



PREMIUM WORKSHOP EQUIPMENT

LIGHT DUTY EQUIPMENT PRODUCT CATALOG

MAHA USA’S PREMIUM WORKSHOP EQUIPMENT IMPROVES THE SAFETY, EFFICIENCY AND PROFITABILITY OF MAINTENANCE OPERATIONS.

NATIONWIDE SALES AND SERVICE COVERAGE

TRAINING AND SUPPORT

Product training ranges from hands-on courses at MAHA USA to in-house training at the customer’s premises. Multiple training events held each year are testament to the quality of MAHA USA’s continued support for customers satisfaction.

SERVICE AND SPARE PARTS

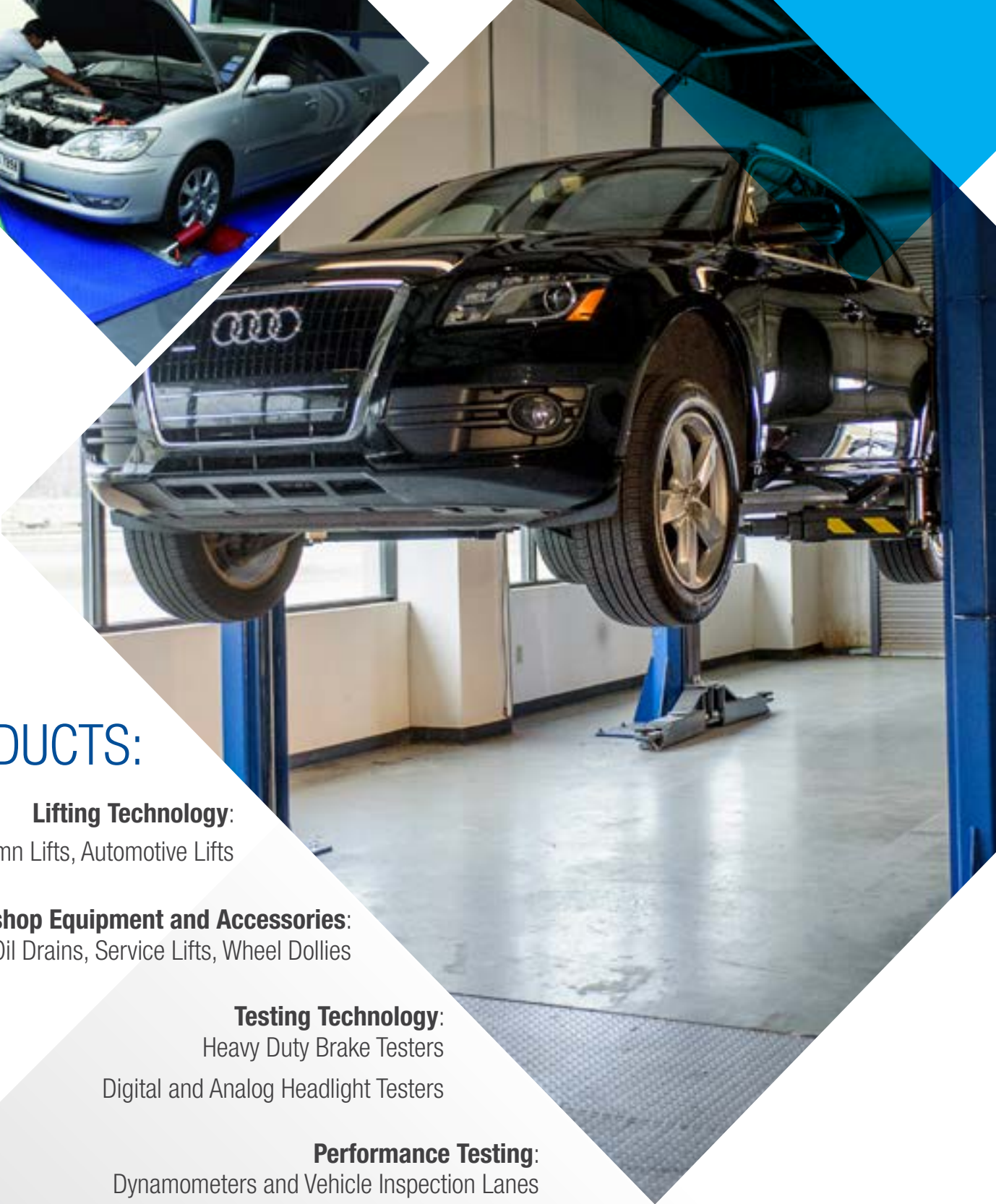
MAHA USA offers its customers an outstanding level of service. MAHA USA’s nationwide certified technician network make it possible to fulfill fast response times for service, spare parts and installation.

