



THE MAHA MOBILE COLUMN LIFT GUIDE

MOBILE COLUMN LIFTS

What is a **MOBILE COLUMN LIFT** (Also Known as “Wheel Engaging Lift”)

Mobile Column Lifts are moveable heavy duty lifts that give technicians the value of flexible work bays and a comfortable work station. They allow full, unobstructed access under the vehicle to quickly fulfill routine maintenance inspections and repairs. Mobile Column Lifts have many advantages and drastically improve daily maintenance operations.

This guide was created as a resource to explain **the value of MAHA’s Mobile Column Lifts** as you further consider this important investment.

VERSATILE CONFIGURATIONS

Columns can be configured together to create more than one set of lifts.

OPTIONAL LIFTING CARRIAGES

Different carriage options allow the ability to lift different types of vehicles with the same set of lifts.

EASY TO OPERATE

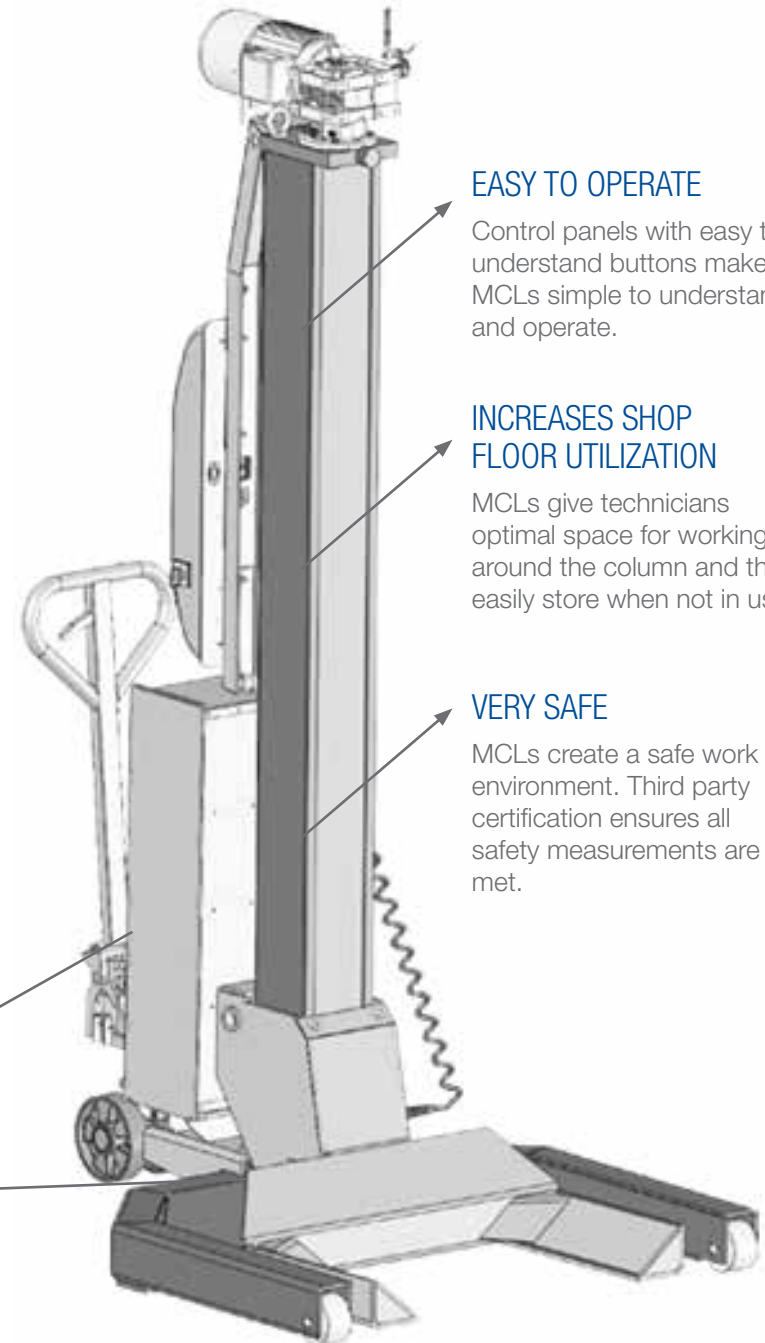
Control panels with easy to understand buttons make MCLs simple to understand and operate.

