MAHA USA OFFERS ONE OF THE LARGEST SELECTIONS OF VEHICLE LIFTING SOLUTIONS AND SAFETY TESTING TECHNOLOGY IN NORTH AMERICA.

PREMIUM WORKSHOP EQUIPMENT

MAHA USA UNITES GERMAN ENGINEERING WITH THE FINEST AMERICAN CRAFTSMANSHIP TO PRODUCE SUPERIOR VEHICLE LIFTING SYSTEMS FROM ITS PRODUCTION FACILITY IN SOUTHEAST ALABAMA. AS ONE OF THE LARGEST SUPPLIERS OF HEAVY DUTY AND AUTOMOTIVE WORKSHOP EQUIPMENT IN NORTH AMERICA, MAHA USA OFFERS A WIDE SELECTION TO MEET CUSTOMERS’ SPECIFIC NEEDS.

LIFTING SYSTEMS
Innovative and safe lifting solutions for heavy-duty and automotive workshops.

JACKS & SHOP EQUIPMENT
A full line of component jacks and workshop equipment to maximize vehicle maintenance operations.

TESTING & DIAGNOSTICS
Vehicle safety and testing technology including roller brake testers, complete safety test lanes, dynamometers, diagnostics and emission testing devices.

WHEEL SERVICE EQUIPMENT
The new generation of wheel service equipment for cars, motorcycles and heavy duty vehicles.

“MAHA USA IS SERVICE AFTER THE SALE.”
- Chad Bowlin, Bowlin Enterprises

Our skilled team offers customers many services including sales support, installation support, service support and spare part support. In addition, we offer a comprehensive selection of training courses for users of all levels. Our goal is to provide you with the service you need, wherever you are located.

COMPANY HISTORY

MAHA headquarters was founded in 1969 in Haldenwang, Germany. The founder, Winfried Rauch invented the modern Performance Based Brake Tester, making MAHA the pioneer of brake testing technology. In just 40 years the company became a powerhouse, expanding to over 150 countries and providing some of the world’s finest vehicle safety testing technology and vehicle lifting solutions.
MAHA USA MOBILE COLUMN LIFTING SYSTEMS

WHY OUR MCL RISES ABOVE THE COMPETITION

1. Trusted Ball-Screw Technology
   For decades, ball-screw technology has been trusted in high-precision market segments, such as aircraft and machine tool industries. MAHA USA’s ball-screw design allows each column to operate smoothly and consistently with over 95% efficiency levels, regardless of temperature or external environment factors.

2. Strong & Solid “I-Beam” Support Column
   Our main support column is the only true solid, one-piece “I-beam” on the market. Unlike other manufacturers who form and/or weld their columns, our “I-Beam” column guarantees no welding seems, therefore increasing rigidity and stability by eliminating any risk of weak points or mechanical failure.

3. Unparalled Safey Features
   Our back-up safety systems give users an added measure of security at all times. In addition to meeting all requirements for certification, our MCL is built with a redundant safety system. Each column is fully equipped with a wedge lock and industrial strength brakes. This ensures that the lift will never lower in the unlikely event of a primary system failure.

FEATURES & ADVANTAGES

VERSATILE CONFIGURATIONS
Can be configured as a set of 2, 4, 6 or 8 columns with the freedom to operate each column independently, in select groups or collectively.

RECALIBRATING BALL SCREW TECHNOLOGY
• Comes with 5 years warranty!
  • Smooth operation regardless of external temperature or climate
  • No risk of fluid leaks or synchronization problems
  • Virtually maintenance free
  • Operates at a constant speed, whether lifting or lowering
  • Maintains a natural unison between columns

INCREASED SHOP FLOOR UTILIZATION
Our design is sleek and efficient. The slim line gives technicians optimal space for working around the columns and are convenient to store when not in use.

ENERGY EFFICIENT
Powered by 230V 3-phase, our MCL has a low power consumption. The breaker size is only 30 amps for a set of four columns.

UNPARALLELED SAFETY
Added safety measures include a user-defined emergency stop button, manual emergency lowering controls and automatic shut-off if lift comes into contact with an obstacle.

EASY TO OPERATE
LED display with auto diagnostics makes the MCL simple to operate. No master column is needed, with three operation modes. Built-in automatic synchronization feature keeps lifts level and secure at all times.

3 separate modes of operation:
1. Auto: columns work in unison
2. Single: Operate one column at a time
3. Group: Operate any number columns together

Waterproof controls allow outdoor and wash bay use

MADE IN THE USA

TECHNICAL DATA

<table>
<thead>
<tr>
<th>MCL 12</th>
<th>MCL 15</th>
<th>MCL 16</th>
<th>MCL 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>12,000 lbs. per column</td>
<td>15,000 lbs. per column</td>
<td>16,000 lbs. per column</td>
</tr>
<tr>
<td>Height</td>
<td>97.6&quot;</td>
<td>97.6&quot;</td>
<td>97.6&quot;</td>
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<tr>
<td>Maximum Lifting Height</td>
<td>68&quot;</td>
<td>68&quot;</td>
<td>68&quot;</td>
</tr>
<tr>
<td>Length of Standard Fork</td>
<td>16&quot;</td>
<td>20&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Base Length</td>
<td>40.02&quot; - 41.50&quot;</td>
<td>49.66&quot;</td>
<td>40.02&quot;</td>
</tr>
<tr>
<td>Trolley Base Width</td>
<td>45&quot; / 58&quot; *</td>
<td>45&quot;</td>
<td>40&quot;</td>
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<tr>
<td>Standard Carriage Adjustment Range</td>
<td>15.5&quot; to 31&quot;</td>
<td>15.5&quot; to 31&quot;</td>
<td>15.5&quot; to 31&quot;</td>
</tr>
<tr>
<td>Wheel Diameter (Extra Wide Carriage)</td>
<td>up to 79&quot;</td>
<td>up to 79&quot;</td>
<td>up to 79&quot;</td>
</tr>
<tr>
<td>Motor Power</td>
<td>2.4 HP, 208/230V or 440/480V, 3-Phase, 60 Hz</td>
<td>2.4 HP, 208/230V or 440/480V, 3-Phase, 60 Hz</td>
<td>2.4 HP, 208/230V or 440/480V, 3-Phase, 60 Hz</td>
</tr>
<tr>
<td>Approx. Dry Weight</td>
<td>1042 lbs.</td>
<td>1033 lbs.</td>
<td>1042 lbs.</td>
</tr>
<tr>
<td>Optional Options</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td></td>
<td></td>
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<tr>
<td>Wide Body</td>
<td>35.43&quot; (10&quot; Fork Length)</td>
<td>35.43&quot; (10&quot; Fork Length)</td>
<td>35.43&quot; (10&quot; Fork Length)</td>
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<tr>
<td>Extra Wide Body</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Universal</td>
<td>n/a</td>
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<td>n/a</td>
</tr>
<tr>
<td>Extra Wide Universal</td>
<td>48.23&quot; (20&quot; Fork Length)</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

OPTIONAL LIFTING CARRIAGES
Extended widths and lengths are available to accommodate individual lifting needs.

STEEL ROLLER GUIDES

STRONG & SOLID SUPPORT COLUMN
The only solid, one-piece I-beam in the industry!

• Eliminates risk of mechanical failure
• Resists off-centered forces
• Lightweight design makes it easy to maneuver

EASY TO USE HYDRAULIC JACK TROLLEY
Our hydraulic jack trolley allows users to position the MCL in minutes, resulting in a faster turnaround time and increased revenue.

MAHA USA | Mobile Column Lift

866-624-2872 www.maha-usa.com
- MCL WIRELESS SERIES -
CERTIFIED FREEDOM

MAHA USA WIRELESS MOBILE COLUMN LIFTING SYSTEMS

MAHA USA’s Wireless MCL is the only wireless lift powered by ball-screw technology in North America.

WHY OUR WIRELESS MCL RISES ABOVE THE COMPETITION

1. Cable Free and Reliable: Wireless Communication

With the ability to synchronize as many as 8 column-lifts, the MAHA MCLs can create a lifting platform capable of lifting up to 144,000 lbs. Each column features a user-friendly LED control panel with the ability to communicate on 10 different frequency channels to allow operation of multiple sets in the same area. Unlike other wireless systems, our dependable channel hopping feature eliminates interference issues caused by other radio systems.

2. The Nation’s ONLY Wireless Ball-Screw Lift

The ONLY wireless mobile column lift in North America that uses a low friction recirculating ball-screw for precise control when lifting and lowering. The ball-screw mechanism requires little maintenance, is lightweight and does not leak like hydraulic systems may.

3. Boost Productivity and Technician Safety

Increase productivity with a flexible system which creates a more open, productive and accessible work space. The slim design of the “I-Beam” column provides improved access around the lift, which increases inspection and repair accuracy. Technicians can effortlessly move lifts around the workshop, increasing turn-around time and productivity. In addition to meeting all requirements for certification, each column is equipped with redundant safety systems, giving users an added measure of security all the time.

MAHA USA’s Wireless MCL offers users precise operation throughout the life of the lift, allowing for easy maintenance and is energy-efficient. Comes with 5 years warranty!

FEATURES & ADVANTAGES

RECYCLATING BALL SCREW TECHNOLOGY

MAHA USA’s ball-screw technology offers users precise operation throughout the life of the lift, allowing for easy maintenance and is energy-efficient.

ACCELERATE MAINTENANCE

Our 48 volt system, the only of its kind, allows users to lift more vehicles with just one charge. The longer battery life promises the highest number of lifting cycles in the industry.

MADE IN THE USA

The only true “I-Beam” on the market. This strong, solid steel structure guarantees no welding seems, therefore increasing rigidity by eliminating weak points and the risk of mechanical failure.

UNPARALLELED SAFETY

In addition to meeting all requirements for certification, multiple levels of safety are included to ensure users even more protection.

FLEXIBLE OPERATING OPTIONS

1. Controls are simple and no master column is needed, giving users the flexibility to operate the lifting system from any column.
2. Digital narrow-band channel filtering
3. Automatic synchronization keeps lifts safe and level

LONG LASTING BATTERIES

Each column uses four heavy-duty deep cycle batteries that easily charge with a standard 110V connection.

OPTIONAL LIFTING CARRIAGES

Extended width and lengths are available to accommodate specific lifting needs.

www.maha-usa.com
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Using MAHA USA’s Wireless MCL and support stands has been great because we can use the MCL in any of our 10 bays. One of our favorite features is that we have the option to operate outside or inside. We also like the fact that while raising vehicles, no part of the column rises upward, eliminating the risk of damaging the vehicle. If you’re going to invest in a set of lifts, go with the most versatile MCL in the industry... MAHA USA’s Wireless Mobile Column Lifts. MAHA USA is raising Outcast Kustoms above the competition!

Kash Locklear

MAHA USA’s Wireless MCL support stands the only wireless lift powered by ball-screw technology in North America.

Why our Wireless MCL rises above the competition

- Cable Free and Reliable: Wireless Communication
  - With the ability to synchronize as many as 8 column-lifts, the MAHA MCLs can create a lifting platform capable of lifting up to 144,000 lbs. Each column features a user-friendly LED control panel with the ability to communicate on 10 different frequency channels to allow operation of multiple sets in the same area. Unlike other wireless systems, our dependable channel hopping feature eliminates interference issues caused by other radio systems.

- The Nation’s ONLY Wireless Ball-Screw Lift
  - The ONLY wireless mobile column lift in North America that uses a low friction recirculating ball-screw for precise control when lifting and lowering. The ball-screw mechanism requires little maintenance, is lightweight and does not leak like hydraulic systems may.

