

SEER® INTEGRATIONS TO CATIA



G A L O R A T H

Solving the Design to Cost Conundrum — SEER® Integrations to CATIA put the power of cost trades in the hands of designers, developing real-time cost estimates directly within CATIA for composite, machined, and sheet metal part designs.

Quality Estimates, Faster — CAD to Cost

SEER tools accurately predict the cost of producing a design. They provide a consistent costing process for use across the enterprise. Design and Manufacturing teams can work together early in the project development phase to expedite go/no-go decisions and optimize design for manufacturability and production costs. Using SEER Integrations, design engineers can obtain detailed part cost estimates for labor (setup, direct, inspection, and rework), material, and tooling costs directly from and within their CATIA solid models.

SEER Ply Cost Estimator

Processes estimated include:

- Ply Placement: Hand Layup, Tow Placement, Automated Tape Laying
- Debulking, Hot Forming
- Core Preparation and Machining
- Panel Layup Hot Press Forming
- Curing (Autoclave, Oven, RTM, or VARTM)
- Trim after Cure
- Non-Destructive Testing
- Tool Prep & Tool Cleaning
- Tool Fabrication and Design
- Material Costs and more

SEER Machining Cost Estimator

Processes estimated include:

- Machining from Raw Stock, Castings, Forgings, Additive Manufactured Parts
- Rough and Finish Milling
- Rough and Finish Turning
- Rough and Finish Boring
- Drilling, Tapping
- High Tolerance Machining (Lapping, Honing, Surface Grinding, Cylindrical Grinding etc.)
- Finishing Operations
- Tool Prep & Tool Cleaning
- Tool Fabrication and Design
- Material Costs and more

Base Year	2019	
Currency	USD	
LABOR TOTAL	Hrs/Unit	Cost/Unit
	270.10	33712.28
Setup	136.63	20036.71
Direct	108.96	10551.26
Inspection	19.71	2590.49
Rework	4.81	533.81
Material		9110.98
Tooling		13110.39
TOTAL COST		55933.65

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G A L O R A T H

SEER Sheet Metal Cost Estimator

Processes estimated include:

- Pre-Form Operations
- Form Operations
- After Form Operations
- Detailed Finishing Operations
- Hole Drilling
- Tool Prep & Tool Cleaning
- Tool Fabrication and Design
- Material Costs and more

Costs are updated and refreshed as the design matures, responding to changes in shape, size, or materials. No duplication of effort re-entering design data into cost models.

Templates and rules are fully customizable to fit users' unique factory environments, labor rates, and processes. Estimates generated by designers can be incorporated into the cost process workflow, building a valuable bridge between Design and Manufacturing.

On Time. On Target.

- Create detailed composite, machined, or sheet metal part cost estimates for labor (setup, direct, inspection, rework), material, and tooling costs
- Update and refresh estimates as the design matures through the manufacturing preparation design phase
- Optimize your manufacturing strategy by performing extensive trade-off analyses, varying assumptions and options to determine which approach is likely to produce the best outcome
- Create and save multiple estimate scenarios for each part to compare and trade options
- Fully customizable templates and rules to fit your factory environments, labor rates, and processes
- Publish estimates as SEER cost models to be shared with SEER users for inclusion into other estimates

About Galorath

Galorath Incorporated has been a leader in predictive analytics for over 30 years, earning its place as a leader in cost estimation. Galorath has a rich heritage developing solutions to help government and commercial organizations estimate, plan and manage complex projects.

SEER for Manufacturing is in use at organizations both large and small, worldwide. Galorath is at the forefront of innovation, bringing realization of Design to Cost with integrated solutions to CATIA for estimating the production costs of composite designs, machined parts, and sheet metal parts directly from CATIA solid models – a CAD to Cost solution.

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