Find the right height for your application requirements

Ergonomic Height-Adjustable Systems

ISO 9001: 2015 Registered
Dyna-Lift® systems provide ergonomic solutions for workstation adjustability. When employees adjust their workstation with a Dyna-Lift®, it allows them to move throughout the day, from sitting to standing, eliminating fatigue, pain, and potential injuries. Ergonomic, height-adjustable workstations provide the best posture solutions for multiple employees using the same workstation. Individual shift workers can use the same workstation and adjust it quickly to meet their specific height requirements and comfort.

Dyna-Lift® systems adjust a worktable, office furniture, lab equipment, industrial workbenches, hospital beds, assembly line fixtures, massage tables, podiums, rehabilitation tables, and so much more. Dyna-Lift® systems are sturdy and can lift up to 1,500 lbs. Manufacturing, industrial, office, and medical environments use Dyna-Lift®.

Bucher Hydraulics recognizes there is a wide variety of customer needs. Therefore, we can customize Dyna-Lift® systems to provide the smartest solution for your application.

**Dyna-Lift® Systems**

- Provide a long lasting solution
- Improve workers' productivity & comfort
- Avoid work related injuries
- Operate smoothly and quietly
- Comply with ADA and OSHA guidelines
- Install quickly
- Ship fully charged
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</tr>
</tbody>
</table>
Dyna-Lift®

Ergonomic Solutions

Standard Systems
250 lb (113 kg)/Cylinder Capacity
See pgs. 6 & 7

Heavy-Duty Systems
375 lb (170 kg)/Cylinder Capacity
See pg. 8

Internal Extrusion Mount system
Up to 250 lb (170 kg)/Cylinder Capacity
See pg. 9

External Extrusion Mount System
Up to 250 lb (170 kg)/Cylinder Capacity
See pg. 10
Cylinder Options

**Cylinder Type B2D**

<table>
<thead>
<tr>
<th>Lift Cylinder Adj. Range (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (152)</td>
<td>8.75 (222)</td>
<td></td>
</tr>
<tr>
<td>08 (203)</td>
<td>10.75 (273)</td>
<td></td>
</tr>
<tr>
<td>10 (254)</td>
<td>12.75 (324)</td>
<td></td>
</tr>
<tr>
<td>12 (305)</td>
<td>14.75 (375)</td>
<td></td>
</tr>
<tr>
<td>16 (406)</td>
<td>18.38 (476)</td>
<td></td>
</tr>
<tr>
<td>20 (508)</td>
<td>22.75 (578)*</td>
<td></td>
</tr>
</tbody>
</table>

* HD Only

**Cylinder Type D1A & 20" D1D**

<table>
<thead>
<tr>
<th>Lift Cylinder Adj. Range (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (152)</td>
<td>11.50 (292)</td>
<td>6.50 (165)</td>
</tr>
<tr>
<td>08 (203)</td>
<td>13.50 (343)</td>
<td>9.45 (240)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>15.50 (394)</td>
<td>9.45 (240)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>17.50 (445)</td>
<td>13.38 (340)</td>
</tr>
<tr>
<td>16 (406)</td>
<td>21.50 (546)</td>
<td>13.38 (340)</td>
</tr>
<tr>
<td>20 (508)</td>
<td>25.50 (648)</td>
<td>17.38 (442)*</td>
</tr>
</tbody>
</table>

* HD Only
Standard Systems (S)

Advantages
• Lifts up to 1,000 lbs. (454 kg)
• Rechargeable and fully serviceable in the field

General Description
• Complete, ready-to-install, height-adjustable system
• Choose from 1 to 8 cylinders
• Manual or electric operation
• Custom systems available

Technical Information
• System capacity:
  ° 250 lbs. (113 kg) per cylinder for Standard
  ° 1,000 lbs. (454 kg) max. total capacity on Standard
• Ambient temperature 100° F (37.8° C)
• System ships fully charged and ready-to-install
• Smooth, quiet operation
• Powder-coated housing finish

2-Post & 4-Post Pump Housing

Refer to top of pg. 5 to see End View

For “A” & “B” refer to charts top of pg. 5
Standard Manual Pump Assembly
- Retractable handle
- Five revolutions per inch travel
- 2-Post Manual System with 16-inch stroke cylinder weighs 10 lbs. (4.54 kg)
- 4-Post Manual System with 12-inch stroke cylinder weighs 27 lbs. (12.25 kg)