- Boost Productivity and Technician Safety
  - Increase productivity with a flexible system which creates a more open, productive and accessible work space. The slim design of the “I-Beam” column provides improved access around the lift, which increases inspection and repair accuracy. Technicians can effortlessly move lifts around the workshop, increasing turn-around time and productivity. In addition to meeting all requirements for certification, each column is equipped with redundant safety systems, giving users an added measure of security all the time.

**MAHA USA WIRELESS MOBILE COLUMN LIFTING SYSTEMS**

MAHA USA’s Wireless MCL is the only wireless lift powered by ball-screw technology in North America.

**WHY OUR WIRELESS MCL RISES ABOVE THE COMPETITION**

1. **Cable Free and Reliable: Wireless Communication**

   With the ability to synchronize as many as 8 column-lifts, the MAHA MCLs can create a lifting platform capable of lifting up to 144,000 lbs. Each column features a user-friendly LED control panel with the ability to communicate on 10 different frequency channels to allow operation of multiple sets in the same area. Unlike other wireless systems, our dependable channel hopping feature eliminates interference issues caused by other radio systems.

2. **The Nation’s ONLY Wireless Ball-Screw Lift**

   The ONLY wireless mobile column lift in North America that uses a low friction recirculating ball-screw for precise control when lifting and lowering. The ball-screw mechanism requires little maintenance, is lightweight and does not leak like hydraulic systems may.

3. **Boost Productivity and Technician Safety**

   Increase productivity with a flexible system which creates a more open, productive and accessible work space. The slim design of the “I-Beam” column provides improved access around the lift, which increases inspection and repair accuracy. Technicians can effortlessly move lifts around the workshop, increasing turn-around time and productivity. In addition to meeting all requirements for certification, each column is equipped with redundant safety systems, giving users an added measure of security all the time.

**FEATURES & ADVANTAGES**

- **RECYCLATING BALL SCREW TECHNOLOGY**

   MAHA USA’s ball-screw technology offers users precise operation throughout the life of the lift, allowing for easy maintenance and is energy-efficient.

- **ACCELERATE MAINTENANCE**

   Our 48 volt system, the only of its kind, allows users to lift more vehicles with just one charge. The longer battery life promises the highest number of lifting cycles in the industry.

- **MADE IN THE USA**

   The only true “I-Beam” on the market. This strong, solid steel structure guarantees no welding seems, therefore increasing rigidity by eliminating weak points and the risk of mechanical failure.

- **UNPARALLELED SAFETY**

   In addition to meeting all requirements for certification, multiple levels of safety are included to ensure users even more protection.

- **FLEXIBLE OPERATING OPTIONS**

   1. Controls are simple and no master column is needed, giving users the flexibility to operate the lifting system from any column.
   2. Digital narrow-band channel filtering
   3. Automatic synchronization keeps lifts safe and level

- **LONG LASTING BATTERIES**

   Each column uses four heavy-duty deep cycle batteries that easily charge with a standard 110V connection.

- **OPTIONAL LIFTING CARRIAGES**

   Extended width and lengths are available to accommodate specific lifting needs.
- MCL 12 SERIES -
MAXIMIZE SERVICE OPERATIONS
12,000 LBS. MOBILE COLUMN LIFTING SYSTEM

Available in wireless or standard configurations, the MCL 12 is a cost effective solution to service medium-duty trucks and vans. Perfect for maintenance shops short on floor space who are in need of a lift for larger capacity vehicles without dedicating shop space.

Increased MaintenanceCapabilities
Traditional light and medium-duty service shops are expanding more than ever into the heavy-duty market. That is why a lift that grows with your business fits the bill – this lift is the MAHA USA MCL 12. Unlike fixed lifts, MAHA USA’s mobile column lifts can be used anywhere a suitable concrete surface is present, even outdoors, taking your garage to the next level.

Complete and Easy Vehicle Access
Unlike four-post lifts, which limit the technician’s access to the underbody, MAHA USA’s unique design offers full, unobstructed access to the vehicle. Our lifts cost the same or less than a $30,000 lbs. capacity four-post lift but come with 48,000 lbs. capacity without tying up a bay! When not in use, the MCLs can be conveniently stored against a wall or in a corner, occupying minimal storage space.

- SPECIAL EDITION MCL 12 -

FARMING AND AGRICULTURE
This is the perfect option for lifting wheel sizes that are commonly much larger on farming equipment. The 48.23" Extra Wide Universal Carriage is only available for the MCL 12. This unique carriage engages oversized tires measuring up to 79" in diameter with 20" long forks.

- TECHNICAL DATA -

<table>
<thead>
<tr>
<th>Standard MCL 12</th>
<th>Wireless MCL 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>12,000 lbs. per column</td>
</tr>
<tr>
<td>Height</td>
<td>97.64&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height</td>
<td>65&quot;</td>
</tr>
<tr>
<td>Length of Standard Fork</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Base Length</td>
<td>46.02&quot; - 47.56&quot;</td>
</tr>
<tr>
<td>Total Base Width</td>
<td>49.50&quot; - 51.06&quot;</td>
</tr>
<tr>
<td>Tire Diameter</td>
<td>up to 79&quot;</td>
</tr>
<tr>
<td>(Extra Wide Carriage)</td>
<td>2.4 HP (208/230V or 440/480V, 3-Phase, 60 Hz)</td>
</tr>
<tr>
<td>Motor Power</td>
<td>n/a</td>
</tr>
<tr>
<td>Power Supply for Charger</td>
<td>110V 60Hz for Single Phase</td>
</tr>
<tr>
<td>Full Cycles at 100% Capacity</td>
<td>25 Strokes</td>
</tr>
<tr>
<td>Full Cycles at 50% Capacity</td>
<td>45 Strokes</td>
</tr>
<tr>
<td>Complete Charging Time</td>
<td>8 hours</td>
</tr>
<tr>
<td>Weight (Fully Charged)</td>
<td>1104 lbs</td>
</tr>
<tr>
<td>Lift Height</td>
<td>32.28&quot; (16&quot; Fork Length)</td>
</tr>
<tr>
<td>Lift Height</td>
<td>35.43&quot; (16&quot; Fork Length)</td>
</tr>
<tr>
<td>* Extra Wide Universal Carriage 46.23&quot; width</td>
<td>46.23&quot; (20&quot; Fork Length)</td>
</tr>
</tbody>
</table>

- WHAT SETS US ABOVE THE REST -

Our MCL offers...

Safety and Security
Improve ergonomics, comfort and visibility. Back-up safety systems give MAHA USA users an added level of protection at all times.

Customer Support
Our highly qualified team collaborates with each customer to provide customization solutions, in-depth product training and reliable installation and service assistance.

Versatility
We understand how important it is to have the right equipment to allow technicians to perform inspections and repairs quickly, safely and accurately. With the versatility to turn any bay in your shop into a lifting bay, the MCL is an exceptional investment.

Flexible Configurations
Each column can be configured as a single network of 2, 4, 6 or 8 columns, depending on your application.

PROVEN RE-CIRCULATING BALL-SCREW TECHNOLOGY
Our mobile column lifts are operated with the power of a low friction, surface hardened stainless steel ball-screw supported in a hanging bearing. For decades this technology has been trusted in high precision industry segments, such as aircraft manufacturing and machine tool industries. Ball-screw technology has proven to be the most reliable for high mechanical efficiency and accuracy.

ADVANTAGES OF THE BALL-SCREW:
• No energy loss caused by friction or heat allows our MCLs to operate with over 90% efficiency
• Splash-proof and dirt repellent design promises minimal mechanical wear, less maintenance and consistent performance
• Unlike hydraulic systems, there is absolutely no risk of fluid leaks and synchronization issues
• Climate factors do not affect operation of lift; our MCL works in any temperature
• Over 20 years estimated service life
• 5 years warranty

RENDREDUX LOAD CONTROL
A primary load brake holds load in place during normal operation. In the event of rapid descent, the redundant wedge brake locks in place to prevent the load from falling. Each lift is factory tested to confirm load brake and wedge brake operation. Both systems operate independently of the lifting system and require no power for engagement or release.

SOLID STEEL SUPPORT COLUMN
Hot rolled in the steel mill is how we achieve our solid, robust, steel structured column. The only mobile column lift whose main support column is built with a solid "I-Beam". Unlike other manufacturers who form and/or weld their columns, our "I-Beam" column promises no welding seams, therefore increasing rigidity by eliminating any risk of weak points or mechanical failure.

GENERATE MORE REVENUE
Studies show that using a mobile lift can increase the number of vehicles serviced by reducing the estimated lifting time.

5-6 Months =
The estimated amount of time to recover costs.

$15,000
$25,000
$35,000
$45,000
$55,000
$65,000

MONTH 1 2 3 4 5 6 7

* If the lift used by 4 technicians, each servicing 45 machines a day

www.maha-usa.com
- MCL SERIES -
CUSTOMIZED SOLUTIONS

We understand that every maintenance facility is different. We take the time to collaborate with each customer to learn what equipment will maximize the efficiency and revenue of their shop. We know the importance of having the right equipment for getting a wide range of vehicles back in service with minimal downtime; that’s why our MCLs can be customized to meet unique demands.

CAPACITIES UP TO
864,000 POUNDS

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

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

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

FLAT PLATES
Engage flat surfaces such as trailer bodies, generators and modular homes.

3-PHASE MCL REMOTE CONTROL
Operate the standard MCL up to 25 ft. away. Custom cable lengths are available.

SUPPORT STANDS
Available in 16,000 lbs. or 18,000 lbs. capacities. Recommended for axles, springs and engine repair work. Fine screw adjustments are available.

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

FORKLIFT RAMP ADAPTER
The Forklift Ramp Adapter is the perfect wheels-free lifting solution to allow easy access for tire and maintenance work under forklifts with a wheel base up to 76”.

RAIL CARS
MINING VEHICLES
- KAR SERIES -
PANTOGRAPH LIFT

Designed to occupy less floor space, the KAR series is an electro-hydraulic vertical rising pantograph ideal for the maintenance of buses, trucks and vehicles weighing up to 99,000 lbs. With scissors located on each end of the lift only, technicians have quick and easy access to the vehicle from any side.

CUSTOMIZE YOUR RUNWAY LENGTH
Up to 48 feet of runway extension lengths are available.

FREE ACCESS FROM ANY SIDE!
Scissors are 2 inch full steel-plated for extreme stability

ANTI-SLIP FINISH
Each platform surface is embossed with an anti-slip finish to ensure maximum safety when raising and lowering

SLAVE AND MASTER CYLINDER
Optimum safety burst valves are inserted at the back of each cylinder for maximum safety

LIFT UP TO 99,000 POUNDS

CUSTOMIZABLE
Four fixed points on which the lift is leaning are positioned at the end of the runways, allowing complete customizing of runway lengths up to 48 feet.

Multiple Safety Features
- Mechanical locks, velocity fuses and safety valves on every lifting cylinder
- A burst valve included with each lifting slave cylinder
- Five different pressure-relief valves
- Low voltage commands
- Acoustic warning and by-pass key to alert user when the lift is 19” from the collapsed position
- Runways have photo sensors to guarantee leveling control
- Dead man control
- Each platform surface is embossed with an anti-slip finish to ensure maximum safety when raising and lowering

WHY OUR PANTOGRAPH LIFT RISES ABOVE THE COMPETITION

1. Strong & Reliable
The KAR model is the only true pantograph lift on the market. Built with a strong and compressed frame, the KAR is designed to withstand maximum capacity under the heaviest loads. The runways are stable and reliable, never at risk of bending

2. Customizable
Four fixed points on which the lift is leaning are positioned at the end of the runways, allowing complete customizing of runway lengths up to 48 feet.

