DO YOU WANT A TURN-KEY SOLUTION FOR WHEEL PROFILE MEASURING, READY TO WORK IN EXTREME WEATHER CONDITIONS? PREPARED FOR A SIMPLE AND FAST INSTALLATION? WHICH OFFERS OPTIMIZED HIGH PRECISION MEASUREMENTS?

GET THE

**DWPM**

DANOBAT WHEEL PROFILE MEASURING

**DANOBAT solution for wheel profile measuring**

The world leading wheel profile measuring system. 8 triangulation units that measure:

- Flange Height
- Flange Width
- qR factor
- Rim Thickness
- Full Wheel Profile
- Tread Hollow
- Back to back Measurement
- Wheel Diameter

**Powerful. Robust. Easy.**

- **ACCURACY**: Full view of running profile of railway wheels and possibility to measure other indicators such as “Wheel Thread Hollow”
- **ROBUSTNESS**: the unit is protected and isolated from the outside. The triangulation units are designed so they do not deform even in severe climatic conditions and to reduce vibrations
- **INSTALLATION**: installation of the system is simple and fast. No need for civil works or removing sleepers for on-track installation

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ACCURACY

- A carbon fibre structural element is fitted to prevent relative movements between laser and camera and to thus obtain a greater measuring accuracy
- 100fps high speed cameras that produce consistent measurements over time
- The laser is pressed briefly to optimise the power of the equipment to secure clear visibility outdoors in poor light conditions
- The system is capable of providing the measuring result 120s after the last wheelset has passed
- The measurements are reconstructed with a mathematical algorithm in 3 dimensions
- The system is very repetitive thanks to its speed and ability to take numerous measurement on one single wheel

ROBUSTNESS

- Waterproof (IP67), very rigid and protected from sun and rain
- The anchoring and fixing system minimise thermal expansion and vibrations
- The cameras and lasers are completely protected and fixed to a solid element that prevents movement. This secures a stable, accurate and repeatable measurement
- 8x100W thermoelectric cell capacity to cool each triangulation unit in extreme environments with temperatures in excess of 50°C
- Heaters capable of maintaining a stable temperature inside the triangulation unit in extreme environments with temperatures of below -20°C

INSTALLATION

- A booth or cabin to keep the electrical cabinet and other items of the equipment is not required
- The system can be moved to another measuring point in a minimum amount of time
- The triangulation units have waterproof “Plug & Play” quick connectors (IP67) which makes it very easy to release and place a box in the anchoring and fixing system
- The system is calibrated by the manufacturer and adjusted on track for optimal triangulation of the measuring elements

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