

Dynatest 6875H Highway Slip Friction Tester

The Dynatest 6875H Highway Slip Friction Tester is an accurate and repeatable, self-contained measuring device that provides continuous (or self-wetted) coefficients of friction on highway pavements.

It is designed for maintenance testing to evaluate surface friction deterioration due to weathering, high usage, aging, and contaminants. It can be used in difficult test areas, such as bridge decks, off-ramps, city streets, and intersections, giving an accurate continuous friction trace for the area being tested.

Advantages

The 6875H is a fully instrumented front wheel drive minivan. It uses a Dynatest Two Axis Force Transducer mounted on a retractable fifth wheel assembly.

This assembly provides dynamic vertical load and horizontal tractive force measurement. The fifth wheel assembly is driven at 14% slip. The 6875H meets the requirements of the pending ASTM standard for continuous fixed slip friction measurement.

System electronics include laptop computer and colour graphics printer.

User-friendly Windows[®] software allows the operator to enter test speed, printer scale, test type (manual or automatic) and to annotate pavement test conditions for later reference.

The friction values, along with vehicle speed and water flow rate data are stored and can be printed out.

The system includes a 250 U.S. gallon (1000 litre) self watering tank, positive displacement water pump and laminar flow water nozzle to simulate wet pavement testing for up to 72,000+ft. (22000+m) of pavement without refilling at a water film thickness of 0.02in (0.5mm).

Specifications

Test Principle: **Continuous Slip Friction Testing**

Fifth Wheel: **Dynatest Design**



Optional Features

GPS, Laser sensors for profile or texture data collection

Assembly

- ASTM E -1551 standard test tire
- Electric clutch drive system
- Heavy duty shock absorbers
- Hydraulic raise/lower system
- Dynatest two-axis force transducer
- ASTM E274-97 type laminar flow water nozzle