 37.5&quot;</td>
<td>Approx. 25</td>
<td>Approx. 25</td>
<td>15 times / hour</td>
<td>408 lb</td>
</tr>
</tbody>
</table>

*Belows 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 0.2in. lower than the maximum position during lifting and about 0.1in. higher than the minimum position when lowering.

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
• 110V single-phase power supply
• Built-in unit
• Maximum starting frequency 10 times per minute
• Maximum/minimum limit switch
• Foot switch with LED Cord: 78.7in.
• Power cord: 118.1in.
• Enhanced rigidity with cam-type cylinder head
• Enhanced durability against the axis
• Bellows type full cover (with ‘J’ at the end)

MLP-250-6WV-12

Load capacity: 220 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration (sec)</th>
<th>Lowering duration (sec)</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLP-250-6WV-12</td>
<td>220 lb</td>
<td>23.6&quot;×41.3&quot;</td>
<td>28.2&quot;</td>
<td>4.0&quot; to 32.2&quot;</td>
<td>Approx. 14</td>
<td>Approx. 14</td>
<td>15 times / hour</td>
<td>220 lb</td>
</tr>
<tr>
<td>MLP-500-612V-12</td>
<td>353 lb</td>
<td>35.5&quot;×41.3&quot;</td>
<td>32.1&quot;</td>
<td>5.4&quot; to 37.5&quot;</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>408 lb</td>
<td>37.5&quot;×41.3&quot;</td>
<td>33.6&quot;</td>
<td>5.4&quot; to 37.5&quot;</td>
<td>Approx. 25</td>
<td>Approx. 25</td>
<td>15 times / hour</td>
<td>408 lb</td>
</tr>
</tbody>
</table>

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 A load less than or equal to 1/2 of the loading capacity (see table), and from side B 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).

Web: www.bandcip.com | Phone: 888-276-3386 | Fax: 260-357-0889 | Email: esales@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
- For lift with LED Cord 78.7in.
- 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)

Load capacity: 220 / 330 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Lifting duration at service</th>
<th>Lowering duration at service</th>
<th>Usage frequency</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLP-100-47</td>
<td>220 lb</td>
<td>15.7&quot;×28.3&quot;</td>
<td>19.4&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>86 lb</td>
</tr>
<tr>
<td>MLP-100-56</td>
<td>330 lb</td>
<td>20.5&quot;×33.5&quot;</td>
<td>13.5&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>93 lb</td>
</tr>
<tr>
<td>MLP-150-45</td>
<td>86 lb</td>
<td>20.5&quot;×24.8&quot;</td>
<td>13.5&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>77 lb</td>
</tr>
<tr>
<td>MLP-150-56</td>
<td>92 lb</td>
<td>20.5&quot;×24.8&quot;</td>
<td>13.5&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>86 lb</td>
</tr>
<tr>
<td>MLP-100-58J</td>
<td>86 lb</td>
<td>20.5&quot;×33.5&quot;</td>
<td>13.5&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>93 lb</td>
</tr>
<tr>
<td>MLP-150-65J</td>
<td>92 lb</td>
<td>20.5&quot;×24.8&quot;</td>
<td>13.5&quot;</td>
<td>Approx. 10</td>
<td>Approx. 10</td>
<td>30 times / hour</td>
<td>77 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.

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

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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.

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
A 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, the lifters 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.

Parts of ball-screw
ball-screw
microcomputer control
Foot switch (with LED)

Web: www.bandcip.com | Phone: 888-276-3386 | Fax: 260-357-0889 | Email: esales@bandcip.com
The IPM (Interior Permanent Magnet) Motor

A conventional SPM (Surface Permanent Magnet) motor features a permanent magnet attached to the rotor surface. It only uses magnetic torque from a magnet. On the other hand, the IPM (Interior Permanent Magnet) motor, like Hamaco uses, features an imbedded permanent magnet in the rotor itself and uses reluctance through magnetic resistance in addition to magnetic torque.

The IPM motor offers significant advantages:

- **High torque and high efficiency**
  By using reluctance torque in addition to magnetic torque, the motor can achieve high output.

