

Dynatest A/S

We provide world-class, cost-effective, sustainable solutions that optimize pavement maintenance for airports and roads.



Who we are.

We are committed to providing the best pavement testing equipment and support while continually advancing state-of-the-art non-destructive pavement testing technology.

The pavement industry's global partner.

Dynatest is the pavement industry's global partner on pavement evaluation solutions for airports and roads. We develop, manufacture, and service equipment and software that defines the industry standard. With more than 40 years of experience, we deliver seamless 360° solutions based on innovative, market-leading expertise.

Our customers can expect us to be flexible and agile in the market to solve their challenges. Every customer and every project is unique. With our combined trio of services consisting of high-quality equipment, reliable software, and expert knowledge, we are able to create the best possible solution every time.

Knowledge is the very backbone of Dynatest and our know-how is one of our biggest assets. We are passionate about technology and pavement engineering and our employees are some of the most respected and trusted engineers and technicians in the business.

In collaboration with our highly skilled distributors, we operate in every corner of the world from our offices and production facilities in Ballerup, Denmark, and Gainesville, Florida, USA.

Enabling a world that works

We have been in the industry for over 40 years. Dynatest equipment is operating in over 70 countries. We are proud to be a market leader in the field of pavement evaluation.

Watch our brand video on:

www.youtube.com/c/Dynatestas



Pavement for heavy loads.

Dynatest provides all the right tools for airfield pavement evaluation.

Airports are some of the busiest hotspots in the world. More than four billion passengers go through airports every year. These airports serve business travelers, tourism, and cargo operations that are vital to our daily life. Airport pavements are similar to road pavements, but there are other demands and differences to consider.

Safe landing place.

With many landings and take-offs every day, all year round, it is crucial to ensure a safe place for the aircraft to land. Evaluating airfields for aircraft with nondestructive testing techniques will generate accurate data for maintenance. Dynatest provides quality equipment developed over 40 years to complete these important assessments.

Our expertise in airports:

- Pavement Management specialists since 1976.
- Developer of Falling Weight (FWD) and Heavy Weight Deflectometers (HWD).
- Heavy Weight Deflectometer testing (PCN) at more than 200 airports worldwide.
- Pavement Condition Index data collection at more than 100 airports worldwide.
- Dynatest employees are experienced airport professionals.
- Dynatest employees are recognized for their expertise in pavements and airport pavements.
- Dynatest employees have helped develop the standards for pavement evaluation as used by FAA and ICAO and the US military.



Pavement Management in airports is highly important.

Typically, a large airport will have millions acres of pavement to maintain and to wait for distress to become visible is not a good solution in airports.

It is important to plan the maintenance to avoid disruption and delays, and the rehabilitation cost is reduced by determining the correct time, location and measure for intervention.

Dynatest offers a range of nondestructive testing equipment. Nondestructive testing offers a good level of information without destroying pavement structures, offering insight with less airside operational impact.



Pioneering the industry.

Dynatest was founded in 1976 by three innovative engineers who met at the Danish Technical University (DTU).

Since then, Dynatest has not only developed the world's first Falling Weight Deflectometer (FWD), but also the first Heavy Weight Deflectometer (HWD), and more recently the first FastFWD.

In the late 90s Dynatest entered the "mature" profiling market developing the Road Surface Profiler and in 2003 Dynatest purchased the profiling and friction divisions of KJ Law and updated the electronics and software producing the 6875, 1295 and 995 friction testing products we offer today.



This means that Dynatest is a 360° leading supplier of state-of-the-art non-destructive pavement testing technology for airports and roads.

Know your Pavement Classification Number (PCN).

The PCN is an International Civil Aviation Organisation (ICAO) standard method in airports.

The PCN value must be used in combination with the Aircraft Classification Number (ACN) for assessing whether the runway can support the aircraft that have to land there.

For this task, Dynatest 8082 Heavy Weight Deflectometer (HWD), is ideal to be used to test on both rigid, paver block and flexible pavements on roads and airports.

The HWD can apply a loading in the range of 30-320kN, enabling it to simulate vehicle loading from the most extreme aircraft wheel loads such as the Boeing 777, the Airbus 340, or 380.

With our equipment and software, you can plan long-term and thus intervene with preventive maintenance of all types of pavements. And thus optimize the road budget that is available for your road or runway.

The right equipment for your task.

Heavy Falling Weight Deflectometer (HWD) - measurement of layer moduli, stresses and Strain, mode of failure, rehabilitation options, and PCN Number.

Road Surface Profiler/ Multi Functional Vehicle - measurement of Roughness (IRI) and Boeing Bump Index (BBI).

Runway Friction Tester (RFT) - measurement of surface friction deterioration due to: weathering, high usage, aging, contaminants such as rubber build-up in touchdown zones.

Dynatest Data Collection (DDC) - Dynatest Data Collection is needed to operate the equipment, and it orchestrates the communication with embedded software to extract measurement data to a file.

Dynatest Explorer (DE) - Dynatest Explorer is primarily used to evaluate the functional pavement condition with data from Dynatest Road Surface Profilers (RSP) or Multi Functional Vehicles (MFV).

ELMOD - The most advanced pavement analysis program on the market today to evaluate the pavement response from the HWD and find the PCN number.

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 **Dynatest®**