Find the right height for your application requirements

Ergonomic Height-Adjustable Systems

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Sales@ErgonomicPartners.com
www.ErgonomicPartners.com
Tel: (314) 884-8884

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, which eliminates 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. As companies experience turnover, Dyna-Lift® will continue to adjust to meet new employee’s height requirements without having to replace the system.

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. We can customize Dyna-Lift® systems to provide the smartest solution for your application.
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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

**Inverted Motor System**
250 lb (113 kg)/Cylinder Capacity
See pg. 9

**Internal Extrusion Mount System**
Up to 375 lb (170 kg)/Cylinder Capacity
See pg. 10

**External Extrusion Mount System**
Up to 375 lb (170 kg)/Cylinder Capacity
See pg. 11

**Telescopic Leg System**
Up to 375 lb (170 kg)/Cylinder Capacity/Column
See pgs. 12 & 13

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Pump & Cylinder Configurations

Pump Schematics

2-Post System

4-Post System
6-Post System
8-Post STD & HD, Two 4-Post Systems

6-Post System
STD Only

Cylinder Options

<table>
<thead>
<tr>
<th>Cylinder Type A1A</th>
<th>Lift Cylinder Adj. Range (Inch (mm))</th>
<th>&quot;A&quot; Length Inch (mm)</th>
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<tbody>
<tr>
<td>6 (152)</td>
<td>8.38 (213)</td>
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<td>8 (203)</td>
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<td>10 (254)</td>
<td>12.38 (314)</td>
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<td>12 (305)</td>
<td>14.38 (365)</td>
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<tr>
<td>16 (406)</td>
<td>18.38 (467)</td>
<td></td>
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<td>20 (508)</td>
<td>22.38 (568)</td>
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</table>

<table>
<thead>
<tr>
<th>Cylinder Type B2D</th>
<th>Lift Cylinder Adj. Range (Inch (mm))</th>
<th>&quot;A&quot; Length Inch (mm)</th>
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<tbody>
<tr>
<td>6 (152)</td>
<td>8.75 (222)</td>
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</tr>
<tr>
<td>8 (203)</td>
<td>10.75 (273)</td>
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</tr>
<tr>
<td>10 (254)</td>
<td>12.75 (324)</td>
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<tr>
<td>12 (305)</td>
<td>14.75 (375)</td>
<td></td>
</tr>
<tr>
<td>16 (406)</td>
<td>18.75 (476)</td>
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<td>20 (508)</td>
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<table>
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<th>Cylinder Type C1C</th>
<th>Lift Cylinder Adj. Range (Inch (mm))</th>
<th>&quot;A&quot; Length Inch (mm)</th>
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</thead>
<tbody>
<tr>
<td>6 (152)</td>
<td>8.88 (226)</td>
<td></td>
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<td>8 (203)</td>
<td>10.88 (276)</td>
<td></td>
</tr>
<tr>
<td>10 (254)</td>
<td>12.88 (327)</td>
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<td>12 (305)</td>
<td>14.88 (378)</td>
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<tr>
<td>16 (406)</td>
<td>18.88 (480)</td>
<td></td>
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<td>20 (508)</td>
<td>23.25 (591)</td>
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</table>

<table>
<thead>
<tr>
<th>Cylinder Type D1A &amp; 20&quot; D1D</th>
<th>Lift Cylinder Adj. Range (Inch (mm))</th>
<th>&quot;A&quot; Length Inch (mm)</th>
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<td>6 (152)</td>
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<td>13.50 (343)</td>
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<td>10 (254)</td>
<td>15.50 (394)</td>
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<td>12 (305)</td>
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<tr>
<td>20 (508)</td>
<td>25.50 (648)</td>
<td></td>
</tr>
</tbody>
</table>

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Bucher Hydraulics, Inc. | 5
Dyna-Lift®

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
• System ships fully charged and ready-to-install
• Smooth, quiet operation
• Highly refined white hydraulic fluid
• Powder-coated housing finish

