



New and Compact Rain Erosion Tester

R&D Test Systems

Reach your testing potential simpler and faster

Wind turbine rotor blades often have to be repaired due to damage to the leading edges of the blades caused by harsh weather conditions and increased rotor speeds. Therefore, it is critical to investigate how to improve the longevity of leading-edge protection systems.

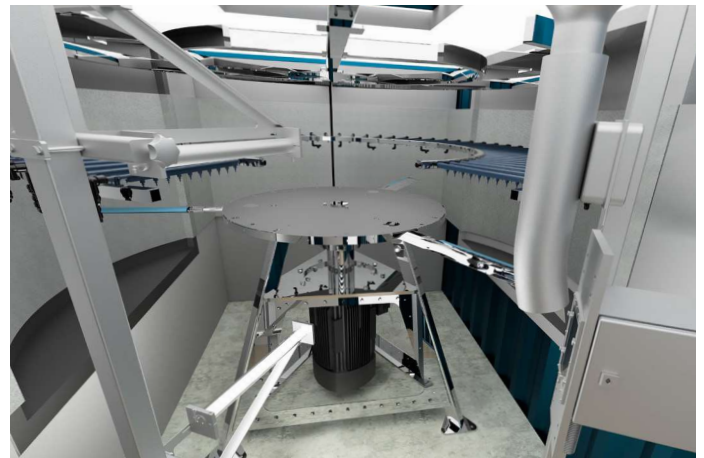
Some customers require complex, customized rain erosion test solutions, while others need simple solutions. Now, R&D Test Systems presents a new solution for those who need a simple and compact test setup to perform rain erosion tests.

The new compact design offers some of the essential advantages of the standard rain erosion tester.

The test system is based on a 3-bladed helicopter principle with test specimens shaped like the leading edge tip of a standard wind turbine. This test setup ensures conditions are very similar to harsh real-life weather in an accelerated way.

Our new Compact Rain Erosion Tester still fulfills DNV's Recommended Practice (DNV-RP-0171) for testing rotor blade erosion protection systems.

Read more about rain erosion and how leading research facilities and companies use the Rain Erosion Tester on our website: www.rdttestsystems.com/rain-erosion-tester/



RET COMPACT BENEFITS

- Price optimized solution to meet basic test needs
- Delivered fully installed and commissioning
- Plug and play solution to place anywhere
- Meets relevant DNV recommended practices
- Automatic erosion documentation and reporting with 16 Mpx camera
- Intuitive HMI and control system
- Full automatic operation

PERFORMANCE AND FEATURES

- Droplet size 2.0 – 3.5 mm
- Test repeatability COV < 20%
- Rain density 60 - 120 l/h (29 - 58mm/h) *
- Automatic test and reporting
- Tip speed up to 160m/s *
- Temperature regulated test chamber
- 390 mm specimen exposure length
- Quick shift specimen holder

PRICES STARTING FROM

Rain Erosion Tester Compact starting from:

449.000 € in 2024

549.000 € in 2025

* all prices are valid for 2024 and 2025 ex. VAT and Incoterms EXW according to R&D Test Systems' standard terms.

