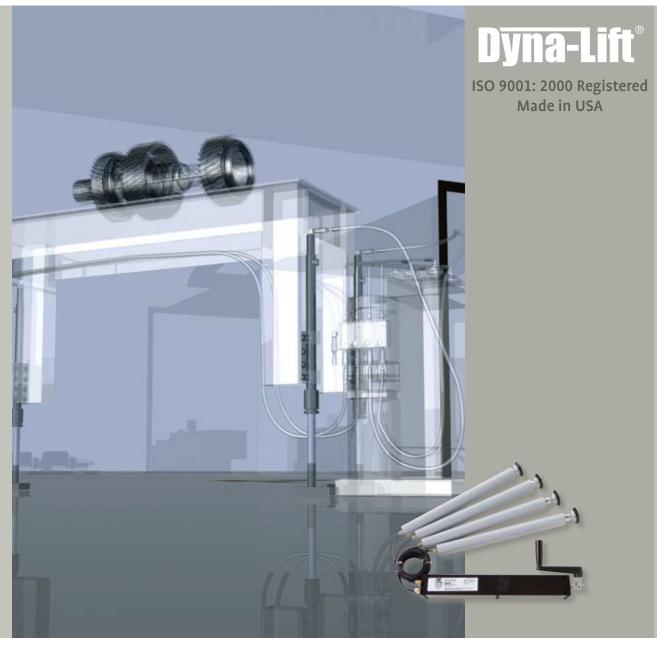


Find the right height for your application requirements

Ergonomic Height Adjustable Systems



motion and progress

Innovation and High Performance

- In-house research and development and dedicated production facilities utilizing the latest technologies
- Expertise and competence in products and applications
- Optimized solutions for the customer
- High quality standards
- High degree of supply, reliability and service

We set the table for your requirements

Ergonomic, height-adjustable workbenches are quickly becoming the standard in industry. And as more people demand height-adjustability, Dyna-Lift is the standard for delivering it.

But it doesn't stop there. Dyna-Lift is available at three levels - Dyna-Lift, Intermediate Dyna-Lift and Super Dyna-Lift - with capabilities ranging anywhere from a few hundred pounds to 20,000 pounds.

In addition to work tables, other common applications include office furniture, hospital beds, assembly line fixtures, rehabilitation tables. Less conventional applications have included casket lifts, massage table lifts and lectern/podium lifts.

We have developed Dyna-Lift applications for many light and heavy industrial, office and medical applications, including a successful product to help Boeing make the production of airplane wings height-adjustable for workers.

Every customer has a special, unique need that they use Dyna-Lift to satisfy. This is why Bucher Hydraulics excels at a timely response, outstanding research of our clients' needs, engineering of the right applications and ultimately the best solution for each situation.



Dyna-Lift° Manual, Electric and Multi-Post Units

General Description

- Complete ready-to-install Height Adjustable System
- Choose from 1 6 Cylinders
- Manual or Electric Operation
- Custom Systems Available

Technical Information

- System Capacity:
 250 lbs. (113 kg) per Cylinder
 1000 lbs. (450 kg) max. capacity on all Base Dyna-Lifts
 1500 lbs. (680 kg) maximum capacity on Heavy Duty Dyna-Lift Systems
- Weight: Typical 2 Post Manual Unit with 16 Inch Stroke Cylinder:
 - 10 Pounds (4.54 kg)
 - Typical 4 Post Manual Unit with 12 Inch Stroke Cylinder: 27 Pounds (12.25 kg)
 - Typical 6 Post Electric Unit with 12 Inch Stroke Cylinder: 72 Pounds (32.69 kg)
- System Must Be Guided
- System Ships Fully Charged and Ready-to-Install
- Smooth, Quiet Operation
- Flexible Tubing: 1" Bend Radius
- Highly Refined White Hydraulic Fluid
- Units are Rechargeable and Fully Serviceable in the Field
- Powder Coated Housing Finish

• Manual Unit:

