



Features summary:

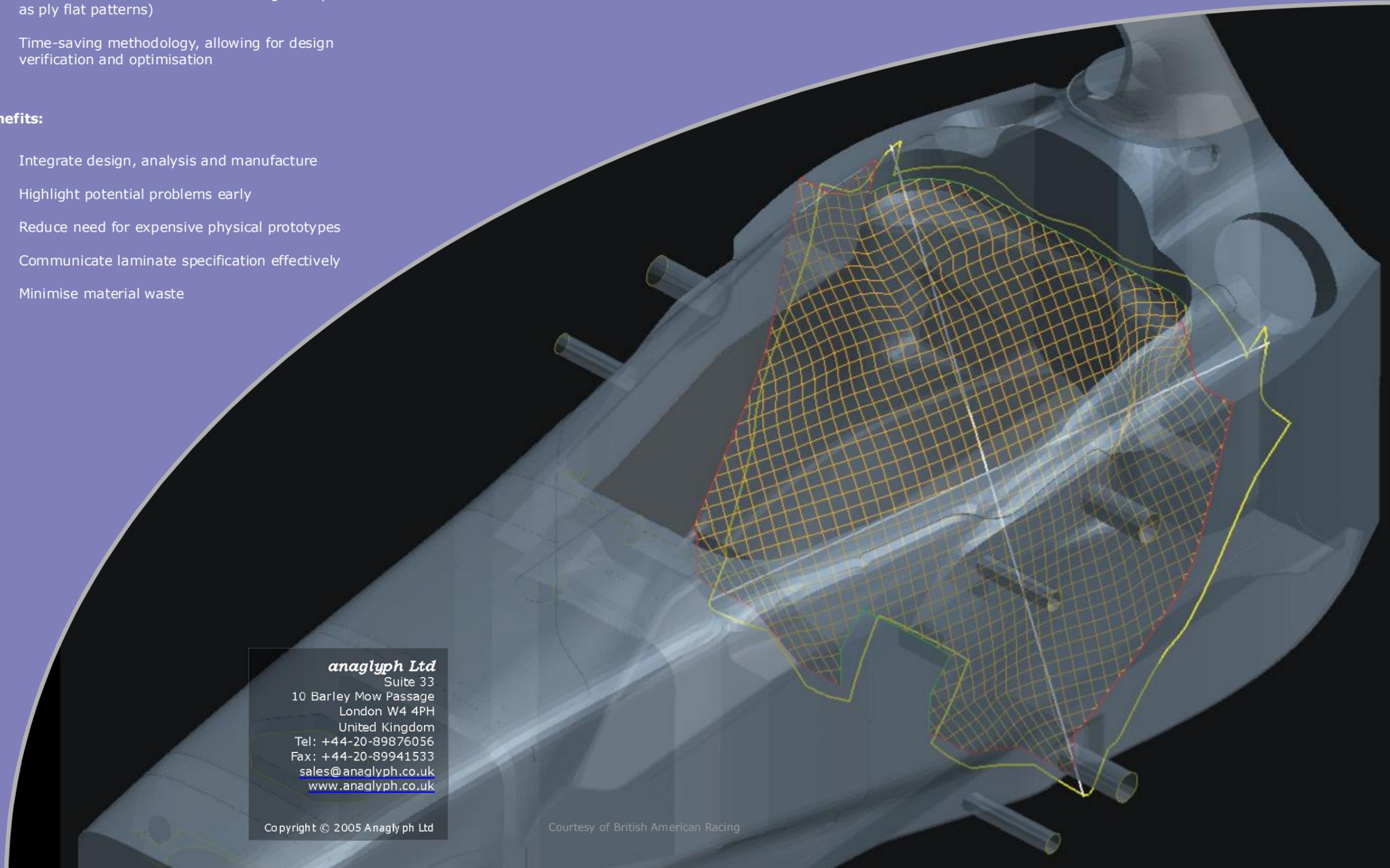
- ✓ Well tested draping technology
- ✓ Interfaces to industry standards (Nastran, MSC.Patran, Femap, Abaqus, HyperWorks, Ansys, FiberSIM, CAD)
- ✓ Quick and accurate specification of laminate designs reflecting the ply based physical composition of the structure
- ✓ Communication of structural details widely improved, as compared to traditional methods
- ✓ Analysis model generation
- ✓ Unique FEA post-processing
- ✓ Generation of accurate manufacturing data (such as ply flat patterns)
- ✓ Time-saving methodology, allowing for design verification and optimisation

Benefits:

- ✓ Integrate design, analysis and manufacture
- ✓ Highlight potential problems early
- ✓ Reduce need for expensive physical prototypes
- ✓ Communicate laminate specification effectively
- ✓ Minimise material waste

Laminate Tools

A revolutionary Windows application to aid engineers in the design, analysis and manufacture of laminated composite structures.