FINANCING OPTIONS

Through the MAHA Equipment Finance Program, MAHA USA offers affordable payment options and unique finance solutions to make equipment investment simple and flexible. Learn more at: www.maha-usa.com/finance.htm.

ASSOCIATIONS AND CERTIFICATIONS

- Member of the Automotive Lift Institute (ALI)
- Associate Member of the Commercial Vehicle Service Alliance (CVSA)
- Member of SEMA
- Member of the Technology and Maintenance Council (TMC)
- ISO 9001:2008 Certified



PRODUCTS:

Lifting Technology:
Mobile Column Lifts, Automotive Lifts

Workshop Equipment and Accessories:
Various Jacks, Oil Drains, Service Lifts, Wheel Dollies

Testing Technology:
Heavy Duty Brake Testers
Digital and Analog Headlight Testers

Performance Testing:
Dynamometers and Vehicle Inspection Lanes



AUTOMOTIVE LIFTS

DOUBLE SCISSOR LIFT

MODEL: TWIN 9000

9,000 LBS
CAPACITY

FEATURES AND ADVANTAGES

- Each scissor is equipped with a synchronized redundancy system to increase reliability and safety through years of tough, demanding use.
- An innovative raising lever ensures a powerful lifting force—even in the lowest height range.
- Equipped with an emergency shut off function. The lifting cylinder includes a pipe-breakage safety function for added security.
- An acoustic signal control (CE-Stop) provides crush/pinch protection.
- No in-between mechanical connections give technicians free access between both platforms. Lift multiple types of vehicles. Even short wheelbase cars are guaranteed to have wheels-free access. Customize the TWIN 9000 to accommodate unusual automobile designs, including low-clearance and narrow-frame vehicles.
- Increase productivity of your operations. Install up to five TWIN 9000 double scissor lifts in a space that would normally fit three 2-post lifts.
- The innovative raising lever provides smooth extension and retraction when fully lowered and allows full lifting force, even in the lowest height range.
- Continuous longitudinal adjustable support plates offer high operating comfort.
- Automatic synchronization uses a two cylinder system with a cable pull potentiometer. Cylinder movement is electronically measured and the travel of each runway is automatically equalized throughout the entire lifting and lowering procedure.



Unique arm profile provides high directional stability.



Easily lift low-clearance vehicles with a low-clearance runway.



Long drive-over approach ramp extensions are available to accommodate lower vehicles. (optional)



Various support blocks and polymer pads are available for vehicle under body protection. (optional)



Double master-slave cylinder system provides a redundant safety system and synchronization.



Dependable mechanical lock ensures the highest safety standards.



Rely on a consistent smooth extension and retraction when fully lowered. Raising lever provides full lifting force in the lowest height ranges.



Flexible support plate length is adjustable.