3. Multiple Safety Features
- Mechanical locks, velocity fuses and safety valves on every lifting cylinder
- A burst valve included with each lifting slave cylinder
- Five different pressure-relief valves
- Low voltage commands
- Acoustic warning and by-pass key to alert user when the lift is 19” from the collapsed position
- Runways have photo sensors to guarantee leveling control
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- Each platform surface is embossed with an anti-slip finish to ensure maximum safety when raising and lowering

FEATURES & ADVANTAGES

FREE ACCESS FROM ANY SIDE!
Scissors are 2 inch full steel-plated for extreme stability

ANTI-SLIP FINISH
Each platform surface is embossed with an anti-slip finish to ensure maximum safety when raising and lowering
- VEGA SERIES -
PARALLELOGRAM LIFT

Up to 100,000 lbs. Capacity

Proven technology that has been trusted for over 30 years. Reliable and very easy to install, the VEGA Parallelogram Lift is one of the safest solutions for heavy-duty lifting and maintenance support on the market. Synchronization issues are eliminated due to a patented equalization bar.

Features & Advantages

VEGA Twin Design
Increase runways with two lifts running synchronized or individually.

Large Capacities
Lift up 100,000 lbs. effortlessly.

Multiple Safety Features
- Independent patented mechanical locking system
- Embossed anti-slip finish on runways
- Optional pit cover plates eliminate tripping hazards
- Pit cover plates rise and level with floor as lift rises
- Optional 24V lighting system is available
- Mechanical locks, velocity fuses and safety valves on every lifting cylinder
- Burst valve on each lifting slave cylinder
- Includes five different pressure-relief valves
- Low voltage commands

Wash Bay
Galvanized option for use in wash bays.

Versatile
- Lifting Capacities range from 50,000 lbs. – 100,000 lbs.
- Lifting height can be increased to 77”
- Open floor models with no connection between lifting legs for easy access
- Suitable for outdoor or wash bay use with optional galvanized protection
- Clear operator access from all sides
- Optional “Open Floor Design” available for maximum accessibility to the vehicle

Torsion Bar Synchronization
The unique patented torsion bar combined with the VEGAs continuous base allows lift to be installed on a relatively uneven floor with no anchoring. Also ensures that the platforms are synchronized during lifting and lowering operations.

4 CONFIGURATIONS
and Easy to Install!

1. Continuous Base with Torsion Bar Advantage
Patented synchronization makes installation without anchors possible.

2. Patented Mechanical Locking System. Always active and runs independently of lift.

3. Easy Installation

4. Optional 77” lifting height
Tallest in the industry!

Configurations & Easy to Install!
COMPONENT JACKS 
AND WORKSHOP EQUIPMENT

As one of the largest suppliers of vehicle maintenance equipment in North America, we give you the power to maximize service operations with a wide selection of heavy-duty and automotive workshop equipment.

WHEEL LIFT SYSTEM
Up to 40,000 lbs. Capacity
The Wheel Lift (MWL) is low air pressure regulated and provides low clearance for workshops with a low ceiling height. The MWL can be used for lifting one end of the vehicle and is portable, eliminating the need for a dedicated bay.

Features & Advantages
• Built-in vehicle support stands allows open access under the vehicle providing a high level of safety
• 100% air operated
• Wide, spring loaded base provides a stable platform for secured lifting
• Dual trigger control valve synchronizes lift when raising and lowering

AIR OPERATED SUPPORT STANDS
35 Ton Capacity
The heavy-duty air operated vehicle support stands hold a 35 ton lifting capacity and are designed for easy positioning and spotting underneath vehicles. Built-in wheels allows easy portability.

Features & Advantages
• Air assisted stand positioning
• Dual retention pin system
• Removable Handle
• Built-in wheels for ease of portability
• 35 ton lifting capacity—the strongest support stands in the industry!

JACK STANDS
Up to 100,000 lbs. Capacity
A powerful addition to any workshop, our Jack Stands are sold in pairs and are height adjustable to meet any need. Made with an “A” frame design with a reinforced base, these stands will withstand years of rugged shop use.

AIR OPERATED SUPPORT STANDS
35 Ton Capacity
The heavy-duty air operated vehicle support stands hold a 35 ton lifting capacity and are designed for easy positioning and spotting underneath vehicles. Built-in wheels allows easy portability.

Features & Advantages
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Features & Advantages
• Built-in vehicle support stands allows open access under the vehicle providing a high level of safety
• 100% air operated
• Wide, spring loaded base provides a stable platform for secured lifting
• Dual trigger control valve synchronizes lift when raising and lowering

AIR OPERATED SUPPORT STANDS
35 Ton Capacity
The heavy-duty air operated vehicle support stands hold a 35 ton lifting capacity and are designed for easy positioning and spotting underneath vehicles. Built-in wheels allows easy portability.

Features & Advantages
• Air assisted stand positioning
• Dual retention pin system
• Removable Handle
• Built-in wheels for ease of portability
• 35 ton lifting capacity—the strongest support stands in the industry!

JACK STANDS
Up to 100,000 lbs. Capacity
A powerful addition to any workshop, our Jack Stands are sold in pairs and are height adjustable to meet any need. Made with an “A” frame design with a reinforced base, these stands will withstand years of rugged shop use.

Features & Advantages
• Built-in vehicle support stands allows open access under the vehicle providing a high level of safety
• 100% air operated
• Wide, spring loaded base provides a stable platform for secured lifting
• Dual trigger control valve synchronizes lift when raising and lowering

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35 Ton Capacity
The heavy-duty air operated vehicle support stands hold a 35 ton lifting capacity and are designed for easy positioning and spotting underneath vehicles. Built-in wheels allows easy portability.

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35 Ton Capacity
The heavy-duty air operated vehicle support stands hold a 35 ton lifting capacity and are designed for easy positioning and spotting underneath vehicles. Built-in wheels allows easy portability.

Features & Advantages
• Air assisted stand positioning
• Dual retention pin system
• Removable Handle
• Built-in wheels for ease of portability
• 35 ton lifting capacity—the strongest support stands in the industry!
TRUCK AIR JACK STAND

Up to 30,000 lbs. Capacity

The heavy-duty Truck Air Jack Stand (MTAJ) is the perfect solution for doing suspension work. Features adjustable lifts and easy-to-use air rocker valves that provide smooth and precise control when raising and lowering.

**Features & Advantages**

- 100% air operated
- Includes extensions
- Built in vehicle support stands

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>MTAJ-2000</th>
<th>MTAJ-3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>20,000 lbs</td>
<td>30,000 lbs</td>
</tr>
<tr>
<td>Minimum Lifting Height</td>
<td>11.5&quot;</td>
<td>11.5&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height</td>
<td>32.2&quot;</td>
<td>32.2&quot;</td>
</tr>
<tr>
<td>Minimum Lifting Height with Extensions</td>
<td>17.0&quot;</td>
<td>17.0&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height with Extensions</td>
<td>37.5&quot;</td>
<td>37.5&quot;</td>
</tr>
<tr>
<td>Cylinder Bore</td>
<td>1.2&quot;</td>
<td>1.4&quot;</td>
</tr>
<tr>
<td>Required Air Pressure</td>
<td>200 PSI</td>
<td>200 PSI</td>
</tr>
<tr>
<td>Overall Length without Handle</td>
<td>29&quot;</td>
<td>36.5&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>42&quot;</td>
<td>4.25&quot;</td>
</tr>
<tr>
<td>Inside Saddle Width</td>
<td>4.5&quot;</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>Stroke</td>
<td>10&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>Wheel Diameter</td>
<td>5&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>Overall Length with Handle</td>
<td>48&quot;</td>
<td>58.5&quot;</td>
</tr>
<tr>
<td>Required Air Pressure</td>
<td>200 PSI</td>
<td>200 PSI</td>
</tr>
<tr>
<td>Maximum Lifting Height without Extensions</td>
<td>37.5&quot;</td>
<td>37.25&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height with Extensions</td>
<td>52.5&quot;</td>
<td>52.25&quot;</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>17.5&quot;</td>
<td></td>
</tr>
<tr>
<td>Lifting Capacity</td>
<td>20,000 lbs</td>
<td>30,000 lbs</td>
</tr>
</tbody>
</table>

Note: 10TF support stands recommended for use with Portable Air End Lift

PORTABLE AIR END LIFT

20,000 lbs. Capacity

Our Portable Air End Lift (MPAE) is a 100% air operated portable lift for heavy-duty vehicles. Features adjustable lifting saddles that easily raise and extend to a variety of positions. Large pneumatic wheels make the MPAE easy to maneuver.

**Features & Advantages**

- Adjustable lifting saddles can be easily raised and extended for a variety of positions
- Large pneumatic wheels makes maneuvering easy
- Large and sturdy base stabilizes load for extra security

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>MPAE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>20,000 lbs</td>
</tr>
<tr>
<td>Minimum Lifting Height</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height</td>
<td>36&quot;</td>
</tr>
<tr>
<td>Required Air Pressure</td>
<td>90-200 PSI</td>
</tr>
<tr>
<td>Maximum Lifting Height with Extensions</td>
<td>72&quot;</td>
</tr>
<tr>
<td>Required Air Pressure with Extensions</td>
<td>90-200 PSI</td>
</tr>
<tr>
<td>Power Air Stage Stroke</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Manual/Hydraulic Air/Hydraulic Stroke</td>
<td>26&quot;</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>30&quot;</td>
</tr>
<tr>
<td>Overall Length</td>
<td>43&quot;</td>
</tr>
<tr>
<td>Overall Height</td>
<td>35.5&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>42&quot;</td>
</tr>
<tr>
<td>Handle Length</td>
<td>44.5&quot;</td>
</tr>
<tr>
<td>Caster Diameter</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>670 lbs</td>
</tr>
</tbody>
</table>

**Features & Advantages**

- Easy-to-use rocker air valve provides smooth and precise control when raising and lowering as a pair.

HIGH RISE TRANSMISSION JACK

2,206 lbs. Capacity

The heavy-duty High Rise Transmission Jack (MHDTJ) is designed to maneuver under low obstructions.

**Features & Advantages**

- Air/hydraulic 2 stage design: 1st stage 100% air operated for speed; 2nd stage hydraulic for precise control
- Includes a truck component handling system
- Head rotates 360 degrees with fore/aft tilt with a head-locking capability and four adjustable quick ratcheting brackets. Head plate accommodates a variety of components.
- Lockable/steerable casters provide safe and easy transport throughout shop floor

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>MHDTJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>2,206 lbs</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height</td>
<td>34&quot;</td>
</tr>
<tr>
<td>Required Air Pressure</td>
<td>90-200 PSI</td>
</tr>
<tr>
<td>Power Air Stage</td>
<td>10 degrees</td>
</tr>
<tr>
<td>Manual/Hydraulic Air/Hydraulic Stroke</td>
<td>10 degrees</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>30&quot;</td>
</tr>
<tr>
<td>Overall Length</td>
<td>44.5&quot;</td>
</tr>
<tr>
<td>Overall Height</td>
<td>35.5&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>42&quot;</td>
</tr>
<tr>
<td>Handle Length</td>
<td>44.5&quot;</td>
</tr>
<tr>
<td>Caster Diameter</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>305 lbs</td>
</tr>
</tbody>
</table>

**Features & Advantages**

- Transmission into place.
- Transmission
- Swivel casters allow easy movement and positioning
- Adapter plate accommodates a variety of components.
- Includes a truck component handling system

LOW RISE TRANSMISSION JACK

2,206 lbs. Capacity

The heavy-duty Low Rise Transmission Jack (MTLRJ) is designed with a narrow frame to provide excellent balance without occupying excessive floor space.

