



## SAi EnRoute Feature List

	DESIGNER PRO	PRO	PLUS	BASIC	FAB ADVANCED	FAB
CONFIGURATION	4 View Screen (Top, Front, Side, 3D Perspective)	●	●	●	●	●
	Gcode Import	●	●	●	●	●
	File Preview	●	●	●	●	●
	Snapshot	●	●	●	●	●
	Zoom In/Out & Panning	●	●	●	●	●
	View Filter	●	●	●	●	●
	Vector Import/Export	●	●	●	●	●
	Bitmap import/export	●	●	●	●	●
	3D import/export	●	●			
TOOLS	Multiple Tool Libraries	●	●	●	●	●
	Define Custom Tools	●	●	●	●	●
	Ball Nose Tools	●	●	●	●	●
	Bull Nose Tools	●	●	●	●	●
	Conic Tools	●	●	●	●	●
	Drills	●	●	●	●	●
	Double Conic Tools	●	●	●	●	●
	Engrave Tools	●	●	●	●	●
	Spherical Tools	●	●	●	●	●
	Tapered Tools	●	●	●	●	●
	Profile Tools	●	●	●	●	●
	Knives (drag/tangential/oscillating/reciprocating/...)	●	●	●	●	●
	Creasing Wheels	●	●	●	●	●
	Tool Presets (speed, ...) per Material Type	●	●	●	●	●
	Feed Rate Calculator	●	●	●	●	
	Kerf Compensation (laser/waterjet/plasma)	OPT	OPT	OPT	OPT	●
	Tool Compensation Support	●	●	●	●	
MATERIAL	Material Library	●	●	●	●	●
	Remnant Plates	●	●	●	●	●
	Plate Margins	●	●	●	●	●
	Plate Templates	●	●	●	●	●
	Clip Output to Plate		●	●	●	●
	Different Plates on Different Layers	●	●	●	OPT	●

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OBJECT EDITING TOOLS	Precision Input Center	●	●	●	●	●	●
	Layers	●	●	●	●	●	●
	Layer Management (Create, Order, Delete, Move Objects between Layers,...)	●	●	●	●	●	●
	Magnetic Snap Tools	●	●	●	●	●	●
	View Filter for Tools & Toolpaths	●	●	●	●	●	●
	Guidelines	●	●	●	●	●	●
	Double Grid	●	●	●	●	●	●
	Rulers	●	●	●	●	●	●
	Dimensions	●	●	●	●	●	●
	Measure (Length, Angle, Area)	●	●	●	●	●	●
	Move	●	●	●	●	●	●
	Scale	●	●	●	●	●	●
	Rotate	●	●	●	●	●	●
	Mirror	●	●	●	●	●	●
	Group & Ungroup	●	●	●	●	●	●
	Align & Center Objects	●	●	●	●	●	●
	Weld Tools (Join, Common, Subtract)	●	●	●	●	●	●
	Jigsaw Tool	●	●	●	●	●	●
	Cut by Line	●	●	●	●	●	●
Advanced Selection Tools (Inverse, Circles Only)	●	●	●	●	●	●	
CONTOUR EDITING TOOLS	Point & Line Edit	●	●	●	●	●	●
	Linearize Curves	●	●	●	●	●	●
	Insert Corners	●	●	●	●	●	●
	Smooth Approximation Tool	●	●	●	●	●	●
	2D Geometry Distortion (Patch, Taper, Noise)	●	●	●	●	●	●
	Trim/Extend Contours	●	●	●	●	●	●
	Fillet	●	●	●	●	●	●
	Join Contours	●	●	●	●	●	●
	Offset Contours (Inline & Outline)	●	●	●	●	●	●
	Multicopy (Array, Arc, Path)	●	●	●	●	●	●
	Vectorization (Convert Bitmap to Cut Contours)	●	●	●	●	●	●
	Cleanup (Point Reduction)	●	●	●	●	●	●
	Explode Contours	●	●	●	●	●	●
	Merge Contours	●	●	●	●	●	●
	Convert Curves to Arcs	●	●	●	●	●	●
Reverse Open Contours	●	●	●	●	●	●	