TECHNICAL DATA

	TWIN 9000 SURFACE MOUNTED	TWIN 9000 FLUSH MOUNTED
Lifting Capacity	9,000 lbs	9,000 lbs
Lifting Height	79.75"	73"
Lifting Time	53 seconds at full capacity	53 seconds at full capacity
Low Clearance	5.2"	n/a
Length of Platforms	61.25"-81.5"	61.25"-81.5"
Width of Platforms	25.5"	25.5"
Total Width Recommended	82.75"	82.75"
Motor Power	2 HP	2 HP
Fuse Protection	20 A	20 A
Compressed Air Supply	Min. 90 PSI	Min. 90 PSI
Power Supply	208/230 V 60 HZ 1-phase	208/230 V 60 HZ 1-phase
Shipping Weight	2,700 lbs	2,700 lbs



Model Shown:
TWIN 9000

LIFT DIVERSE
CAR MODELS



2-POST LIFT

MODEL: HL CS

POWERFUL AND EFFICIENT

- ◆ Quickly service vehicles to increase daily revenue and technician productivity
- ◆ Asymmetric design and longer arms give the opportunity to service a wider range of vehicle types
- ◆ Simple control unit allows technicians to operate the lift with minimal instruction
- ◆ One of the industry's only 2-post lifts truly manufactured in the USA and assembled with American sourced components with an emphasis on quality, safety and detail
- ◆ Undemanding installation process with minimal site preparation requirements



Lifting extensions expand service capabilities to include long wheel base vehicles.



Electric height-limit switch provides safekeeping of the vehicle during lifting.



Designed to allow sufficient access to vehicle with ample space between the column and vehicle.



Tray set adds value to workspace with organization and easy access to adapters.



Locking arm restraints engineered with strong over-sized arm pins automatically open when fully-lowered. Allows easy and reliable positioning of swing arms.



Model Shown:
HL CS 10,000



TECHNICAL DATA

	HL CS 9,000	HL CS 10,000
Lifting Capacity	9,000 lbs	10,000 lbs
Lifting Height	76"	76"
Arm Clearance	3.5"	4.33"
Rubber Pad Adjustment Range	2.5"-3.9"	3.54"-4.92"
Total Width	137.24"	137.24"
Inside Column Width	110.23"	110.23"
Drive Through Clearance	96.45"	96.45"
Lifting Time	56 seconds	56 seconds
Weight without Packing	1544 lbs	1544 lbs
Motor	2 HP	2 HP
Power Supply	230V 60HZ 1 Phase	230V 60HZ 1 Phase
Hydraulic Oil	4 gallons	4 gallons
Shipping Dimensions	155.5" x 31.5"x 30"	155.5" x 31.5"x 30"
Concrete Quality	4.5" / 4000 PSI	4.5" / 4000 PSI

	HL CS 9,000	HL CS 10,000
ARM EXTENSIONS		
Short Arm Extensions	20"-32"	23.5"-46.5"
Long Arm Extensions	36.5"-59.5"	36.5"-59.5"
OVERALL HEIGHT		
HL CS L	142.7"	142.7"
HL CS	164.48"	164.48"
HL CS H	188.11"	188.11"
HEIGHT UP TO CROSSBEAM		
HL CS L	136.4"	136.4"
HL CS	158.18"	158.18"
HL CS H	181.81"	181.81"

SUPER LOW
ARM CLEARANCE



MOBILE 2-POST LIFT

MODEL: FHB 6500



FEATURES AND ADVANTAGES

- ◆ Battery operated for total mobility bay to bay or indoors or outdoors
- ◆ A master/slave hydraulic synchronization system that requires no adjustment
- ◆ Automatic locking features make the lift extremely safe
- ◆ Minimal maintenance required; no periodic adjustments
- ◆ No columns to get in the way, allowing unrestricted access to vehicle



Unrestricted access to vehicle because there are no columns to get in the way.



Special adapters allow lifting unique vehicle configurations.



A single person can easily move the lift. An optional fork lift adaptor allows transport over long distances.



Two deep cycle batteries eliminate the need for constant electrical connection.



Optional spot light illuminates the work area under the vehicle.



A 6.4 ft. lifting height allows comfortable access to the vehicle for even the tallest mechanics.