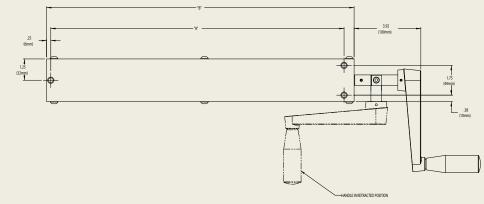
- Five Revolutions Per Inch Travel
- Retractable Handle (Standard)

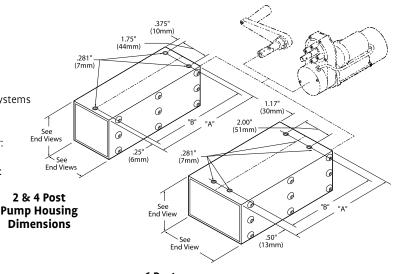
• Electric Unit:

- 87 RPM
- Internal Limit Switches
- Thermal Overload Protection
- UL Recognized CSA Certified
- 12 VDC Switch. 30mA in Operation

Typical 4 Post Manual Pump Assembly

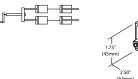
4 Post Manual					
Stroke	"A" Dimension	"B" Dimension			
6 (152)	11.12 (282 mm)	11.96 (304 mm)			
8 (203)	13.15 (334 mm)	13.99 (355 mm)			
10 (254)	15.18 (386 mm)	16.02 (407 mm)			
12 (305)	17.21 (437 mm)	18.05 (458 mm)			
14 (356)	19.24 (489 mm)	20.08 (510 mm)			
16 (406)	21.28 (541 mm)	22.12 (562 mm)			

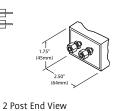


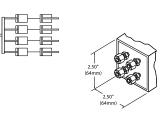


6 Post Pump Housing Dimensions

2 Post System Schematic



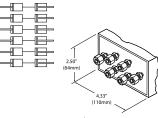




4 Post System Schematic

4 Post End View

6 Post System Schematic

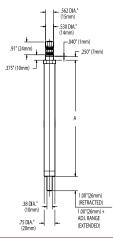


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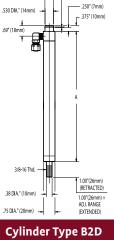
6 Post End View

2 Post Pump Housing			4 Post Pump Housing			6 Post Pump Housing		
Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)	B Length IN (mm)	Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)	B Length IN (mm)	Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)	B Length IN (mm)
6 (152)	11.96 (304)	11.12 (283)	6 (152)	11.96 (304)	11.12 (283)	6 (152)	12.15 (309)	11.40 (290)
8 (203)	13.99 (355)	13.15 (334)	8 (203)	13.99 (355)	13.15 (334)	8 (203)	14.18 (360)	13.43 (341)
10 (254)	16.02 (407)	15.18 (386)	10 (254)	16.02 (407)	15.18 (386)	10 (254)	16.21 (412)	15.48 (393)
12 (305)	18.05 (458)	17.21 (438)	12 (305)	18.05 (458)	17.21 (438)	12 (305)	18.24 (463)	17.49 (444)
14 (356)	20.08 (510)	19.24 (489)	14 (356)	20.08 (510)	19.24 (489)	14 (356)	20.27 (515)	19.52 (496)
16 (406)	22.12 (562)	21.28 (541)	16 (406)	22.12 (562)	21.28 (541)	16 (406)	22.31 (567)	21.56 (548)

Typical Cylinder Configurations



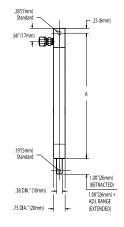
.75 DIA." (20mm)	(EXTENDED)					
Cylinder Type A1A						
Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)					
6 (152)	8.38 (213)					
8 (203)	10.38 (264)					
10 (254)	12.38 (314)					
12 (305)	14.38 (365)					
14 (356)	16.38 (416)					
16 (406)	18.38 (467)					



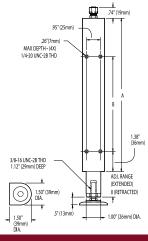
.040" (1mm)

.562 DIA." (15mm)

Cylinder Type B2D					
Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)				
6 (152)	8.75 (222)				
8 (203)	10.75 (273)				
10 (254)	12.75 (324)				
12 (305)	14.75 (375)				
14 (356)	16.75 (425)				
16 (406)	18.75 (476)				



