

FORMING TECHNOLOGIES INCORPORATED	FASTBLANK Blank Development	FASTFORM Advanced Advanced Formability Analysis	BLANKNEST Blank Nesting	PROGNEST Progressive Die Nesting	STRIPNEST Strip Nesting	COSTOPTIMIZER Blank Development, Nesting and Cost Optimization Bundle	COSTOPTIMIZER Advanced Formability Analysis, Blank Size, Nesting and Cost Optimization	FASTFORM MultiStage	FAST Incremental
Infrastructure									
CHI Solver	X	X				X	X	X	X
FIT MultiStage Solver								X	X
DFTT MultiStage Solver								X	X
LS-Dyna								X	X
Fully regenerative analysis	X	X	X	X	X	X	X	X	X
Multiple cases	X	X	X	X	X	X	X	X	X
Tree Based Analysis Structure	X	X	X	X	X	X	X	X	X
View Manipulation									
Zoom	X	X	X	X	X	X	X	X	X
Zoom Window	X	X	X	X	X	X	X	X	X
Pan	X	X	X	X	X	X	X	X	X
Rotate	X	X	X	X	X	X	X	X	X
Fill	X	X	X	X	X	X	X	X	X
Mouse button control	X	X	X	X	X	X	X	X	X
Screen Capture	X	X	X	X	X	X	X	X	X
File									
Read IGES/DA/STEP	X	X	X	X	X	X	X	X	X
Read Native CAD formats	0	0	0	0	0	0	0	0	0
Save Report	X	X	X	X	X	X	X	X	X
Single File Project Structure	X	X	X	X	X	X	X	X	X
Printing/Plotting									
Print Report	X	X	X	X	X	X	X	X	X
Plot Blank Outline	X	X	X	X	X	X	X	X	X
Preferences									
License	X	X	X	X	X	X	X	X	X
Units (Metric or Imperial)	X	X	X	X	X	X	X	X	X
Currency	X	X	X	X	X	X	X	X	X
Folder Location (Temp/Map DB, etc)	X	X	X	X	X	X	X	X	X
Results Display Style	X	X	X	X	X	X	X	X	X
Blank Definition Settings	X	X	X	X	X	X	X	X	X
Process Setup Process Setting	X	X	X	X	X	X	X	X	X
Process Setup Meshing Settings	X	X	X	X	X	X	X	X	X
Nesting Settings	X	X	X	X	X	X	X	X	X
Progressive Nesting Settings				X					
Strip Nesting Settings					X				
Layout Editing Settings			X	X		X	X		
Tool Definition Meshing Settings									X
Material Database Edit									
Database Editor	X	X	X	X	X	X	X	X	X
Specify Standard DB Location	X	X	X	X	X	X	X	X	X
Variable Cost vs Coil Width/Thickness	X	X	X	X	X	X	X	X	X
User Defined FLC	X	X	X	X	X	X	X	X	X
User Defined SSC	X	X	X	X	X	X	X	X	X
Geometry Tools									
Measure Surfaces	X	X	X	X	X	X	X	X	X
Measure Lines	X	X	X	X	X	X	X	X	X
Measure Holes	X	X	X	X	X	X	X	X	X
Info on Features	X	X	X	X	X	X	X	X	X
Create Lines	X	X	X	X	X	X	X	X	X
Create Points	X	X	X	X	X	X	X	X	X
Delete Lines	X	X	X	X	X	X	X	X	X
Delete Points	X	X	X	X	X	X	X	X	X
Delete Surfaces	X	X	X	X	X	X	X	X	X
Create Domain on Part	X	X	X	X	X	X	X	X	X
Create Domain on Skin	X	X	X	X	X	X	X	X	X
Automatic Skinning	X	X	X	X	X	X	X	X	X
Manual Skinning	X	X	X	X	X	X	X	X	X
Split Surface	X	X	X	X	X	X	X	X	X
Remove holes in Surface	X	X	X	X	X	X	X	X	X
Fill Notches	X	X	X	X	X	X	X	X	X
Create Double Attached	X	X	X	X	X	X	X	Only for one operation	X
Apply Material	X	X	X	X	X	X	X	X	X
Apply Multiple Materials (TWB)	X	X	X	X	X	X	X	X	X
Mesh									
Generate Mesh	X	X	X	X	X	X	X	X	X
Export Mesh as STL	X	X	X	X	X	X	X	X	X
Export Mesh as NASTRAN	X	X	X	X	X	X	X	X	X
Friction									
Friction	X	X	X	X	X	X	X	X	X
Tipping									
Auto	X	X	X	X	X	X	X	X	X
Manual	X	X	X	X	X	X	X	X	X
Die Line	X	X	X	X	X	X	X	X	X
Normal to Surface	X	X	X	X	X	X	X	X	X
Display Undercut	X	X	X	X	X	X	X	X	X
Curved Binder									
Import/Analyze Curved Binder		X					X	X	X
Generate Curved Binder		X					X	X	X
Export Curved Binder Mesh		X					X	X	X
Process									
Define Process (Draw Die/Form Die)	X	X				X	X	X	X
Insert Operations									
Insert Operations								X	X
Forming Conditions									
