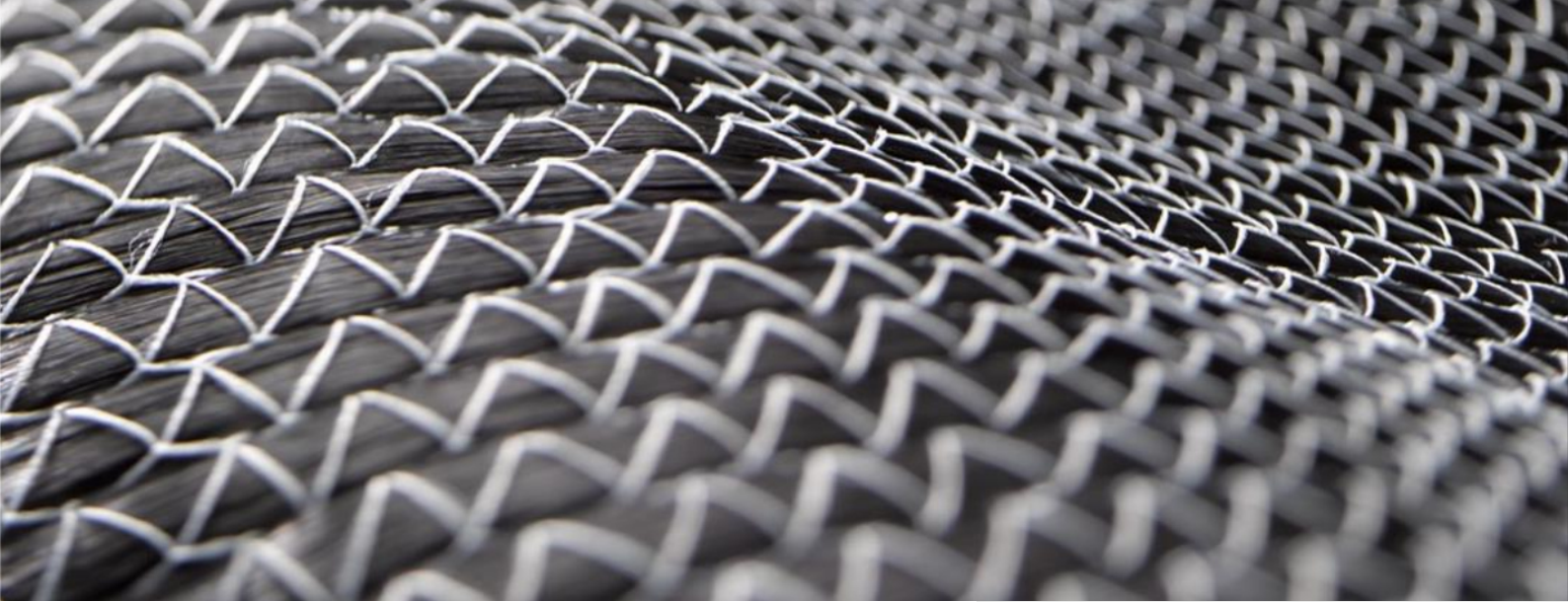


EddyCus® inline GAP – Gap Detection System

P_GAP_20



Inline Detection of Hidden GAPS

The **EddyCus® CF inline GAP** system is an inline system designed for the non-contact and continuous testing of non-crimp fabrics. A unique feature of the system is the ability to measure subsurface defects in a multi-layer stack.

During the material production process, the testing system utilizes the electrical conductivity of the carbon fibers in order to **detect gaps**, measuring the width of such gaps right down to a resolution of just 0.5mm. Furthermore, the system is able to capture the fiber orientation per ply and loose tows can be detected. Tape width can also be measured using SURAGUS eddy current testing technology.


The **EddyCus® system** consists of either a moving set of sensors or of a fixed sensor array with the system being customized to the production width e.g. 50" or 100" (and can also be retrofitted to existing textile machines). Additionally, SURAGUS can provide a turn-key solution involving complete machine integration.

Using this non-contact measurement system enables smart production in compliance with aviation and automotive quality standards.

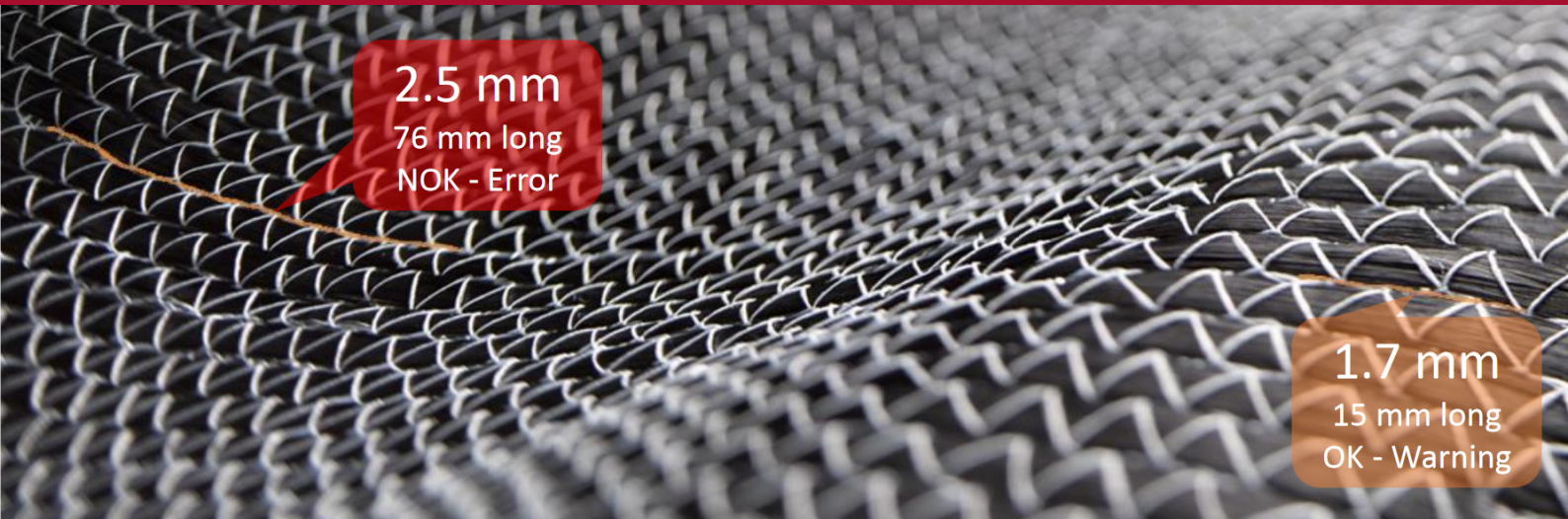
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Engineered and Made in Germany 





| | |
|----------------------|--|
| Application | Multiaxial Carbon Fiber NCF, UD-Tape (roll-2-roll) |
| Detection capability | Gap >1mm Max undetected gap length 5-100mm |
| Value proposition | Roll report, nesting of rolls |
| Production speed | 50-120 m/h |
| 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
Batch Name: SW-Test 1.1.0.87r
Batch Number: 5

Roll Name: 5
Roll Number: 45
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

Scan Values Over Material Width

Scanbreite [mm] (Materialkante[mm]=146)

Labels: Left=146.00mm, Left=30.25mm, Left=148.75mm, Left=252.00mm, Left=307.50mm

Process View

Stacked Charts | Image | Open View

Measurement

Disconnect | Get Self Reference

Remote Control Signals

D10 | D11 | D12 | D13