<h1>S<i>Ai</i> EnRoute Feature List</h1>		DESIGNER PRO	PRO	PLUS	BASIC	FAB ADVANCED	FAB
DRAWING TOOLS	Draw Line	●	●	●	●	●	●
	Draw Polyline	●	●	●	●	●	●
	Draw Curves	●	●	●	●	●	●
	Draw Circle	●	●	●	●	●	●
	Draw Rectangle/Square with corner options	●	●	●	●	●	●
	Draw Oval	●	●	●	●	●	●
	Draw Arc	●	●	●	●	●	●
	Draw Polygon	●	●	●	●	●	●
TEXT	TrueType Font Support	●	●	●	●	●	●
	Create Text	●	●	●	●	●	●
	Text on Contours	●	●	●	●	●	●
	Grade 2 Braille	●	●	●	●	●	●
	Single Stroke Fonts for Marking	●	●	●	●	●	●
SHAPEWIZARDS	Basket and Center Arch	●	●	●	●	●	●
	Fold Up Box (shipping containers)	●	●	●	●	●	●
	Boxster Standard Cabinet Wizard	●	●	●	●	●	●
	Cone Wizard	●	●	●	●	●	●
	Cut Off Corners	●	●	●	●	●	●
	Flange	●	●	●	●	●	●
	Gcode Contour Import	●	●	●	●	●	●
	Gusset	●	●	●	●	●	●
	Lug Lift (2 types)	●	●	●	●	●	●
	Part Round	●	●	●	●	●	●
	Quarter Round	●	●	●	●	●	●
	Thread Milling Wizard	●	●	●	●	●	●
	Custom Macros and Wizards	●	●	●	●	●	●
Save Shapewizard Templates	●	●	●	●	●	●	
SOLUTIONS	Braille	●	●	●	●	●	●
	Feed Rate Calculator	●	●	●	●	●	●
	Block Creator	●	●	●	●	●	●
	Backplot Gcode Output Simulator	●	●	●	●	●	●
RAPID TEXTURES / RAPID PICTURE <small>(Optional for Plus &amp; Basic)</small>	Rapid Textures	●	●	OPT	OPT		
	Rapid Pictures	●	●	OPT	OPT		
	Rapid 3D Relief Texture	●	●	OPT	OPT		
	Symmetric Textures	●	●	OPT	OPT		
	Rapid Texture Panels	●	●	OPT	OPT		
	Rapid Texture Fade	●	●	OPT	OPT		
	Rapid Texture Clipping	●	●	OPT	OPT		
	Save Rapid Texture Templates	●	●	OPT	OPT		

<h1 style="margin: 0;">SAi EnRoute Feature List</h1>		DESIGNER PRO	PRO	PLUS	BASIC	FAB ADVANCED	FAB
3D DESIGN	3D Relief Creation (Round, Bevel, Flat)	●	●				
	Relief Edit (Smooth, Bevel, Dome, Flat, Blending, Invert, Fit to Plate, Apply Draft Angle)	●	●				
	3D Parametric Textures	●	●				
	Save Parametric Texture Templates	●	●				
	3D Design Tools (Revolve, Spin, Extrude, Sweep Two Rails, Chamfer, Primitive Objects)	●	●				
	Bitmap to Relief	●	●				
	Mesh to Relief	●	●				
	Merge/Combine Reliefs	●	●				
	Relief Slicing	●	●				
	Relief Offset for Mold Making	●	●				
	Relief Alignment	●	●				
	Fit Relief to Plate	●	●				
	3D Mesh Creation	●	●				
	3D Object Distortion	●	●				
	Project Toolpath onto Surface	●	●				
Step Rough and Rough Toolpath for 3D	●	●					
TOOLPATHS	Routing Offset	●	●	●	●		
	Open Contour Offset	●	●	●	●	●	●
	Engraving/Scribing	●	●	●	●	●	●
	3D Engrave	●	●	●			
	Hatch fill	●	●	●	●		
	Island Fill	●	●	●	●		
	Spiral Fill	●	●	●	●		
	Drilling and Tapping	●	●	●	●	●	●
	Drill Corners, Array, Circle or along a Path	●	●	●	●		
	Drill Centers	●	●	●	●	●	●
	Slots	●	●	●	●	●	●
	Pyramid Tool (Prismatic Tekst)	●	●	●			
OUTPUT	2D Simulation	●	●	●	●	●	●
	Ortho View	●	●	●	●	●	●
	3D Simulation	●	●	●	●	●	●
	Smart ordering	●	●	●	●	●	●
	Manual ordering	●	●	●	●	●	●
	Default Ordering Presets	●	●	●	●	●	●
	Gcode Output		●	●	●	●	●
	HPGL Output		●	●	●	●	●
	2D Output		●	●	●	●	●
	2½D Output		●	●			
	3D Output		●				
	Cutting Estimation (time, distance, ...)	●	●	●	●	●	●