Cylinder Type C1C				
Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)			
6 (152)	8.88 (226)			
8 (203)	10.88 (276)			
10 (254)	12.88 (327)			
12 (305)	14.88 (378)			
14 (356)	16.88 (429)			
16 (406)	18.88 (480)			



Cylinder Type D1A					
Lift Cylinder Adj. Range IN (mm)	A Length IN (mm)	B Length IN (mm)			
6 (152)	11.50 (292)	6.50 (165)			
8 (203)	13.50 (343)	9.45 (240)			
10 (254)	15.50 (394)	9.45 (240)			
12 (305)	17.50 (445)	13.38 (340)			
14 (356)	19.50 (495)	13.38 (340)			
16 (406)	21.50 (546)	13.38 (340)			

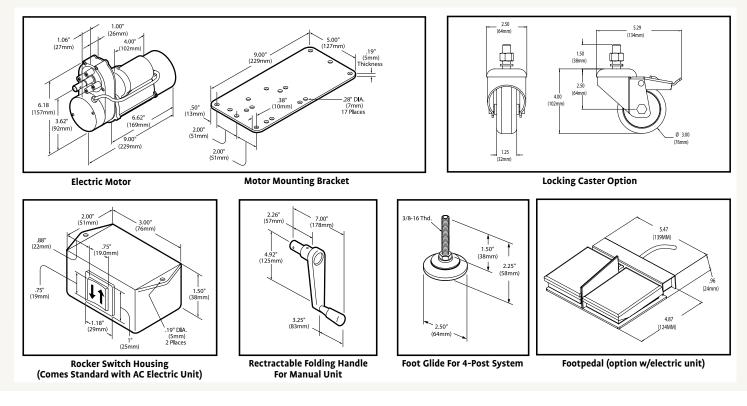
		-		
of Cylinders	Actuator Type	Cylinder Bod	у Туре	Cylinder/Pump Fitting Type
1 2 3 4 5 6	M = Manual Crank Drive N = No motor / handle E = 115 V AC (60 Hertz) 2 = 220 V AC (50 Hertz) 3 = 12 V DC 4 = 24 V DC 5 = 115 V AC High speed (AC motors include a rocker switch. DC motors do not.)	Fitting Port Location Retaining Ring Groove Fitting Port Location (at 30) \bigcirc $C =$ Fitting Port Location (at 30) \bigcirc $C =$ Fitting Port Location (blue) 1° Shape Extrusion 1° Shape Extrusion 1° Shape $D =$ 2 =	In Line Tubing Port/ External Retaining Ring Mount (Cylinder Tube End) 90° Tubing Port/ External Retaining Ring Mount (Cylinder Tube End) 90° Tubing Port/ External Clevis Mount (Cylinder Tube End) 90° Tubing Port/ External Clevis Mount (Cylinder 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. (see page 5 for typical co Internal Mount for 2" x 2" Extrusion with Sleeve, Foot Glide, Inter	 □ = Straight / straight □ 2 = 90° / straight □ 3 = Straight / 90° □ 4 = 90° / 90° □ 1 5 = 180° / straight □ 1 5 = 180° / 90° ○ 1 80° / 90°
	Electric Pump Assembly 4 Post Electric	u ∎ 1 3 =	& End Cap Internal Mount for 3" > with 1" Support Sleev Internal Bushing & End	e, Foot Glide,
Stroke 6 8 10 12 14	"A" Dimension "B" Dimension 10.62 (270 mm) 23.18 (589 mm) 12.65 (321 mm) 25.21 (640 mm) 14.68 (373 mm) 27.24 (691 mm) 16.71 (424 mm) 29.27 (744 mm) 18.74 (476 mm) 31.30 (795 mm) 20.78 (528 mm) 33.34 (847 mm)	9=	Internal Bushing & End Internal Mount for 90 Extrusion with 1" Supp Foot Glide, Internal Bu (see page 9 for internal	mm x 90 mm port Sleeve, shing & End Cap
8.25 (210mm)	© © 3.88 (99mm) 			

