

Dynatest

8000 Falling Weight Deflectometer (FWD)

Compliance

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

Passes TRL (UK) correlation
trials

AASHTO R32-11 calibration
protocol compliant



Who We Are

Dynatest is a pioneer in non-destructive pavement testing solutions, delivering Danish-engineered, high-precision equipment designed to assess road quality and longevity with innovative accuracy.

Our commitment to innovation means that every piece of Dynatest equipment—from our Falling Weight Deflectometers to our specialized software—is crafted to provide reliable, actionable insights.

With over four decades of expertise, we help engineers, airports, and road agencies worldwide make data-driven

decisions that improve pavement performance, optimize maintenance budgets, and extend infrastructure life.

Dynatest solutions empower clients to proactively manage their pavements, ensuring safer, longer-lasting roads and runways for the future.





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Dynatest 8000 Falling Weight Deflectometer

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

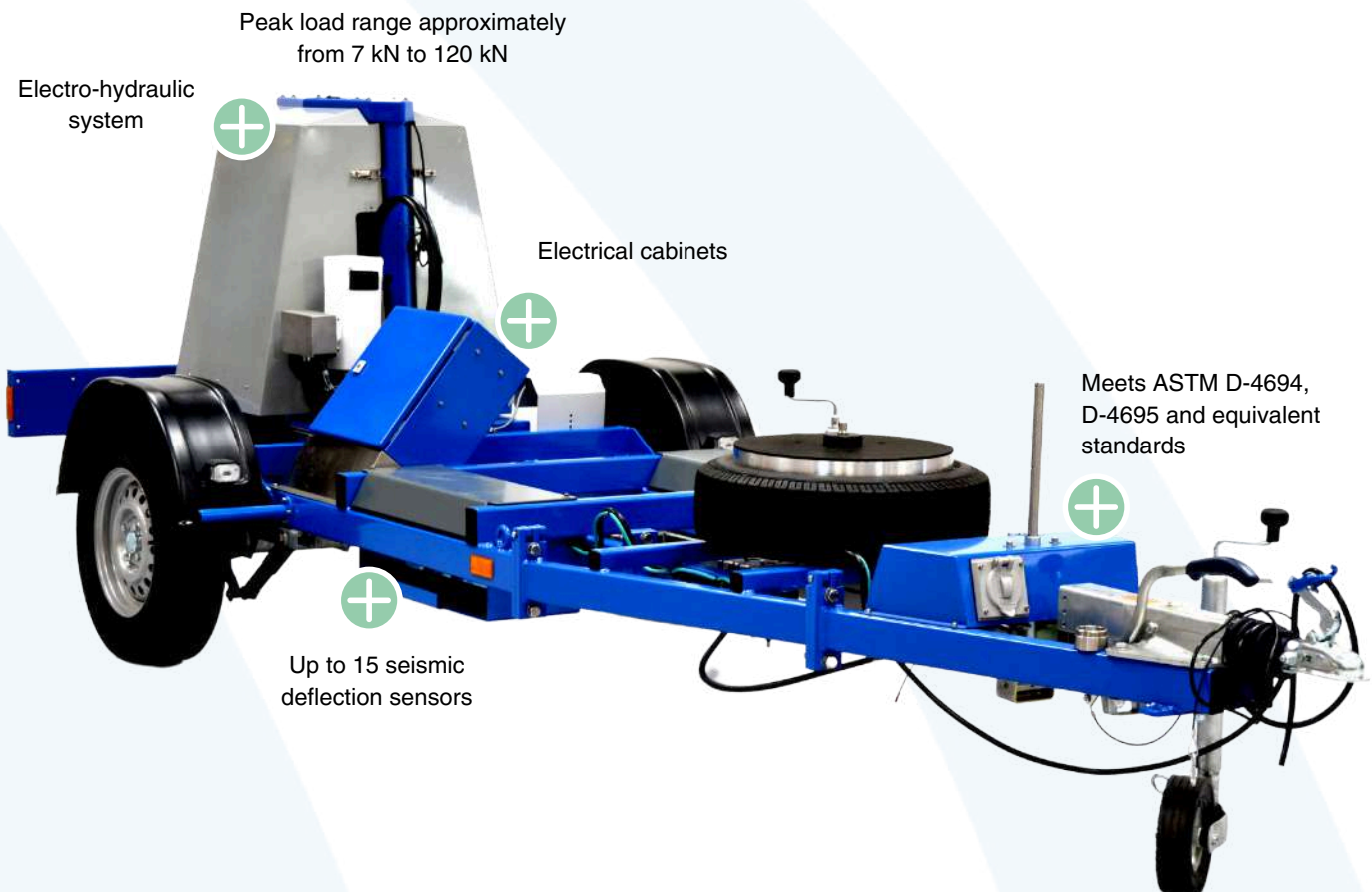
- Automated and rapid structural pavement testing applicable to pavements all over the world.
- Allows to identify the critical layer, rather than simply determining the bearing capacity.
- QA/QC of newly built pavements.
- Allows to compare different rehabilitation options, including plane off and recycling 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 8000 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)
- No need for road closure.
- Wide loading range : (4-120 kN) or (1,500-27,000 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.