<table>
<thead>
<tr>
<th>Stroke (Inch)</th>
<th>&quot;A&quot; (Inch)</th>
<th>&quot;B&quot; (Inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (152)</td>
<td>11.12 (282)</td>
<td>11.96 (304)</td>
</tr>
<tr>
<td>08 (203)</td>
<td>13.15 (334)</td>
<td>13.99 (355)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>15.18 (386)</td>
<td>16.02 (407)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>17.21 (437)</td>
<td>18.05 (458)</td>
</tr>
<tr>
<td>16 (406)</td>
<td>21.28 (541)</td>
<td>22.12 (562)</td>
</tr>
</tbody>
</table>

Standard Electric Pump Assembly
- Low voltage safety switch
- Internal limit switches
- Thermal overload protection
- UL recognized CSA certified
- 6-Post Electric System with 12-inch stroke cylinder weighs 72 lbs. (32.69 kg)
- Motor speed 93 RPM
- Theoretical lift speed 16.5 inch/min. (0.275 inch/sec.)

<table>
<thead>
<tr>
<th>Stroke (Inch)</th>
<th>&quot;A&quot; (Inch)</th>
<th>&quot;B&quot; (Inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (152)</td>
<td>10.62 (270)</td>
<td>23.18 (589)</td>
</tr>
<tr>
<td>08 (203)</td>
<td>12.65 (321)</td>
<td>25.21 (640)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>14.68 (373)</td>
<td>27.24 (691)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>16.71 (424)</td>
<td>29.27 (744)</td>
</tr>
<tr>
<td>16 (406)</td>
<td>20.78 (528)</td>
<td>33.34 (847)</td>
</tr>
</tbody>
</table>
Heavy-Duty Systems (H)

Advantages
• High capacity with longer stroke
• Rechargeable and fully serviceable in the field
• 2:1 pump to cylinder ratio

General Description
• Converts fixed height structure to one with a 0-20” range of height adjustment
• Electric operation
• Retrofit & OEM applications
• Custom systems available

Technical Information
• System capacity:
  ° 375 lbs. (170 kg) per cylinder for Heavy-Duty
  ° 1,500 lbs. (680 kg) max. capacity on Heavy-Duty
• System ships fully charged and ready-to-install
• Smooth, quiet operation
• Powder-coated housing finish
• Theoretical lift speed 16.5 inch/min. (0.275 inch/sec.)

<table>
<thead>
<tr>
<th>Electric Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke Inch (mm)</td>
</tr>
<tr>
<td>06 (152)</td>
</tr>
<tr>
<td>08 (203)</td>
</tr>
<tr>
<td>10 (254)</td>
</tr>
<tr>
<td>12 (305)</td>
</tr>
<tr>
<td>20 (508)</td>
</tr>
</tbody>
</table>
Internal Extrusion Mount System

Advantages
• Internally mounted cylinder neatly hides away unwanted outside obstructions – no external hardware

General Description
• Perfect application for OEM’s and custom machine builders

Technical Information
• Adjustment ranges available in: 6”, 8”, 10”, and 12” stroke
• Lifting capacity up to 1,500 lbs. on Heavy-Duty
• Single acting cylinders, power up and gravity down
• Approximately 30 lbs. of weight per cylinder needed to retract properly
• Manual with hand crank* or electric actuation available
• Internal cylinder mount available for:
  ° 80/20 extrusions 3030
  ° 80/20 extrusions 8080

Contact Bucher North America Sales for Additional Manufacturers’ Extrusions

* Standard Only
External Extrusion Mount System

Advantages
• Universally fits many different sizes of extruded aluminum structures via T-Slot
• Easy installation as an OEM design or as an add-on retrofit to a pre-existing structure

General Description
• Retrofit the “D” style cylinder to many different size extrusions via the “L” bracket
• “L” bracket universally fits different sizes of extrusion via the T-Slot
• Tighten down bracket to T-Slot with an Allen wrench

Technical Information
• Adjustment ranges available in: 6”, 8”, 10”, 12”, 16” and 20” stroke
• Lifting capacity up to 1,500 lbs.
• Single acting cylinders, power up and gravity down
• Approximately 30 lbs. of weight per cylinder needed to retract properly
• Manual hand crank* or electric actuation available

Optional “L” Bracket easily mounts Standard & Heavy-Duty Systems for external extrusion applications.