TECHNICAL DATA

FHB 6500	
Lifting Capacity	6,500 lbs
Load Support	4 swivel arms with rubber lift pads - length 22"-51.2"
Lift Pad Height	Min. 4.7"
Lifting Height	6.4'
Drive-in Width	up to 7.5'
Lifting/Lowering Time	Approx. 40 seconds
Drive	Electro-hydraulic
Motor	DC Motor 2.2 KW
Power Source	2 deep-cycle batteries, 24 V, 80 Ah
Connection	Socket 115-230 VAC for battery charger
Load Securing	Hydraulic and Mechanical
Travelling Device	Detachable hydraulic wheel handle, 2 front wheels
Color	Blue RAL5010 , Grey RAL7015
Weight	2866 lbs
Weight with Packaging	3109 lbs



TESTING TECHNOLOGY

LIGHT DUTY BRAKE TESTER

MODEL: MBT 2250 EUROSISTEM

- ♦ Automatic start-up monitoring supplied as standard to avoid tire damage
- ♦ Automatic slip cut-off with pointer stop and automatic restart is included with every MBT 2250 Eurosystem
- ♦ Automatic exiting aid supplied as standard to enable the driven axles to conveniently exit the tester
- ♦ Electronic, temperature-compensated strain gauge system for highly precise measurement results under all environmental conditions
- ♦ Weighted test rollers with groove ball bearings ensure maximum precision and complete driving comfort and guarantee a long service life for the entire tester
- ♦ Splash-proof motors work reliably, even under high-stress environmental influences
- ♦ Internationally recognized TÜV certificate as per issue 9/2011

MAHA DESIGNED
EUROSISTEM SOFTWARE

MAHA'S EUROSISTEM SOFTWARE

- ♦ Round instrument display for the braking forces. Additional displays for difference, decelerations, and optional scale and force sensors.
- ♦ Integrated user guidance with easy-to-understand user instructions
- ♦ Continuous and graphic real-time display of all the measured values using the reference values time and force.
- ♦ EUROSISTEM supplied as standard with integrated SQL Server Express database
- ♦ Multi-user capability option for productive allocation of the individual work packages to several workstations.
- ♦ Easy to connect additional devices such as MLT 3000 to EUROSISTEM
- ♦ Configurable test report with all the measurement and evaluation results of the tests performed on a single print-out

HEADLIGHT TESTERS

MLT 1000
HEADLIGHT TESTER

- User-friendly, intuitive operation
- Premium-quality guide column provide high-precision measurements
- Precision column can be locked with fixing screws
- Non-wearing precision guide column promises a long service life, even for high-frequency use.
- A counterweight, supported by a ball bearing is integrated into the column. This allows the measurement housing to be single handily lowered and raised in a smooth gliding movement.

TECHNICAL DATA

	Bottom	0-23.6" / 10 m (0-6%)
	Left	0-39" / 10 m (0-10%)
	Right	0-39" / 10 m (0-10%)
	Height of Luminous Center	9.4"-78.7"
Measuring Range	Measuring Distance	.15"-.77"
	Luminous Intensity	0-40000 cd (candela)
Intensity	Illuminance	0-64 lx (lux)
	Temperature	41 °F - +104 °F
Work Area	Relative Humidity	20-80%
Dimensions (W x H x D)		25.8" x 88.2" x 28.3"
Weight		143 lbs

QUICKLY ALIGN
HEADLIGHTS

MLT 3000
DIGITAL HEADLIGHT TESTER

- Quick and accurately tests headlights and on-board camera adjustments.
- Electronically controlled data collection and computing.
- Compatible with current and upcoming headlight technology.
- User-friendly LCD menu makes operating a breeze.
- Built-in automatic leveling feature prevents false readings.

