

# SAi EnRoute Feature List

		COMPLETE SUBSCRIPTION*	DESIGNER PRO	PRO	PLUS	BASIC	ENTRY	FABRICA- TION
CONFIGURATION	Fast Redraw of Contours, Toolpaths and Text	•	•	•	•	•	•	•
	On Demand Right Click Training Movies	•	•	•	•	•	•	•
	Keyless Security for Better License Protection	•	•	•	•	•	•	•
	4 View Screen (Top, Front, Side, 3D Perspective)	•	•	•	•	•	•	•
	Gcode Import	•	•	•	•	•		•
	File Preview	•	•	•	•	•	•	•
	Snapshot	•	•	•	•	•	•	•
	Zoom In/Out & Panning, Zoom to Selection, Zoom to Extents, Zoom to Plate	•	•	•	•	•	•	•
	View Filter	•	•	•	•	•	•	•
	Vector Import/Export - DXF, DWG, AI, EPS, PDF, Gcode - All Current	•	•	•	•	•	•	•
	Bitmap Import/Export	•	•	•	•	•		•
	3D Import/Export	•	•	•				
	Switch Languages On the Fly From the Help Menu	•	•	•	•	•	•	•
	Tool Library	•	•	•	•	•	•	•
MATERIAL	Material Library	•	•	•	•	•	•	•
	Plate Templates	•	•	•	•	•	•	•
	Clip to Plate	•	•	•	•	•	•	•
	Different Plates on Different Layers	•	•	•	•	OPT	OPT	•
OBJECT EDITING TOOLS	Precision Input Center	•	•	•	•	•	•	•
	Layers	•	•	•	•	•	•	•
	Layer Management (Create, Order, Delete, Move Objects Between Layers,...)	•	•	•	•	•		•
	Snaps (Point, Contour, Intersecting Contours, Perpendicular, Tangent, Tangent between Two Circles, Intersection Snaps)	•	•	•	•	•		•
	Guidelines	•	•	•	•	•		•
	Double Grid	•	•	•	•	•	•	•
	Rulers	•	•	•	•	•	•	•

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OBJECT EDITING TOOLS	Dimensions	•	•	•	•	•		•
	Measure (Length, Angle, Area)	•	•	•	•	•	•	•
	Move	•	•	•	•	•	•	•
	Scale	•	•	•	•	•	•	•
	Rotate	•	•	•	•	•	•	•
	Mirror	•	•	•	•	•		•
	Group & Ungroup	•	•	•	•	•	•	•
	Align	•	•	•	•	•		•
	Weld Tools (Join, Common, Subtract)	•	•	•	•	•		•
	Jigsaw Tool <b>with Zoom and Pan</b>	•	•	•	•	•		•
	Cut by Line <b>with Zoom and Pan</b>	•	•	•	•	•		•
	Advanced Selection Tools (Inverse, Circles Only)	•	•	•	•	•		•
	CONTOUR EDITING TOOLS	Point Edit <b>with Improved Arc Editing</b>	•	•	•	•	•	
Linearize Curves		•	•	•	•	•		•
Insert Corners		•	•	•	•	•		•
Smooth Approximation Tool		•	•	•	•	•		•
2D Geometry Distortion (Patch, Taper, Noise)		•	•	•	•	•		•
Extend Contours/ <b>Improved Trim Contours</b>		•	•	•	•	•		•
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	•	•	•	•	•	•	•	
DRAWING	Draw Line, Draw Polyline, Draw Bezier, Sketch Tool	•	•	•	•	•		•
	Draw Polyline, Draw Bezier, <b>Sketch Tool</b>	•	•	•	•	•		•
	Draw Curves	•	•	•	•	•		•
	Draw Circle	•	•	•	•	•		•