Maintenance, Service & Calibration

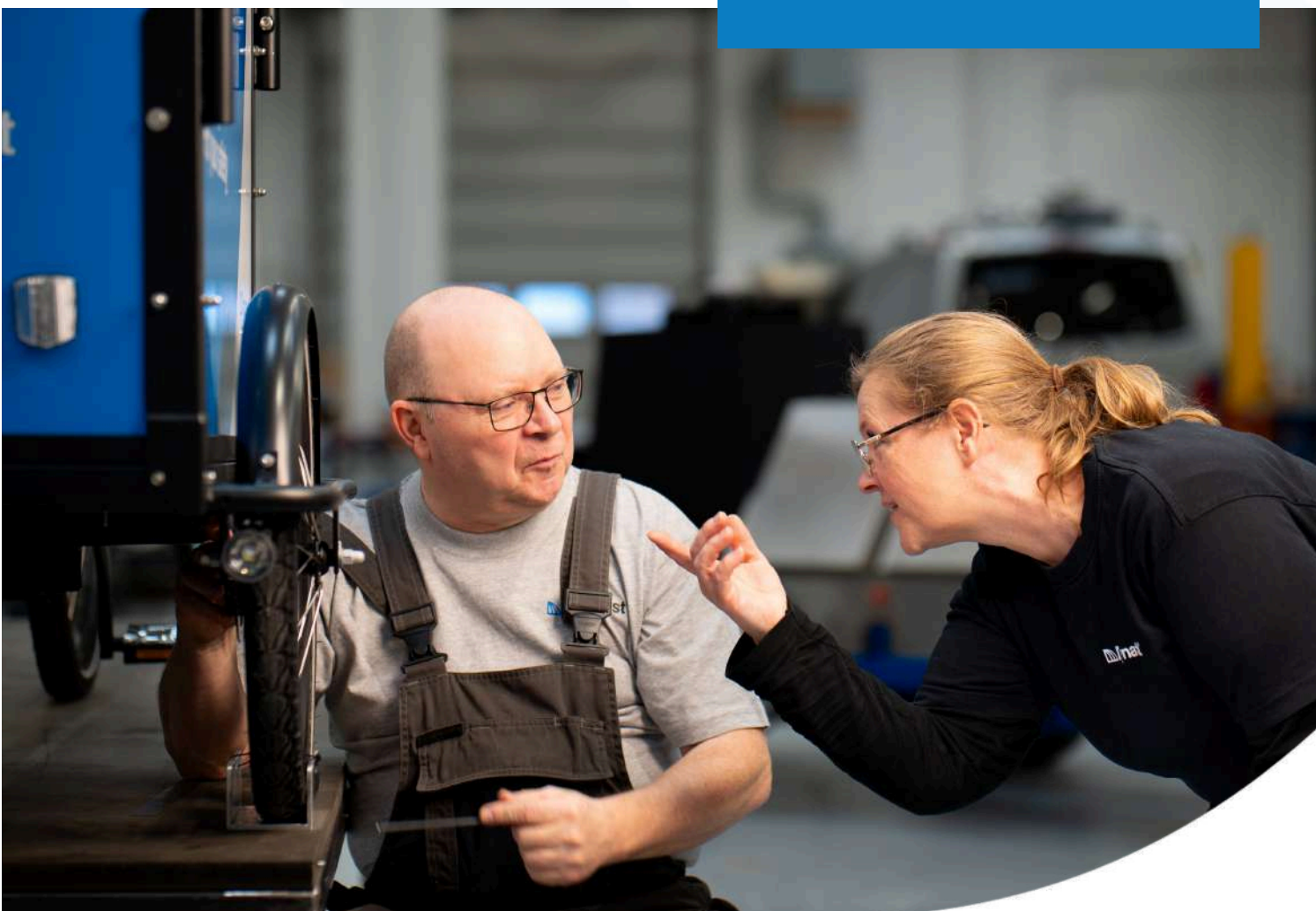
Our team of highly trained service technicians is always ready to assist you when it comes to planning your equipment service and maintenance needs.