INCREASES SHOP FLOOR UTILIZATION

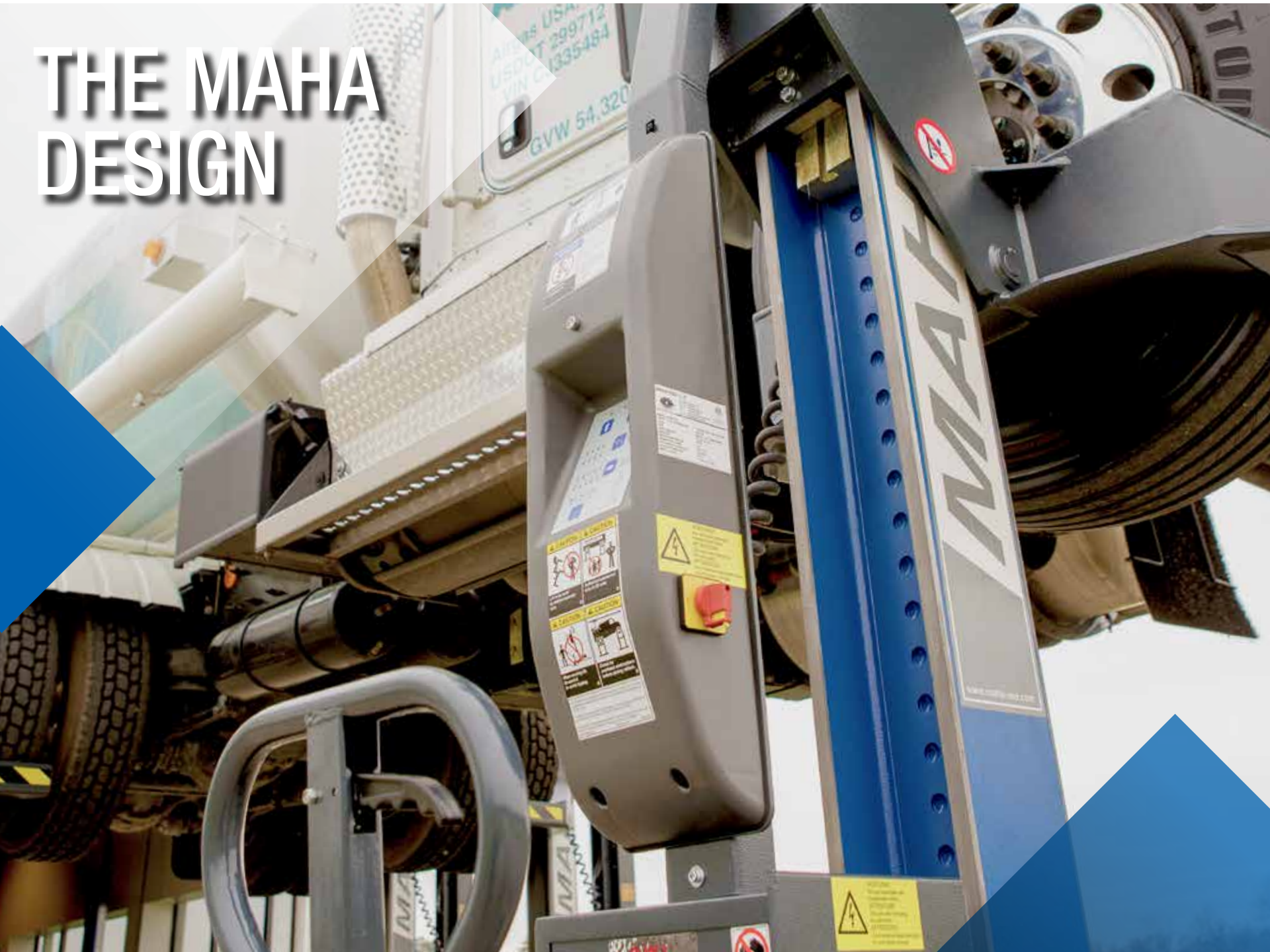
MCLs give technicians optimal space for working around the column and they easily store when not in use.

VERY SAFE

MCLs create a safe work environment. Third party certification ensures all safety measurements are met.