TECHNICAL DATA

Application Range	Testable Headlamp Types	Paraboid, projection system and free field
	Testable Light Sources	Bilux, Halogen, XENON and LED
	Above	Hotspot 0 - 31" / 10 m (0 - 8 %) Pitch Angle 0 - 11.8" / 10 m (0 - 3 %)
	Below	0 - 37.5" / 10 m (0 - 7 %)
	Left	0-39" / 10 m (0-10%)
	Right	0 - 39" / 10 m (0 - 10 %)
	Height of Light Center	9.4" - 59"
Measuring Range	Measuring Distance	3.93" - 19.7"
	Luminous	0 - 125.000 cd (Candela)
Intensity	Illuminance	0-200 lx (lux)
	Intensity	+/- 5%
Error of Margins	Deviation from an Axis	+/- 5'
	Temperature	+41°F - +104°F
Working Range	Relative Humidity	20-80%
	Power Supply	100 - 240 V, 50/60 Hz AC / 12V DC

Requirements: The inclination* of the base surfaces for the headlight tester and for the vehicle should not exceed 1.5%. The difference between the inclination of the left and right driving surface must be no greater than 0.5%. In particular, the surfaces must not slope in opposite directions. At all other measurement points of the driving surfaces, the unevenness* should not exceed 3 mm/m.

* The inclination of the test area corresponds to how much the test area tilts away from the horizontal base line, expressed as an angle. Unevenness are height deviations with regard to the line of inclination, measured at various points.

TEST THE NEWEST HEADLIGHT TECHNOLOGY:
MATRIX BEAM SYSTEMS,
LED & DYNAMIC LIGHT ASSISTANCE



Simple to Operate
The MLT 3000 operates with self-explanatory buttons on a 7" touch screen. To allow easy adjusting of headlights, a second LED display is provided on the front of the unit. This display shows the user the horizontal and vertical position of the cut-off line/inflection point, allowing the user to quickly adjust the headlights without directly looking at the unit's screen.

Compatible for Future Updates
Vehicle manufacturers will continue to introduce new headlight technology. Software updates are conveniently available for download on the MAHA website and can be installed directly from a PC network quickly and easily.



Quality Features
The MLT 3000 boasts numerous features. For example, the tester's rechargeable battery supplies enough power to provide up to ten hours of uninterrupted work. The battery has been integrated into the foot of the unit to reduce the weight of the light box. The unit is also more stable as its center of gravity is now lower.



Dependable Precision Guide Pillar
The MLT 3000 is equipped with a non-wearing precision guide pillar. Ball-bearing mounted guide rollers on the vertical guidance of the light box make it virtually maintenance-free and smooth-running. A counterweight integrated into the guide pillar allows the light box to effortlessly position at head lamp height.



Exact Measurements
Lighting systems with variable cut-off lines and high-luminescent light sources are setting new standards for headlight testers. It is necessary to determine and assess the contours and positions of cut-off lines individually. Light sources such as Xenon and LED also form a pronounced blue fringe in the cut-off line area, which makes assessment even more difficult. The MLT 3000 digitally measures values, providing precise and objective results.

Electronic Leveling
Uneven base surfaces can greatly impair measurements. To prevent incorrect measurements, the MLT 3000 has an integrated a position sensor that determines the unit's angle of inclination. The MLT 3000 software uses this information to automatically compensate for any horizontal deviations.

The Vehicle Inspection Lane is a modular structure that allows individual maintenance facilities the opportunity to build a test lane that will quickly perform multiple tests to check overall maintenance needs in just minutes. These findings eliminate missed service opportunities and revitalize the service work performed during a single customer visit.

DIAGNOSE OVERALL
MAINTENANCE IN MINUTES!

MULTIPLE TEST OPTIONS AVAILABLE



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

The Vehicle Inspection Lane runs smoothly and quietly, making the detection of noise 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! Incorporate 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.



HEADLIGHT TESTING

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.



DETAILED REPORTING

The Vehicle Inspection System is controlled by the user-friendly 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 the customer.



