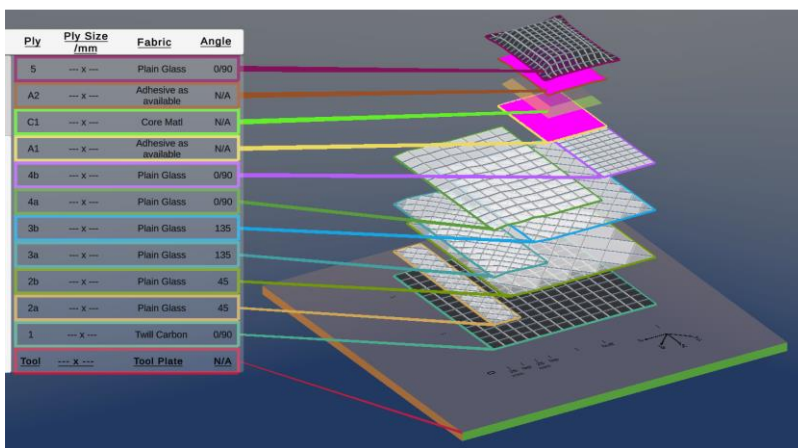


LayupRITE

Interactive drape simulations for rapid product development enabling right first time manufacture for composites



Composite parts, like fibre reinforced plastics, are manufactured from layers of material. Automating the process is capital-intensive and expensive. Operators manufacturing by hand leads to higher variability, more inspection and potentially more scrap.

LayupRITE is a digital simulation of the layers which make up a composite part. These simulations maintain the “digital thread” from design, through the process development phase, to the shop floor and back. Every part of the process is working from same dataset ensuring consistent information at every stage. Trained operators using LayupRITE simulations leads to more reliable processes, more predictable outcomes and making parts right first time.

LayupRITE can be provided to customers in a variety of ways:

- Off the shelf training packages
- Bespoke layup instructions provided from customer CAD drawings
- Proactive defect prevention using LayupRITE and machine learning in real time during layup

Key benefits for the composites manufacturing industry:

Right first time manufacturing means:

- Improved product quality, reduced defects
- Reduced manufacturing time, higher throughput rate

LayupRITE is simple, fast, easy to use, providing:

- Real time simulation of composite plies, fibre angles and ply-edge outputs
- A lower-cost alternative to laser projection for displaying ply data
- A variety of possible display methods (Screens, AR, projection, HMDs and others)

and enabling:

- More repeatable, effective training and manufacture
- Visualisation and planning for effective new-product introduction

IP Status:

Various proprietary IP, including software copyright and UK registered design No. 4037188.

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