For “A” & “B” refer to charts on pg. 7
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)

### Standard Manual Specifications

<table>
<thead>
<tr>
<th>Stroke Inch (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 (152)</td>
<td>11.12 (282)</td>
<td>11.96 (304)</td>
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<tr>
<td>8 (203)</td>
<td>13.15 (334)</td>
<td>13.99 (355)</td>
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<tr>
<td>10 (254)</td>
<td>15.18 (386)</td>
<td>16.02 (407)</td>
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<tr>
<td>12 (305)</td>
<td>17.21 (437)</td>
<td>18.05 (458)</td>
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<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)

### Standard Electric Specifications

<table>
<thead>
<tr>
<th>Stroke Inch (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm)</th>
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</thead>
<tbody>
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<td>6 (152)</td>
<td>10.62 (270)</td>
<td>23.18 (589)</td>
</tr>
<tr>
<td>8 (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>
Dyna-Lift®

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
• Manual or 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 must be guided
• System ships fully charged and ready-to-install
• Smooth, quiet operation
• Highly refined white hydraulic fluid
• Powder-coated housing finish

Manual Specifications
<table>
<thead>
<tr>
<th>Stroke</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch (mm)</td>
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<td>19.80 (503)</td>
<td>24.97 (634)</td>
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<td>19.80 (503)</td>
<td>24.97 (634)</td>
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<tr>
<td>20 (508)</td>
<td>27.92 (709)</td>
<td>33.09 (804)</td>
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</table>

Electric Specifications
<table>
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<th>Stroke</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch (mm)</td>
<td>Inch (mm)</td>
<td>Inch (mm)</td>
</tr>
<tr>
<td>6 (152)</td>
<td>14.65 (372)</td>
<td>28.48 (723)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>14.65 (372)</td>
<td>28.48 (723)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>18.71 (475)</td>
<td>32.54 (827)</td>
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<tr>
<td>12 (305)</td>
<td>18.71 (475)</td>
<td>32.54 (827)</td>
</tr>
<tr>
<td>20 (508)</td>
<td>26.85 (682)</td>
<td>40.35 (1025)</td>
</tr>
</tbody>
</table>
Inverted Motor System (INV)

Advantages
- Ideal where space is limited
- 6-1/8 inches shorter overall length than Standard
- Same cylinder configurations available as Standard

General Description
- 4-cylinder configuration
- Inverted motor
- Short pump

Technical Information
- Extruded aluminum
- Adjustment ranges available: 6", 8", 10", 12", 16"
- Lifting capacity: 1,000 lbs. (454 kg)
- Lifting capacity per cylinder: 250 lbs. (113 kg)
- Electric actuation only
- 4-Cylinder only

Inverted Motor Specifications

<table>
<thead>
<tr>
<th>Stroke Inch (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 (152)</td>
<td>17.06 (433)</td>
<td>11.73 (298)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>19.09 (485)</td>
<td>13.77 (350)</td>
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<tr>
<td>10 (254)</td>
<td>21.13 (537)</td>
<td>15.80 (401)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>23.16 (588)</td>
<td>17.83 (453)</td>
</tr>
<tr>
<td>16 (406)</td>
<td>27.23 (692)</td>
<td>21.90 (556)</td>
</tr>
</tbody>
</table>
**Dyna-Lift®**

**Internal Extrusion Mount System (S6... & H6...)**

**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
  - Bosch extrusions 80mm
  - Bosch extrusions 90mm

**Contact Bucher Sales for Additional Manufacturers’ Extrusions**

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**Internal Extrusion Mount Leg**

- Customer Supplied Extrusion
- Lift Cylinder Assembly Standard or Heavy-Duty
- Retaining Ring
- Internal Housing Assembly Contains Support Tube and Lift Cylinder
- Internal Cylinder Mounting Plate
- Customer Supplied 5/16”-18 Socket Head Cap Screws
- OR 1/2”-13 Socket Head Cap Screws Depending on Extrusion 4X
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

