

DYNA-TRACK

To assess the resistance to rutting of asphaltic materials under conditions, which simulate the effect of traffic.



Wheel Tracking Machine DYNA-TRACK Mod. 77-B3502

MAIN FEATURES

- Integral temperature controlled cabinet
- Test temperature range from environment to 65°C
- Tracks for specified number of passes or to specified rut depth
- Double glazed doors for observation of testing
- Automatic test Stop/Start and speed control
- Motorized loading arm for easy positioning

General description and specifications

The wheel tracking apparatus consists of a loaded wheel, which bears on a sample held on a moving table. The table reciprocates with simple harmonic motion through a distance of 230 ± 5 mm with a frequency of 53 passes ($\pm 1\%$) per minute. For research purposes the test speed can be adjusted by inverter control. The wheel is fitted with a solid rubber tyre of outside diameter 200 mm. The wheel load under standard conditions is 700 ± 10 N. The wheel tracker is fitted with a temperature controlled cabinet with a temperature range from environment to $65^\circ\text{C} \pm 1.0^\circ\text{C}$. The sample may be either a 200 mm diameter core or a 300 x 400 mm slab of asphaltic mixture from 25mm to 100 mm thick. A 25 mm stroke LVDT transducer is included for monitoring rut depth in the centre of a sample during a test to better than 0.1 mm. The deformation and sample temperature is recorded by the internal data acquisition and control system, then sent to the Windows®XP compatible software.

MAIN FEATURES**Wheel Tracker:**

- Conforming to EN 12697-22 Small scale device
- Table displacement with adjustable speed by inverter
- Motorized vertical adjustment of the loading arm
- Wheel with solid rubber tyre 200 mm external dia.
- Wheel weight 700 N (900 N available on request)
- Suitable for large core specimens and slabs up to 400x300 mm.
- Slab thickness from 25 to 100 mm
- 25 mm stroke transducer with resolution better than 0.1 mm
- Integral temperature controlled cabinet
- Test temperature range adjustable from environment to 65°C
- Double glazed doors for test monitoring

Hardware

- 16 bit microprocessor.
- One CPU card to control both test data visualization, temperature control, database and internal functions management control.
- Large permanent memory to store test results.
- 10 key membrane touch keyboard.
- 240 x 128 pixel graphical display.
- RS 232 output for PC connection.

Firmware

- Language selection.
- Clock/Calendar system.
- Fully automatic test control
- Test setting menu, complete with descriptive sample parameters.
- Calibration menu to set and check temperature, table speed and displacement, and featuring a special function for manual control of the test performance.
- Test performance menu with simultaneous display of all the test data (including real time table speed).
- Internal database up to 100 tests. Each test can be downloaded to a PC, displayed, printed or deleted.
- Download to PC via RS 232 serial port.
- Data processing to EN 12697-22 Small scale device, procedure A and B, and customised test
- Windows XP® compatible software, for printing of test certificates and multiple test processing (mean values).

SAFETY FEATURES

- Automatic stop of climatic chamber and moving table when opening the door

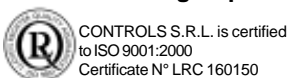
A Universal Slab Holder is included in the machine, allowing the use of the machine with slabs prepared with any kind of compactor (laboratory slab compactor, slab from field compaction) with maximum dimensions 310mm wide x 410mm long, or 200mm diameter cores. If used with 77-B3602 DYNA-COMP compacted slabs, the use of the confinement frames is recommended (see ordering information).

Ordering information

Code	Description
77-B3502	DYNA-TRACK Wheel Tracking Machine 230V/50-60Hz/1Ph.
77-B3504	DYNA-TRACK Wheel Tracking Machine 110V/60Hz/1Ph.
77-B3502/L25	Sample confinement frame, size 400 x 300 mm, 25 mm high. Suitable for use with machine adaptor.
77-B3502/L60	Sample confinement frame, size 400 x 300 mm, 60 mm high. Suitable for use with machine adaptor.
77-B3502/L100	Sample confinement frame, size 400 x 300 mm, 100 mm high. Suitable for use with machine adaptor.

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CONTROLS S.R.L. is certified to ISO 9001:2000
Certificate N° LRC 160150



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