



GAP MONITOR FOR INLINE DETECTION OF HIDDEN GAPS DATA SHEET - EddyCus® CF inline

The EddyCus® CF inline GAP is an inline system especially designed for the non-contact and continuous testing of **non-crimp fabrics**.

Within the material production process, the testing system utilizes the electrical conductivity of the carbon fibers to **detect gaps**, to measure their size and it is able to capture the fiber orientation. Also loose tows and tape width can be well measured using the SURAGUS eddy current testing technology.

The EddyCus® system can be used to characterize carbon tow of any tex

number that is integrated into a subsequent manufacturing process such as spreading, weaving, tailor fiber placement, non-crimp production etc.

The conductivity is linked to roving **uniformity**, hence the following defects can be detected: **folds, accumulated fiber fuzz, entanglement, knots, splices or impregnation**.

Using this non-contact measurement system within production processes will take **quality assurance** to the next level.

SURAGUS GmbH
Maria-Reiche-Str. 1
01109 Dresden
Germany

E-Mail: info@suragus.com

Phone: +49 (0) 351 32 111 522
Fax: +49 (0) 351 32 111 509

www.suragus.com
www.carbon-fiber-testing.com



Certified
ISO 9001



Innovation Award by
Free State of Saxony 2013
1st Place

DATA SHEET

EddyCus® CF inline GAP



EddyCus® CF inline GAP

Application	Carbon Fiber NCF, UD-Tape (roll-2-roll)
Detection capability	>1mm gap Max undetected gap length 5-100mm
Value proposition	Roll report, nesting of rolls
Speed	500mm/s – 1000mm/s
Mode	Non-contact
Machine interface	I/O, TCP/IP, Modbus
Add-ons	Fiber orientation, Tape width, Overlaps
Position	Pre- and post stitching or spreading

USER INTERFACE

Roll Information

Material Name: Marsi | Roll Name: 5
 Batch Name: SW-Test 1.1.0.87r | Roll Number: 45
 Batch Number: 5 | Export Directory (Local): C:\SURAGUS GmbH\Export\Marsi\SW-Test 1.1.0.87r_5\5_45

Gap Detection

Gap gefunden!

Currently Values

Currently Value: Magnitude: 237.5
 Roll Mean Value: Magnitude: 3278.0

Distance

152,560m

List Of Gaps

Begin [m]	End [m]	Left [mm]	Width [mm]	Length [m]	Class
122.470	152.560	0	6	30.090	ERR
122.470	152.560	49	36	30.090	ERR
122.470	152.560	142	30	30.090	ERR
122.470	152.560	241	33	30.090	ERR
122.470	152.560	306	41	30.090	ERR

Preview Scan Image

Magnitude vs. Scanbreite [mm] (Materialkante[mm]=146)

Line Scan

Scan Values Over Material Width

Magnitude vs. Scanbreite [mm]

Process View: Stacked Charts | Image | Open View

Measurement: Disconnect | Get Self Reference

Remote Control Signals: D10 | D11 | D12 | D13