SURAGUS
Sensors & Instruments

Data Sheet- EddyCus® CF inline FAW

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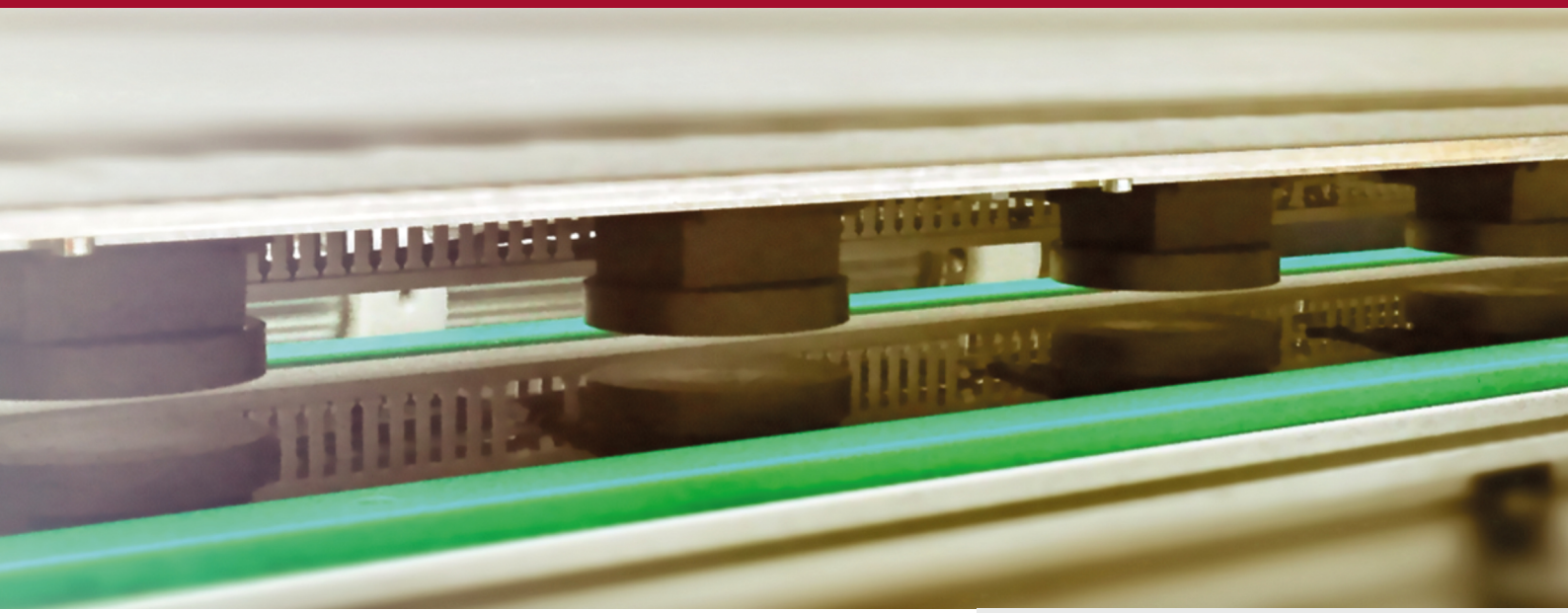

Fiber Weight Measurement for Carbon Fibers

The **EddyCus® CF inline FAW** is specifically designed for the inline monitoring of **fiber areal weight** of carbon fabrics.

The spreading process of CF tows or processing of chopped fibers or non-wovens can be evaluated online **without contact with fabric**.
Each sensor observes a particular lane of the web so by arraying multiple sensors, the entire Web width can be monitored.
This non-destructive testing solution is independent of the presence of **resin, binder or thermoplastic matrix**.
Carbon volume fraction of intermediates such as thermoset prepregs or organic sheets can be measured
Hence, the EddyCus® CF inline FAW is ideal for monitoring pultruding processes.

The SURAGUS testing solution supports the improvement of product quality by direct **process control**, by increasing **material yield**, and by conducting incoming and outgoing **goods inspection**.