**Features & Advantages**

- Four adjustable ratcheting brackets
- Head plate accommodates a variety of size components
- Heavy duty casters stand up to rigorous shop use

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>MTLRJ-2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>2,206 lbs</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Maximum Lifting Height</td>
<td>34&quot;</td>
</tr>
<tr>
<td>Required Air Pressure</td>
<td>90-200 PSI</td>
</tr>
<tr>
<td>Power Manual/Hydraulic</td>
<td>305 lbs</td>
</tr>
<tr>
<td>Air/Hydraulic Power Air Stage</td>
<td>10 degrees</td>
</tr>
<tr>
<td>Manual/Hydraulic Air/Hydraulic Stroke</td>
<td>10 degrees</td>
</tr>
<tr>
<td>Minimum Start Height</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Overall Length</td>
<td>44.5&quot;</td>
</tr>
<tr>
<td>Overall Height</td>
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</tr>
<tr>
<td>Overall Width</td>
<td>42&quot;</td>
</tr>
<tr>
<td>Handle Length</td>
<td>44.5&quot;</td>
</tr>
<tr>
<td>Caster Diameter</td>
<td>8&quot;</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>305 lbs</td>
</tr>
</tbody>
</table>

**Features & Advantages**

- Heavy duty casters stand up to rigorous shop use
- Four adjustable ratcheting brackets
- Head plate accommodates a variety of size components
- Transmission

AIR / HYDRAULIC TRANSMISSION JACK

2,000 lbs. Capacity

Save your strength with our Transmission Jack (TJ-20-N01). Its air/hydraulic foot pump allows the operator to effortlessly raise the transmission into place.

**Features & Advantages**

- Fully adjustable universal saddle with adjustable corner brackets
- 2” diameter, flash chrome, single stage ram provides added stability
- Swivel casters allow easy movement and positioning

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>TJ-20-N01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>2,000 lbs</td>
</tr>
<tr>
<td>Lifting Range</td>
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<tr>
<td>Base Size</td>
<td>38 1/2&quot;</td>
</tr>
<tr>
<td>Saddle TH</td>
<td>282 degrees</td>
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<tr>
<td>Shipping Weight</td>
<td>292 lbs</td>
</tr>
</tbody>
</table>
HEAVY-DUTY HIGH RISE CLUTCH JACK
300 lbs. Capacity
The heavy-duty Clutch Jack (MHR) is built with a foot pedal control to allow hands-free operation. Swivel casters permit easy movement throughout shop floors and its head rotates 360 degrees, allowing flexibility and convenience during installation.

Features & Advantages
• Air/hydraulic 2 stage design: 1st stage 100% air operated for speed; 2nd stage hydraulic for precise control
• Hands-free operation with foot pedal
• Hands-free operation with foot pedal

HEAVY-DUTY LOW RISE CLUTCH JACK
300 lbs. Capacity
The heavy-duty Low Rise Clutch Jack (MTCJ) allows precise adjustments. The head rotates 360 degrees allowing flexibility and convenience during installation and removal of clutches. A fold back feature allows technicians to easily remove the jack from underneath the vehicle.

Features & Advantages
• Air/hydraulic 2 stage design: 1st stage 100% air operated for speed; 2nd stage hydraulic for precise control
• Hands-free operation with foot pedal
• Swivel casters for easy movement

AUTOMOTIVE HIGH RISE TRANSMISSION JACK
1,000 lbs. Capacity
The automotive High Rise Transmission Jack (MHTJ) is easy to maneuver and includes a nylon strap to quickly and conveniently secure the load. Acme threaded screw provides greater bearing surface for easy lift adjustments.

销售收入
Fly wheel adapter

FLOOR SERVICE JACK
Up to 20,000 lbs. Capacity
The Floor Service Jack (MFSJ) has a low start height combined with a high lift height to accommodate multiple vehicles. Its heavy duty steel frame design stands up to the most vigorous shop use.

Features & Advantages
• Large front wheels and heavy duty wheel swivel casters allows portability and durability
• Includes manual pump feature
• Heavy duty steel frame
• Low start height and high lift height

FORKLIFT JACK
Up to 15,442 lbs. Capacity
Featuring a low starting height of only 2.25 inches, the Forklift Jack (MFLJ) boasts a hold-to-run release knob that provides a slower decent rate allowing precise control. A two-position lift pad easily adjusts for handling of flat or edged surfaces.

Note: 7TF and 25TF support stands recommended for use with Forklift Jack
TRUCK SERVICE LIFT
50,000 lbs. Capacity

The number one seller in fleet operations and dealerships. The Truck Service Lift (MTSL-50S) features an internal design that raises the ram to the maximum height at a fast rate of speed. Its field ready design makes it ideal for road service work.

Features & Advantages
- 3 position handle is portable and flexible
- Anti-corrosive system protects internal hydraulic system
- Special coating protects from rust and corrosion
- Low 8” start height for ease of positioning and spotting under low profile vehicles
- 3’ height adapter

Technical Data MTSL-50S MTSL-50 MTSL-50LP MTSL-70
- Vertical Reach 10’ 9’ 8’ 8’
- Minimum Start Height 8” 8” 8” 8.12”
- Maximum Height 10’ 9’ 8’ 8’
- Power Source Air/Hydraulic Air/Hydraulic Air/Hydraulic Air/Hydraulic
- Required Air Pressure 90-200 PSI 90-200 PSI 90-200 PSI 110-200 PSI

SHIP PRESS
75 Ton Capacity

The precision internal power system of the 75 ton Shop Press is designed to advance the ram at a high rate of speed while eliminating over travel.

Features & Advantages
- Moveable work-head is adjustable side-to-side up to 32 inches and locks in place
- High speed advance and over-travel elimination save you time and money
- Air powered ram retraction
- Hand operated air valve with a 54 inch air hose

LOW CLEARANCE TRUCK SERVICE LIFT
50,000 lbs. Capacity

Low Clearance Truck Service Lift (MTSL-50S) designed for easy positioning and spotting underneath low profile vehicles.

Features & Advantages
- Air/hydraulic operated
- A low 9” start height for ease of positioning and spotting under low profile vehicles
- Unique Quicklift design raises the ram to the load at a quick rating speed
- Air ram retract utilizes shop air to reset the ram back to minimum starting height
- Field ready design makes it perfect for road service work
- Anti-corrosive system protects internal hydraulic system
- Black armor coating protects the ram from rust and corrosion
- Compact and strong design allows for easy transportation on road

FLOOR CRANES
Up to 4,400 lbs. Capacity

The heavy-duty Floor Cranes are designed for easy positioning and spotting underneath low profile vehicles.

Features & Advantages
- Manual or air operated option
- Legs adjust for clearance
- Folds easily for compact storage
- Optional load positioning sling for perfect engine adjustment

SHOP PRESS
75 Ton Capacity

The precision internal power system of the 75 ton Shop Press is designed to advance the ram at a high rate of speed while eliminating over travel.

Features & Advantages
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- Air ram retract utilizes shop air to reset the ram back to minimum starting height
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- Anti-corrosive system protects internal hydraulic system
- Black armor coating protects the ram from rust and corrosion
- Compact and strong design allows for easy transportation on road

TRUCK SERVICE LIFT
70,000 lbs. Capacity

Truck Service Lift (MTSL-70) is designed for easy positioning and spotting underneath vehicles.

Features & Advantages
- Air/hydraulic operated
- Low 9 1/2” start height for ease of positioning and spotting under low profile vehicles
- Unique Quicklift design raises the ram to the load at quick rating speed
- Air ram retract utilizes shop air to reset the ram back to minimum starting height
- Field ready design makes it perfect for road service work
- Anti-corrosive system protects internal hydraulic system
- Black armor coating protects the ram from rust and corrosion

HEAVY-DUTY LIFTING TABLE
2,000 lbs. Capacity

The heavy-duty Lifting Table (LT-20) easily handles heavy parts and drive train components.

Features & Advantages
- Long lasting hydraulic pump
- High pressure hydraulic hose
- Electro/hydraulic operated

ENGINE STAND
6,000 lbs. Capacity

The Engine Stand (ES-60-N60) safely handles and positions most diesel engines. Its mounting heads rotate 360 degrees and tilts for complete engine clearance. A long handle easily rotates engine and floor locks keep the stand from moving during repairs.

Features & Advantages
- Optional load positioning load

Component Jacks and Workshop Equipment

www.maha-usa.com
HEAVY-DUTY OIL FILTER CRUSHER
Crushes 16" Tall Oil Filters

The heavy-duty Oil Filter Crusher (MQP-160) is built with a mounting stand for quick and easy set-up and installation. The MQP-160 crushes up to 16" tall oil filters using 22,000 lbs. of air pressure, crushing force and extracts up to 95% of used oil from the filter.

Features & Advantages
- Interlock to prevent door from opening until the ram is fully retracted
- 100% air operated, no electrical connections required
- Removable catch basin allows crusher to be cleaned periodically
- Accommodates up to 4 automotive spin-on filters
- Mounting stand allows no complicated set-up and installation

AUTOMOTIVE OIL FILTER CRUSHER
Crushes 9" Tall Oil Filters

The automotive Oil Filter Crusher (MQP-50) crushes up to 9" tall oil filters using 18,000 lbs. of air pressure crushing force and extracts up to 95% of used oil from the filter.

Features & Advantages
- 100% air operated
- Accommodates up to 4 automotive spin-on filters
- Interlocking feature prevents door from opening until the ram is fully retracted
- Removable catch basin allows crusher to be cleaned periodically
- Up to 18,000 lbs. of air pressure crushing force
- Extracts up to 95% of used oil from the filter

PORTABLE OIL DRAIN
25 Gallon Capacity

The Portable Oil Drain (WOD-25) is built with a rugged steel construction for years of emptying fluids from storage tanks quickly and easily. Large wheels and swivel casters make our oil drain easy to move around any workshop.

Features & Advantages
- Rugged steel construction with large wheels and swivel casters
- Heavy duty 15.75" diameter drainage with filter screen
- 30.5" long evacuation hose with 25 NPT air coupler
- Oil level sight gauge
- Adjustable tube height from 53.5" – 79.5"
- Standard shop air pressure quickly empties used fluids from the storage tank

Technical Data

Component Jacks and Workshop Equipment
www.maha-usa.com
866-624-2872

HIGH RISE WHEEL DOLLY
Air/Hydraulic Operated

Our heavy-duty High Rise Wheel Dolly (MWDH-12) is capable of handling a variety of tire and wheel assemblies including truck, aircraft ground support vehicles and farming equipment applications.

Features & Advantages
- Air assisted hydraulic power system
- Flexible design for super single and dual wheel assemblies
- Internal bearings provide smooth rotation of the arms for aligning wheel assemblies to hubs
- Combines fore/aft with side-to-side tilting adjustments

LOW RISE WHEEL DOLLY
Manually Operated

The heavy-duty Low Rise Wheel Dolly (MWD-150S) handles a variety of tire and wheel assemblies including truck, aircraft ground support vehicles and farm equipment applications. Its internal bearings provide smooth rotation of the arms for aligning wheel assemblies to hubs.

Features & Advantages
- Flexible design for super single and dual wheel assemblies
- Internal bearings provide smooth rotation of the arms for aligning wheel assemblies to hubs
- Removable parts tray
- Offset column allows open work space when removing wheel assemblies
- Swivel casters for portability throughout shop

Technical Data

Component Jacks and Workshop Equipment
www.maha-usa.com
866-624-2872

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Crushes 16" Tall Oil Filters

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- Heavy duty 15.75" diameter drainage with filter screen
- 30.5" long evacuation hose with 25 NPT air coupler
- Oil level sight gauge
- Adjustable tube height from 53.5" – 79.5"
- Standard shop air pressure quickly empties used fluids from the storage tank

Technical Data
Dependable, durable and environmentally safe, the ATS series of Exhaust Extraction Systems remove lethal emission fumes and air pollutants for a safer and healthier work environment.

- ATS SERIES -
EXHAUST EXTRACTION SYSTEMS

MAHA USA’s Exhaust Extraction Systems capture and remove toxic fumes and pollutants caused by vehicle exhaust emissions and other sources. Solutions include turnkey extraction systems designed for easy integration into daily work operations. Customized and innovative solutions allow MAHA USA’s exhaust extraction system to encompass a wider range of industry applications.