* Standard Only
Parts & Accessories

Standard Adapters
3/8" rod x 3/8" THD CS #DC-03000
3/8" rod x 1/2" THD CS #DC-03004

Heavy-Duty Adapters
1/2" rod x 3/8" THD CS #DC-03001
1/2" rod x 1/2" THD CS #DC-03005

"L" Bracket
#DH-08000

DL Gear Motor 115 VAC
#DH-07000

3/8" CS STD Foot Glide
#DH-17200

1/2" SS HD Foot Glide
#DH-17207

STD Retractable Handle
#DH-17100

Rocker Switch
#DH-08400

Standard Recharge Kit
#DH-16000

Heavy-Duty Recharge Kit
#DH-16002

To Order Call Bucher North America Sales at +1 (616) 458-1306

Bucher Hydraulics, Inc. | 11
Quick Ship Program

Advantages
• Standard systems only
• Four (4) piece maximum order per part number
• Ships typically in 1 to 5 business days

### Standard Manual Systems

<table>
<thead>
<tr>
<th>Description</th>
<th>Model #</th>
<th>Shipping Dimensions Inch.</th>
<th>Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Cylinder, 06&quot; Stroke</td>
<td>4M-D1A-06-S</td>
<td>27x9x7</td>
<td>20</td>
</tr>
<tr>
<td>4-Cylinder, 08&quot; Stroke</td>
<td>4M-D1A-08-S</td>
<td>27x9x7</td>
<td>23</td>
</tr>
<tr>
<td>4-Cylinder, 10&quot; Stroke</td>
<td>4M-D1A-10-S</td>
<td>37x9x8</td>
<td>27</td>
</tr>
<tr>
<td>4-Cylinder, 12&quot; Stroke</td>
<td>4M-D1A-12-S</td>
<td>37x9x8</td>
<td>30</td>
</tr>
<tr>
<td>4-Cylinder, 16&quot; Stroke</td>
<td>4M-D1A-16-S</td>
<td>37x9x8</td>
<td>35</td>
</tr>
</tbody>
</table>

### Standard Electric Systems

<table>
<thead>
<tr>
<th>Description</th>
<th>Model #</th>
<th>Shipping Dimensions Inch.</th>
<th>Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Cylinder, 06&quot; Stroke</td>
<td>4E-D1A-06-S</td>
<td>37x9x8</td>
<td>35</td>
</tr>
<tr>
<td>4-Cylinder, 08&quot; Stroke</td>
<td>4E-D1A-08-S</td>
<td>37x9x8</td>
<td>37</td>
</tr>
<tr>
<td>4-Cylinder, 10&quot; Stroke</td>
<td>4E-D1A-10-S</td>
<td>37x9x8</td>
<td>40</td>
</tr>
<tr>
<td>4-Cylinder, 12&quot; Stroke</td>
<td>4E-D1A-12-S</td>
<td>37x9x8</td>
<td>42</td>
</tr>
<tr>
<td>4-Cylinder, 16&quot; Stroke</td>
<td>4E-D1A-16-S</td>
<td>44x9x8</td>
<td>48</td>
</tr>
</tbody>
</table>

### Dimensions

- **Standard Caster**
- **AC Motor**
Dimensions

Foot Glide
4-Post Standard System

3/8"-16 Thd.
(38 mm)
1.50"
(38 mm)
2.50"
(64 mm)

Retractable Folding Handle Standard w/ Manual System

2.26" (57 mm)
7.00" (178 mm)
4.52" (119 mm)
3.25" (83 mm)

Rocker Switch Housing
Standard w/ AC Electric System

.88"
(22 mm)
.75"
(19 mm)
.75"
(19 mm)
1.18"
(29 mm)
1.00"
(25 mm)
.19" Dia.
(5 mm)
2 Places

2.00"
(51 mm)
3.00"
(76 mm)

Please consult Bucher North America Sales with specific requirements.
System Selection Guide

