

LABORATORY ABRASION

AND SKID TESTER LAT 100

PURPOSE

The laboratory tester can measure the skid, traction and wear resistance of (tread) compounds with a special disc simulating road conditions.

MAIN FEATURES

The sample is tested in the form of a solid tyre on a rotating disk.

The speed, surface of the disk, slip angle and load can be varied.

BENEFITS

- Very economical testing procedure
- Fast compound development time due to quick results
- Limited space requirements
- Special LAT-Explorer software available for interpretation of test results



YOUR

NEEDS

OUR

MISSION

DETAILS

The side force, which occurs because the test wheel is running under a slip angle, is registered automatically. With small slip angles, the side force reflects the dynamic stiffness of the compound. With high angles the frictional force dominates.

Both measurements can be run with or without abrasion. Skid properties can be run on a wet surface. This is achieved by pumping water from a container onto the disk.

The water is filtered and fed back into the container. Water temperature can be varied between 1°C and 80 °C

A lockable test sample holder allows friction measurements to be taken at full skid. Measurements can be made under various loads and speeds, as well as on different - wet or dry - surfaces.

As the results of laboratory abrasion tests can be affected by dust or dirt contamination, the LAT 100 solves the problem by applying a special powder to the abrasion disk, which binds the abrasion dust and keeps the abrasive surface dry and clean. The LAT 100 is completely encapsulated, so that the working area is free from dust or dirt.



The LAT 100 uses an infrared thermometer to measure the surface temperature of the test sample wheel during the actual test.

The registration of the data is executed automatically by an industrial PC. Measuring procedures are run automatically. The initial and final weight of the test sample is measured after each test and registered by an external electronic balance and at the same time stored in the computer.

TECHNICAL DATA:

Sample size	: ø 80 mm
Test load	: 40 -140 N
Speed	: 0,002 km/h up to 100 km/h
Slip angle	: ± 45°
Transport size (L x W x H)	: 2200 x 800 x 1800 mm
Total weight	: 950 kg
Connection voltage	: 400V/50Hz/3Ph
Air pressure	: 6 bar, oil-free
Noise level	: < 70 dBA

The LAT 100 system is designed to meet a large variety of individual requirements. Depending on the main purpose of use, abrasion or side force and friction measurements, it can be adapted and extended for optimal usability.

For more information see: www.vmi-group.com or contact us by E-mail: sales@vmi-group.com

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