



U.S. Department of Transportation
Federal Highway Administration

Highway Friction Tester

The Dynatest 6875H Highway Friction Tester reports continuous friction measurements. It is a fixed-slip friction system that provides coefficient of friction values and a continuous friction trace. Request a demonstration of this unique equipment.



Dynatest 6875H HFT

Benefits

- Continuous measurement of pavement surface coefficient of friction
- Color-coded output trace of friction vs. distance
- Can be used for Network Level or Project Level applications

Components

- Self-contained testing vehicle
- Vehicle Control Unit with hand pendant and dashboard display
- Onboard laptop computer and printer for data processing and reporting
- Onboard water tank and laminar flow water nozzle
- Retractable fifth-wheel test assembly with two-axis force transducer
- Tire and pavement temperature sensors
- Real-time display of friction and speed
- DGPS and light bar
- Optional texture laser and triggering photo cell

Standards

- ASTM E2340: continuous fixed-slip friction measurement
- ASTM E1551: smooth tread test tire for fixed-slip friction testing
- ASTM E274-97: laminar flow water nozzle
- ASTM E556: calibration of force transducers

Operation

- Test at traffic speeds between 10 and 80 mph
- Hand pendant and single-button start
- Dry or self-wetted measurements

Specifications

- Continuous peak friction test
- 500 gal water tank for testing up to 27 miles
- Continuous longitudinal slip friction force and vertical load force measurements
- Digital encoder with speed resolution and accuracy of +/-1.5% or +/- 0.5 mph
- Constant water layer thickness up to 1 mm at all speeds
- Continuously braked at a constant slip ratio of 14%
- Windows XP laptop with 60 GB hard drive

Demonstrations

FHWA is offering demonstrations of the HFT in order to provide an overview of this new equipment. Please complete the Highway Friction Tester request form to schedule an on-site demonstration. For more information, contact Bob Orthmeyer of FHWA at 708-283-3533 (Robert.Orthmeyer@dot.gov) or David Merritt of The Transtec Group, Inc. at 512-451-6233 (dmerritt@thetranstecgroup.com)



**Highway Friction Tester
Dynatest 6875H**

Equipment Demonstration Request

Schedule a Demonstration

To request a demonstration at your site, please complete the form below and email it to:

- Robert Orthmeyer Robert.Orthmeyer@dot.gov, phone: (708) 283-3533
- David Merritt dmerritt@thetranstecgroup.com, phone: (512) 451-6233

You will then be contacted to schedule the on-site visit.

Details

- Demonstrations are offered to State DOTs through an equipment demonstration program of The Federal Highway Administration.
- The purpose of the demonstration will be to provide an overview of the Dynatest 6875H.
- Transtec will provide a demonstration of the HFT, from one day (6 hours) to one week.
- Only authorized Transtec and FHWA employees will be permitted to operate the equipment.
- The agency will be responsible for identifying locations for test demonstrations and for providing traffic control for testing (if necessary).
- Demonstrations may be scheduled beginning in February 2012.
- Actual dates offered depend on equipment and operator availability.

HFT Demonstration Request Form

Agency: _____

Contact Name: _____

Phone Number: _____

Email: _____

Preferred Date(s): _____

Alternate Dates: _____

Intended Use: _____

