

Figure 2: CATIA CPD Composite Part Costed in aPriori

Cost Modeling the Manufacturing Process

The aPriori mechanistic costing engine simulates the build process and determines the cycle time and associated costs for all operations in the process. Product complexity factors such as material properties, cutout areas, ply size and curvature are automatically assessed to simulate production floor operations.

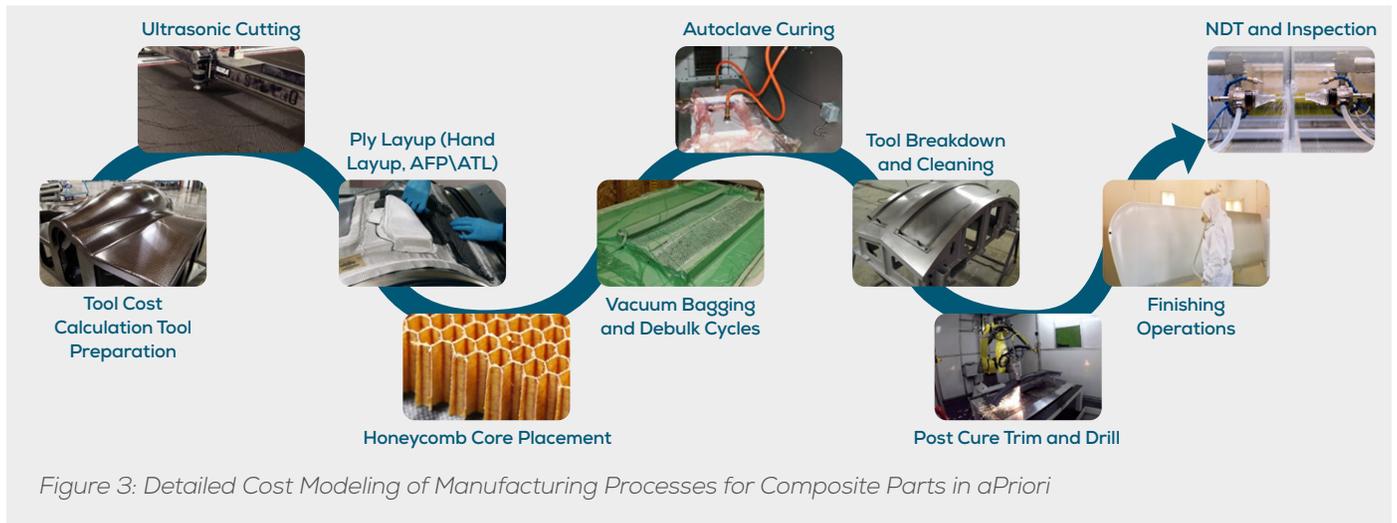


Figure 3: Detailed Cost Modeling of Manufacturing Processes for Composite Parts in aPriori

Extending the aPriori Manufacturing Insights Platform

The aPriori composites costing module further extends the existing solution capabilities to credibly estimate costs associated with common manufacturing processes such as:

Additive Manufacturing, Bar and Tube Fabrication, Casting, Extrusion, Forging, Machining, Sheet Metal Forming, Plastic Molding, PCBA and Wire Harness, Assembly, Secondary Processes, Test and Inspection.

With this comprehensive and expanding set of cost models, aPriori helps design and manufacturing firms develop cost estimates for parts, assemblies, and fully assembled products across diverse industries. Firms can optimize entire product designs for cost and manufacturability, pick production sites with the lowest fully burdened production costs and maximize profit margins across the product portfolio.



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