

# 8002 FALLING WEIGHT DEFLECTOMETER (FWD)

**Compliance:**

ASTM D4694-09 and ASTM D4695-03 and equivalent standards

Passes TRL (UK) and CROW (Netherlands) correlation trials

AASHTO R32-11 calibration protocol compliant





# Dynatest 8002 Falling Weight Deflectometer (FWD).

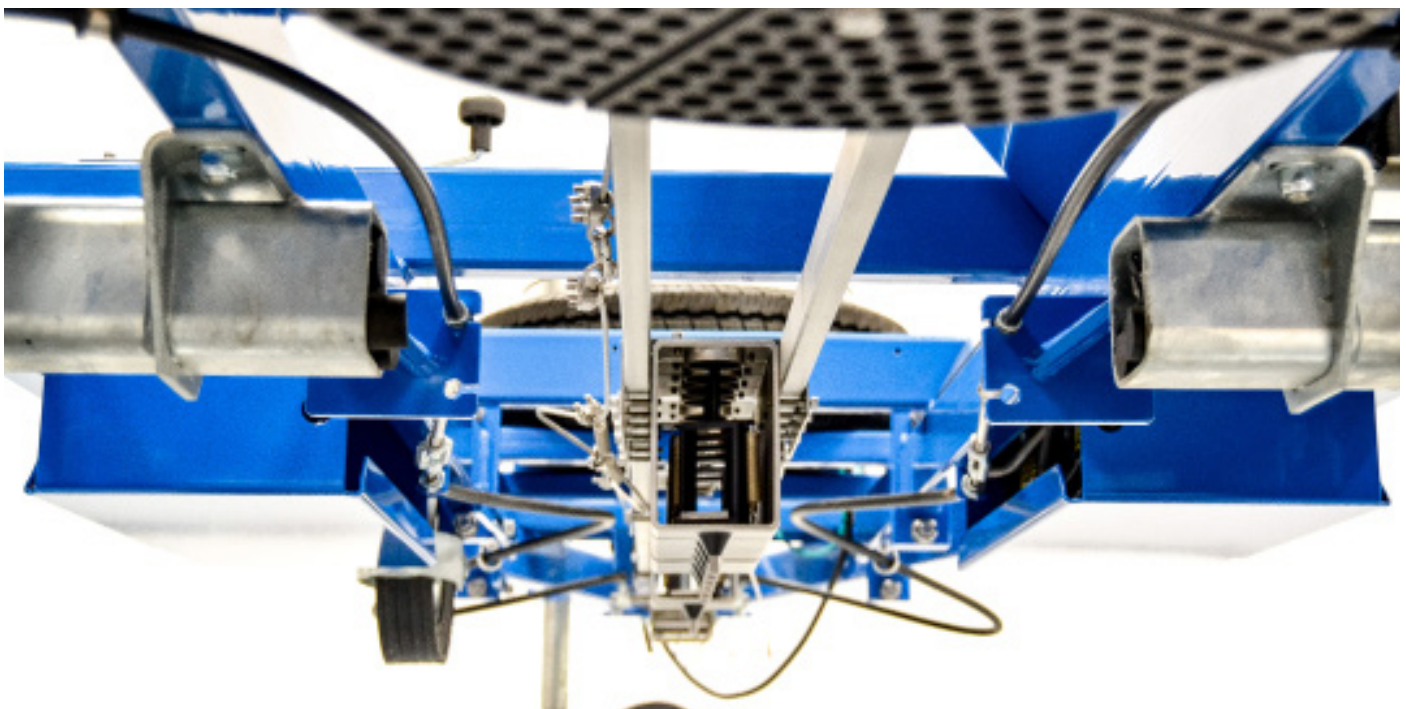
Dynatest is the original commercial developer of the Falling Weight Deflectometer (FWD) technology and the world's largest supplier of FWD equipment.

This highly accurate, well supported, reliable, and continuously refined Dynatest product line is a proven load/deflection measurement solution for engineers worldwide. The Dynatest FWD technology additionally provides a measurement foundation for the proprietary Dynatest “analytical-empirical” pavement engineering methodology, a system of advanced automated pavement measurement, analysis and management engineering services and products available only through Dynatest.

Data acquired by the FWD can be easily imported in Elmod software to allow the analysis and design of the pavement.

## Key benefits of the Dynatest Falling Weight Deflectometer:

- Automated and rapid structural pavement testing applicable to pavements all over the world.
- Allows to identify the critical layer, rather than simply determining the bearing capacity.
- QA/QC of newly built pavements.
- Allows to compare different rehabilitation options, including plane off and recycling rather than just applying overlays.
- The use of the FWD provides accurate, reproducible, and repeatable structural data.
- Automated and real-time monitoring of the load cell, geophones, and data variations ensures high quality of collected data.
- Uses mechanistic-empirical analysis applicable to most of pavement structures.
- The FWD is used worldwide from the hottest and driest deserts to the humid tropics and the cooler polar regions.

