

Dynatest

6875H Highway Slip Friction Tester (HFT)

The Dynatest 6875H Highway Friction Tester is designed for maintenance testing to evaluate changes in highway pavement friction characteristics due to weathering, polishing, 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 for the area being tested.

The Highway Friction Tester is a fully instrumented vehicle that uses a Dynatest Two Axis Force Transducer mounted on a retractable fifth wheel assembly.



Compliance with Industry Standards

- ASTM E2340 “Standard Test Method for Measuring the Skid Resistance of Pavements and Other Trafficked Surfaces Using a Continuous Reading, Fixed-Slip Technique”
- ASTM E1551 “Standard Specification for Special Purpose, Smooth-Tread Tire, Operated on Fixed Braking Slip Continuous Friction Measuring Equipment”
- ASTM E556 “Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform”

System Hardware and Software Features

- Self-contained continuous friction measuring equipment (CFME) provides measured friction coefficient (Mu) along the length of a pavement section in wet condition at one foot/one meter intervals
- “Fifth wheel” mounted two-axis transducer provides direct measurement of both horizontal friction force and vertical load on the test wheel
- The “fifth wheel” assembly driven at critical fixed slip of 14%

- Self-wetting testing of up to 26,800 m without refilling providing a water film thickness of 0.5 mm
- Larger volume aluminum, baffled, built-in water tanks available depending on truck size
- Positive displacement water pump and laminar flow water nozzle
- Solid state electronics and instrumentation

System Trim Calibration

- Full system diagnostics of transducer, encoders, brakes, and water system
- Menu-driven software enables operator to control test parameters
- Provides real-time vertical load and horizontal tractive force measurements

Available Upgrade Options

- Texture laser
- Differential GPS
- Right of Way camera

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Learn more about the HFT

