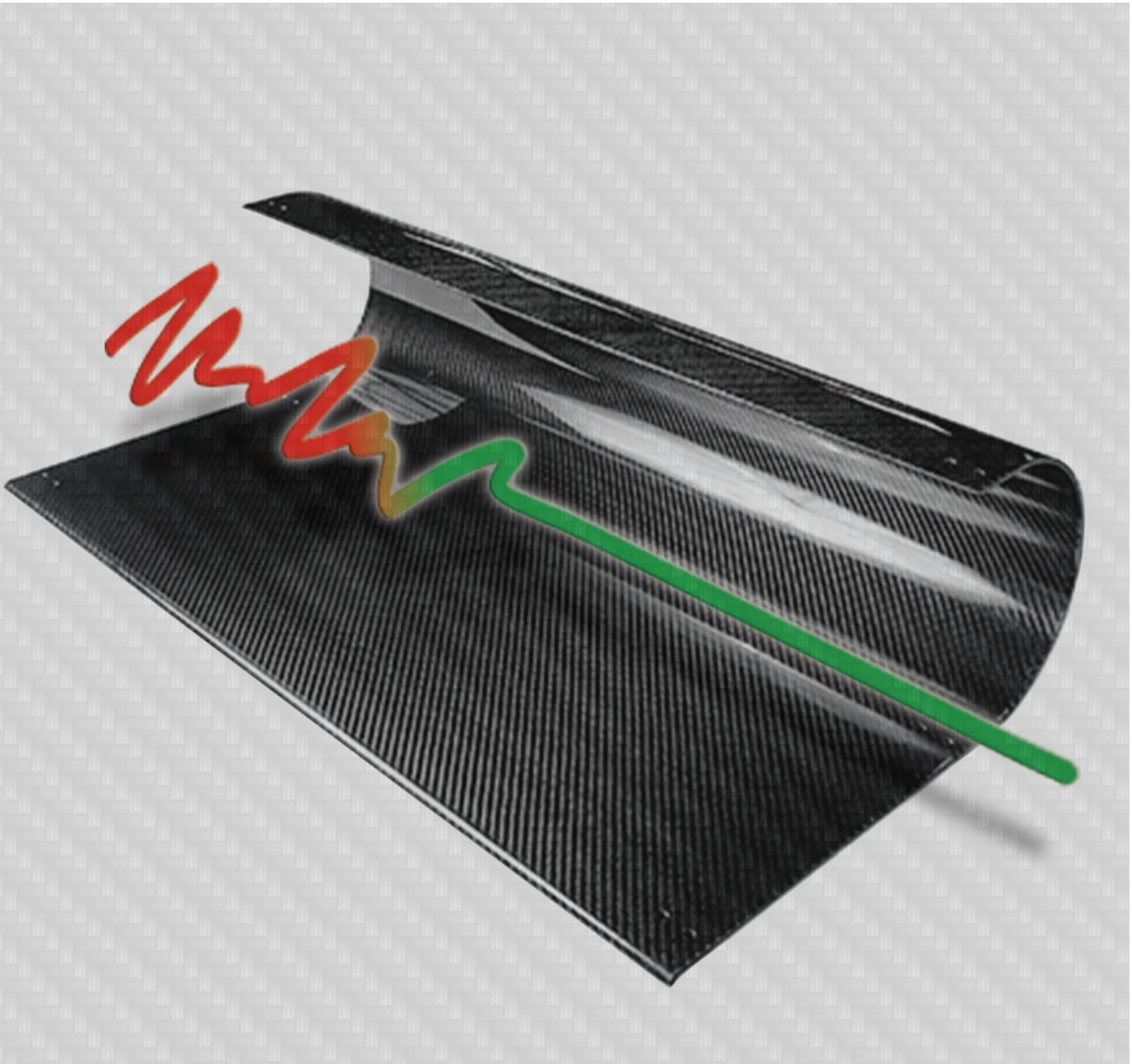


COMPOSITE PRODUCTION & QUALITY CONTROL

AEROSPACE & DEFENSE

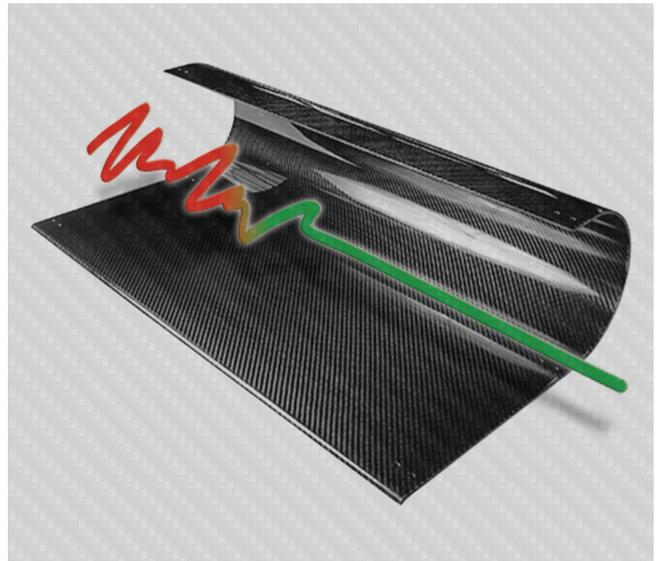


Unique Real-Time Detection and Avoidance of Quality Risks

DELMIA's Composite Production and Quality Control solution for the Aerospace & Defense Industry enables companies to continually monitor composite processes to identify areas of improvements.