THE MAHA DESIGN



THE RECIRCULATING STAINLESS STEEL BALL SCREW

The core of MAHA'S Mobile Column is a Recirculating Stainless Steel Ball Screw. This highly efficient operating approach eliminates all hydraulics, giving MAHA users distinct advantages.

Ball bearings reduce friction and distribute the load evenly.

Less friction than an Acme Screw =
Higher efficiency (+90%)

Benefits of lower friction: improves speed, force, and duty cycle rating. Contributes to a longer life cycle and less motor power is required.



PERMANENT COLUMN HEIGHT

No rising cylinder risking the damage to the side of the vehicle being lifted.

SYNCHRONIZED LIFTING

Maintains natural unison between columns. Operates at constant speed.

LESS CUMBERSOME

Weighs considerably less than a hydraulic mobile lift - giving MAHA users a major mobility advantage.

LONG LIFESPAN

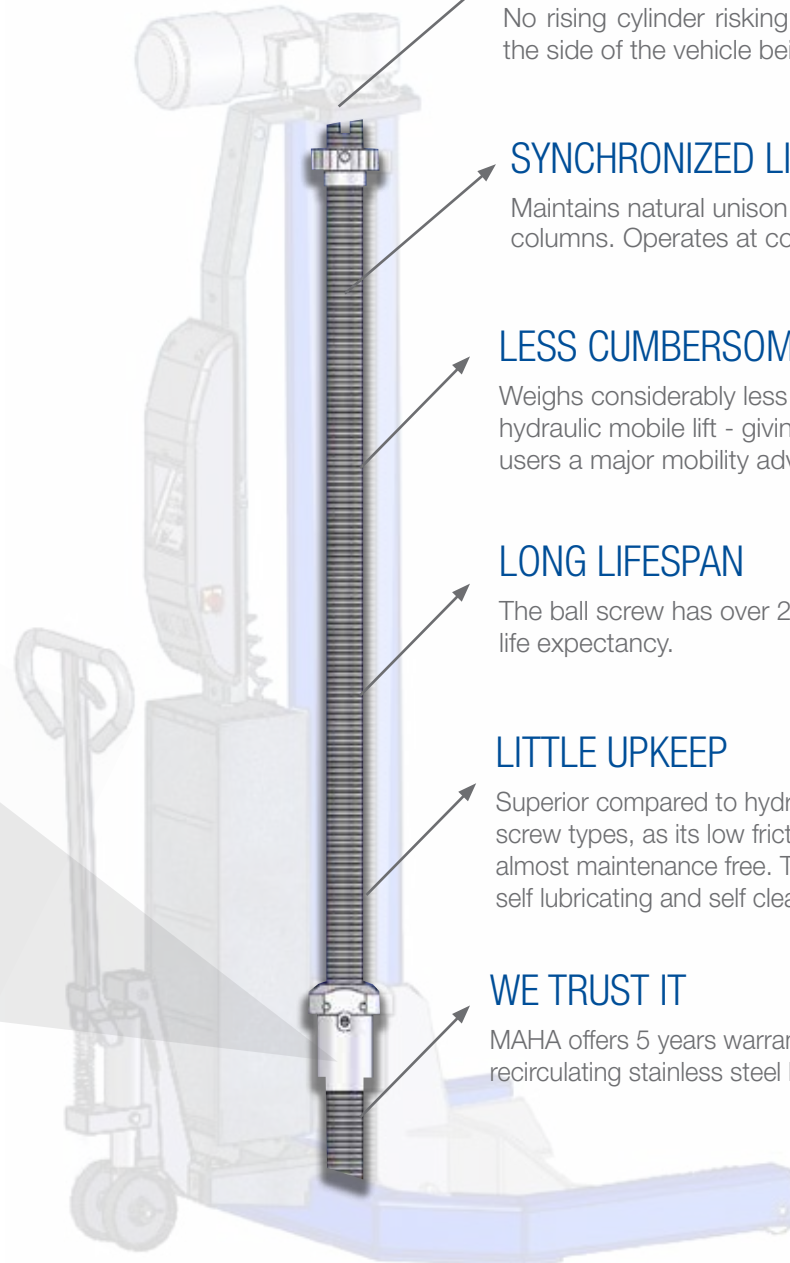
The ball screw has over 20 years life expectancy.