- **Energy-saving operation**
  It consumes up to 30% less power compared to conventional SPM motors.

- **High-speed rotation**
  It can respond to high-speed motor rotation by controlling the two types of torque using vector control.

- **Safety**
  Since the permanent magnet is embedded, mechanical safety is improved. Unlike in a SPM, the magnet will not detach due to centrifugal force.

How the Brushless Motor Works

The Brushless Motor operates using a sensor and IC and without mechanical sliding parts such as brush and commutator. Because there is no friction, it lasts much longer and doesn’t give off carbon. We use a microcomputer to control the lifter and it’s possible to easily control and change functionality simply through software.

Controlling and Rotating the Motor

The brushless motor, like typical motors, uses a magnet to make it rotate. However, the brushless motor also relies on electrical current running through coils to move the rotor to the proper position, also called “repulsive force of attraction.”

The right figure represents the rotation principle of the brushless motor (4-pole 6-coil). U, V, and W represent the coil, Hu, HV, Hw indicates Hall element, and N, S is rotor magnetic pole. Also, (N), (S) shows the magnetic pole.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Hall element</th>
<th>Coils</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>on</td>
<td>off</td>
</tr>
<tr>
<td>2</td>
<td>on</td>
<td>off</td>
</tr>
<tr>
<td>3</td>
<td>off</td>
<td>on</td>
</tr>
<tr>
<td>4</td>
<td>off</td>
<td>on</td>
</tr>
<tr>
<td>5</td>
<td>on</td>
<td>off</td>
</tr>
</tbody>
</table>

- Only Hu (Hall element) is ON. The rotor rotates to ① by making U → S and W → N.
- Hu and Hv are ON. The rotor rotates to ② by making V → S and W → N.

Rotate the rotor using this control. Reverse N and S poles of the coil and it will spin in reverse.

Brushless Mechanical Lifter Options

**OPTION 1. Three Push Button**

The three push button switches (rise, fall, and stop) work by holding Driving Mode. Push rise (fall) button one time and it operates automatically to the highest (lowest). The LED alarm display is lost, but the safeguard feature keeps working.

**OPTION 2. Two Push Button**

Using the two push button option (rise and fall), the LED alarm display is lost, but the safeguard feature keeps working.
Free moving casters and wide stroke from a low position to a high position. The lowering of the table is minimized to 2% or less strokes when left for 15 minutes with the maximum load weight. (JIS standard)

**MAJOR FEATURES OF THE HLH SERIES**
- Hydraulic cylinder
- Swivel casters with brakes
- Foot pedal for easy height adjustment
- Overloading prevention device *1
- Springback mechanism in the release handle *2

**Option**
- Pump with a rapid traverse device

**MAJOR SPECIFICATIONS**

**Oil Used**
Turbine oil: ISO VG22

**Materials**
- Pump : Urethane type resin spray painting
- Cylinder : Urethane type resin spray painting
- Main body : Baked melamine / Powder coating

*1 The lifter will not elevate when overloaded.
*2 In an emergency, lowering will stop as soon as you release the handle.
To raise the lift, tighten the release handle. This is not attached to the HLH-120.