Let us reduce your workload so you can focus on performing pavement measurements and collecting precise data.

Do you need assistance?

You are always welcome to contact us if you want to know more about how we can help your company.

If you want a non-committal talk or need more information about Dynatest, we are also happy to help.



Your Dynatest equipment is a sophisticated piece of technology and a significant investment in your business.

Taking good care of your Dynatest equipment is essential to ensure both optimal performance and longevity of the equipment – all of which add to your return on investment.

Neglecting to service and maintain your equipment can lead to costly repairs and uncertain test data and down time.

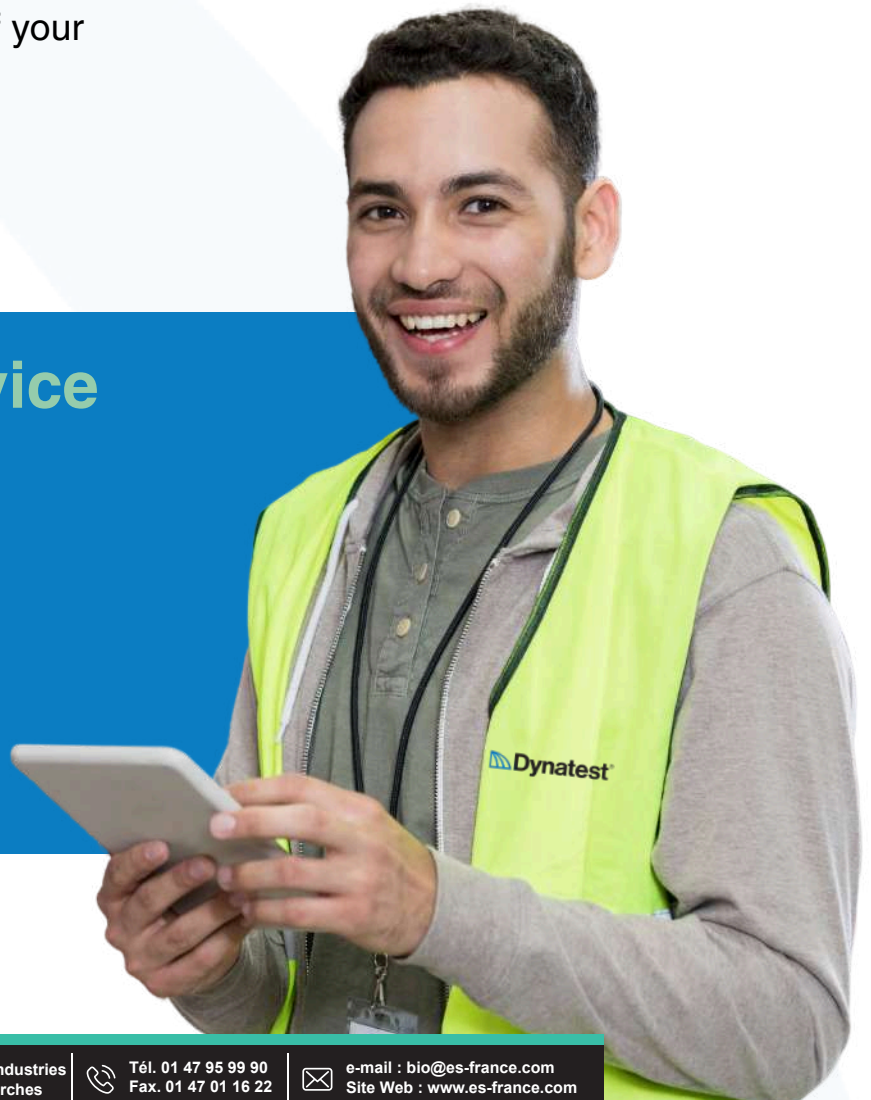
Eliminate the risks of downtime and defects through regular service, maintenance and calibration of your Dynatest pavement testing equipment.

Service and calibration can be carried out by our team of skilled technicians at our production facilities in Denmark (Ballerup) or Florida (Gainesville) or at your own location.

Our service team will work with you to plan the correct level of service and maintenance for your operational needs and the realities of your budgets and also for your operational timetable.

Regular maintenance, calibration, and service will also contribute to an increased overall lifespan of your equipment.

Contact our service team today



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.
- Towing vehicle.
- Trailer cover (soft or hard versions).
- Trailer mounted light(s) or strobe(s).
- Rear or Rear and Transverse Sensor Extension Bars.
- GSSI Ground Penetrating Radar.
- Spare parts kit.
- Tool kit.



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**Scan for more
information about
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