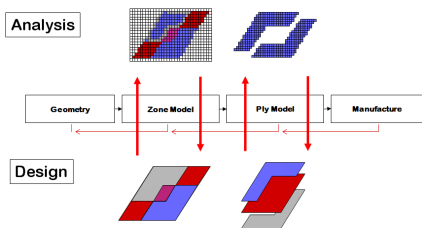


Composites Link

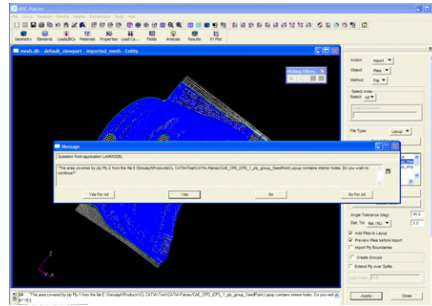
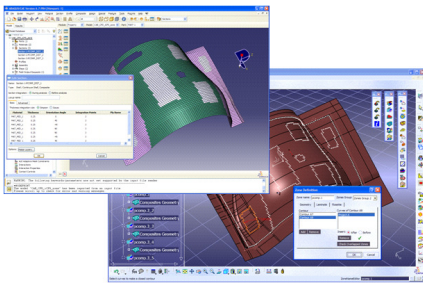
for CATIA V5

Seamless Design-Analysis Integration for CATIA V5 Composites Workbench (CD3/CPE/CPM)

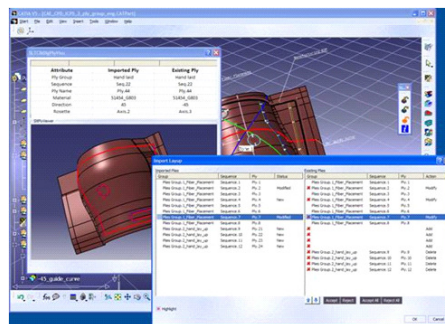
Composites Link for the CATIA V5 Composites Workbench allows designers and analysts to communicate effectively during the composites development process. This saves time, improves product quality and prevents costly errors.



Designers model composites on geometry while analysts model composites on finite elements. During the development process, models must be exchanged between design and analysis. Development usually begins with a sizing analysis model using laminates or sections defined on finite elements. Composites Link imports this data to create Zones within CATIA V5.



Once the designer has defined the ply stacking in CATIA V5, Composites Link exports the entire ply model to a Layup file. This data can then be used by any analysis tool using Simulayt's Layup technology, such as Simulayt's Composites Modeler for ABAQUS/CAE or the Patran Laminate Modeler. The analyst then completes detailed ply-level analyses to identify problems.



Finally, Composites Link imports the updated analysis model following detailed certification analyses. Ply data such as boundaries can be compared interactively against the latest design in CATIA V5 and updates accepted or rejected. This ensures seamless communication between designer and analyst.

CAPABILITIES

Imports laminate/sections defined in finite element models into Zones

Exports the Ply Stacking to a Layup file for transfer to a finite element model for detailed stress calculations

Imports updated plies from analysis and allows efficient review and acceptance of changes

BENEFITS

Allows rapid, accurate and complete transfer of composites data between design and analysis

Eliminates requirement to redefine composites model manually

Saves time, improves quality and prevents costly errors

PREREQUISITES

CATIA V5 Composites Design 3 Configuration (CD3)

CATIA V5 HD2 + Composites Engineering 2 product (CPE)

CATIA V5 HD2 + Composites Design for Manufacturing 2 (CPM)

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