PERFORMANCE TESTING



SINGLE ROLLER DYNAMOMETER

- ◆ Available for above-floor or in-floor installations
- ◆ Available in either two-wheel-drive or all-wheel-drive configurations
- ◆ 2WD versions available with one or two eddy current brakes
- ◆ AWD versions available with two, three, or four eddy current brakes
- ◆ Available for above-floor or in-floor installations
- ◆ NiCr plating on rollers improves tire grip without increasing wear
- ◆ Single-roller design decreases heating of tires and improves safety
- ◆ Graphic and numeric display of wheel power, drive train drag, engine power and torque
- ◆ Background display of multiple power measurements to track changes
- ◆ Displays and tracks speed, RPM, and all engine parameters during power measurement
- ◆ Load and 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 2WD	MSR 500 AWD	MSR 800	MSR 1000
Standard Power Supply	400V 3 Phase	400V 3 Phase	400V 3 Phase	400V 3 Phase
Axle Load	5,500 lbs	5,500 lbs	5,300 lbs	5,300 lbs
Electric Motor Regulated Coupling of Roller Sets	Optional	Standard	Optional	Standard
Roller Length (each)	28"	28"	28"	28"
Roller Diameter	20"	20"	30"	30"
Minimum Track Width	35"	35"	35"	35"
Maximum Track Width	87"	87"	87"	87"
Maximum Wheel Power	2,700 HP	5,400 HP	2,700 HP	5,400 HP
Peak Speed	187 mph	187 mph	200 mph	200 mph
Compressed Air Requirement	80-120 PSI	80-120 PSI	80-120 PSI	80-120 PSI
Min./Max. Wheelbase	n/a	79"/118"	n/a	79"/118"
Weight	2,900 lbs	5,750 lbs	6,000 lbs	10,800 lbs
Measuring Accuracy	+/-2%	+/-2%	+/-2%	+/-2%

DOUBLE ROLLER DYNAMOMETER

- ◆ Available for above-floor or in-floor installations and in either two-wheel-drive or all-wheel-drive configurations
- ◆ 2WD versions available with one or two eddy current brakes
- ◆ AWD versions available with two, three, or four eddy current brakes
- ◆ NiCr plating on rollers improves tire grip without increasing wear
- ◆ Graphic and numeric display of wheel power, drive train drag, engine power and torque
- ◆ Background display of multiple power measurements to track changes
- ◆ Displays and tracks speed, RPM, and all engine parameters during power measurement
- ◆ Load and 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



	LPS 3000 2WD	LPS 3000 AWD
Standard Power Supply	400V 3 Phase	400V 3 Phase
Axle Load	5,500 lbs	5,500 lbs
Electric Motor Regulated Coupling of Roller Sets	Optional	Standard
Roller Length (each)	28"	28"
Roller Diameter	12.5"	12.5"
Minimum Track Width	32"	32"
Maximum Track Width	90"	90"
Maximum Wheel Power	700 HP	1,400 HP
Peak Speed	160 mph	160 mph
Compressed Air Requirement	80-120 PSI	80-120 PSI
Min./Max. Wheelbase	n/a	79"/118"
Weight per Roller Set	2,900 lbs	5,750 lbs
Measuring Accuracy	+/-2%	+/-2%

	MSR 400
Standard Power Supply	400V 3 Phase
Axle Load	2,200 lbs
Electric Motor Regulated Coupling of Roller Sets	Optional
Roller Length (each)	16"
Roller Diameter	16"
Maximum Wheel Power	470 hp
Peak Speed	200 mph
Compressed Air Requirement	80-120 PSI
Weight	595 lbs
Measuring Accuracy	+/-2%

MOTORCYCLE DYNAMOMETER

- ◆ Available for above-floor or in-floor installations
- ◆ Available as inertia roller with optional eddy current brake and optional electric motor
- ◆ User-friendly software provides a structured display of measured values
- ◆ Displays and tracks speed, RPM, and all engine parameters during power measurement
- ◆ Graphic and numeric display of wheel power, drive train drag, engine power and torque
- ◆ Background display of multiple power measurements to track changes
- ◆ Load and 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





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