LITTLE UPKEEP

Superior compared to hydraulic and acme screw types, as its low friction design is almost maintenance free. The lifting nut is self lubricating and self cleaning.

WE TRUST IT

MAHA offers 5 years warranty on every recirculating stainless steel ball screw.



TECHNOLOGY COMPARISON



FEATURE	RECIRCULATING STAINLESS STEEL BALL SCREW	HYDRAULIC	ACME THREAD
Efficiency	>90%	<50%	<35%
Friction	Low	High	High
Maintenance	Moderate	High	Very High (due to wear characteristics)
Temperature Effect	None	Yes	None
Life Expectancy	High	Moderate	Low
Compact Design	Yes	No	Yes
Safety	Has Redundant Secondary System	Must Have Redundant Secondary System	Must Have Redundant Secondary System
Overall Weight (Relative)	Moderate	High	Moderate
Environmental	Minimal	Moderate (Hydraulic Fluid Leaks and Disposal)	Minimal
Cost	Moderate Initial Cost, Low Operating Cost	Lower Initial Cost, Higher Maintenance Cost, Service and Downtime Increased)	Lower Initial Cost, Maintenance, Service and Downtime are Increased)

WORKSHOP BENEFITS

The size of heavy duty vehicles can result in workshops quickly running out of space. Mobile Column Lifts are designed to give flexibility and save valuable shop space.

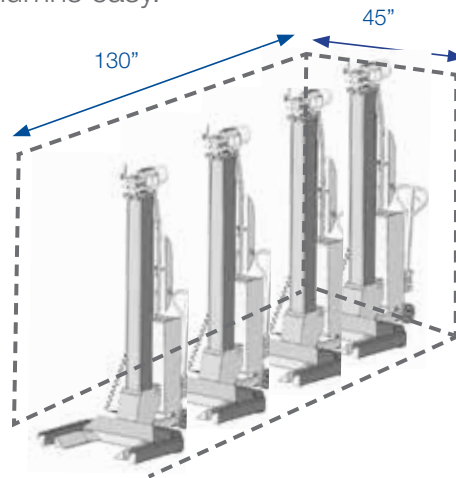


THE LIFT THAT GIVES FLEXIBILITY

Because Mobile Column Lifts are not a permanently fixed lift, there are no installation costs, they do not tie up a bay, and they reduce workshop clutter.

MAHA's column is a solid steel monolithic I-Beam, giving undisputed advantages over other bulky mobile columns on the market. Besides a noticeably sleek and slender design, the monolithic I-Beam does not bend under extreme pressure and safely supports mass amounts of weight. To enhance flexibility, MAHA's slender column improves technician's access around the lift, and makes moving columns easy.

**REDUCE CLUTTER
AND STORE
MAHA COLUMNS
IN SMALL SPACES!**



INCREASE PRODUCTIVITY

LABOR HOURS SAVED

WITH ONLY ONE SET OF MOBILE COLUMN LIFTS

2.5

HOURS SAVED
DAILY

13

HOURS SAVED
WEEKLY

50

HOURS SAVED
MONTHLY

650

HOURS SAVED
ANNUALLY

Example - individual results may vary.

**MAHA CUSTOMERS
ARE REPORTING OVER
35% TIME SAVINGS IN
DAILY ROUTINE PREVENTATIVE
MAINTENANCE WORK.**

TECHNICIAN BENEFITS



By 2020, the demand for diesel mechanics is expected to increase by 15%.

RECRUIT AND RETAIN

As the need for heavy duty maintenance increases, more quality service technicians will be needed. Employee morale is essential. Providing modern equipment such as Mobile Column Lifts is appealing for high-demand mechanics and cultivates professional development; preserves employee loyalty and improves retention rates.

LET YOUR TECHNICIANS SAY GOODBYE TO CREEPERS!



No more sprains and injuries.