1. HOSE REELS EXTRACTION
   - Stationary Spring / Motorized Hose Reels and Mobile Spring / Motorized Hose Reels
   - Hose Reels offer one of the most convenient methods available for extracting and removing harmful exhaust fumes and gases. All reels carry high quality exhaust hose on a drum, fixed at high levels, which can be unwound and attached to the vehicle exhaust using a clamping nozzle when needed. While not in use, the hose is retracted onto the reel, leaving floors clear of obstruction; promoting safety in garages while improving air quality.

2. ALUMINUM SLOTTED SUCTION DUCT SYSTEMS
   - Cars & Light-Duty Trucks
     - Convenient traveling hose trolleys, allow you to position a vehicle anywhere in the service area with the ability to move the vehicle within your shop with the exhaust extraction system still connected.
     - Heavy Duty Trucks & Buses
     - Designed with larger exhaust hoses and clamping devices to accommodate the high volume of exhaust emitted from trucks and buses. The monorail hose reels and trolleys are mobile and can easily be moved from one service bay to another.
     - Construction & Military Vehicles
     - Designed with larger exhaust hoses and clamping devices to accommodate the high volume of exhaust emitted by these type of super heavy-duty vehicles. The monorail hose reels and trolleys are mobile and can be easily moved from one service bay to another.

3. WELDING FUME AND HIGH VACUUM EXTRACTION
   - High-vacuum Welding Fume Extraction System that removes pollution from fumes, gas and dust in an enclosed shop environment.

4. DYNO EXHAUST EXTRACTION
   - Designed to work in conjunction with Engine Dynamometer testing. These systems typically use a high temperature hose, stainless steel nozzles and a high output fan. The system can be set up with a monorail suction duct, stationary hose or hose reel.

5. CNG EXTRACTION
   - CNG (Compressed Natural Gas) is an alternative fuel to diesel and burns at a much higher temperature. CNG vehicles require the use of a high temperature flame resistant hose 1200ºF, a spark resistant fan, and a stainless steel nozzle and clamping device. These systems can use monorail, hose reel and stationary hose.

6. CUSTOM DESIGN EXTRACTION SYSTEMS
   - Fully automatic heavy-duty and customized systems designed so the control and mechanical functions are adapted to user’s specific workflow and operating regulations.

7. MOBILE EXTRACTION SYSTEM
   - A complete “plug and play” mobile suction and filter unit that can be used for many different applications which require the filtration of fumes, dust and gases.
- HL CS -
HYDRAULIC 2-POST LIFT

For cars and trucks weighing up to 10,000 pounds. Designed with superior strength and durability. Technicians can rely on the HL CS’s powerful and efficient drive, resulting in faster and safer lifting, with a lower energy consumption.

**FEATURES & ADVANTAGES**

- Base-free framework eliminates tripping hazards
- Powerful and reliable drive is very energy-efficient
- Various heights are available
- Low-profile support arms are available to accommodate low clearance vehicles
- Mechanical safety catch with manual unlocking device

**HL CS SPECIFICATIONS**

**Technical Data**

<table>
<thead>
<tr>
<th></th>
<th>HL CS 9,000 lbs</th>
<th>HL CS 10,000 lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity (CE)</td>
<td>9,000 lbs.</td>
<td>10,000 lbs.</td>
</tr>
<tr>
<td>Lifting Height (CE)</td>
<td>76”</td>
<td>76”</td>
</tr>
<tr>
<td>Arm Clearance (HL)</td>
<td>3.5”</td>
<td>4.33”</td>
</tr>
<tr>
<td>Rubber Pads Adjustment Range (HT)</td>
<td>2.5” - 6.5”</td>
<td>2.5” - 6.5”</td>
</tr>
<tr>
<td>Short Arm Extensions (LT)</td>
<td>30.5” - 44”</td>
<td>30.5” - 44”</td>
</tr>
<tr>
<td>Long Arm Extensions (LT)</td>
<td>23” - 40”</td>
<td>23” - 40”</td>
</tr>
<tr>
<td>Extensions for Special Transporter Arms</td>
<td>43.3” - 63”</td>
<td></td>
</tr>
<tr>
<td>Overall Height (HG)</td>
<td>142.7”</td>
<td>164.4”</td>
</tr>
<tr>
<td>Height up to Cross Beam (HL)</td>
<td>136.4”</td>
<td>158.1”</td>
</tr>
<tr>
<td>Total Width (BG)</td>
<td>137.2”</td>
<td>137.2”</td>
</tr>
<tr>
<td>Inside Column Width (BA)</td>
<td>110.2”</td>
<td>110.2”</td>
</tr>
<tr>
<td>Drive Through Clearance (BH)</td>
<td>96.45”</td>
<td>96.45”</td>
</tr>
<tr>
<td>Weight without Packing</td>
<td>1544 lbs.</td>
<td>1544 lbs.</td>
</tr>
<tr>
<td>Motor</td>
<td>2.95 HP / 2.2 kw</td>
<td>2.95 HP / 2.2 kw</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230V 60HZ 3 Phase</td>
<td>230V 60HZ 3 Phase</td>
</tr>
<tr>
<td>Fuse Protection</td>
<td>15 amperes</td>
<td>15 amperes</td>
</tr>
<tr>
<td>Hydraulic Oil</td>
<td>4 gallons / 15 liters</td>
<td>4 gallons / 15 liters</td>
</tr>
<tr>
<td>Shipping Dimensions</td>
<td>163“ / 4149 mm / 30.31”</td>
<td>163“ / 4149 mm / 30.31”</td>
</tr>
<tr>
<td>Concrete Quality</td>
<td>4.5” / 1143 PSI</td>
<td>4.5” / 1143 PSI</td>
</tr>
</tbody>
</table>

**HEIGHT OPTIONS**

1. **LOW CLEARANCE**
   A total height of only 11.89’, the low clearance option is designed for low ceiling height facilities.

2. **STANDARD**
   A total height of 13.71’, the standard option is perfect for installation in most workshop facilities.

3. **HIGH VERSION**
   15.15’ of clearance to the crossbeam, the high version is the perfect solution for lifting high top vehicles.

4. **LOW CLEARANCE ARMS**
   3.5” arm height - for low-clearance vehicles such as sports cars.

MAHA locking arms restraints open automatically when fully-lowered and ensure reliable and convenient positioning of swing arms. Oversized arm pins for additional strength.

Optional lifting extensions for long wheel base vehicles.

**Tray sets provide a cleaner and safer work environment and ensure efficient storage of all optional adapters.**

Three stage front arms for easy and asymmetric setting. Large door opening space.

Ergonomic operation

- Secure electric height-limit switch
- Tray sets provide a cleaner and safer work environment and ensure efficient storage of all optional adapters.
- MAHA locking arms restraints open automatically when fully-lowered and ensure reliable and convenient positioning of swing arms. Oversized arm pins for additional strength.
- Optional lifting extensions for long wheel base vehicles.

For cars and trucks weighing up to 10,000 pounds. Designed with superior strength and durability. Technicians can rely on the HL CS’s powerful and efficient drive, resulting in faster and safer lifting, with a lower energy consumption.
- ECON 6.5 -
ELECTROMECHANICAL 2-POST LIFT

For over four decades, the MAHA Group is still standing out today, building some of the safest and most durable vehicle lifts for OEMs and the entire automotive industry.

FEATURES & ADVANTAGES

• No-base frame posts built with two electronically controlled electric motors.
• Highly stable post design.
• Long-lasting oil lubrication for spindle and nut.
• Automatic support-arm restraint includes an additional manual release.
• Excellent lifting height.
• Ideal for cargo vans.
• Carriage guide is located inside the load-bearing post with maintenance free steel rollers.
• Low-wear and low-maintenance plastic support nut.
• Electronic microprocessor controls with self-monitoring safety functions: synchronized movement, phase failure, belt breakage, support nut wear, motor overload, limit switch cut-off (top/bottom and for obstacles).
• Outstanding corrosion-protection thanks to durable powder coating.
• 110 Volt power socket on control unit.
• Four support arms, double-telescoping (3-piece) with roller-bearing mounted support for support arms.
• 4 x 50 mm support extension adapters with other adapters (100/150/200 mm) available as an option.

FREE STANDING COLUMN DESIGN!

14,000 LBS CAPACITY!

• Three-Stage Low Clearance Support Arm Extensions up to 74”
• Extension Aid Support Running on Roller Bearings
• Maintenance Free Steel Extensions
• Non-Wearing and Dirt-Resistant Proximity switch for no-contact determination of lifting height
• Free-Standing Column Design
• No-Maintenance Self-Aligning Ball Bearings
With lifetime lubrication for the upper spindle bearing

POWER + QUALITY

Technical Data ECON 6.5

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Capacity (CE)</td>
<td>14,000 lbs</td>
</tr>
<tr>
<td>Column Height (HS)</td>
<td>11’</td>
</tr>
<tr>
<td>Max. Lifting Height (HS)</td>
<td>83.7”</td>
</tr>
<tr>
<td>Minimum Pad Height (HU) Support Arm (LT)</td>
<td>6”</td>
</tr>
<tr>
<td>Adjustment Range, Support Disc (HT)</td>
<td>5”-9.8”</td>
</tr>
<tr>
<td>Lower Edge, Braced (MD)</td>
<td>max. 181”</td>
</tr>
<tr>
<td>Total Height (HT)</td>
<td>max. 182”</td>
</tr>
<tr>
<td>Extension Range, Support Arms (LT) (Double-Telescoping)</td>
<td>33”-74”</td>
</tr>
<tr>
<td>Outer Column Width (BA)</td>
<td>140”</td>
</tr>
<tr>
<td>Outer Dimensions, Base Plate (BG)</td>
<td>147.6”</td>
</tr>
<tr>
<td>Max. Drive-Through Clearance (BH)</td>
<td>110.6”</td>
</tr>
<tr>
<td>Lifting Distance (HW)</td>
<td>74.8”</td>
</tr>
<tr>
<td>Net Weight</td>
<td>3,152 lbs</td>
</tr>
<tr>
<td>Lifting/Lowering Time</td>
<td>Depending on Load, approx. 40s / 40s</td>
</tr>
<tr>
<td>Drive Power</td>
<td>2 x 4.4kW</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>3 x 230 V, 3 Phase</td>
</tr>
<tr>
<td>Concrete Requirements</td>
<td>8”-4” 4,000 PSI</td>
</tr>
</tbody>
</table>

For over four decades, the MAHA Group is still standing out today, building some of the safest and most durable vehicle lifts for OEMs and the entire automotive industry.
- TWIN 9000 -
DOUBLE SCISSOR LIFT

Designed to lift vehicles weighing up to 9,000 lbs with strength & durability.

WHY OUR DOUBLE SCISSOR LIFT RISES ABOVE THE COMPETITION

1. Strong and Durable
MAHA USA’s innovative raising lever allows powerful, full lifting force, even in the lowest height range. Small wheel based vehicles are guaranteed to have wheel free access. In addition, the TWIN 9000 can be customized to accommodate diverse automobile styles, including low clearance and narrow frame vehicles. In-ground or above-ground installations are available.

2. Optimum Safety
Each scissor is equipped with a synchronized redundancy system that increases reliability and safety through years of tough, demanding use. An acoustic signal control (CE-Stop) provides crush/pinch protection and every TWIN 9000 is equipped with an emergency shut off function. Pipe breakage safety function adds security in the lifting cylinders.

3. Space Saving Design
With no in-between connections, technicians have access to perform all types of work. Up to five TWIN 9000s will install in the same space that would normally support three 2-post lifts. In addition, a quick lifting and lowering time results in increased turnaround time and revenue.

ADDED FEATURES

Unique Arm Profile
High directional stability due to special scissors arm profile.

