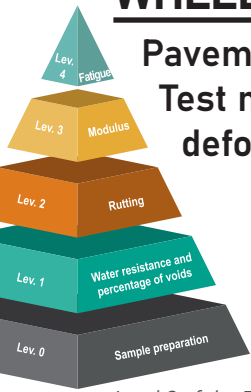


WHEEL TRACKER LARGE DEVICE WITH AUTOMATIC MEASUREMENT

Pavement rutting tester

Test methods for determining the susceptibility of bituminous materials to deform under load.



EN 12697-22

Level 2 of the French mix design procedure

MTQ LC 26-410

Device qualified mlpc®

CSA qualification

NF P98-253-1

Description

Laboratory equipment designed to study the rutting of asphalt mixes under conditions comparable to the stresses on pavements under traffic, according to standard EN 12697-22.

Two asphalt specimens are simultaneously subjected to repeated passages of a wheel equipped with a tire, under a certain load and under controlled temperature. It is possible to integrate or not to the wheel an angle allowing to introduce a lateral skidding effect.

Automation cuts the testing time by a factor of three and saves 50% of the laboratory worker's time. The equipment therefore quickly pays for itself compared to a traditional rutting machine.

Many copies of Orniéreur mlpc® have been distributed throughout the world, it is an essential tool for the formulation of asphalt mixes. The latest generation allows you to go further: higher temperature rise, new cowling, control and ergonomics redesigned for the needs of today's laboratories.



Highlights

- **Full automatic testing**
 - At each measurement step, without human intervention and in compliance with the standard;
 - Uninterrupted sequence of the different steps with improved repeatability of the measurement points positioning.
- **Optimized operator time**
 - With automatic measurement, no more need to monitor and intervene at each measurement level. Focus on the essentials !
 - Can be paused at any time.
- **Energy efficiency**
 - A cowling with its reinforced insulation, which limits the heating cycles for the rise of temperature, but also to maintain it throughout the test.
 - The opening of the doors during the test is avoided thanks to the automatic measurement.
- **User comfort**
 - Easy use thanks to sliding doors, reduced operating noise, large touch screen, numerous connections.
 - Optimal visibility of the test.
- **Configurable**
 - Developed to carry out the normative test
 - Possibility of research-type tests thanks to the many parameters included (temperature up to 80°C, number of measurement levels, position of the measurement points, modification of the thresholds, etc.).
- **Durability**
 - Units with service lives in excess of 20 years in heavy conditions.
- **Ease of maintenance**
 - Thanks to the cowling, which can be partially or completely dismantled.



Features

Electric power supply	
Power supply	Three-phase 400 V, 50 Hz ou 60 Hz - 16A
Puissance installée	6 kW
Electric heating	
Power supply	Three-phase 400 V 50Hz or 60Hz - 16A
Power	3 kW
Test temperature	Ambiant to 80°C
Warm-up time	~4h to 60°C - programmable
Temperature monitoring	4 probes, mix and air for each specimen
Carriage translation	
Motor	3 kW
Rated frequency	1Hz
Pneumatic supply	
Nominal pressure	0.7 MPa (7 bar)
Maximum pressure	1 MPa (10 bar)
Flow rate	8 NI/min continuous (tables loaded, system in control mode) 300 NI/min peak
Max load	5.5 kN
Interface	
Languages	English French
Graphical touch interface	Integrated
Sample loaded	Facilitated by the translation system
Rutting measurement	15 points: automatic with 3 sensors for each specimen

Overall dimension and mass

h 2.00 m

L 1.77 m

W 1.55 m

mass 1250 kg

Handling : Forklift and integrated caster system

Standard equipment

This Wheel Tracker large device enables to test 2 samples in simultaneous and includes :

- 2 complete wheels;
- 2 bottom plates for samples;
- 2 temperature sensors to control the air near the samples;
- 2 temperature sensors to control and regulate the two samples;
- An inflation system enables to control and adjust the tyre pressure;
- A control system for the autonomous test;
- A large touch sensing device connected to a computer (Windows 10 or later), used as interface to the machine;
- The wifi network usb connectivity;
- An automated system to measure rutting;
- Metrology : compliance test report (COFRAC connected);
- User manual, electric and pneumatic plans.

Accessories and spare parts

147A1-100.2	Aluminium sample frame 500x180 mm h=100 mm
147A1-50.2	Aluminium sample frame 500x180 mm h=50 mm
77C-4.1	Sample bottom plate
104769	Manual lift table
108034	Electric lift table
107861	Air temperature sensor
107902	Rutting measurement system for the automated system
77D1-60	Manual rutting measurement kit with gauge
77V0015	Mounted complete wheel
77V0014	Rim
103914	Protection flap
105392	Inner tube
100856	Valve extension
100634	Tire

Contact us for the metrology kit.