

Basis Weight Measurement for Carbon Fibers

The **EddyCus® CF inline BW** is especially designed for the inline monitoring of **basis weight** for carbon fabrics.

The spreading process of CF tows or processing of chopped fibers or non-wovens such as fleece can be evaluated online **without contact to fabric**.

Each sensor observes a particular lane of the web. By stacking 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**.

It can measure carbon volume fraction of intermediates such as thermoset prepregs or organic sheets.

Hence, it is ideal for monitoring pultruding processes.

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

SURAGUS GmbH
Maria-Reiche-Straße 1
01109 Dresden
Germany

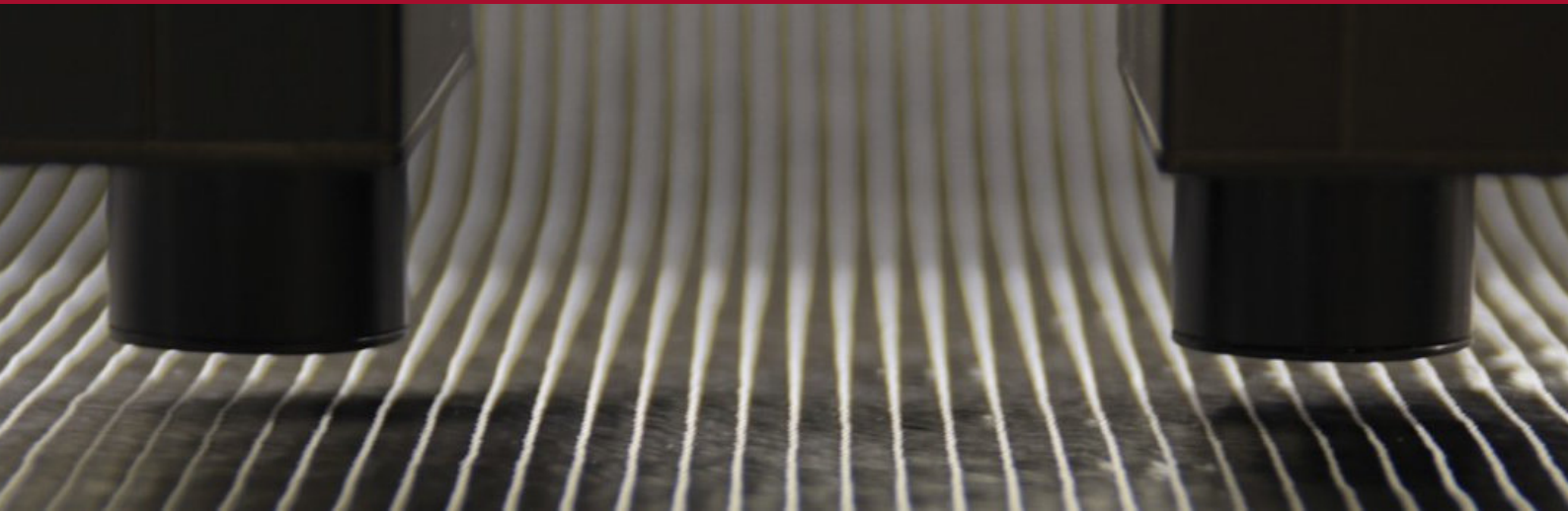
+49 351/32 111 520
info@suragus.com

www.suragus.com
www.carbon-fiber-testing.com
www.suragus.com/FAQ
www.suragus.com/inlineBW

Made and Engineered in Germany

Innovation Award by
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1st Place





Sample rate	1 - 500 samples per second every lane
Measurement / Scanning area	1 - 99 sensors across entire web with
Fluttering tolerance	1 mm
Interface	e.g. UDP, TCP/IP, Analog IO
Required space	Small (approx. 300 mm in production line)
Mode	Process control Quality report
Carbon fiber materials	CF non-woven, CF UD-tapes, CF non-crimp fabrics (NCF), flat CF preforms, conductive coatings

Quantitative Measurement

Software and Handling

Applications

- ▶ Non-contact determination of basis 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
- ▶ High usability
- ▶ Intuitive design/handling
- ▶ High speed measurement and display of results
- ▶ Data archiving

Benefits

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



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