

Dynatest

6875 Runway Friction Tester (RFT)

The Dynatest 6875 Runway Friction Tester (RFT) is designed to measure runway friction characteristics for both pavement maintenance and operational purposes. Pavement maintenance to address runway friction concerns may be required due to rubber contamination or weathering of the pavement surface. Operational friction testing is performed to ensure adequate friction to land aircraft and may be performed during heavy rain, ice, slush, or snow as allowed by FAA regulations. It is a fully instrumented pickup truck available on

either two-wheel or four-wheel drive. It uses a Dynatest Two-Axis Force Transducer mounted on a retractable fifth wheel assembly. The vehicle is driven along the runway at a controlled speed, where the measuring wheel record the frictional forces between the runway surface and the device. The data is then analyzed to determine the runway's friction coefficient, which is a measure of the surface's ability to provide traction to an airplane's tires.



Compliance with Industry Standards

- Advisory Circular 150/5200-30D
- FAA Advisory Circular 150/5320-12C
- ICAO Standard 9137-AN/898 Part 2 Airport Services Manual provides direct measurement of both horizontal friction force and vertical load
- ASTM Standards E1551 and E2340
- ICAO or FAA data presentation

Functionality

- The “fifth wheel” assembly driven at critical fixed slip of 13%
- Hydraulic raise/lower system
- Adjustable test cycle timing
- Menu-driven software enables operator to control test parameters
- Provides real time vertical load and horizontal tractive force measurements
- Runway Condition Report (RCR) for military clients

System Hardware and Software Features

- Self-contained continuous friction measuring equipment (CFME) measures friction coefficient (μ) along the whole length of a pavement section “fifth wheel” mounted two-axis transducer
- Self-wetting testing of up to 13,400 m without refilling while providing a water film thickness of 1 mm
- The industry’s largest 1230 liter aluminum, baffled, built-in water tank

- Positive displacement water pump and laminar flow water nozzle
- Solid state electronics and instrumentation
- Easy trim system calibration
- Full system diagnostics of transducer, encoders, brakes, and water system

Available Upgrade Options

- Pickup truck is available in two- or four-wheel drive
- Integrated runway condition graphics and tower reporting
- Texture laser
- Differential GPS

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Learn more about
the RFT

