

# CL Challenger Lifts



**Model#: CLHM-135**

Wireless / Battery Powered  
Mobile Column Lifting System  
13,500 lb. per column lifting capacity



**Model#: CLHM-180W**

Wireless / Battery Powered  
Mobile Column Lifting System  
18,000 lb. per column lifting capacity



**CLHMseries**  
*Mobile Column Lifting System*

**mobile HD**  
HEAVY-DUTY LIFTING SOLUTIONS

Our Heavy-Duty mobile lifting system along with optional sets of accessory support stands will accommodate multiple bays with one lift system. Robust yet easily maneuverable mobile columns can be operated on almost any solid surface, in-doors or out.

Challenger mobile lifts provide the flexibility and convenience to lift any rubber tired vehicle, from small passenger cars to the largest two, three or four axle vehicles up to 148,000 pounds, without taking up an entire bay. Our Heavy-Duty mobile lifts are also capable of lifting vehicles of any axle length or wheelbase.

Models are available in 13,500, 18,000 or 18,500 lb. capacity columns, wireless, battery, and hydraulic operated with adjustable carriages.

## Features & Benefits:

- Hydraulic operated units provide lifting capacity from 27,000 (set of 2) to 148,000 lbs. (set of 8) enabling lifting from small passenger cars to heavy-duty trucks, transit, and municipality vehicles
- 110 volt built in multi-stage charging system
- Wireless system for clutter free work area without cables to connect, navigate around, roll-over or replace
- Adjustable carriages eliminate the need for small wheel adapter while providing the necessary width to accommodate larger wheels
- 12 radio frequencies with a channel range from 100-120 for each frequency to prevent radio noise from interrupting service
- Linear position transducers maintains system synchronization and ensures maximum reliability
- Integrated touch screen control console provides easy-to-use and precise operating
- Precise balanced design, heavy-duty tow handle and spring loaded wheels make moving and aligning individual lift units simple and easy with little effort
- Battery operated with 12 volt deep cycle battery(s) eliminates the need for power source hook-ups and provide 24 volt operation.  
**Batteries Included!**
- Integrated weight gauges help prevent column overloading and verifies lock engagement



### CLHM-135 & CLHM-185 Mechanical Lock Ladder

25 heavy-duty safety locks every 2-1/2" allow technicians to work at an ergonomic height to increase productivity and minimize fatigue.



### Wireless Operation

Wireless system for clutter free work area without cables to connect, navigate around, roll-over or replace



### Integrated Touch Screen Control Console

The integrated touch screen control console provides easy-to-use controls and precise measurements of lifting height and lifting weight per column.

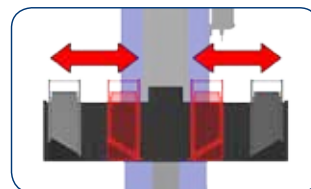


### Integrated Charging System

110V built in multi-stage charging system for battery, wireless operation

### Adjustable Carriage Assembly

The carriage assembly has adjustable arms designed with a positive grip no-skid pattern that prevents movement between the tire and the carriage arms. The carriage assembly is adjustable to 5 different positions. Each carriage assembly has 2 roller wheels and 2 slide pads to provide easy adjustability.



### Heavy-Duty Tow Dolly

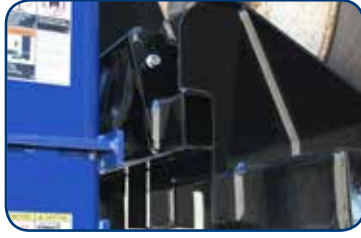
Heavy-duty tow handle and spring loaded wheels make moving and aligning individual lift units simple and easy with little effort allowing for tight radius turns

**Built-in Productivity**



### Wireless Operation

Wireless system for clutter free work area without cables to connect, navigate around, roll-over or replace



### CLHM-180W Mechanical Lock Ladder

12 heavy-duty safety locks every 4-3/4" allow technicians to work at an ergonomic height to increase productivity and minimize fatigue.



### Integrated Touch Screen Control Console

The integrated touch screen control console provides easy-to-use controls and precise measurements of lifting height and lifting weight per column.



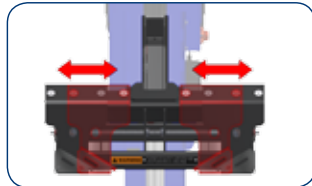
### Integrated Charging System

110V built-in multi-stage charging system for battery, wireless operation



### Heavy-Duty Tow Dolly

Heavy-duty tow handle and spring loaded wheels make moving and aligning individual lift units simple and easy with little effort allowing for tight radius turns



### Self Centering Adjustable Carriage Assembly

The carriage assembly has adjustable arms designed with a positive grip no-skid pattern that prevents movement between the tire and the carriage arms. The carriage assembly is adjustable by means of a patented synchronized ACME™ threaded drive system. The adjustment can be made from either side, (left or right) of the lifting carriage by utilizing a common ratchet/socket combination tool. The synchronized adjustment feature insures that the vehicles tire is centered in the lifting carriage. (CLHM-18W model only)

## Optional Accessories:



**CLHM-10-TH**  
*Short Support Stand*  
20,000 lb. capacity each, adj. height of 20" - 32", 1" adjustment increments (1 pair)



**CLHM-10-THF**  
*Med. Support Stand*  
20,000 lb. capacity each, adj. height of 30" - 52", 1" adjustment increments (1 pair)



**CLHM-THR**  
*Hi-rise Support Stand*  
18,000 lb. capacity each, adj. height of 46 3/4" - 84"



**CLHM-ELA-90A**  
*End Lift Adapter*  
9,000 lb. capacity (per column) used to support vehicle from front and back \*Designed specifically for Humvee lifting