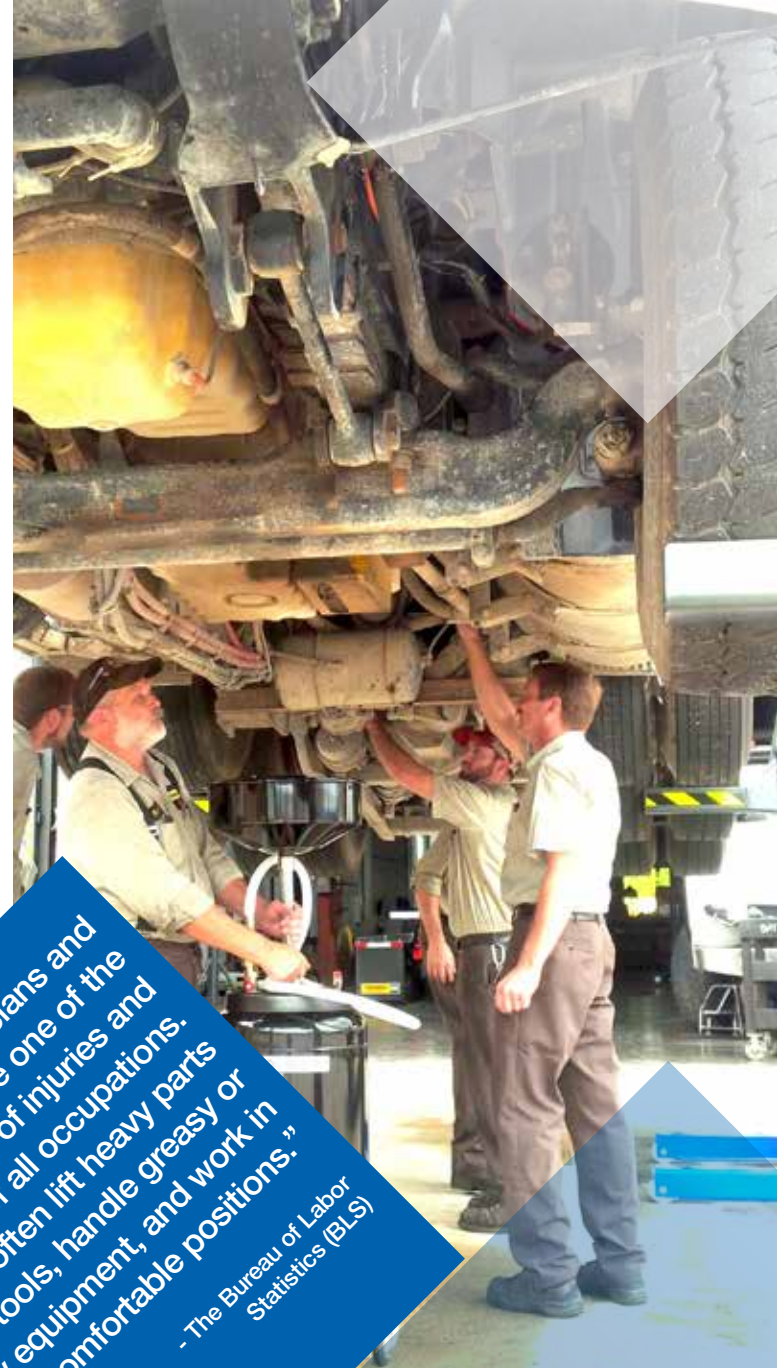


No more cuts and bruises.



No more sore backs.

MAHA MOBILE COLUMN LIFTS RAISE THE VEHICLE OVER 6 FT HIGH, MAKING WORKING UNDER THE VEHICLE SAFER AND SO MUCH MORE COMFORTABLE.



“Diesel service technicians and mechanics have one of the highest rates of injuries and illnesses of all occupations. They often lift heavy parts and tools, handle greasy or dirty equipment, and work in uncomfortable positions.”

- The Bureau of Labor Statistics (BLS)

THE MAHA DESIGN BENEFITS

ULTIMATE SAFETY

Every MAHA Mobile Column Lift is equipped with a redundant safety system which includes an industrial strength motor brake and a wedge lock.

Benefits of the Wedge Lock

A feature that exceeds certification requirements

Stand-by role keeps wedge lock in like-new condition

Independent of lifting system, engages directly with the column

Prevents the lift from lowering in the unlikely event of a system failure

Same industrial strength lock used on elevators

Benefits of the Industrial Motor Brake

Allows the ability to immediately stop the lift at any height during the lifting or lowering process

Unlike hydraulic mobile lifts, the load does not have to be lowered onto mechanical locks in order to work

Because MAHA's lift isn't lowered onto mechanical locks, there is no need to raise up and off of the locks before lowering the lift to the ground



LOOK FOR THE GOLD LABEL!