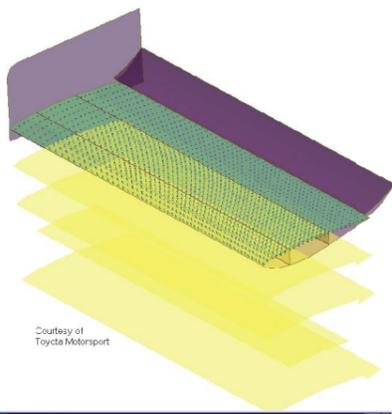


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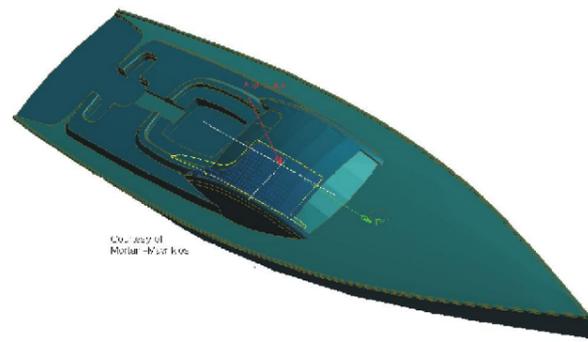
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Courtesy of British American Racing

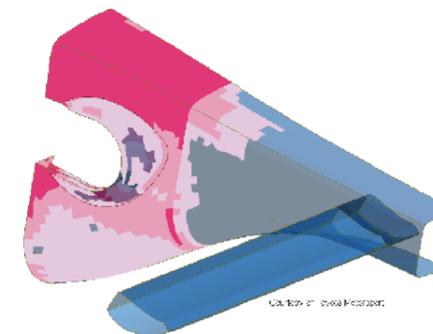
Laminate Tools



Courtesy of Toyota Motorsport



Courtesy of Motul - Marlex



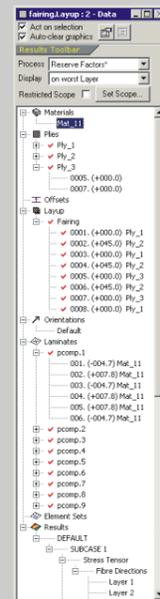
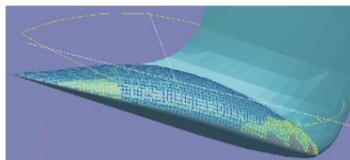
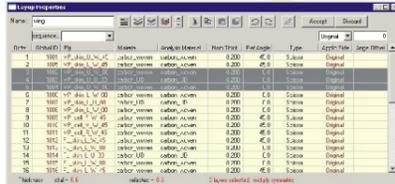
Courtesy of Zwick Messtechnik



Courtesy of Fujifilm / Nigel Irens Design

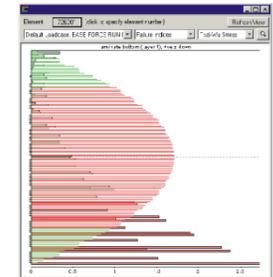
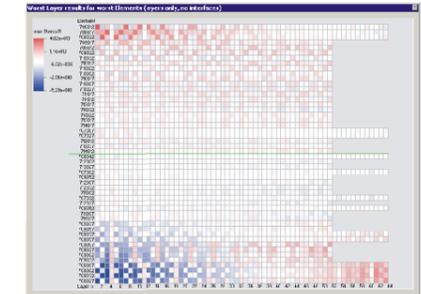
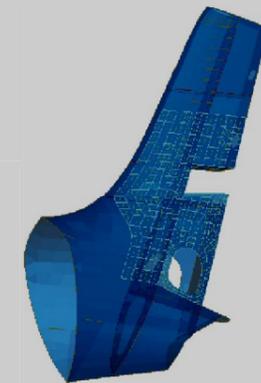
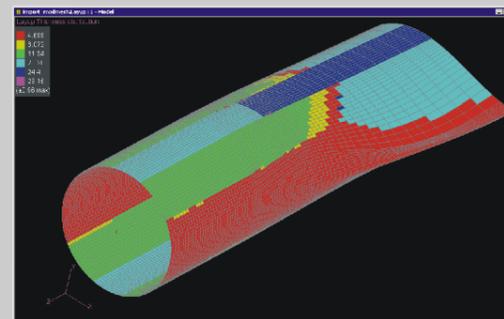
Design

DESIGN the composites aspects for your structure. Build the entire Layup by simulating the draping of fabric material over complex surfaces. Review and make rapid changes before finalising the plybook.



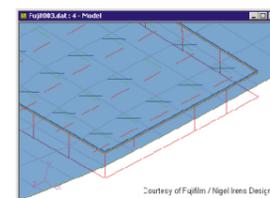
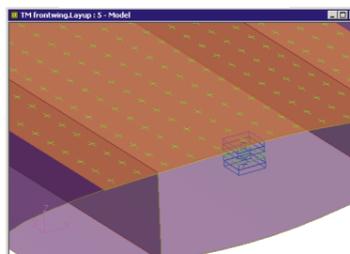
View

VIEW, interpret, verify, share, communicate and safeguard all the composite materials information. Use industry-standard methods and proven technology to minimise design time.



Analysis

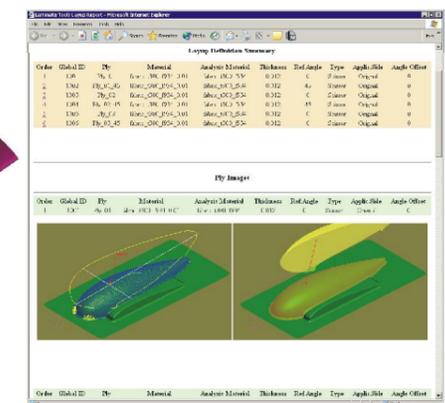
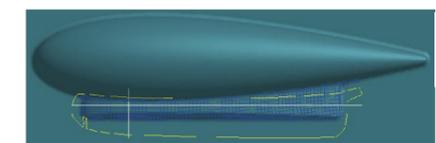
ANALYSE the composite Layup by converting the global ply draping results to accurate local element material properties (laminates) for use in FEA.



Courtesy of Fujifilm / Nigel Irens Design

Manufacture

MANUFACTURE exactly what has been designed. Use Laminate Tools results to nest, cut and place (project) the flat patterns with third-party products. Allow shop-floor personnel to access the native information for best results.



Drape it - Check it - Make it