		- 🗆	
Live End Rod Type	Cylinder Adjustment Range Inches (mm)	Standard or Custom	Tubing Lenghts
 A =Straight Rod End B = Retainer Ring Rod End C = Clevis Rod End D = Threaded Rod End D Style Rod Type Options A = 3/8" Adapter with 3/8" For 	06 (156) 08 (203) 10 (254) 12 (305) 14 (356) 16 (406) ot Glide 20 (508) ** 4 Post	S = Standard H = Heavy Duty 1500 lb. capacity T = Telescopic Leg Assembly (TLA) (W BIC Style leg cylinder only.) t Units Only **	Custom Flexible Tubing Lengths Required From Pump Unit To Each Cylinder Cyl # 1 Cyl # 2 Cyl # 3 Cyl # 3 Cyl # 4 Cyl # 5 Cyl # 6
 B = 3/8" Adapter without Foot C = 1/2" Adapter with 1/2" Ca D = 1/2" Adapter with 1/2" Fo E = 1/2" Adapter without Foot F = 3/8" SS Adapter, 3/8" SS Foot (for clean room and wash of G = 1/2" SS Adapter, 1/2" SS Foot 	ster ot Glide Glide oot Glide with SS Piston Rod down environments)		Standard Tube Lengths 2 cyl. 96"-60" 4 cyl. 96"-96"-60"-60" 6 cyl. 120"-120"-120"-96"-96" Max. Recommended Tube Length is 12'

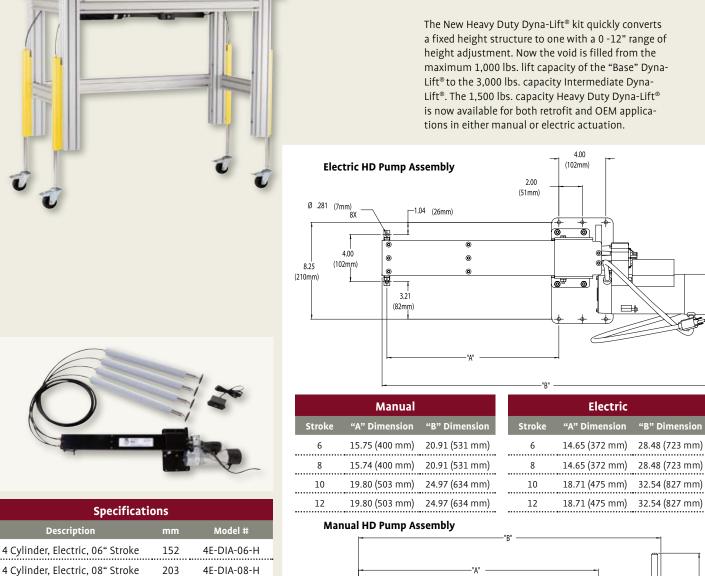
Parts and Accessories

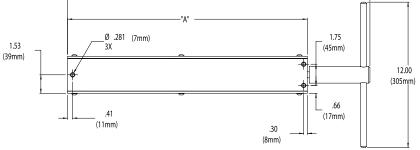
The following components can be ordered separately should modifications be needed in the field. Please consult our factory for any specific requirements you may have prior to shipment.

(for clean room and wash down environments)



Heavy Duty Dyna-Lift[®] Dyna-Lift 1,500 lbs. (680 kg) Capacity





Height adjustability in minutes with an Easy-to-Install Heavy Duty Dyna-Lift[®] kit.

4 Cylinder, Electric, 08" Stroke

4 Cylinder, Electric, 10" Stroke

4 Cylinder, Electric, 12" Stroke

4 Cylinder, Manual, 06" Stroke

4 Cylinder, Manual, 08" Stroke

4 Cylinder, Manual, 10" Stroke

4 Cylinder, Manual, 12" Stroke

203

254

305

152

203

254

305

(Also Available in 20" or 508 mm Stroke)

4E-DIA-10-H

4E-DIA-12-H

4M-DIA-06-H

4M-DIA-08-H

4M-DIA-10-H

4M-DIA-12-H

Dyna-Lift[®] Internal & External Aluminum Extrusion Mount

Raise or Lower your Structures with an Easy-to-Install Dyna-Lift[®] System



External Leg Assembly

- Retrofit the "D" style cylinder to many different size extrusions via the Dyna-Lift "L" Bracket.
- Dyna-Lift "L" Bracket universally fits different sizes of extrusion via the T-Slot.
- Simply tighten down Bracket to T-Slot with an allen wrench.