Ramp Extension
Long drive-over approach ramps for lower vehicles. (optional)

Vehicle Contact Protection
Various support blocks and optional polymer pads are available for safe lifting and vehicle underbody protection.

Flexible Support Plate Length
Continuous adjustable support plate length.

LIFT VARIOUS TYPES OF VEHICLES
Even short wheelbase cars are guaranteed to have wheels-free access. The lift can also be customized to accommodate unusual automobile designs, including low clearance and narrow-frame vehicles.

INCREASED PRODUCTIVITY
Install five TWIN 9000 double scissor lifts in a space that would normally fit three 2-post lifts.

INNOVATIVE RAISING LEVER
Smooth extension and retraction when fully lowered. Raising lever allows full lifting force in the lowest height range.

AUTOMATIC SYNCHRONIZATION
Does not require manual synchronization. It uses a two cylinder system with a cable pull potentiometer that electronically measures cylinder movement and automatically equalizes the travel of each runway during entire lifting and lowering procedure.

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>TWIN 9000 Surfaced Mounted</th>
<th>TWIN 9000 Flush Mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>9,000 lbs</td>
<td>9,000 lbs</td>
</tr>
<tr>
<td>Lifting Height</td>
<td>79.75’</td>
<td>73’</td>
</tr>
<tr>
<td>Lifting Time</td>
<td>44 seconds (capacity 3,307 lbs)</td>
<td>46 seconds (capacity 7,000 lbs)</td>
</tr>
<tr>
<td>Low Clearance</td>
<td>5.2”</td>
<td>5.2”</td>
</tr>
<tr>
<td>Length of Platforms</td>
<td>61.25’ - 81.5’</td>
<td>61.25’ - 81.5’</td>
</tr>
<tr>
<td>Width of Platforms</td>
<td>26.5’</td>
<td>26.5’</td>
</tr>
<tr>
<td>Total Width Recommended</td>
<td>82.75’</td>
<td>82.75’</td>
</tr>
<tr>
<td>Motor Power</td>
<td>2 HP</td>
<td>2 HP</td>
</tr>
<tr>
<td>Fuse Protection</td>
<td>20 A</td>
<td>20 A</td>
</tr>
<tr>
<td>Compressed Air Supply</td>
<td>Min. 90 PSI</td>
<td>Min. 90 PSI</td>
</tr>
<tr>
<td>Power Supply</td>
<td>208/230 V 60 Hz 1-Phase</td>
<td>208/230 V 60 Hz 1-Phase</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>2,700 lbs</td>
<td>2,700 lbs</td>
</tr>
</tbody>
</table>

INCREASE PRODUCTIVITY
Install five TWIN 9000 double scissor lifts in a space that would normally fit three 2-post lifts.

INNOVATIVE RAISING LEVER
Smooth extension and retraction when fully lowered. Raising lever allows full lifting force in the lowest height range.

Flexible Support Plate Length
Continuous adjustable support plate length.

No mechanical connection between both sides gives free access between both platforms.

Continue longitudinal adjustable support plates offer high operating comfort.

No compressed air needed for operation.

Pipe breakage safety function adds security in the lifting cylinders.
- DUO CM SERIES -
WHEEL ALIGNMENT SCISSOR LIFT

The DUO CM 4.2 and 5.0 is ideal for wheel alignment work on vehicles weighing up to 11,000 pounds.

**WHY OUR SCISSOR LIFT TECHNOLOGY RISES ABOVE THE COMPETITION**

Linear-Absolute-Travel Measurement System
All DUO CM Scissor Lifts utilize state-of-the-art measurement technology that makes all the difference.

Features & Advantages:

- Measurement system is integrated into cylinder, completely protected against dirt, moisture and temperature fluctuations
- Non-contact system makes it free of wear and tear
- Synchronization regulation automatically compensates position deviation
- User is free from leveling runways and wheel-free jack
- Lift stops lowering automatically on a one-sided collision with an obstacle at risk (no diagonal light barrier needed)
- Programmable holding point for ergonomic working height
- No keys or inductive sensors needed to determine relevant lifting heights (Lift lowered / Lift up / CE Stop height), meaning less cables and components within the lift
- Two parallel switched lifting cylinders create less system pressure, ensuring a long life of the hydraulic components

**DUO CM FEATURES & ADVANTAGES**

- Sliding bearing and lubrication nipple
- Cable and hydraulic hose guidance in premium energy guidance chains
- Cable and hydraulic hoses are integrated into the scissor tube
- The large runway length makes the DUO CM ideal for 3D wheel alignment

**Technical Data**

<table>
<thead>
<tr>
<th>DUO CM 4.2 A</th>
<th>DUO CM 4.2 U</th>
<th>DUO CM 5.0 A</th>
<th>DUO CM 5.0 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting Capacity</td>
<td>9,000 lbs.</td>
<td>9,000 lbs.</td>
<td>11,000 lbs.</td>
</tr>
<tr>
<td>Lifting Time</td>
<td>45 seconds</td>
<td>45 seconds</td>
<td>50 seconds</td>
</tr>
<tr>
<td>Low Clearance</td>
<td>9.45&quot;</td>
<td>n/a</td>
<td>11.42&quot;</td>
</tr>
<tr>
<td>Runway Length (LF)</td>
<td>173.23&quot; / 188.98&quot;</td>
<td>173.23&quot; / 188.98&quot;</td>
<td>204.72&quot;</td>
</tr>
<tr>
<td>Runway Width (BF)</td>
<td>24.29&quot;</td>
<td>24.29&quot;</td>
<td>24.80&quot;</td>
</tr>
<tr>
<td>Total Dimensions L x W</td>
<td>232.28&quot; x 81.69&quot;</td>
<td>232.28&quot; x 81.69&quot;</td>
<td>263.78&quot; x 87.01&quot;</td>
</tr>
<tr>
<td>Hydraulic Unit (HP)</td>
<td>3.35</td>
<td>3.35</td>
<td>3.35</td>
</tr>
<tr>
<td>Hydraulic Oil Quantity</td>
<td>10.6 gallons</td>
<td>10.6 gallons</td>
<td>10.6 gallons</td>
</tr>
<tr>
<td>Power Supply</td>
<td>230V 60 Hz 3 Phase 20A</td>
<td>230V 60 Hz 3 Phase 20A</td>
<td>230V 60 Hz 3 Phase 20A</td>
</tr>
<tr>
<td>Weight of Lift</td>
<td>5844 lbs.</td>
<td>5844 lbs.</td>
<td>6615 lbs.</td>
</tr>
<tr>
<td>Weight Including Packing</td>
<td>5954 lbs.</td>
<td>5954 lbs.</td>
<td>7056 lbs.</td>
</tr>
</tbody>
</table>
MAHA USA | Vehicle Inspection Lane

- EXPRESS CHECK -
VEHICLE INSPECTION LANE
Quickly Diagnose the Overall Health of a Vehicle in Minutes.

MAHA USA’s Express Check Vehicle Inspection Lane quickly performs multiple tests to check the overall health of a vehicle from head-to-toe in just minutes. These findings eliminate missed service opportunities and revitalize the amount of service work performed during a single customer visit.

CUSTOMIZE YOUR INSPECTION LANE WITH THE POWER OF MAHA’S TESTING TECHNOLOGY

SLIDE SLIP TEST: Diagnose Wheel Alignment
Inspect the axle geometry of the vehicle in less than one minute. The results from this test often confirm the need for a wheel alignment adjustment.

SHOCK ABSORBER TEST: Diagnose Defective Shocks
Determine the axle damping of both front and rear axles according to the Boge principle. Given the increasing rate of defective shock absorbers, the identification and replacement of faulty shock absorbers can pay off the investment of an inspection lane in just 6 months!

INSTANT NOISE DETECTION: Find Noise Complications
Because MAHA USA’s Express Check Vehicle Inspection Lane runs smoothly and quietly, the detection of noise is easily pinpointed for proper diagnosis. Noise is recognized and localized within seconds.

ROLLER BRAKE TESTING: Diagnose Faulty Brakes
MAHA is the pioneer of brake testing. In fact, our founder invented the modern performance brake tester! MAHA USA’s Express Check Vehicle Inspection Lane incorporates a premium line of roller brake testers. Using a patented “correct” all-wheel drive test, the brake tester provides a complete objective assessment of the vehicle’s brake force within seconds.

TIRE TREAD DEPTH: Determine the Tire’s Condition
MAHA USA’s unique fully-automatic tire tread depth diagnostic system uses special LED multi-projectors and high-resolution cameras for measuring the contact surface of the tires when passing the module, resulting in complete and accurate measurement of tire tread depths from all surfaces of the tire.

VISUAL INSPECTION: Quickly Spot Problems
An optional platform lifting device allows the technician to visually check for obvious problems such as oil leaks and defects in key areas such as the muffler system.

PLAY DETECTOR: Discover Wear and Tear on Key Components
Rapidly detect signs of wear and tear on steering components, wheel bearings, suspension and chassis mountings. To accomplish this, the axle systems are tested by applying defined loads through hydraulically actuated test plates.

DIGITAL HEADLIGHT TESTING: Test the Newest Headlight Technology, Including the Matrix Beam System, LED & Dynamic Light Assistance
The MLT 3000 Headlight Tester was developed in partnership with leading automobile manufacturers, resulting in a cutting-edge digital headlight tester with the capability to easily and accurately test the industry’s newest technology.

RAPID RESULTS: Detailed Reporting
The Express Check Vehicle Inspection System is controlled by the user-friendly MCD 2000 Communication Desk. This “brain” of the system, controls the data management of all the connected test equipment and provides easy to read displays and print-outs highlighting the findings of each inspection to share with your customer.

40

41
- MBT 7250 -
BELOW FLOOR PERFORMANCE BASED BRAKE TESTER

A Performance Based Brake Tester (PBBT) is a roller dynamometer based brake testing system. The brake performance measurements provided by a PBBT is an industry accepted reference with the capability to dynamically measure a vehicle’s rolling resistance, brake threshold pressure, service brake force, parking brake force, anti-lock braking system (ABS) sensors, valves, and wiring.

BELOW FLOOR PERFORMANCE BASED BRAKE TESTER
A permanent Below Floor Performance Based Brake Tester for fleet, truck service shops and test stations. Designed with a durable steel construction, the MBT 7250 is available for pit or standard shop floors. A brake force measures up to 9,000 pounds per wheel, with clear and accurate results, the use of the MBT 7250 is a key factor in improving the safety of motor carrier operations on our highways.

Features & Advantages:
- Includes interface for PC, monitor and printer
- Automatic or manual start-up monitoring
- Uses an electronic strain gauge measurement system
- Strong, service friendly technology
- DC-brake/electronic roller exiting support
- Integrated weighing system
- High friction grit roller surface

PBBT certified per functional specifications published in the Federal Register (65 FR 48799)

Technical Data MBT 7250 (Below Floor)

<table>
<thead>
<tr>
<th>Standard Power Supply</th>
<th>230V / 3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle Load</td>
<td>Up to 40,000 lbs.</td>
</tr>
<tr>
<td>Roller Diameter</td>
<td>10.4&quot;</td>
</tr>
<tr>
<td>Drive Motors</td>
<td>2 x 8.4 hp</td>
</tr>
<tr>
<td>Test Speed</td>
<td>5.4 mph</td>
</tr>
<tr>
<td>Minimum Track Width</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Maximum Track Width</td>
<td>122&quot;</td>
</tr>
<tr>
<td>Dimensions</td>
<td>136.69&quot; x 45&quot; x 27.6&quot;</td>
</tr>
<tr>
<td>Approach / Exit Ramps (L x W)</td>
<td>n/a</td>
</tr>
<tr>
<td>Drive-Over Ramps (L x W)</td>
<td>n/a</td>
</tr>
</tbody>
</table>

- MBT 5250 -
ABOVE FLOOR PERFORMANCE BASED BRAKE TESTER

ABOVE FLOOR (MOBILE) PERFORMANCE BASED BRAKE TESTER
In response to service and testing stations in need of a mobile performance based brake testing system, we have developed the Above Floor Brake Tester, allowing easy transportation of the MBT 5250 to different locations. In addition to flexibility and saving valuable workshop floor space, quick set up and easy handling are two of its greatest advantages.