# SAi EnRoute Feature List

	DESIGNER PRO	PRO	PLUS	BASIC	FAB ADVANCED	FAB
TOOLPATH OPTIONS	Toolpath Plans (Save Multiple Strategies as a Plan)	●	●	●	●	●
	Toolpath Strategies	●	●	●	●	●
	Clean Pass for Routing Offset, Island Fill, Hatch Fill	●	●	●	●	
	3D Clean Pass for Routing Offset, Island Fill, Hatch Fill	●	●	●		
	Automatic Inlay with Shoulders	●	●	●	●	
	Channel tags for close fitting Joints	●	●	●	●	
	Sharp Corners	●	●	●	●	●
	Sharp Corners for 3D External Engrave	●	●	●		
	Follow Contour for 3D Engrave	●	●	●	OPT	
	Bridges (Lift, Ramp, Smooth, Ramp Mesa, Smooth Mesa)	●	●	●	●	
	Weld Offsets	●	●	●	●	●
	Multiple Tools per Toolpath	●	●	●	●	
	Fine Tool	●	●	●	●	●
	Clean Tool	●	●	●	●	●
	Multiple Passes with Final Pass	●	●	●	●	
	Start Point Location	●	●	●	●	●
	Entry/Exit	●	●	●	●	●
	3D Entry/Exit	●	●	●	●	
	Daisy Chain Cutting	●	●	●		●
	Common Line Cutting	●	●	●	OPT	●
	Slant Toolpaths	●	●	●		
	Toolpath Distortion	●	●	●		
	3D Toolpathing	●	●			
	Drill Bank Support	●	●	●	●	●
	Tapping Spindle Support	●	●	●	●	●
	Aggregate Head Support (1 direction)	●	●	●	●	
	Horizontal Drilling Support	●	●	●	●	
Digital Registration Support (Camera Systems)	●	●	●	●	●	
Knife Cutting	●	●	●	●	●	
Support for Dual Heads	●	●	●	●		
FABRICATION for Plasma, Waterjet & Laser (Optional for Pro, Plus & Basic)	Engraving/Scribing	●	●	●	●	●
	Kerf Compensation	OPT	OPT	OPT	OPT	●
	Looped Corners	OPT	OPT	OPT		●
	Daisy Chain Cutting	●	●	●		●
	Common Line Cutting	●	●	●	OPT	●

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NESTING (Optional for Basic & Entry)	Dynamic Freehand Nesting	●	●	●	OPT	●	
	True Shape Nesting	●	●	●	OPT	●	
	Block Nesting	●	●	●	OPT	●	
	Copy Nesting	●	●	●	OPT	●	
	Nest around Obstructions	●	●	●	OPT	●	
	Remnant Plate Creation	●	●	●	OPT	●	
	Nest to Remnant Plate	●	●	●	OPT	●	
	Nesting Report	●	●	●	OPT	●	
	Block Nesting with Common Line for Rectangles	●	●	●	OPT	●	
	Nesting Priorities	●	●	●	OPT	●	
	Nest to Multiple Sheets	●	●	●	OPT	●	
	Nest using Holes	●	●	●	OPT	●	
	Define Step Angle (1° - 180°)	●	●	●	OPT	●	
	Define Target Areas	●	●	●	OPT	●	
	Nesting Report	●	●	●	OPT	●	
AUTOMATIC TOOLPATHING (Optional for Pro, Plus, Basic, Entry)	Automatic Toolpath Processing		OPT	OPT	OPT	●	
	Adjustable Cut Depth		OPT	OPT	OPT	●	
	Ordering & Nesting		OPT	OPT	OPT	●	
	Layer Printout for easy part location		OPT	OPT	OPT	OPT	
	Labelling for ATP		OPT	OPT	OPT	OPT	
	Cut List Generator for DXF Files		OPT	OPT	OPT	●	
	KCD, AMS, Cabinet Solutions, 3D Kitchen, Cabinet Vision, FlexiCabs, 20/20, Pattern Systems, RouterCad, Boxster,...		OPT	OPT	OPT	●	

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