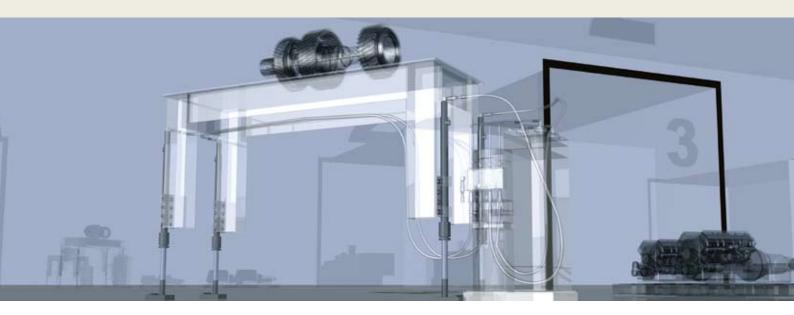
Internal Leg Assembly

• Internal cylinder mount available for 2" x 2" and 3" x 3" extrusions.





Internal Mount



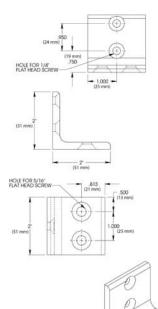
Technical Information

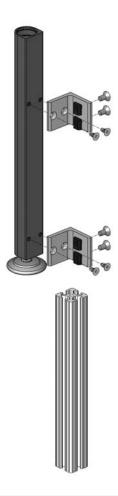
- Adjustment ranges available in: 6", 8", 10", 12", 14" and 16" stroke.
- Lifting capacities up to 1,500 lbs. (with a Heavy Duty Dyna-Lift).
- Single acting cylinders, power up and gravity down. Approximately 20 lbs. of weight per cylinder needed to retract properly.
- Manual (hand crank) or electric actuation available.

External Leg Assembly

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-exisiting structure.

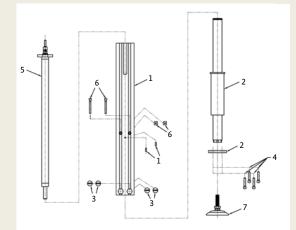




Internal Leg Assembly

Advantages

- Easily mounts inside most 2" x 2" and 3" x 3" extruded aluminum structures.
- Internally mounted cylinder neatly hides away unwanted outside obstructions.
- Perfect application for OEM's and custom machine builders.



Assembly Instructions

(typical 2"x2" internal mount)

- 1. Drive the dowel pins into the #31 drilled holes in extrusion until flush.
- Slide the end bracket over the support sub assembly so that the counter bore of the bracket mates with the lip on the housing.
- 3. Insert the support sub assembly with end bracket into the extrusion at the end machined for the butt fasteners.
- 4. Attach the support sub assembly to the extrusion with the #10-32 cap screws and butt fasteners.
- Slide the cylinder sub assembly into the slotted end of the extrusion until the cylinder stop hits the dowel pins.
- 6. Slide the #8-32 cap screws thru the counter bored holes in the extrusion and secure with the t-nuts.7. Thread the adjustable glide into the foot.
- The leg is now ready for table mounting.

Description	mm	Model #	Description	mm	Model #
Four Cylinder, Manual, 06" Stroke	152	4M-A1A-06-INT	Four Cylinder, Electric, 06" Stroke	152	4E-A1A-06-INT
Four Cylinder, Manual, 08" Stroke	203	4M-A1A-08-INT	Four Cylinder, Electric, 08" Stroke	203	4E-A1A-08-INT
Four Cylinder, Manual, 10" Stroke	254	4M-A1A-10-INT	Four Cylinder, Electric, 10" Stroke	254	4E-A1A-10-INT
Four Cylinder, Manual, 12" Stroke	305	4M-A1A-12-INT	Four Cylinder, Electric, 12" Stroke	305	4E-A1A-12-INT
Four Cylinder, Manual, 14" Stroke	356	4M-A1A-14-INT	Four Cylinder, Electric, 14" Stroke	356	4E-A1A-14-INT
Four Cylinder, Manual, 16" Stroke	406	4M-A1A-16-INT	Four Cylinder, Electric, 16" Stroke	406	4E-A1A-16-INT

Telescopic Leg Assembly (T.L.A.)