A key thing to look at is if the Mobile Column Lift bears the gold ALI (Automotive Lift Institute) label to guarantee specific safety standards have been met.



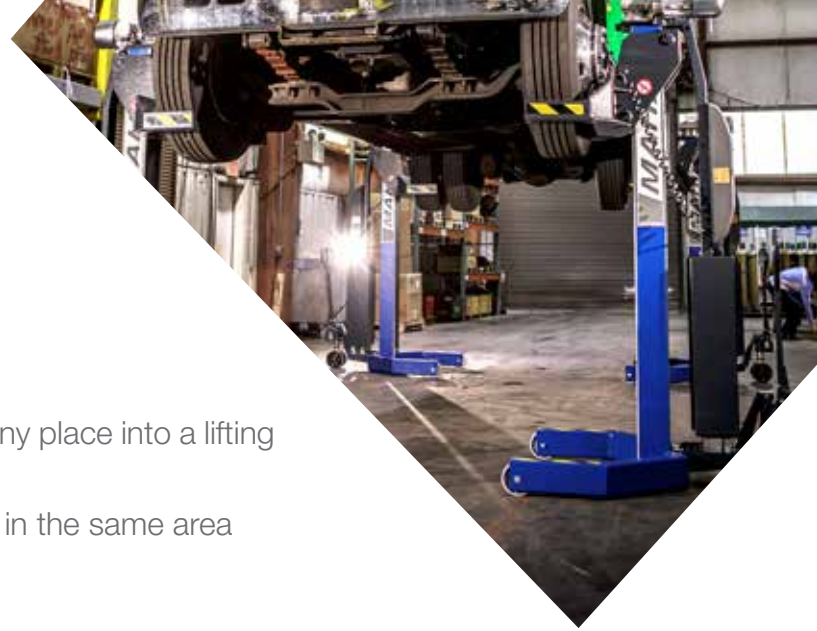
The Recirculating Stainless Steel Ball Screw automatically lifts AND supports heavy loads. Hydraulics ONLY lift and mechanical locks are required to manually support weight.

WHAT MAHA OFFERS



WIRELESS SYSTEMS

- No cables and no cords to trip over
- No power needed to operate, gives the flexibility to turn about any place into a lifting bay – outside or inside
- 10 frequency channels allow operation of multiple wireless sets in the same area
- Unique channel hopping feature eliminates radio interference
- Long battery life promises up to 45 lifting cycles
- Batteries quickly charge with a standard 110V connection



	MCL 12 WRL	MCL 15 WRL	MCL 16 WRL	MCL 18 WRL
Lifting Capacity	12,000 lbs. per column	15,000 lbs. per column	16,000 lbs. per column	18,000 lbs. per column
Height	97.64"	97.64"	97.64"	97.64"
Maximum Lifting Height	69"	69"	69"	69"
Length of Standard Fork	16"	20"	16"	12.5"
Power Supply for Charger	110V 60 HZ Single Phase	110V 60 HZ Single Phase	110V 60 HZ Single Phase	110V 60 HZ Single Phase
Full Cycles at Full Capacity	25 strokes	25 strokes	25 strokes	25 strokes
Full Cycles at 50% Capacity	45 strokes	45 strokes	45 strokes	45 strokes
Complete Charging Cycle	8 hours	8 hours	8 hours	8 hours
Tire Diameter (Extra Wide Carriage)	up to 79"	n/a	up to 54"	n/a
Standard Carriage Adjustment Range	15.5" to 31"	15.5" to 31"	15.5" to 31"	15.5" to 31"
Motor Power	2 HP	2 HP	2 HP	2 HP
Approx. Dry Weight	1,250 lbs.	1,292 lbs.	1,250 lbs.	1,241 lbs.

