

<b>FORMING TECHNOLOGIES INCORPORATED</b>	<b>FASTBLANK</b> Blank Development	<b>FASTFORM Advanced</b> Advanced Formability Analysis	<b>BLANKNEST</b> Blank Nesting	<b>PROGNEST</b> Progressive Die Nesting	<b>STRIPNEST</b> Strip Nesting	<b>COSTOPTIMIZER</b> Blank Development, Nesting and Cost Optimization Bundle	<b>COSTOPTIMIZER Advanced</b> Formability Analysis, Blank Size, Nesting and Cost Optimization	<b>FASTFORM MultiStage</b>	<b>FAST Incremental</b>
<b>Infrastructure</b>									
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
<b>View Manipulation</b>									
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
<b>File</b>									
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
<b>Printing/Plotting</b>									
Print Report	X	X	X	X	X	X	X	X	X
Plot Blank Outline	X	X	X	X	X	X	X	X	X
<b>Preferences</b>									
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
<b>Material Database Edit</b>									
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
<b>Geometry Tools</b>									
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
<b>Mesh</b>									
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
<b>Friction</b>									
Friction	X	X	X	X	X	X	X	X	X
<b>Tipping</b>									
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
<b>Curved Binder</b>									
Import/Analyze Curved Binder		X					X	X	X
Generate Curved Binder		X					X	X	X
Export Curved Binder Mesh		X					X	X	X
<b>Process</b>									
Define Process (Draw Die/Form Die)	X	X				X	X	X	X
<b>Insert Operations</b>									
Insert Operations								X	X
<b>Forming Conditions</b>									
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
<b>Results (CHI and Multistage)</b>									
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
<b>Springback</b>									
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*
<b>Blank Geometry</b>									
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
<b>Tooling</b>									
Create Binder Wrap (Blank Mesh)									X
Generate Tooling									X
Import Tooling									X
Specify Standard Thickness									X
<b>Incremental Results</b>									
Major Strain									X
Minor Strain									X
Principal Strain Direction									X
Thickness Strain									X
Thickness									X
Safety Zone									X
Safety Margin									X
Forming Zone									X
Equivalent Strain									X
Equivalent Stress									X
Tooling Viewer									X
Export Formed Part Boundary									X
Die Load Plot									X
Interactive Forming Limit Diagram									X
AVI Video Export									X
Export Forming Results for Crash									X
Export Result Meshes as STL									X
<b>Blank Nesting</b>									
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		
Carrier to Blank Distance				X		X	X		
Blank Die Cost			X			X	X		
Coil Parameters			X			X	X		
Width Constraints			X	X	X	X	X		
Pitch/Progression Constraints			X	X	X	X	X		
Rotation Angle Constraints			X	X	X	X	X		
Cutoff Dies	X	X	X	X	X	X	X	X	
1-Up Nesting			X		X	X	X		
2-Up Nesting			X		X	X	X		
Mirror Nesting			X		X	X	X		
Nesting 2 Blanks			X		X	X	X		
1-Up Side Carrier Nesting				X		X	X		
1-Up Center Carrier Nesting				X		X	X		
1-Up Double Side Carrier Nesting				X		X	X		
2-Up Side Carrier Nesting				X		X	X		