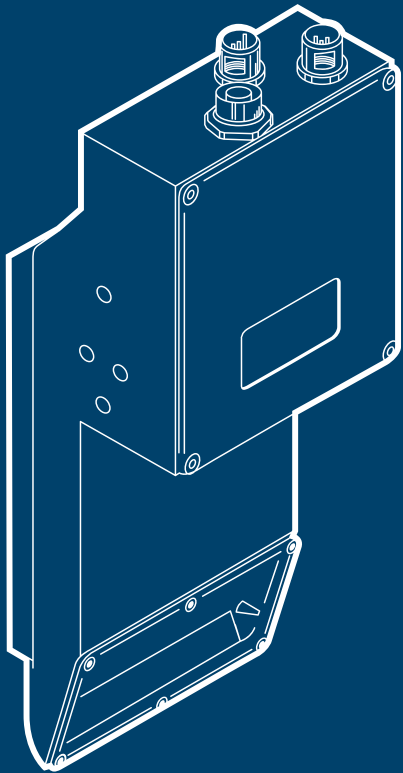


We DEVELOP



drawing © Synthese Production Rennes

AF INSPECT

In-line inspection solution for your AFP-ATL processes

Ply edge detection with inspection speed up to 2 m/s

Main advantages

- Non-contact detection
- Rapid and easy integration into the production tool
- Simple to use, easy to configure
- In-line inspection during composite material deposition, ply after ply
- Different types of materials: ceramics, dry fibre, thermoset, thermoplastic, glass fibre...
- Detection and location of defects with a size above 0.1 mm

Benefits

- In-line inspection of 100 % of production
- Productivity gains 20 % to 30 % compared to standard methods for inspection
- Traceability and real time documentation tool
- Process performance analysis and production optimisation
- Quality control

Applications

Surface inspection of your AFP-ATL processes.

The sensors are fitted onto a robot or the fibre placement heads to scan the entire surface to be inspected during production.

All images are saved by the software for automatic processing and defect detection.

In-line detection of:

- Gaps
- Splicings
- Fibre loops
- Twists
- Foldings
- FODs

Industries:

- Automotive
- Wind energy
- Aerospace
- Marine

We DEVELOP

AF INSPECT

In-line inspection solution for your AFP-ATL processes

Features

AF-Inspect 100:

- FOD (manual / semi-automatic / automatic)

AF-Inspect 200:

- Surface inspection + FOD
(semi-automatic / automatic)

AF-Inspect 300:

- Location of defects & measurements (automatic)

Characteristics

- Compact sensors designed for environments exposed to carbon dust
- Integration on the placement head
- Processing system in a fanless computer cabinet (industrial PC, image processing and video interconnection card, communication cards with the line PLC and plant network)
- SPC: results in a database in client export format

