

The New MSR 1000 Top Roller Dynamometer

Introduction

This newly developed all-purpose tester is also usable for sport vehicles. Three characteristics indicate this directly. First of all is the equipment with four rollers on the tops of which the four vehicle wheels "ride" during the test procedure. This allows even low suspension cars to be tested, which are unsuited for testing on the usual dual roller dynamometers due to insufficient ground clearance. Secondly, the possible RPM range of the vehicle wheels corresponds to speeds between 0 and 320 km/hour is suitable for racers. And finally, the maximum testable performance of 550 kW (approx. 750 HP) per driven axle, i.e. 1500 HP for all-wheel vehicles. That, too, is far above the average performance for passenger cars.

Universality with Large Test Rollers

The MSR 1000 is an extremely versatile all-purpose tester. On the "large" roller, the conditions for the tires similar to those on the road. Vehicle testing with high load is possible for a long period, and thus it is particularly well suited for repair shops and testing facilities. Due to the inherent lack of positional stability for the vehicle during the testing procedure, there are a number of different holding devices available to immobilize the vehicle.

Determinable Measurement Variables

The characteristic drive-related key parameters can be measured: power, torque, and also traction force, each as a function of RPM or a discrete measurement at constant RPM. Other external measurement data can be displayed in combination. The type of display can be graphical (with curves) or numeric, with a wide variety of characteristics, units and representations selectable. The proven MAHA calculation and display programs and modules are used here, which are known for their general utility, simple operation, high operational reliability and good readability.

Adjustability

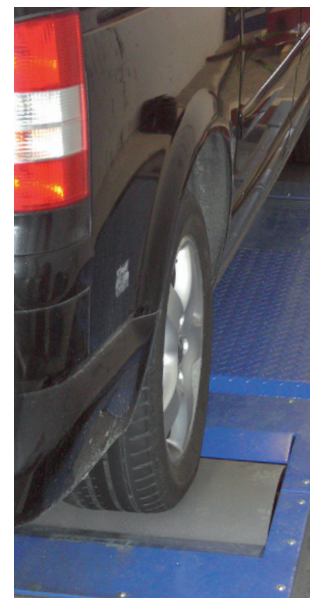
The versatility of application is consistently enhanced by the ability to adapt to further vehicle-dependent factors: an adjustment range for wheel bases between 1900 and 3500 mm as well as dimensions for the axle spacing with a distance from roller top to roller top between 2200 and 3200 mm. Adjusting the test rollers for different vehicle types is quick, easy and reliable with hydraulic controls.

The maximum traction force is 8500 N, the highest permitted axle load 2.4 tons.

Press Release
from 3rd July 2008
1 picture

Topic:

**New and Expanded
Products, in particular
Performance Test**



*Top Roller Dynamometer MSR 1000
with car in test position*



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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