**Load capacity:** 220 to 1543 lb

<table>
<thead>
<tr>
<th>Model</th>
<th>Load capacity</th>
<th>Table dimensions (W × L)</th>
<th>Stroke (ST)</th>
<th>Table height (H to H1)</th>
<th>Overall Length (LL)</th>
<th>Wheels</th>
<th>Number of pedals/ Standard</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLH-100</td>
<td>220 lb</td>
<td>13.8”×22.4”</td>
<td>15.7”</td>
<td>7.9” to 23.6”</td>
<td>30”</td>
<td>φ3.9 rubber</td>
<td>Approx. 12</td>
<td>41.9 lb</td>
</tr>
<tr>
<td>HLH-120</td>
<td>264 lb</td>
<td>15.7”×28.3”</td>
<td>19”</td>
<td>9.3” to 28.3”</td>
<td>36.6”</td>
<td>φ3.9 rubber</td>
<td>Approx. 20</td>
<td>66.1 lb</td>
</tr>
<tr>
<td>HLH-150W</td>
<td>330 lb</td>
<td>19.7”×31.5”</td>
<td>43.4”</td>
<td>14” to 57.4”</td>
<td>39.8”</td>
<td>φ3.9 rubber</td>
<td>Approx. 62</td>
<td>150 lb</td>
</tr>
<tr>
<td>HLH-200</td>
<td>440 lb</td>
<td>19.7”×31.5”</td>
<td>21.1”</td>
<td>10.9” to 31.4”</td>
<td>39.9”</td>
<td>φ3.9 rubber</td>
<td>Approx. 36</td>
<td>99 lb</td>
</tr>
<tr>
<td>HLH-300W</td>
<td>661 lb</td>
<td>23.6”×35.4”</td>
<td>47.9”</td>
<td>16.2” to 64.1”</td>
<td>44.1”</td>
<td>φ5.9 rubber</td>
<td>Approx. 85</td>
<td>220 lb</td>
</tr>
<tr>
<td>HLH-400S</td>
<td>881 lb</td>
<td>19.7”×31.5”</td>
<td>20.5”</td>
<td>10.9” to 31.4”</td>
<td>39.8”</td>
<td>φ3.9 urethane</td>
<td>Approx. 62</td>
<td>136.7 lb</td>
</tr>
<tr>
<td>HLH-400SW</td>
<td>881 lb</td>
<td>19.7”×31.5”</td>
<td>23.6”</td>
<td>14.4” to 41.7”</td>
<td>32.1”</td>
<td>φ5.1 rubber</td>
<td>Approx. 58</td>
<td>154 lb</td>
</tr>
<tr>
<td>HLH-400M</td>
<td>881 lb</td>
<td>23.6”×35.4”</td>
<td>23.6”</td>
<td>13” to 36.6”</td>
<td>44.1”</td>
<td>φ5.9 rubber</td>
<td>Approx. 85</td>
<td>176 lb</td>
</tr>
<tr>
<td>HLH-400L</td>
<td>881 lb</td>
<td>23.6”×35.4”</td>
<td>34.2”</td>
<td>13” to 47.2”</td>
<td>55.9”</td>
<td>φ5.9 rubber</td>
<td>Approx. 85</td>
<td>220 lb</td>
</tr>
<tr>
<td>HLH-700</td>
<td>1543 lb</td>
<td>23.6”×35.4”</td>
<td>19”</td>
<td>18” to 38.8”</td>
<td>44.1”</td>
<td>φ5.9 urethane</td>
<td>Approx. 85</td>
<td>176 lb</td>
</tr>
</tbody>
</table>

   * HLH-100’s push handle can be folded.
Hydraulic/Step Type

HLH

Ultra-low Type

Wide hoisting stroke. Equipped with wheels for easy movement. A lifter with many applications only limited by your imagination.

MAJOR FEATURES OF THE HLH SERIES

- Hydraulic cylinder
- Casters with brakes
- Foot pedal type
- Overloading prevention device
- Nose dive prevention valve (HLH-100-80L only)

Load capacity: 220 / 440 lb

Unit: inch

<table>
<thead>
<tr>
<th></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>Total Length (LL)</th>
<th>Wheel Dimensions</th>
<th>Number of pump steps</th>
<th>Deadweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>HLH-100-80L</td>
<td>220 lb</td>
<td>15.7&quot;x28.3&quot;</td>
<td>21.7&quot;</td>
<td>3.2&quot; to 24.9&quot;</td>
<td>40.6&quot;</td>
<td>Ø3.0</td>
<td>Approx. 20</td>
<td>77 lb</td>
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<tr>
<td>Platform</td>
<td>HLH-200-80L</td>
<td>440 lb</td>
<td>19.7&quot;x31.5&quot;</td>
<td>24.8&quot;</td>
<td>3.2&quot; to 28.0&quot;</td>
<td>44.9&quot;</td>
<td>Ø3.0</td>
<td>Approx. 46</td>
<td>125.7 lb</td>
</tr>
</tbody>
</table>

Note: The swivel casters have rubber wheels and the rigid casters have urethane wheels.

Note: HLH-100-80L has rubber wheels.