

EddyCus® map 2530 RMT

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Textural Analysis and Defect Detection for Carbon Fibers

The **EddyCus® map 2530** is a standalone device specifically designed for the scanning of carbon fiber texture. The testing system utilizes the electrical conductivity of the carbon fibers to gain structural information such as fiber orientation and fiber distribution. The high resolution EC-scans also enable defect detection, e.g. **gaps, misalignment, wrinkles** and **overlaps**.

The EddyCus® system can be used at any stage in production: for carbon fiber textiles, stacks, preforms or composites. Simple flat preforms can be checked by the table top system. Therefore, it particularly helps process engineers or R&D focused groups to evaluate the results of individual production steps.

The complementary **software** allows the user to **filter** differently **oriented layers** or highlight **anomalies** such as defects. The user can classify the results to deepen the understanding of the material.

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Engineered and Made in Germany 





Parts geometry	Flat
Scan area	300 x 300 x 40 mm
Sensor mobility	X and Y direction
Min. pitch	0.1 mm
Speed	160 mm per second (full scan: 30 min)
Mode	Contact and non-contact
Carbon Fiber Materials	CF fabric, textile, stack, prepreg, preform, composite
Device size (w/h/d) / weight	31.5" x 19.1" x 33.5" / 785 x 486 x 850 mm / 90 kg

Characterization & Application

Structural Analysis

- ▶ Fiber orientation of individual layers and hidden layers
- ▶ Fiber spacing and fiber distribution

Defects and Errors

- ▶ Gaps
- ▶ Overlaps and wrinkles
- ▶ Misalignments and undulations

Application Fields

- ▶ Automotive parts
- ▶ Aircraft parts

Fiber Orientation & Undulation