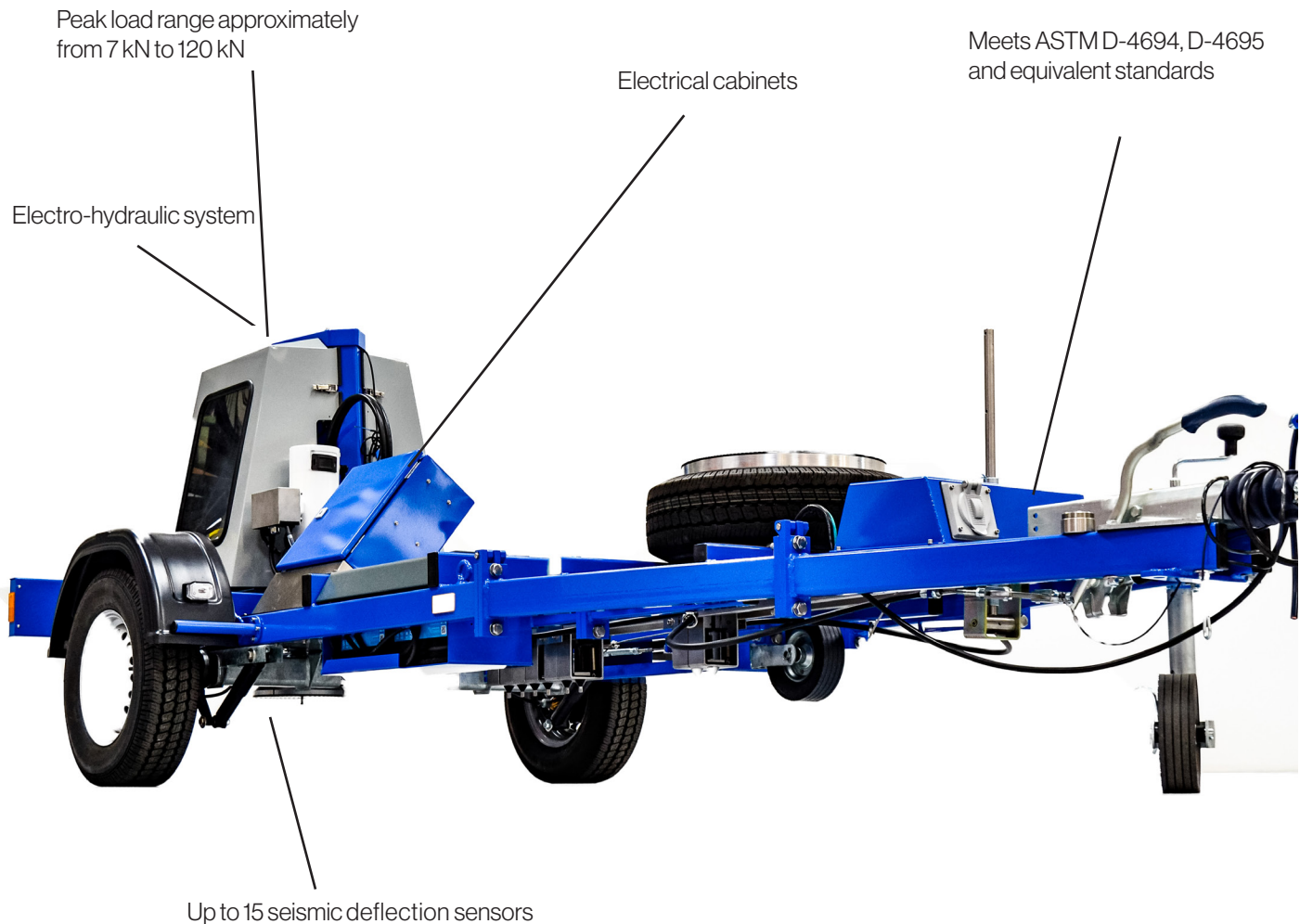


# A closer look at the smart features of Dynatest 8002 Falling Weight Deflectometer.

The use of a Dynatest FWD enables the engineer to determine a deflection basin caused by a controlled load with accuracy and resolution superior to other existing test methods. The FWD produces a dynamic impulse load that simulates a moving wheel load, rather than a static, semi-static or vibratory load.

## Key Operational Features:

- A non-destructive test device.
- One man operational.
- Accurate and fast (up to 60 test points/hr with a typical 4 load application sequence).
- No need for road closure.
- Wide loading range : (7-120 kN) or (1,500-27,000 lbf). Extendable to up to 150 kN (33,700 lbf)
- Designed for multi-purpose pavement applications, ranging from unpaved roads to airfields.
- Excellent repeatability.
- Ideal for mechanistic/analytical design approaches.
- Total flexibility with 7-15 deflection sensors.
- Four segmented loading plate to test uneven or rutted pavement surfaces
- Air and Surface Temperature Sensors.
- Distance Measuring Instrument (DMI).
- High quality for long lasting functionality.
- The most tested FWD on the market.





The Falling Weight Deflectometer (FWD) is an integral part of the process for structural evaluation of pavements and for a good reason. The FWD is a non-destructive and fast method to evaluate the structural capacity of pavements for research, design, rehabilitation of the road and for pavement management purposes.

Use the FWD to identify your weak pavement section and plan the best maintenance solution. Ensure the quality of your road and detect early pavements failures, so that your road maintenance runs as planned and at lower cost.

### AVAILABLE UPGRADE OPTIONS

- Folding trailer for ease of shipment.
- Global Positioning System (GPS).
- Additional deflection sensors (up to 15).
- Camera system for plate location or photo-logging.
- On board generator for standalone operation.
- Trailer cover (soft or hard versions).
- Trailer mounted light(s) or strobe(s).
- Rear and side Sensor Extension Bars.
- Ground Penetrating Radar.
- Rear warning sign.
- Spare parts kit.
- Tool kit.



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