Specifically designed to provide optimum form and function for industry specific ergonomic height adjustable needs. The two piece anodized aluminum extrusions were designed to work in tandem with each other to provide smooth, quiet, rigid height adjustability regardless of off-center or cantilever loads.

The T.L.A. System allows Original Equipment Manufacturers to easily integrate the columns into custom applications. Simply bolt on your top and bottom frame with cross member, then add your table top. The T.L.A. System offers the perfect height adjustable solution for your ergonomic OEM design.



Exterior view

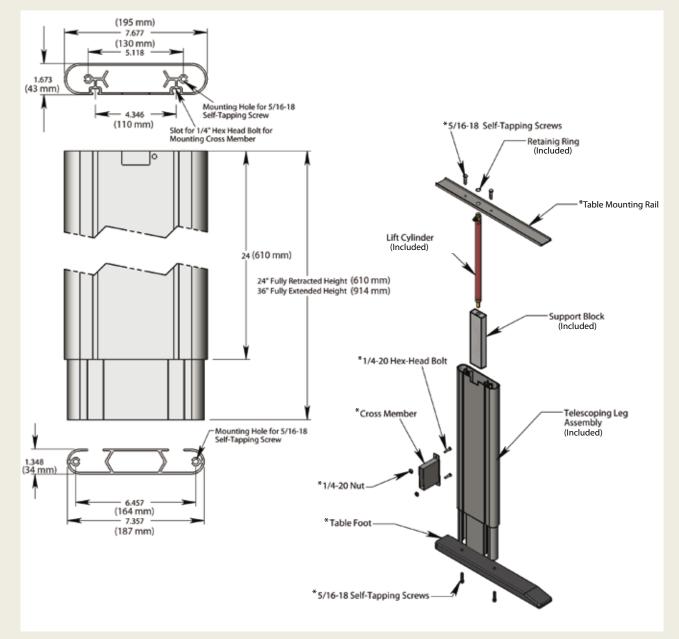
Interior view





Technical Information

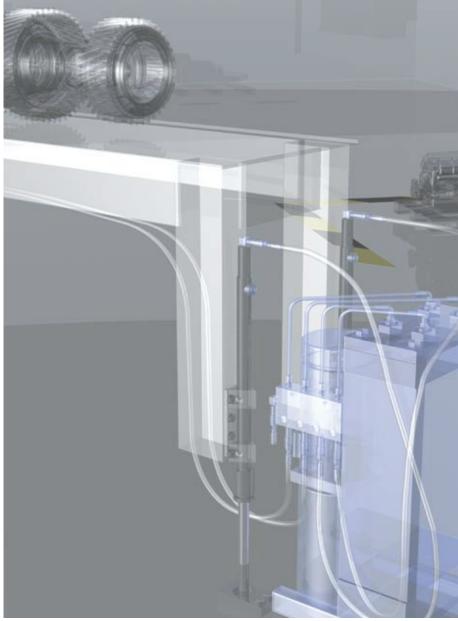
- Materials: extruded aluminum with clear matte anodized finish
- Adjustment range: 12" (305mm)
- 24" (610mm) fully retracted 36" (914mm) fully extended
- Capacity: 250 lbs. per column 500 lbs. per set of 2 columns
- Multiple columns available
- Designed to be used with B1C cylinders
- Manual (hand crank) or electric actuation



* Items above with an asterisk are not included with the T.L.A. Assembly

Description	mm	Model #
Two Cylinder, Manual, 12" Stroke	305	2M-B1C-12-T
Two Cylinder, Electric, 12" Stroke	305	2E-B1C-12-T





Bucher Hydraulics info@bucherhydraulics.com

For further information visit us at: www.bucherhydraulics.com or www.dynalift.com