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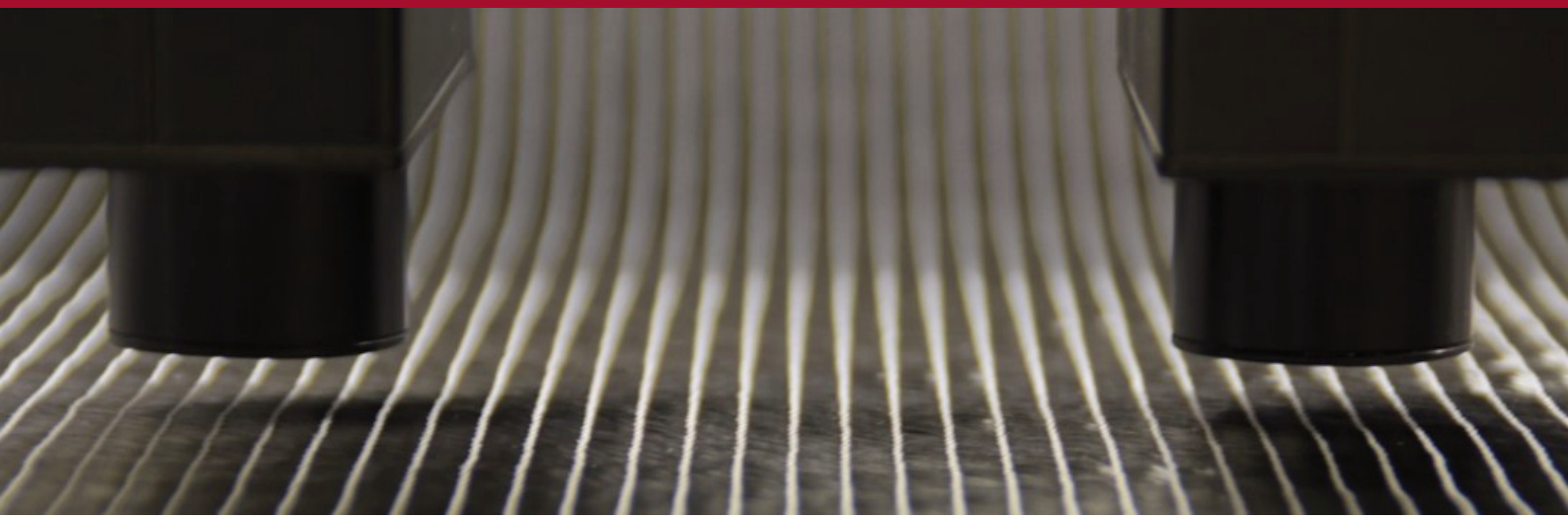
Made and Engineered in Germany

Innovation Award by
Free State of Saxony 2013
1st Place

TÜV SÜD ISO 9001

JEC GROUP WINNER OF 2016 INNOVATION AWARD



Sample rate	1 - 500 measurements per second 1 measurement/mm @ 200m/h production speed
Measurement / Scanning area	1 - 8 sensors across each 100mm in diameter
Web fluttering tolerance	1 mm
Interface	e.g. UDP, TCP/IP, Analog IO
Required space	Small (approx. 300 mm in production line)
Mode	Process control with uplink to PLC or production control system Quality report
Carbon fiber materials	CF non-woven, CF UD-tapes, CF non-crimp fabrics (NCF), flat CF preforms, conductive coatings

Quantitative Measurement

Applications

- Non-contact determination of carbon fiber areal weight
- Non-destructive measurement of carbon fiber volume fraction
- Evaluation of conductive coating
- Suitable for non-woven CF fabrics or recycled short CF, CF, UD tapes

Benefits

- Non-contact, coupling-media free
- Penetration of all layers
- Applicable to carbon fabrics
- Adaptive system
- Presence of binder or matrix irrelevant

Software and Handling

- High usability
- Intuitive design/handling
- High speed measurement and display of results
- Data archiving

Fiber Areal Weight monitoring of 6 lanes. Roll report listing locations with ok and not-ok material.