Features & Advantages:
- Includes interface for PC, monitor and printer
- Automatic or manual start-up monitoring
- Uses an electronic strain gauge measurement system
- Uses digital measurement value recording and storage
- Strong, service friendly technology
- DC-brake/electronic roller exiting support
- Low approach height of only 6" (2.5"
- Modular ramp system
- Prepared for mobile assignments with ramp operation
- Integrated weighing system
- High friction grit roller surface

PBBT certified per functional specifications published in the Federal Register (65 FR 48799)

Technical Data MBT 5250 (Above Floor)

<table>
<thead>
<tr>
<th>Standard Power Supply</th>
<th>230V / 3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle Load</td>
<td>Up to 40,000 lbs.</td>
</tr>
<tr>
<td>Roller Diameter</td>
<td>5&quot;</td>
</tr>
<tr>
<td>Drive Motors</td>
<td>2 x 3.5 hp</td>
</tr>
<tr>
<td>Test Speed</td>
<td>5.43 mph</td>
</tr>
<tr>
<td>Minimum Track Width</td>
<td>33.5&quot;</td>
</tr>
<tr>
<td>Maximum Track Width</td>
<td>116&quot;</td>
</tr>
<tr>
<td>Dimensions</td>
<td>117&quot; x 35.5&quot; x 46&quot;</td>
</tr>
<tr>
<td>Approach / Exit Ramps (L x W)</td>
<td>68&quot; x 45&quot;</td>
</tr>
<tr>
<td>Drive-Over Ramps (L x W)</td>
<td>32&quot; x 45&quot;</td>
</tr>
</tbody>
</table>

BRAKE PROBLEMS ARE TO BLAME FOR NEARLY 30% OF CRASHES INVOLVING COMMERCIAL MOTOR VEHICLES.*

*Study sponsored by the Department of Transportation (DOT) and Federal Motor Carrier Safety Administration.

EASILY OPERATED
Feature software that offers easy instructions for brake testing.
MAHA USA | Axle and Ball Joint Play Tester

ADVANTAGES

- Fast determination of faults and wear at steering parts, wheel bearings, spring systems and mounting suspensions
- Single man operation
- Check the wheel bearing clearance without lifting the vehicle
- Extremely robust self-supporting design
- Two test plates integrated in the base at ground level
- Powerful and even movement using a hydraulic drive
- Low-maintenance
- Low noise oil-submerged unit (over-oil unit, optional)
- Two test plates installed at floor level in the foundation
- Slide bearing on a hard-chromed circular guide
- Defects and wear quickly determined on steering parts, springs and support parts
- One-handed operation, no pit jack required
- Cable-free radio hand lamp for controlling longitudinal and transverse movements of the test plates
- Left-hand plate can be operated individually with longitudinal and transverse movements, right-hand plate individually with longitudinal movements
- TÜV and GS approved

- LMS AND PMS -
AXLE AND BALL JOINT PLAY TESTERS
For Passenger Cars, Vans, Buses and Trucks with a Maximum Axle Load of up to 20 tons.

Rapid inspection of steering linkage, wheel bearings and suspension. The extremely rugged, self supporting design features two flush-mounted test plates and its hydraulic drive ensures powerful, smooth movement. Conveniently operated through a radio-controlled remote with flash light.

THE RADIO HAND LAMP

- Small size for excellent handling
- Lightweight and ergonomic form as well as anti-slip, rubber surface
- Shatter resistant casing
- LED lighting with intense lighting power and low electrical consumption
- Various fixing and storage possibilities via loop, clip and (removable) magnet
- Rugged, mechanical transmission key
- Rugged foil keypad as function keys

Technical Data PMS 3/2 LMS 20/2

<table>
<thead>
<tr>
<th>Description</th>
<th>PMS 3/2</th>
<th>LMS 20/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Axle Load</td>
<td>7000 lbs / 3.5 t</td>
<td>40,000 lbs / 20 t</td>
</tr>
<tr>
<td>Test Plate Movement</td>
<td>4&quot; x 4&quot;</td>
<td>4&quot; x 4&quot;</td>
</tr>
<tr>
<td>Movement Speed (for standard movement)</td>
<td>145 mm/s</td>
<td>30 mm/s</td>
</tr>
<tr>
<td>Max. Thrust for Each Side</td>
<td>2472 lbf / 11 kN</td>
<td>6744 lbf / 30 kN</td>
</tr>
<tr>
<td>Hydraulic Pressure</td>
<td>1740 PSI / 120 bar</td>
<td>1740 PSI / 120 bar</td>
</tr>
<tr>
<td>Motor Power</td>
<td>3.35 hp / 2.5 kW</td>
<td>3.35 hp / 2.5 kW</td>
</tr>
<tr>
<td>Power Supply</td>
<td>3 phase x 230V</td>
<td>1 phase 208/230V</td>
</tr>
</tbody>
</table>

Operation with cable inspection lamp.
MLT 3000
DIGITAL HEADLIGHT TESTER
LED headlights and headlight assistance technology, including adaptive headlights, cornering lights and automatic and selective high beams are common on many cars today. This new type of technology is making headlight testing more challenging than what it once was. In response, MAHA engineers have worked with leading automobile manufacturers to develop a headlight tester, the MLT 3000, that is capable of accurately testing today’s newest headlight styles. The MLT 3000 identifies one of the biggest night time hazards, extra bright “dazzling” headlights, and as a result, improves driver and pedestrian safety.

FEATURES & ADVANTAGES
• Simple and clearly arranged user guide with graphic menu guide on a multi-functional LCD display
• Uses the latest electronics and camera technology
• Includes camera positioning and tilt sensor
• You can transfer the data acquired to a PC
• A balance weight integrated in the column allows the user to comfortably adjust the measurement housing single handedly
• Robust and maintenance-free design
• All known lighting systems such as Dynamic Light Assist and highway lighting have been taken into account
• Works with Xenon and LED lighting
• Can be upgraded for future lighting systems via software

MLT 1000
ANALOG HEADLIGHT TESTER
The MLT 1000 Analog Headlight Tester provides quick and accurate testing of headlight settings. Portable and easy to move, this simple to operate headlight tester is easily incorporated into any workshop operation. Due to the large scale Fresnel lens, multiple light sources can be tested without constant repositioning. Additionally, the MLT 1000 offers a high quality and ergonomic design.

FEATURES & ADVANTAGES
• User-friendly operation
• Robust, maintenance-free design
• Ergonomic handling
• Easy to position in front of vehicle
• Helpful options, such as optional laser alignment and rails

Technical Data MLT 1000
<table>
<thead>
<tr>
<th>Measurement Range</th>
<th>MLT 1000</th>
</tr>
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<tbody>
<tr>
<td>Above Measurement Range</td>
<td>0-30 cm/10 m (0-3%)</td>
</tr>
<tr>
<td>Left Measurement Range</td>
<td>0-40 cm/10 m (0-4%)</td>
</tr>
<tr>
<td>Right Measurement Range</td>
<td>0-40 cm/10 m (0-4%)</td>
</tr>
<tr>
<td>Luminous Intensity</td>
<td>0-125000 cd</td>
</tr>
<tr>
<td>Illumination Intensity</td>
<td>0-200 LX</td>
</tr>
<tr>
<td>Working Range</td>
<td>5 to 115 Degrees Fahrenheit</td>
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<tr>
<td>Power Supply</td>
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- MLT SERIES -
HEADLIGHT TESTERS
Precisely Test the Automotive Industry’s Newest Headlight Systems Including LED, Matrix Beam Systems and Dynamic Light Assist.

Headlight adjustment units can be fitted with rails or plastic rollers.
Easy alignment through electronic camera positioning and tilt sensor for MLT 3000.
Integrated LCD color display on MLT 3000.
MLT 3000 works with the new xenon and LED light systems and can be upgraded for future systems.
PC connectivity for the MLT 3000.

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- MTD 2000 -
FULLY AUTOMATED TIRE TREAD DEPTH MEASURING DEVICE
Increase Tire Service & Wheel Alignment Sales.

AUTOMATIC TIRE TREAD DEPTH
The MTD 2000 uses special LED multi-projectors and high-resolution cameras for measuring the contact surface of the tires when passing over the module. The primary and secondary tread grooves are automatically differentiated and the measurement results are transferred to the proprietary MAHA test software EUROSYSTEM.

MAXIMIZE WORKFLOW
The MTD offers a quick tire analysis, giving you the opportunity to increase tire service and wheel alignment work. Thanks to the user-friendly open interface architecture system, the tire tread depth measurement results can be directly transferred to the dealer’s management software or to a tire administration system. The acquired data provides service technicians with a tangible and easy-to-read tire diagnosis to share directly with your customers. This can be archived for later evaluation.

EXPERT VIEW
The newest feature of the MTD 2000 is the “Expert View” which provides a detailed graphic assessment of the measured tread shuffle zone. In addition to the exact identification of the profile groove, which is allocated to the displayed measurement value, a detailed printout of the tire images and the relevant measured data is now available.

COMPACT & MAINTENANCE FREE
Thanks to the excellent geometric alignment of the cameras to the light source, the panels of the measurement cartridges are almost in a vertical position. Dirt and water can pass through the measurement cartridge freely. This means, for example, that cleaning with compressed air is no longer necessary during the measuring process. The MTD 2000 software visually removes any dust or splashes of water that may land on the measurement cartridge panel.

HIGHLY ENERGY EFFICIENT
Because of its energy efficient LED technology, the MTD 2000 measurement modules need only 65 W each. When in standby-mode the power consumption is only 15 W. A sensor recognizes an approaching vehicle and only activates the system when needed.

CONVINCING EVIDENCE
The measurement values can be quickly displayed on a PC monitor, mobile device and printed out as an easy-to-read report. The service technician can explain the need for additional tire service and answer questions.

FEATURES & ADVANTAGES

INCREASE YOUR SERVICE SHOP’S TIRE SERVICE & WHEEL ALIGNMENT SALES
The MTD 2000 is bringing missed tire and wheel alignment sales opportunities to an end. Many drivers underestimate the risk a worn tire can hide. In minutes, MAHA USA’s unique tire tread measurement system determines the tire’s condition. Easy-to-read test results give service technicians the opportunity to interact with customers and make them aware of any safety concerns. This will open up the door to write a service quote and close the deal!

EASY INTEGRATION INTO WORKSHOP OPERATIONS

Surface-Mounted
The flat "stand-alone" above-ground surface-mounted design is highly versatile and can be used both stationary or mobile.

Integrated into the Runway
The MTD perfectly integrates into runway lifts like the DUO CM 4.2 or ZS SQUARE II 3.5 / 5.0 PF, and automatically measures the tire tread depth, while the vehicle is being driven on to the lift.

In-Ground
The flush-mount installation can be used as a "stand-alone" and or it can be connected to an existing test lane.
### FEATURES & ADVANTAGES:
- Eddy Current Brake 2WD 1 or 2/ AWD 3 or 4
- Above or below floor installation available as single axle or all-wheel dynamometer
- Flame-sprayed load rollers for optimum power transfer
- Pneumatic lifting bar for easy enter and exit rollers
- Environmental module includes measurement of ambient temperature, intake air temperature, air pressure and humidity
- Power measurement at constant RPM, speed, tractive force
- Graphic and numerical display of wheel, drag, engine power and torque
- Background display of three power measurements
- Displays speed, RPM and oil temperature during power measurement
- Load and road driving simulation with graphical evaluation
- Data collection program for external measurement values
- Projection of engine power according to DIN 70020, EEC 80/1269, ISO 1585, JIS D 1001, SAE J 1349

### MSR 500 / MSR 500-AWD / MSR 1000-AWD

**SINGLE ROLLER CHASSIS DYNAMOMETER**

MSR premium Performance Dynamometers are engineered with proven all-wheel technology. The Dynamometers have the capability to perform in-depth measurements under constant load conditions for the purpose of modifying vehicles. The MSR is available in above or below floor installations and as a single or all-wheel dynamometer.