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

"L" Bracket

External Extrusion Mount Leg

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Dyna-Lift®

Telescopic Leg Systems (T/T12)

Advantages
• Provides optimum form & function
• Easy-to-clean, smooth, extrusion surface - just hose down
• Steady, quiet, height adjustability
• OEMs integrate columns into custom applications

General Description
• Two-piece anodized aluminum extrusions
• Easy and quick installation

Technical Information
• Extruded aluminum with clear matte anodized finish
• Standard column height is 24” (610 mm); maximum adjustment range is 12” (305 mm)
• System height fully retracted is 24” (610 mm)
• System height fully extended is 36” (914 mm)
• For additional column heights and available stokes, please contact Bucher Sales at +1 (616) 458-1306
• System capacity:
  ° 250 lbs. (113 kg) or 375 lbs. (170 kg) per column
  ° 500 lbs. (227 kg) per set of two columns
  ° 750 lbs. (340 kg) per set of two columns for HD
• Designed to be used with B1C cylinders
• Manual (hand crank) or electric actuation

Telescopic Leg Specifications

<table>
<thead>
<tr>
<th>Stroke Inch (mm)</th>
<th>&quot;A&quot; Inch (mm)</th>
<th>&quot;B&quot; Inch (mm) Fully Retracted</th>
<th>&quot;B&quot; Inch (mm) Fully Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (305)</td>
<td>24 (60)</td>
<td>24 (610)</td>
<td>36 (915)</td>
</tr>
</tbody>
</table>
Interior View

Exterior View

Internal View

* Optional spare parts not included. See pgs. 18 & 19.

**Customer Supplied 5/16"-18 Self-Tapping Screw**

**Retaining Ring Included: DH-05108**

**Lift Cylinder Included**

**Spring Pin Included: DH-06002**

**Support Block Included**

**Telescopic Leg Assembly Included**

**Table Foot: DH-07010**

**Table Mounting Rail: DH-07069**

Mounting Hole for 5/16"-18 Self Tapping Screw

Slot for 1/4" Hex Head Bolt For Mounting Cross member

7.68" (195 mm)

5.12" (130 mm)

4.35" (110 mm)

1.73" (43 mm)

1.35" (34 mm)

8.46" (164 mm)

7.36" (187 mm)

6.46" (164 mm)

7.36" (187 mm)

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Bucher Hydraulics, Inc. | 13
Dyna-Lift®
System Selection Guide

