

COSTOPTIMIZER[®] Advanced

MATERIAL COST ESTIMATION SOFTWARE

A FORMINGSUITE[®] MODULE

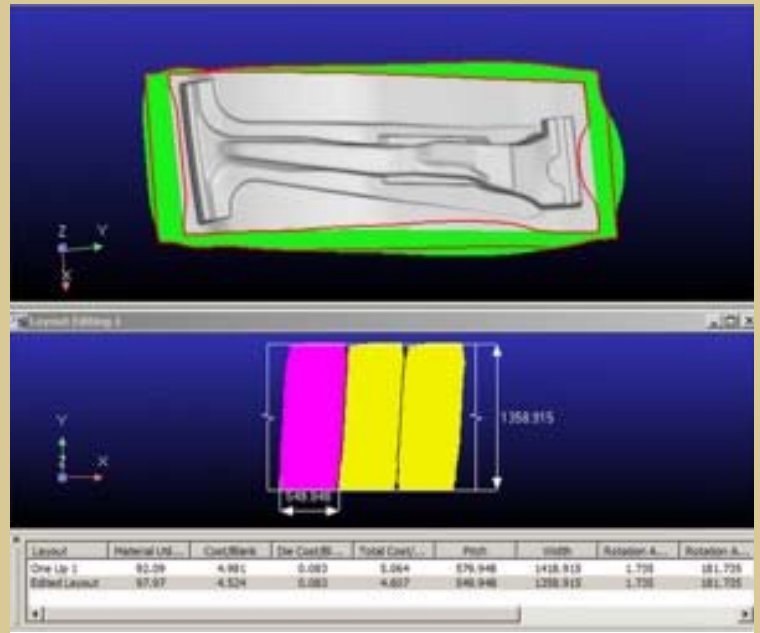
Identifies product design changes that improve material utilization and reduce costs

Accurately determines total material cost per blank

Clearly identifies splitting, wrinkling, and thinning conditions with product or die face geometry

Evaluates multiple manufacturing scenarios for optimal material utilization

Minimizes time to market while reducing downstream design changes



Identifies cost saving opportunities on the part

COSTOPTIMIZER ADVANCED combines the power of FTI's premier formability analysis, blank development and blank nesting tools with specialized product and process optimization tools that help identify design changes that will ultimately reduce product and manufacturing costs by 10-15%.

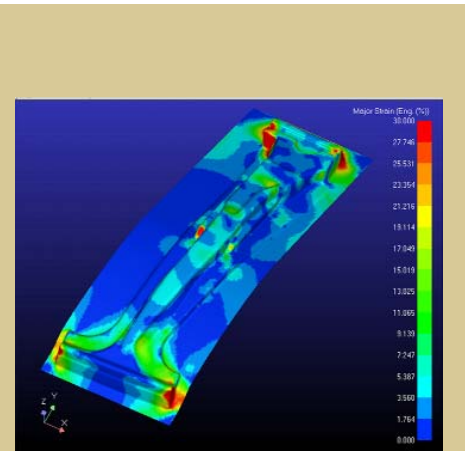


COSTOPTIMIZER ADVANCED

COSTOPTIMIZER ADVANCED provides users with a fast and accurate method for verifying formability, developing blank shapes and coil nests, and for identifying product design changes that lead to substantial material cost reduction. The advanced capabilities makes it ideally suited to product and process engineers, as well as purchasers, planners, estimators and account managers.

FEATURES

- Identifies product design changes that will lead to 10 to 15% reduction in material costs
- Fast and accurate blank shape development for accurate quoting, estimating, and production planning
- Produces fully optimized nesting layouts for standard shape cutoff dies, one-up, two-up and mirrored nesting configurations
- Detailed constraints provide an accurate representation of manufacturing processes
- Evaluates and compares multiple costing scenarios in minutes
- Fully customizable materials database provides standardized material properties and cost data
- Detailed reporting system produces HTML format reports



Detailed results images (major strain shown)



Fast and accurate nesting optimization

Layout	Material Util.	Clippings	Die Cost/Blk	Total Cost	Parts	Waste	Clippings	Clippings Area
One Up 1	82.09	4.901	0.003	5.054	376,940	1418.915	1.725	181,727
One Up 2	82.09	4.902	0.003	5.055	361,720	1417,333	5.148	286,416
One Up 3	82.07	4.902	0.003	5.055	370,050	1417,333	1.872	283,872
One Up 4	82.09	4.902	0.003	5.056	376,860	1418,370	1.921	181,921
One Up 5	81.83	4.900	0.003	5.079	147,861	582,045	-01,062	64,568
One Up 6	81.83	4.905	0.003	5.079	148,023	581,794	-04,029	65,315
One Up 7	81.77	4.908	0.003	5.082	268,862	1418,477	-2,622	173,386
One Up 8	81.57	5.009	0.003	5.072	170,291	582,822	82,860	96,190
One Up 9	81.46	5.013	0.003	5.096	286,862	1417,760	-4,724	173,386
One Up 10	81.46	5.016	0.003	5.094	278,914	1417,574	5,401	185,401

Forming Suite - Layout Editing Results Report

Project: Project2

Material			
Type:	CR100Q	Net Cost:	0.970 \$/kg
Thickness:	3.000 mm	Scrap Value Cost:	0.000 \$/kg
Rollback Blank 1 (C/LFTI)gen (Y=rollin=400.195)			
Thickness:	3.000 mm	Perimeter:	3723.684 mm
Area:	772144.251 mm²	Weight:	4.503 kg
Rollback Layout:			
Engineering Fall Off:	2.00 %	Die Area:	945335.177 mm²
Minimum Blank Mass:	911249.983 N	Shear / Perimeter Coeff:	3723.684 mm

Layout	Utilization %	Fitch mm	Width mm	Angle deg	Crease Weight Net Weight	Cost \$	Blank Die Cost \$	Blank Total Cost \$
One Up 1	82.09	376,940	1418.915	1.725	4.729	4.581	0.003	5.054
Detail Layout for 10	82.09	376,940	1418.915	1.725	4.729	4.581	0.003	5.054

Detailed reporting system summarizes results

ABOUT FORMING TECHNOLOGIES Forming Technologies Incorporated (FTI) is the world's leading developer of computer aided engineering software for design and simulation of sheet metal forming. FTI has developed a suite of products to analyze product formability, die design, and process feasibility. For the past 19 years, FTI has provided the automotive OEM, Tier 1, Tier 2, Tier 3, aerospace, and appliance industries with innovative software and training solutions designed to reduce development time and material costs. These solutions have resulted in millions of dollars of savings for our customers. FTI and its global network of partners provide sales and technical support to customers in more than 30 countries.



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