### FEATURES & ADVANTAGES:
- Extensive diagnostic capabilities for motorcycles.
- Inertia Single Roller Dynamometer for motorcycles, for flush-floor installation
- DYNAMOMETER FOR MOTORCYCLES

**MSR 400 SINGLE ROLLER DYNAMOMETER FOR MOTORCYCLES**

Extensive diagnostic capabilities for motorcycles.

### FEATURES & ADVANTAGES:
- Inertia Single Roller Dynamometer for motorcycles, for flush-floor installation
- User-friendly software provides a structured display of measured values.
- Large variety of recording possibilities of external vehicle measuring data: pressures, temperatures, OBD-data, Analogue signals
- Power measurement at constant RPM, speed, tractive force (Option)
- Graphic and digital display of wheel-, drag-, engine power and torque
- Testing program for speed indicator
- Projection of engine power according to DIN 70020, EEC 80/1269, ISO 1585, JIS D 1001, SAE J 1349
MAHA USA's Mobile DEF Dispenser significantly reduces a fleet's DEF refueling process time by eliminating the need for a third-party DEF refueling station. Designed for fleets that are required to adhere to EPA Emission Standards, this dispenser is equipped to effortlessly move from vehicle-to-vehicle to instantly refuel Diesel Exhaust Fluid in the convenience of the user's workshop.

Features

- Offers ultimate flexibility, mobility and efficiency.
- Features a quad-sensor controlled automatic pump nozzle.
- Nozzle automatically switches off when the maximum fill has been reached. This guarantees no overfilling of the tank.
- Different holding tank capacities available – either 16 gallon or 55 gallon, depending on application.
- Sure-fit components promise no fluid dripping.
- Always ready to use, significantly reducing the refueling process time.
- LIGHT-DUTY -
TIRE CHANGERS

Tire Changers for passenger vehicles and motorcycles.

MAHA TC915 Expert
Swing arm Tire Changer with table top inflators
• Air tank in tower
• Dual clamping cylinders
• Semi-automatic swing arm
• Inserts protect aluminum wheels
• Adjustable table with inflators on each clamp
• Adjustable bead breaker
• Optional Press Arm and Help Arm (one on each side)
• Optional Blast gun for bead seating
• Optional wheel lift
• Comes fully assembled

MAHA TC951 Expert
Tilt-back Tire Changer with Smart Blade
• Automatic tire changer with tilt-back
• Dual clamping cylinders
• Inserts protect aluminum wheels
• Adjustable table with inflators on each clamp
• New fully adjustable bead breaker Smart Blade
• Comes fully assembled

MAHA TC951 HP2
Tilt-back Tire Changer with Smart Blade
• Automatic tire changer with tilt-back
• Press Arm and Help Arm (both on one side)
• Dual clamping cylinders
• Inserts protect aluminum wheels
• Adjustable table with inflators on each clamp
• New fully adjustable bead breaker Smart Blade
• Comes fully assembled

MAHA TC951 HPA
Tilt-back Tire Changer with Smart Blade
• Automatic tire changer with tilt-back
• Press Arm and Help Arm (one on each side)
• Dual clamping cylinders
• Inserts protect aluminum wheels
• Adjustable table with inflators on each clamp
• New fully adjustable bead breaker Smart Blade
• Comes fully assembled

- HEAVY-DUTY -
TIRE CHANGERS

Tire Changers for heavy duty vehicles.

CM56T TIRE CHANGER
• Hydraulic operating unit
• Mobile cable control unit
• Bidirectional
• Accommodates rim sizes up to 56"
• Two rotating speeds

CM27 TIRE CHANGER
• Hydraulic operating unit
• Mobile cable control unit
• Bead breaker force up to 5,900 lbs.
• Bidirectional
• Accommodates rim sizes up to 56"
• Two rotating speeds

ACCESSORIES
Available for All Heavy-Duty & Automotive Models
WHEEL BALANCERS
- LIGHT-DUTY -
Wheel Balancers for passenger vehicles and motorcycles.

MAHA BM29
Mobile hand spin Wheel Balancer for cars and light trucks
- Automatic distance and diameter (2D)
- Dual voltage power supply 12 VDC – 110 VAC
- Perfect for mobile service
- Direct selection ounce grams
- Direct weight location program (no-repositioning of stick-on weights)
- Foot pedal brake for easy weight placement
- Wheels for easy transportation (not shown)

MAHA BM39
Motorized digital Wheel Balancer for cars and light trucks
- Automatic distance and diameter (2D)
- Direct selection ounce grams
- Direct weight location program (no-repositioning of stick-on weights)
- Foot pedal brake for easy weight placement
- Split program to hide stick-on weights behind spokes
- Splash guard standard

MAHA BM69
Laser digital Wheel Balancer for cars and light trucks
- Automatic distance and diameter with width sonar (3D)
- New modern design with wide working space
- Laser line for positioning of stick-on weights
- LED to light inside the rim
- New arm to measure automatically diameters up to 28"
- Direct selection ounce grams
- Electromagnetic brake for easy weight placement
- Split program to hide stick-on weights behind spokes
- Wheel guard

MAHA BM89
Video diagnostic Wheel Balancer for cars and light trucks
- CSAUL certified
- Automatic distance and diameter with width sonar (3D)
- Pneumatic locking
- Wheel runout sonar
- Touch screen
- Full-time Static on screen
- New modern design with wide working space
- New spotter laser system for positioning of stick-on weights
- LED to light inside the rim
- New arm to measure automatically diameters up to 28"
- Electromagnetic brake for easy weight placement
- Split program to hide stick-on weights behind spokes
- Wheel guard

WHEEL BALANCERS
- HEAVY-DUTY -
Wheel Balancers for heavy duty vehicles.

B112 WHEEL BALANCER
- Automatic and digital
- Fully automatic cycle with braking
- Automatic input of wheel distance and rim diameter
- Four alloy programs for wheels
- Integrated heavy duty pneumatic lift
- Optimization program to compensate tire unbalance with rim unbalance

B106 WHEEL BALANCER
- Menu to choose necessary balance functions
- Spin handle system for change in shaft height
- Low balancing speed
- Automatic input of diameter and distance
- Spin system with no motor

B202 WHEEL BALANCER
- Fully automatic and digital
- 15" TFT flat screen monitor with 256 colors, high definition video with 3D graphics
- Run out measurement with EMS sensor
- First heavy duty wheel balancer with integrated pneumatic wheel locking system
- Split program to divide counterweights among spokes of alloy rim
- Four alloy programs for wheels
- Fully automatic cycle with braking

ACCESSORIES
Available for All Heavy-Duty & Automotive Models

UC202/24 Car Cones            RL CAP            WBL 80 Pneumatic Lift
3 Piece Truck Cone Kit    2 Piece Truck Cone Kit    SR4 Stud Adapter
SR5/2 Stud Adapter     SR USA Stud Adapter
110V-230V, 1 Phase

UC202/24, Car Cones            RL CAP            WBL 80 Pneumatic Lift
3 Piece Truck Cone Kit    2 Piece Truck Cone Kit    SR4 Stud Adapter
SR5/2 Stud Adapter     SR USA Stud Adapter
110V-230V, 1 Phase

MAHA USA | Light-Duty Wheel Balancers
MAHA USA | Heavy-Duty Wheel Balancers
- DWA 1000XL -
COMPUTER WHEEL ALIGNMENT SYSTEM

8 Camera CCD sensor wheel alignment system for cars and light trucks.

HIGH MEASURING SPEED
Integrated electronics allow a much faster measuring speed than other models.

USER-FRIENDLY SOFTWARE
Comes with a portable display notebook with Windows based software that provides years of trouble free service.

STATE-OF-THE-ART MEASURING HEADS

- Aluminum body
- The latest integrated electronics, developed only in recent years: DSP processor, linear CCD optical sensors, MEMS static accelerometer
- Soft-touch keyboard
- Rechargeable batteries, battery charger on board, automatic self-switching power to save battery charge.
- No electronic turn plates, thanks to the latest wide-angle CCD sensors (+/- 24°) design.
- Handy and easy to use: lightweight, extremely compact, cable and antenna free.

LIVE ZOOM SCREEN
Measures SAI, toe-out on turns and set backs while displaying measurement readings on a live zoom screen from each head to increase your viewing range.

EASY TO USE
Extremely compact dimensions, lack of antenna and cables.

EASY TO USE

ADVANCED SOFTWARE
- Non-stop control of measuring head calibration
- Fast steering requires half the time of a conventional model
- Front axle measures with measuring heads only
- Runout compensation with lifted or grounded wheels, with 90° or 180° rotation
- Pictures with indication of adjusting points
- Option to measure angle values according to frame height
- Toe-in curves measures in conformity with VAG specifications
- In case of front and/or rear spoilers, measuring is made by inclining the measuring heads (no drop-down adapters required)
- Customized database of customers and vehicles
- All angles of the same axle are displayed simultaneously
- Measure of secondary parameters such as SAI, TDOE, toe-back
- Adjustment of the angles with lifted wheels
- Possibility to zoom in on adjustment indicators to allow better visibility from a distance
- Easy to understand guided program

ADVANCED TECHNOLOGY
- All parts used to manufacture the Wheel Alignment System are of the highest quality available. Only in this way it is possible to maintain constant accurate performance over time.
- New CCD alignment technology
- BT2: Innovative wireless communication.
- Immediate and obstacle free connection
- Lithium Batteries. One year guaranteed battery life. Forget you ever had them.
- MEMS Silicone accelerometers. Shock insensitive
- Featherweight alignment heads weigh only 5.75 lbs. each.
- Manufactured as energy efficient as possible. That not only saves the environment, but saves you money as well.

DWA 1000XL FEATURES & ADVANTAGES

• Four wireless rechargeable alignment heads with clamps and charging station standard
• Lap top computer and storage cabinet
• Accelerometers (newest measuring technology)
• Windows based software with multiple languages
• Power supply and USB BT 2 antenna
• Complete vehicle and customer data base
• Alignment specification 30 years
• Spillers, no problem has spillers program
• Easy to understand software to guide technician
• Function controls at measuring heads
• Two wheel alignment capable with 2 heads only
• Run-out compensation lifted or rolled 90° or 180°
• Measures SAI, toe out on turns and set-back
• Lock and hold adjustments for lifted wheels
• View all adjustments of one or both axles on one screen
• Front and rear spoiler mode
• Zoom screen from each head to increase viewing range
• All front and rear readings are live
• 24° wheel clamping range (30° optional) does not mean rim diameter
OUR MISSION

MAHA USA is committed to excellence in engineering and manufacturing high-quality, American-crafted vehicle lifts and accessories for all areas of heavy-duty and light-duty vehicle maintenance operations. Our focus is on safety and we are committed to building the safest and most durable equipment in the industry. Our team of highly skilled professionals educate, problem-solve, build and advocate workshop equipment that increases workplace safety and productivity. As a complete workshop supplier, our mission is to equip every vehicle maintenance operation in North America with MAHA USA premium workshop equipment, establishing efficient service, confident technicians, safer vehicles and happier drivers.

1-866-624-2872

View our entire line of workshop equipment at
www.maha-usa.com

MAHA USA • 2404 East Highway 134 • Pinckard, AL 36371

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