



MAHA Single Roller Dynamometer Model MSR 500 for Motorcycles

Press Release
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General Features

The dynamometer model LPS 3000 Motorcycle with roller set R 50, the predecessor of MSR 500, was used for performance and function testing of motorcycles. The motorcycle wheel runs between two rollers on this classic double roller dynamometer. This means that the tire has two contact surfaces on the rollers increasing wear. This in return leads to higher tire warming when testing on the double roller dynamometer than would be the case on normal road driving. This problematic is particularly intensified when testing modern, extremely high powered motorcycles. The newly developed MAHA Performance and Function Dynamometer for Motorcycles - MSR 500 – has a roller set consisting of one large roller. With this type of dynamometer, the rear wheel of the motorcycle rolls on the top of the single roller, which the name of the dynamometer refers to. The rolling motion on this type of dynamometer closely resembles that of road driving. The wear and tear on the tire is minimized and force transfer from tire to roller is secured. The motorcycle front wheel can be securely fixed on the single roller dynamometer using a variety of fixing devices offered by MAHA.

Product area:

**New and expanded
products, special
performance test**

Test Values

Measured, displayed and evaluated as test values are generally:

- Motor performance
- Torque
- Speed

Above and beyond this, the MSR 500 offers versatile possibilities for vehicle diagnosis.

The MAHA MSR 500 software has a database in which customer data as well as measurement data is stored. The clearly designed operation menu and measurement screen are ideal for quick and effective testing. The test results can be printed out via a DIN A4 color printer. The dynamometer PC can be networked with the workshop network.

Technical Data

Roller diameter	400 mm
Roller length	400 mm
Axle load	1.5 t
Test speed	max. 300 km/h
Power range	up to ca. 200 kW



MAHA as an important manufacturer: approximately 40% worldwide market share

When it comes to competency, performance and innovative drive in the production of all kinds of vehicle test stands and other measurement devices as well as complete systems to measure, control and adjust vehicle components, MAHA has been the market leader for many years now (founded in 1969). The production program is rounded out with vehicle lifts in various models. Subsidiaries and dealerships in over 130 countries worldwide is sure proof of successful business activities -not only as manufacturer and supplier, but also as service partner for customers as varied as automotive testing organizations, workshops and manufacturers. To underscore this, MAHA can show a 40% market share worldwide for the named products. Over 1000 employees work for MAHA worldwide.

MAHA Scope of Products: One-Stop Shopping

Test Equipment for Cars, Trucks, Motorcycles, Tractors, Forklifts, Airplanes

e.g. for brakes, performance, shock absorbers, side-slip, various functions, tachometers, tachographs, axle and wheel loads, headlights etc.

Lifting equipment in numerous models for all types of vehicles.

Measurement devices for: emission, in particular for diesel emission particles, noise level, vehicle air conditioning, deceleration, closing force, brake fluid, axle play .

For tires: equipment for mounting and balancing

Workshop planning, training for service technicians and users.

Technical information - custom tailored to your individual needs- can be requested:

MAHA-Homepage under www.maha.de,

using the "Contact" box or send your request to

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