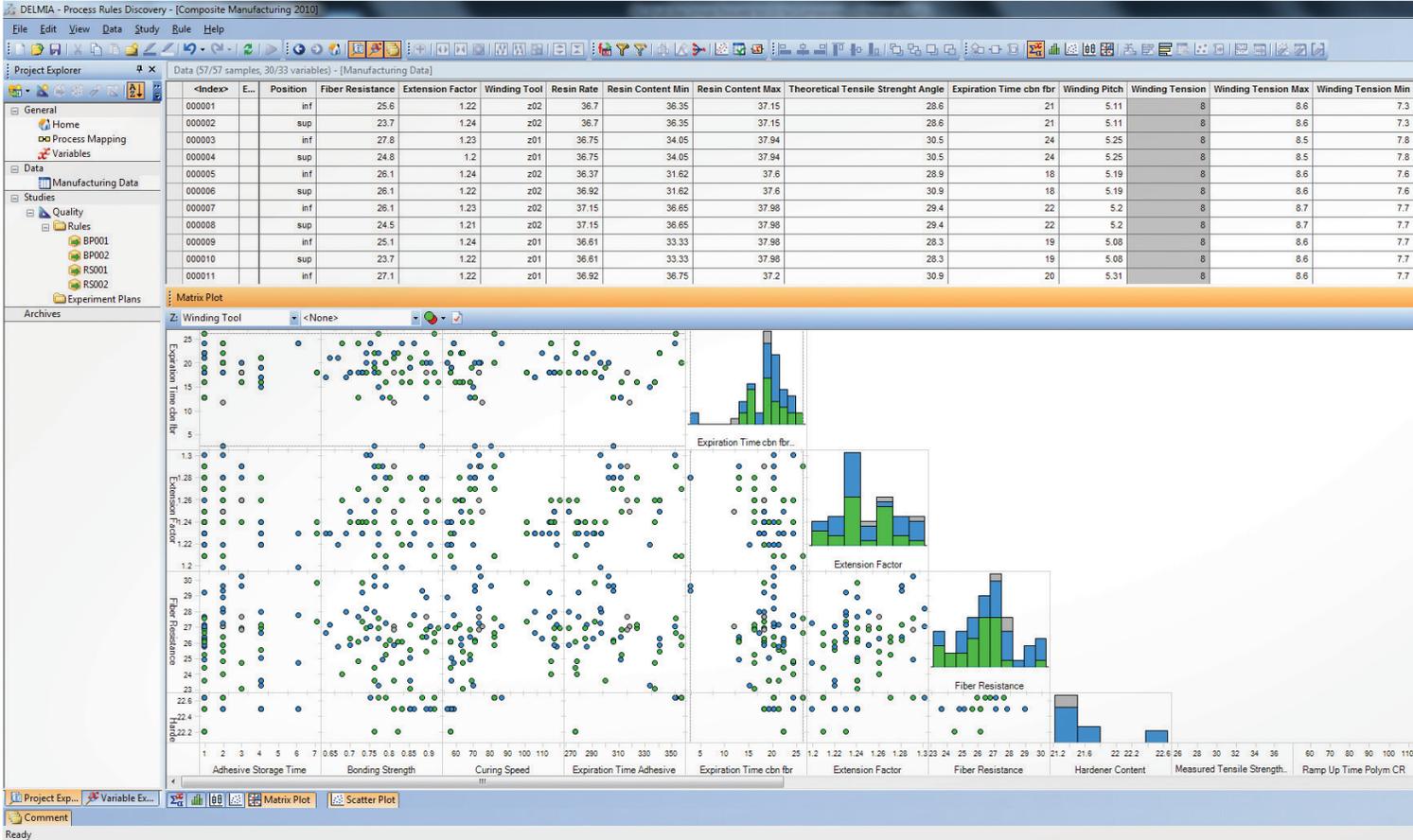
DELMIA's Aerospace & Defense Composite Production and Quality Control solution is an industry-proven approach which facilitates corrective and preventive actions for composite production quality issues. Customers benefit from a unique real-time detection based on analysis of historical shop floor data and discovery of rules validated by experts.

Quality Engineers can detect risk patterns with a fact-based approach supported by actual data. From this analysis, rules are identified that will improve the composite's quality and reduce scrap and rework. When a potential problem is identified, the level of risk is quantified based on best practices, a risk analysis is published and preventive or rectifying actions are proposed to the operators.



User Interface: View shows a rule of Risk Situation discovered in the data.





Visualization of rules and related samples: a graphical view shows how samples are distributed within and outside of a rule.

INDUSTRY CHALLENGES

- How to determine which critical process and product attributes to monitor and the right combinations to prevent variations?
- How to understand patterns of production parameters that result in defects?
- How to gain real-time visibility of the shop floor to monitor progress and collaboratively solve production problems?
- How to quickly communicate preventive or rectifying actions to operators?
- How to improve production without having to re-engineer processes?

SOLUTION HIGHLIGHTS

- Easily collect shop floor data in real-time
- Quickly identify root causes of failure
- Edit and establish rules with experts
- Understand quantified influence of process variables
- Obtain advance warning of potential problems
- Real-time adjustment of process to changing conditions
- Monitor rule compliance and receive notification when new rules are needed

SOLUTION VALUES

- Improve manufacturing planning efficiency by easily reusing configured engineering data that is automatically updated as the design evolves
- Reduce probability of defect recurrence
- Improve product quality, reduce rework
- Accelerate new manufacturing cycles

USERS

- Quality Engineers



Delivering Best-in-Class Products



Virtual Products



Model and Simulate our Planet



3D Design



Information Intelligence



Realistic Simulation



Dashboard Intelligence



Digital Manufacturing and Production



Social Innovation



Collaborative Innovation



3D Communication

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