Ex. 4E-D1A-12-S

<table>
<thead>
<tr>
<th># of Cyl.</th>
<th>Actuator Type</th>
<th>Cylinder Body Type</th>
<th>Cylinder / Pump Fitting Type</th>
<th>Live End Rod Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>M = Manual Crank Drive</td>
<td>A = Inline Tubing Port/External Retaining Ring Mount (Cylinder Tube End)</td>
<td>1 = Straight / Straight</td>
<td>Guided “D” Rod End Options</td>
</tr>
<tr>
<td>2</td>
<td>N = No Motor / Handle</td>
<td>B = 90° Tubing Port/External Retaining Ring Mount (Cylinder Tube End)</td>
<td>2 = 90° / Straight</td>
<td>A = 3/8” Adapter w/ 3/8” Foot Glide</td>
</tr>
<tr>
<td>3</td>
<td>E = 115 VAC* (60 Hertz)</td>
<td>C = 90° Tubing Port/External Clevis Mount (Cylinder Tube End)</td>
<td>3 = Straight / 90°</td>
<td>B = 3/8” Adapter w/o Foot Glide</td>
</tr>
<tr>
<td>4</td>
<td>2 = 220 VAC* (50 Hertz)</td>
<td>D = Inline Tube Port/A-Style Cylinder Mounted Inside 1” Support Sleeve, Inside 1.5” x 1.5” D-Shaped Housing with (4) 1/4-20” Mounting Holes. Requires No External Guide Support.</td>
<td>4 = 90° / 90°</td>
<td>C = 1/2” Adapter w/ 1/2° Caster</td>
</tr>
<tr>
<td>5</td>
<td>3 = 12 VDC</td>
<td>(See pg. 5 for typical cylinder configurations)</td>
<td>5 = 180° / Straight</td>
<td>D = 1/2” Adapter w/ 1/2° Foot Glide</td>
</tr>
<tr>
<td>6</td>
<td>4 = 24 VDC</td>
<td>E = Internal Mount Other</td>
<td>6 = 180° / 90°</td>
<td>E = 1/2” Adapter w/o Foot Glide</td>
</tr>
<tr>
<td>8</td>
<td>5 = 115 VAC* High Speed</td>
<td>3 = Internal Mount for 3” x 3” Extrusion with 1” Support Sleeve, Foot Glide, Internal Bushing and End Cap</td>
<td>F = 3/8” SS Adapter, 3/8” SS Foot Glide w/ SS Piston Rod</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P = Programmable Switch</td>
<td>8 = Internal Mount for 80 mm x 80 mm Extrusion with 1” Support Sleeve, Foot Glide, Internal Bushing and End Cap</td>
<td>G = 1/2” SS Adapter, 1/2” SS Foot Glide w/ SS Piston Rod</td>
<td></td>
</tr>
</tbody>
</table>

Guided “D” Rod End Options

- A = 3/8” Adapter w/ 3/8” Foot Glide
- B = 3/8” Adapter w/o Foot Glide
- C = 1/2” Adapter w/ 1/2° Caster
- D = 1/2” Adapter w/ 1/2° Foot Glide
- E = 1/2” Adapter w/o Foot Glide
- F = 3/8” SS Adapter, 3/8” SS Foot Glide w/ SS Piston Rod
- G = 1/2” SS Adapter, 1/2” SS Foot Glide w/ SS Piston Rod

Un-guided Rod End Options

- A = Straight Rod End
- B = Retainer Ring Rod End
- C = Clevis Rod End
- D = Threaded Rod End

*AC motors include a rocker switch; DC motors do not.
### Cylinder Adjustment Range Inches (mm)

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 (156)</td>
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<tr>
<td>08 (203)</td>
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</tr>
<tr>
<td>10 (254)</td>
<td>Standard or Custom</td>
</tr>
<tr>
<td>12 (305)</td>
<td>Heavy-Duty 1,500 lb. Capacity</td>
</tr>
<tr>
<td>16 (406)</td>
<td>Telescopic Leg System (w/ B1C Leg Cylinder only)</td>
</tr>
<tr>
<td>20 (508)</td>
<td>Telescopic Leg System (w/ mounting rails and feet)</td>
</tr>
<tr>
<td><strong>STD Only</strong></td>
<td>Mobile Battery Operated</td>
</tr>
<tr>
<td><strong>4-Post HD Only</strong></td>
<td>Inverted Motor + Pump System (Electric Actuation only)</td>
</tr>
</tbody>
</table>

### Standard or Custom

- S = Standard
- H = Heavy-Duty 1,500 lb. Capacity
- T = Telescopic Leg System (w/ B1C Leg Cylinder only)
- T12 = Telescopic Leg System (w/ mounting rails and feet)
- M = Mobile Battery Operated
- INV = Inverted Motor + Pump System (Electric Actuation only)
- S62B = Standard, Internal Mount, Bosch Extrusion
- S62E = Standard, Internal Mount, 80/20 Extrusion
- H62B = Heavy-Duty, Internal Mount, Bosch Extrusion
- H62E = Heavy-Duty, Internal Mount, 80/20 Extrusion

### Optional Tubing Lengths

Specify Tube Length from Pump to Cylinder

Cyl. # 1 ______
Cyl. # 2 ______
Cyl. # 3 ______
Cyl. # 4 ______
Cyl. # 5 ______
Cyl. # 6 ______