CABLE SYSTEMS

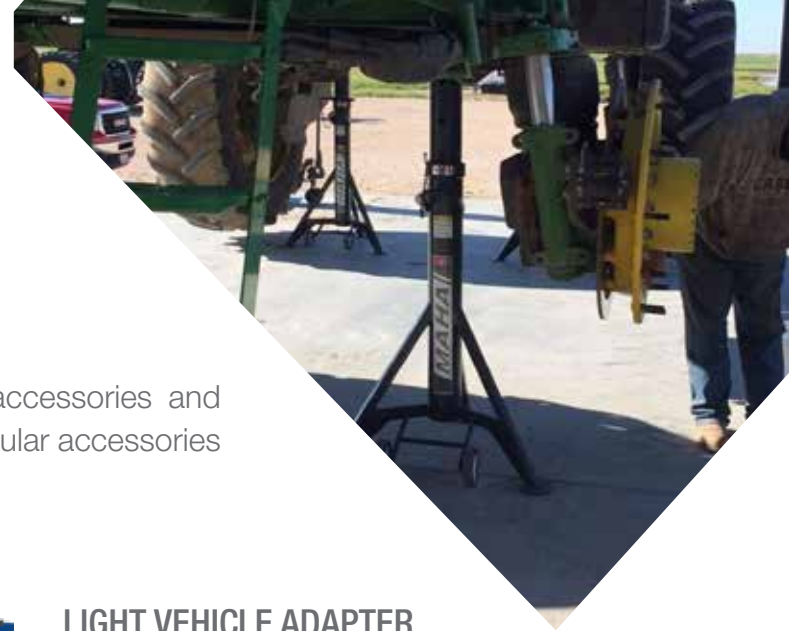
- Multiple power options available
- User friendly LCD display control panel
- Will operate with up to 48 other columns
- Every Column automatically synchronizes and communicates
- Cost effective alternative to Wireless versions



	MCL 12	MCL 15	MCL 16	MCL 18
Lifting Capacity	12,000 lbs. per column	15,000 lbs. per column	16,000 lbs. per column	18,000 lbs. per column
Height	97.64"	97.64"	97.64"	97.64"
Maximum Lifting Height	69"	69"	69"	69"
Length of Standard Fork	16"	20"	16"	12.5"
Base Length	46.02" (47.99" Extra Wide Universal Carriage)	49.96"	46.02"	46"
Total Base Width	45" (58" Extra Wide Universal Carriage)	45"	45"	45"
Tire Diameter (Extra Wide Carriage)	up to 79"	n/a	up to 54"	n/a
Standard Carriage Adjustment Range	15.5" to 31"	15.5" to 31"	15.5" to 31"	15.5" to 31"
Motor Power	2 HP, 208/230V or 440/480V, 3 Phase, 60 HZ	2 HP, 208/230V or 440/480V, 3 Phase, 60 HZ	2 HP, 208/230V or 440/480V, 3 Phase, 60 HZ	2 HP, 208/230V or 440/480V, 3 Phase, 60 HZ
Approx. Dry Weight	1,042 lbs.	1,033 lbs.	1,042 lbs.	1,033 lbs.

ADDITIONAL EQUIPMENT

In addition to Mobile Column Lifts, MAHA offers a variety of accessories and workshop equipment to expand versatility. Below are the most popular accessories and equipment choices when purchasing Mobile Column Lifts.



SUPPORT STANDS

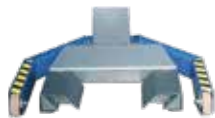
MAHA Support Stands are available in 16,000 lbs or 18,000 lb capacities. Recommended for axles, springs and engine repair work. Fine screw adjustments are available.

Adjustment Range:
Small: 22.5"-31.5"
Medium: 31.5"-49.25"
Tall: 51"-79" (spring assisted)



LIGHT VEHICLE ADAPTER

Lift off-road vehicles, pick-ups, vans and SUVs from the front and rear.



REDUCTION SLEEVES

Lift vehicles with smaller wheel diameters. Our SMA's provide reduction to 13" diameter rims on the standard carriage



CROSSBEAM

Allows operator to lift light vehicles by the frame, acting like a two column lift for wheel-free access. Durable wheels make the Cross-beam easy to maneuver and adjustable lifting pads avoid beam interference.



OIL DRAIN

A portable oil drain holding up to 25 gallons of oil.