Uniform Blankholder Force	X	X				X	X	X	X
Variable Blankholder Force (Edge Tension)		X					X	X	X
Drawbead		X					X	X	X
Pressure Pads	X	X				X	X	X	X
Tailor Welded Blank		X					X	X	X
Feature Line	X	X				X	X	X	X
Pilot Holes	X	X				X	X	X	X
Pilot Slot	X	X				X	X	X	X
Bend Lines		X					X	X	X
Forming Constraints		X					X	X	X
Constrained Surface		X					X	X	X
Constrained Edge		X					X	X	X
Results (CHI and Multistage)									
Calculate Trim Line									X
Major Strain		X					X	X	X
Minor Strain		X					X	X	X
Principal Strain Direction		X					X	X	X
Thickness Strain	X	X				X	X	X	X
Thickness		X					X	X	X
Safety Zone		X					X	X	X
Safety Margin		X					X	X	X
Forming Zone		X					X	X	X
Equivalent Strain		X					X	X	X
Equivalent Stress		X					X	X	X
Principal Curvature		X					X	X	X
Forming Displacements		X					X	X	X
Export Blank Mesh Outline	X	X				X	X	X	X
Export Blank on Curved Binder		X					X	X	X
Interactive Forming Limit Diagram		X					X	X	X
Result Graphing		X					X	X	X
Punch Force		X					X	X	X
Export Forming Results for Crash		X					X	X	X
Mesh Fold Display	X	X				X	X	X	X
Feature Line Mapping	X	X				X	X	X	X
Springback									
Springback Analysis		X*					X*	X*	X*
Springback Constraints		X*					X*	X*	X*
Springback Trimming		X*					X*	X*	X*
Springback Alignment		X*					X*	X*	X*
Springback Shape Display		X*					X*	X*	X*
Springback Displacement (3D, X, Y, Z)		X*					X*	X*	X*
Export Springback Mesh as STL		X*					X*	X*	X*
Export Springback Mesh as NASTRAN		X*					X*	X*	X*
Blank Geometry									
Import Blank		X	X	X	X	X	X	X	X
Measure on Blank Surface	X	X	X	X	X	X	X	X	X
Add Uniform Addendum to Blank	X	X	X	X	X	X	X	X	X
Add Variable Addendum to Blank	X	X	X	X	X	X	X	X	X
Manual Blank Definition	X	X	X	X	X	X	X	X	X
Pre-Defined Blank Shape	X	X	X	X	X	X	X	X	X
Blank Edge Smoothing	X	X	X	X	X	X	X	X	X
Export Blank Geometry as IGES	X	X	X	X	X	X	X	X	X
Export Blank Geometry as DXF	X	X	X	X	X	X	X	X	X
Tooling									
Create Binder Wrap (Blank Mesh)									X
Generate Tooling									X
Import Tooling									X
Specify Standard Thickness									X
Incremental Results									
Major Strain		X					X	X	X
Minor Strain		X					X	X	X
Principal Strain Direction		X					X	X	X
Thickness Strain		X					X	X	X
Thickness		X					X	X	X
Safety Zone		X					X	X	X
Safety Margin		X					X	X	X
Forming Zone		X					X	X	X
Equivalent Strain		X					X	X	X
Equivalent Stress		X					X	X	X
Tooling Viewer		X					X	X	X
Export Formed Part Boundary		X					X	X	X
Die Load Plot		X					X	X	X
Interactive Forming Limit Diagram		X					X	X	X
AVI Video Export		X					X	X	X
Export Forming Results for Crash		X					X	X	X
Export Result Meshes as STL		X					X	X	X
Blank Nesting									
Specify Die Plane				X		X	X		
Distance Between Blanks	X	X	X	X	X	X	X	X	
Blank to Coil Edge Distance	X	X	X	X	X	X	X	X	
Carrier Width		X	X	X	X	X	X	X	
Carrier to Blank Distance		X	X	X	X	X	X	X	
Blank Die Cost		X	X	X	X	X	X	X	
Coil Parameters		X	X	X	X	X	X	X	
Width Constraints		X	X	X	X	X	X	X	
Pitch/Progression Constraints		X	X	X	X	X	X	X	
Rotation Angle Constraints		X	X	X	X	X	X	X	
Cutoff Dies	X	X	X	X	X	X	X	X	
1-Up Nesting		X	X	X	X	X	X	X	
2-Up Nesting		X	X	X	X	X	X	X	
Mirror Nesting		X	X	X	X	X	X	X	
Nesting 2 Blanks		X	X	X	X	X	X	X	
1-Up Side Carrier Nesting		X	X	X	X	X	X	X	
1-Up Center Carrier Nesting		X	X	X	X	X	X	X	
1-Up Double Side Carrier Nesting		X	X	X	X				