**Example Tube Lengths**

- 2 cyl. = 96”.60”
- 4 cyl. = 96”.96”.96”.60”
- 6 cyl. = 120”.120”.96”.96”.96”

Max. Recommended Tube Length is 144”
Dyna-Lift®

Quick Ship Program

**Advantages**
- Standard systems
- Ships typically in 1 to 5 business days

<table>
<thead>
<tr>
<th>Standard Manual Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
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<tr>
<td>4-Cylinder, 06&quot; Stroke</td>
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<tr>
<td>4-Cylinder, 08&quot; Stroke</td>
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<tr>
<td>4-Cylinder, 10&quot; Stroke</td>
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<tr>
<td>4-Cylinder, 12&quot; Stroke</td>
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<tr>
<td>4-Cylinder, 16&quot; Stroke</td>
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<table>
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<th>Standard Electric Systems</th>
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<tbody>
<tr>
<td>Description</td>
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<tr>
<td>4-Cylinder, 06&quot; Stroke</td>
</tr>
<tr>
<td>4-Cylinder, 08&quot; Stroke</td>
</tr>
<tr>
<td>4-Cylinder, 10&quot; Stroke</td>
</tr>
<tr>
<td>4-Cylinder, 12&quot; Stroke</td>
</tr>
<tr>
<td>4-Cylinder, 16&quot; Stroke</td>
</tr>
</tbody>
</table>

**Dimensions**

**Standard Caster**

**Heavy-Duty Caster**

**AC Motor**

**Foot Glide 4-Post Standard System**
Dimensions

Rocker Switch Housing
Standard w/ AC Electric System

Foot Pedal Option w/ Electric System

Retractable Folding Handle
Standard w/ Manual System

Programmable Switch Designated Motors Only

Please consult Bucher Sales with specific requirements.
Dyna-Lift®

Parts & Accessories

DL Gear Motor 115 VAC
#DH-07000

DL Gear Motor 24 VDC
#DH-07005

Standard Caster
#DH-17203

Heavy-Duty Caster
#DH-17206

3/8” rod x 3/8” THD CS #DC-03000
3/8” rod x 3/8” THD SS #DC-03002
3/8” rod x 1/2” THD CS #DC-03004
3/8” rod x 1/2” THD SS #DC-03006

1/2” rod x 3/8” THD CS #DC-03001
1/2” rod x 3/8” THD SS #DC-03003
1/2” rod x 1/2” THD CS #DC-03005
1/2” rod x 1/2” THD SS #DC-03012

3/8” CS STD Foot Glide
#DH-17200

3/8” SS STD Foot Glide
#DH-17208

1/2” CS HD Foot Glide
#DH-17202

1/2” SS HD Foot Glide
#DH-17207

Standard Adapters

SAE Straight Fitting
STD #DH-04111
HD #DH-04113

SAE 90° Fitting
STD #DH-04202
HD #DH-04203

NPT Straight Fitting
STD #DH-04100
HD #DH-04101

NPT 90° Fitting
STD #DH-04200
HD #DH-04201
Parts & Accessories

180° Standard Fitting
#DH-04110

180° Heavy-Duty Fitting
#DH-04112

"L" Bracket
#DH-08000

Heavy-Duty Handle
#DH-06517

STD Retractable Handle
#DH-17100

Programmable Switch
Designated Motors Only
#DH-08414

Foot Pedal
#DH-08405

Rocker Switch
#DH-08400

T.L.A Column
Contact Bucher Sales

Standard Recharge Kit
#DH-16000

Heavy-Duty Recharge Kit
#DH-16002

Friction Modifier Kit
#DH-16001

Seal Kits 2- & 4-Post
#DH-16100
#DH-16101

Fill & Plug Pump
#DP-10010

Power Cords
230 VAC #DH-08419
115 VAC #DH-08420

STD & HD Tubing
STD #DH-04600
HD #DH-04650