

BASIS WEIGHT MEASUREMENT FOR CARBON FIBERS DATA SHEET - EddyCus[®] CF inline BW

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 evaluate online **without contact to fabric**. Each sensor observes a particular lane of the web. By stacking multiple sensors, one can monitor

the entire web width.

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 to monitor pultruding processes.

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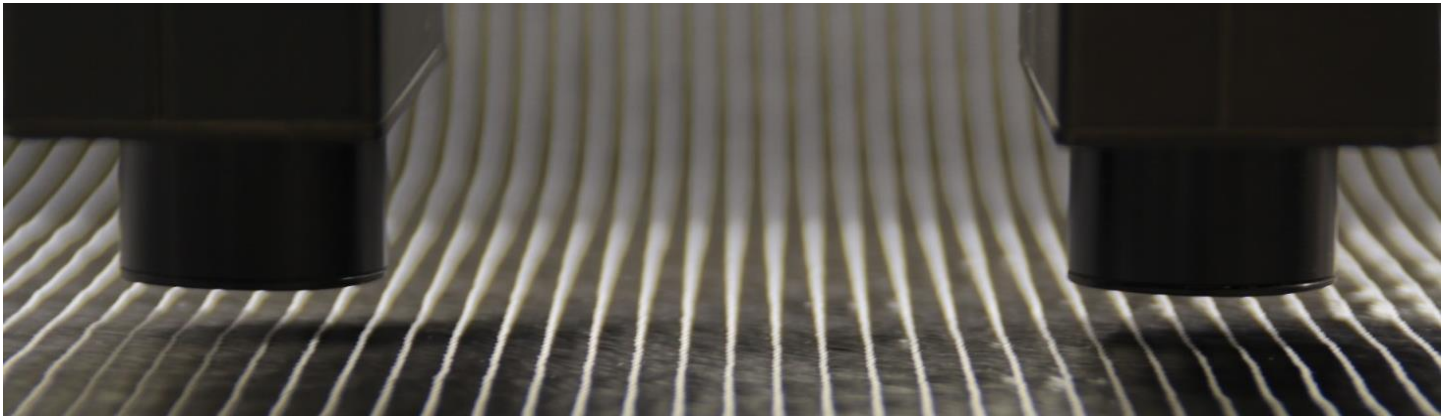
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ISO 9001



Innovation Award by
Free State of Saxony 2013
1st Place

DATA SHEET

EddyCus® CF inline BW – Basis Weight Measurement



EddyCus® CF inline BW

Sample rate	1 – 500 samples/sec/lane
Measurement / Scanning area	1 – 99 sensors across entire web width
Fluttering tolerance	1 mm
Interface	e.g. ethernet, profibus
Required space	Small (approx. 300 mm in production line)
Mode	Process control, quality report
Carbon fiber materials	CF-non-wovens, CF-fleece, CF UD-tapes, CF non-crimp fabrics (NCF), flat CF preforms, conductive coatings

QUANTITATIVE MEASUREMENT

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, CF fleece 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 & HANDLING

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



Fiber areal weight monitoring of 7 lanes. Roll report listing locations with ok and not-ok material.