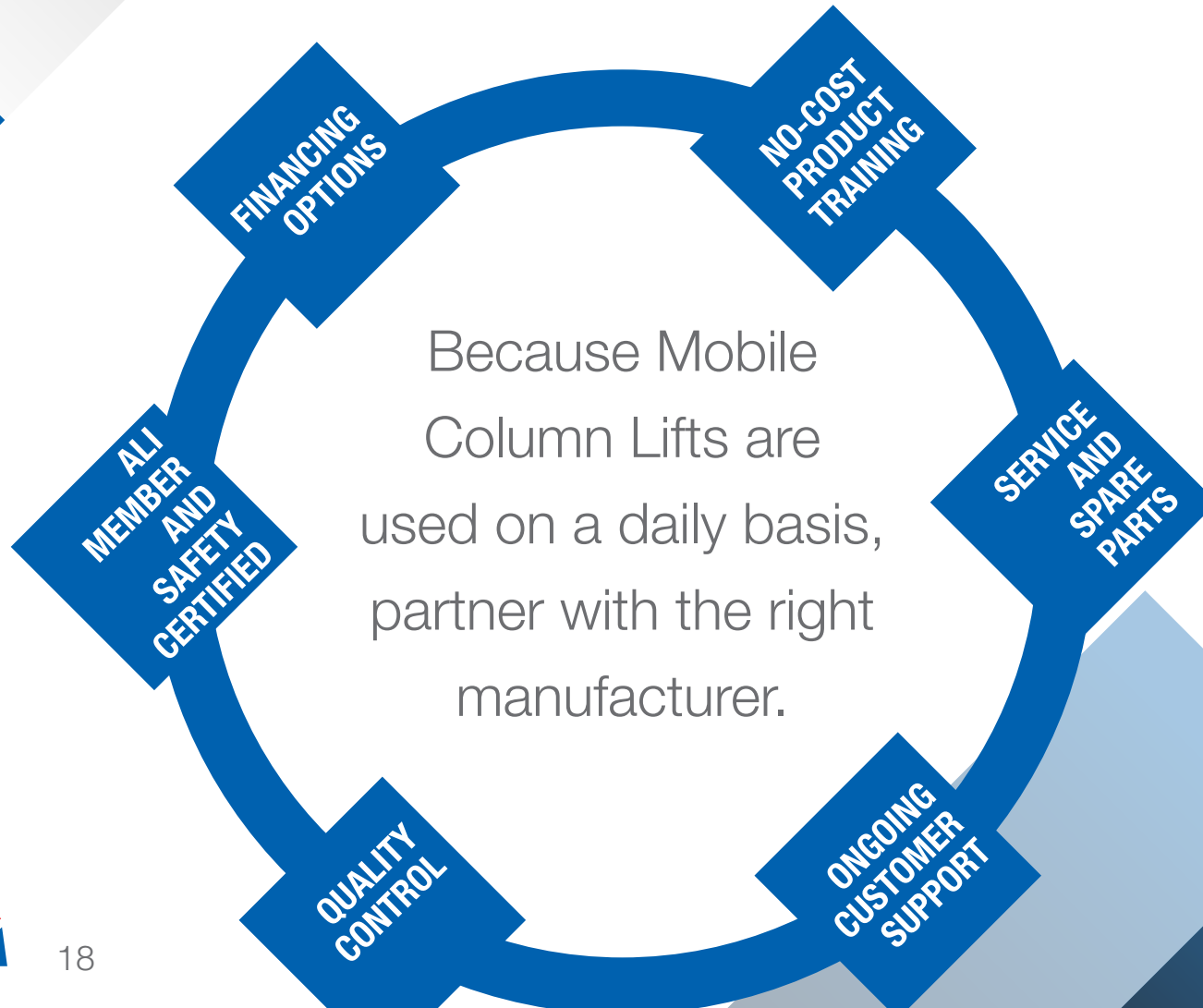
TRANSMISSION JACK

High Rise Transmission Jack that holds up to 2,206 pounds.

FURTHER CONSIDERATION



PARTNERING WITH MAHA



CONTACT US



CALL

1-866-624-2876
ext. 106

VISIT

2404 E. Hwy 134
Pinckard, AL 33671

LEARN MORE

www.maha-usa.com
sales@maha-usa.com

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