<table>
<thead>
<tr>
<th># of Cyl.</th>
<th>Cylinder Body Type for Guided &quot;D&quot; Rod End</th>
<th>Cylinder Body Type for Unguided Rod End</th>
<th>Cylinder / Pump Fitting Type</th>
<th>Live End Rod Type</th>
<th>Cylinder Adjustment Range Inches (mm)</th>
<th>Standard or Custom</th>
<th>Optional Tubing Lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M = Manual Crank Drive</td>
<td>B = 90° Tubing Port/External Retaining Ring Mount (Cylinder Tube End)</td>
<td>1 = Straight / Straight</td>
<td>A = Straight Rod End</td>
<td>06 (156 mm)</td>
<td>S = Standard</td>
<td>Specify Tube Length from Pump to Cylinder</td>
</tr>
<tr>
<td>2</td>
<td>E = 115 VAC* (60 Hertz)</td>
<td></td>
<td>2 = 90° / Straight</td>
<td>B = Retainer Ring Rod End</td>
<td>08 (203)</td>
<td>H = Heavy-Duty 1,500 lb. Capacity</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2 = 220 VAC* (50 Hz)</td>
<td></td>
<td>3 = Straight / 90°</td>
<td>C = Clevis Rod End</td>
<td>10 (254)</td>
<td>(Manual not avail.)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>4 = 90° / 90°</td>
<td>D = Threaded Rod End</td>
<td>12 (305)</td>
<td>S62E = Standard, internal Mount, 80/20 Extrusion</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>5 = 180° / Straight</td>
<td></td>
<td>16 (406) STD Only</td>
<td>H62E = Heavy-Duty Internal Mount, 80/20 Extrusion</td>
<td>Manual not avail.</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>6 = 180° / 90°</td>
<td></td>
<td>20 (508) 4-Post HD Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>*AC motors include a rocker switch; DC motors do not.</td>
<td></td>
<td>Note: Velocity Fuses available upon request.</td>
<td>Guided “D” Rod End Options</td>
<td>Specify Tube Length from Pump to Cylinder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>D = In-line Tube Port/A-Style Cylinder Mounted Inside 1&quot; Support Sleeve, Inside 1.5&quot; x 1.5&quot; D-Shaped Housing with (4) 1/4-20&quot; Mounting Holes. Requires No External Guide Support.</td>
<td></td>
<td>A = 3/8&quot; Adapter w/ 3/8&quot; Foot Glide</td>
<td>C = 1/2&quot; Adapter w/ 1/2&quot; Caster</td>
<td>Note: Recommended Tube Length 24&quot; min. and 144&quot; max.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>E = 115 VAC* (60 Hz)</td>
<td>B = Retainer Ring Rod End</td>
<td>B = 3/8&quot; Adapter w/o Foot Glide</td>
<td>D = 1/2&quot; Adapter w/ 1/2&quot; Foot Glide</td>
<td>Cyl. #1 ______</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2 = 220 VAC* (50 Hz)</td>
<td>C = Clevis Rod End</td>
<td>C = 3/8&quot; SS Adapter, 3/8&quot; SS Foot Glide w/ SS Piston Rod</td>
<td>E = 1/2&quot; Adapter w/o Foot Glide</td>
<td>Cyl. #2 ______</td>
<td>Cyl. Standard Tube Lengths</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>D = Threaded Rod End</td>
<td></td>
<td>F = 3/8&quot; SS Adapter, 3/8&quot; SS Foot Glide w/ SS Piston Rod</td>
<td>Cyl. #3 ______</td>
<td>2 Cyl. = 96&quot;, 60&quot;</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cyl. #4 ______</td>
<td>4 Cyl. = 96&quot;, 96&quot;, 60&quot;, 60&quot;</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cyl. #5 ______</td>
<td>6 Cyl. = 120&quot;, 120&quot;, 120&quot;, 96&quot;, 96&quot;, 96&quot;</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>*AC motors include a rocker switch; DC motors do not.</td>
<td></td>
<td></td>
<td></td>
<td>Cyl. #6 ______</td>
<td>6 Cyl. = 120&quot;, 120&quot;, 120&quot;, 96&quot;, 96&quot;, 96&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Guided Unit Example: 4E-D1A-08-S

S = Standard
H = Heavy-Duty 1,500 lb. Capacity
(Manual not avail.)
S62E = Standard, internal Mount, 80/20 Extrusion
H62E = Heavy-Duty Internal Mount, 80/20 Extrusion
(Manual not avail.)

Recommended Tube Length 24" min. and 144" max.

Specify Tube Length from Pump to Cylinder

Standard Tube Lengths
2 Cyl. = 96", 60"
4 Cyl. = 96", 96", 60", 60"
6 Cyl. = 120", 120", 120", 96", 96", 96"