**CLHM-CB-32A**  
*Cross Beam Adapter*  
32,000 lb. capacity used to lift by frame rails



**CLHM-LS-LK**  
*Light Kit (pair)*  
Illuminate work areas under the vehicle. 2 lights per kit - 1 light per column



**CLHM-FLA**  
*Fork Lift Adapter*  
15,000 lb. capacity used to raise fork lift 64"



**CLHM-HR-300**  
*Clutch Jack*  
Air/hydraulic powered, 300 lbs. capacity, 360° rotating head, 80 1/2" max. lifting height



**CLHM-HTCJ-2000**  
*Transmission Jack*  
2,700 lbs. capacity, 30" start height, max. height of 72", 360° rotating head with fore and aft tilt, 1st stage power: 100% air, 2nd stage power: air/hydraulic for precise control

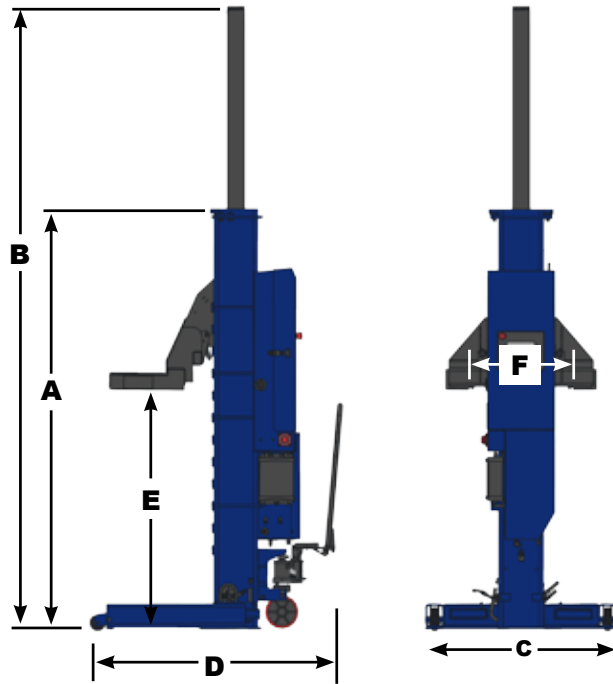


**CLHM-WDH-12**  
*Wheel Dolly*  
1,200 lbs. capacity, max lifting height of 51", air assisted hydraulic power system, flexible design works with super single & dual wheel assemblies, combines fore/aft & side to side tilt adj.



Model Number	CLHM-135	CLHM-180W	CLHM-185
Lifting Capacity Per Column <sup>1</sup>	13,500 lbs (6124kg)	18,000 lbs (8165kg)	18,500 lbs (8391kg)
<b>A</b> Height of Lift Unit	88-1/2" (2248mm)	90-1/2" (2297mm)	88-1/2" (2248mm)
<b>B</b> Height of Lift Unit at Full Rise	157-1/8" (3991mm)	147" (3734mm)	157-1/8" (3991mm)
<b>C</b> Width of Lift Unit	44-1/4" (1124mm)	50-1/4" (1277mm)	44-1/4" (1124mm)
<b>D</b> Length of Lift Unit	53-5/8" (1362mm)	55-1/2" (1410mm)	53-5/8" (1362mm)
<b>E</b> Maximum Lift Height (4 or more units)	69" (1753mm)	64" (1626mm)	69" (1753mm)
Maximum Lift Height (2 units - Normal Mode)	32" (813mm)	32" (813mm)	32" (813mm)
<b>F</b> Min-Max Wheel Diameter <sup>2</sup>	5" - 24-1/2" (127 - 622mm)	11.5" (292mm) - No Max. - Determined by tire diameter	5" - 24-1/2" (127 - 622mm)
Max. Hydraulic System Operating Pressure	2,180 psi	3,350 psi	3,000 psi
Lift Speed (Max Load)	60" (1524mm) per Min	55" (1397mm) per Min	60" (1524mm) per Min
Weight of Lift Unit	1,485 lbs (674kg)	1,565 lbs (710kg)	1,500 lbs (680kg)
Footprint of Lift Unit	425" <sup>2</sup> (10795mm <sup>2</sup> )	600" <sup>2</sup> (15240mm <sup>2</sup> )	560" <sup>2</sup> (14224mm <sup>2</sup> )
Ground Pressure for each Lift (Max. Load)	35.3 psi	32.6 psi	35.7 psi
Turning Radius of Lift Unit	47" (1194mm)	45-1/2" (1156mm)	47" (1194mm)
Operating Peak Power	4 hp	4 hp	4 hp
Operating Voltage	24 VDC Nominal	24 VDC Nominal	24 VDC Nominal
Charger Voltage Required	120 VAC @ 60 Hz	120 VAC @ 60 Hz	120 VAC @ 60 Hz
Charger Amps Required	2.5 Amps	2.5 Amps	2.5 Amps

<sup>1</sup> CLHM series Wireless/Battery Operated Mobile Columns available in 2, 4, 6 and 8 column configurations with 13,500 lb., 18,000 lb. and 18,500 lb. per column capacity.  
<sup>2</sup> Multiply number of columns by "Lifting Capacity Per Column" to calculate overall lifting capacity of configuration



For more information, contact your Authorized Challenger Lifts Distributor:

The Automotive Lift Institute (ALI) certifies that the CLHM series described herein comply with the applicable provisions of the American National Standards ANSI/ALI ALCTV 2011 and are Third Party Validated by the ETL Testing Laboratory.



Challenger Lifts, Inc. reserves the right to make changes to specifications without notice and without making changes retroactive. Unloading, installation and oil not included.

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