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DRAWING	Draw Rectangle/Square with Corner Options	•	•	•	•	•		•
	Draw Oval	•	•	•	•	•		•
	Draw Arc	•	•	•	•	•		•
	Draw Polygon	•	•	•	•	•		•
TEXT	Windows TrueType Font Text Tool	•	•	•	•	•		•
	Copy and Paste Text from Clipboard	•	•	•	•	•		•
	Text on Contours	•	•	•	•	•		•
	Support for One Line Fonts Single Stroke Fonts	•	•	•	•	•		•
	Single Stroke Fonts for Marking	•	•	•	•	•		•
CDF	Interlocking Component Creator Wizard	•	•	•	•			
	Model Stacker - Mesh to 2D Contours by Slice	•	•	•	•			
SHAPEWIZARD	Basket and Center Arch	•	•	•	•	•		•
	Fold Up Box (Shipping Containers)	•	•	•	•	•		•
	Boxster Standard Cabinet Wizard	•	•	•	•	•		•
	Concentric/Eccentric 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	•	•	•	•	•		•
SOLUTIONS	Braille	•	•	•	•	•		•
	Feed Rate Calculator	•	•	•	•	•		•
	Block Creator	•	•	•	•	•		•
	Backplot Gcode Output Simulator	•	•	•	•	•	•	•
	Box Reader	•	•	•	•	•		•
	Brightness	•	•	•	•	•		•
	Flip Bitmap	•	•	•	•	•		•

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RAPID TEXTURES	Rapid Textures (Made Easier in EnRoute 6)	•	•	•	•			
	Rapid Pictures	•	•	•	•			
	Rapid 3D Relief Texture	•	•	•				
	Symmetric Textures (Made Easier in EnRoute 6)	•	•	•	•			
	Rapid Texture Fade	•	•	•	•			
	New Rapid Texture Templates	•	•	•	•			
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	•	•	•				
	Symmetric 3D Parametric Textures	•	•	•				
	New Parametric Template Libraries	•	•	•				
	3D Design Tools (Revolve, Spin, Extrude, Sweep Two Rails, Chamfer, Primitive Objects)	•	•	•				
	Bitmap to Relief	•	•	•				
	Mesh to Relief	•	•	•				
	Merge/Combine Reliefs	•	•	•				
	Relief Slicing	•	•	•				
	Toolpath Mask Created During Relief Slicing	•	•	•				
	Vertical Slicing of Reliefs	•	•	•				
	Relief Offset for Mold Making	•	•	•				
	Relief Alignment	•	•	•				
	3D Mesh Creation	•	•	•				
3D Object Distortion	•	•	•					

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TOOLPATHS	Routing Offset	•	•	•	•	•	•	
	Open Contour Offset	•	•	•	•	•	•	•
	Engraving/Scribing	•	•	•	•	•	•	•
	3D Engrave	•	•	•	•			
	Hatch fill	•	•	•	•	•	•	
	Island Fill	•	•	•	•	•	•	
	Spiral Fill	•	•	•	•	•	•	
	Drilling and Tapping	•	•	•	•	•	•	•
	Drill Centers, Corners, Array, Circle or along a Path	•	•	•	•	•	OPT	•
	Slots	•	•	•	•	•		•
	Pyramid Tool (Prismatic Text)	•	•	•	•			
TOOLPATH OPTIONS	Toolpath Plans	•	•	•	•	•	•	•
	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 for 3D External Engrave	•	•	•	•			
	Follow Contour	•	•	•	•			
	Bridges	•	•	•	•	•		
	Bridges & Start Point Editing with <b>Zoom/Pan</b>	•	•	•	•	•		
	Weld Offsets	•	•	•	•	•		•
	Multiple Tools per Toolpath	•	•	•	•	•	•	
	Multiple Passes with Final Pass	•	•	•	•	•	•	
	Entry/Exit	•	•	•	•	•	•	•
	3D Entry/Exit	•	•	•	•	•	•	
	Daisy Chain Cutting	•	•	•	•	•		•
Common Line Cutting	•	•	•	•	OPT	OPT	•	

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TOOLPATH OPTIONS	Slant Toolpaths	•	•	•	•	•		
	Toolpath Distortion	•	•	•	•			
	3D Toolpaths	•	•	•				
	Drill Bank Support	•	•	•	•	•	•	•
	Aggregate Head Support (1 Direction)	•	•	•	•	•		
	Horizontal Drilling Support	•	•	•	•	•		
	Digital Registration Support (Camera Systems)	•	•	•	•	•	•	•
	Knife Cutting	•	•	•	•	•	•	•
	Support for Dual Heads	•	•	•	•	•		
NESTING (OPTIONAL FOR BASIC & ENTRY)	Dynamic Nesting	•	•	•	•	•	•	•
	True Shape Nesting	•	•	•	•	OPT	OPT	OPT
	Block Nesting	•	•	•	•	OPT	OPT	OPT
	Copy Nesting	•	•	•	•	OPT	OPT	OPT
	Nest Around Obstructions	•	•	•	•	OPT	OPT	OPT
	Remnant Creation	•	•	•	•	OPT	OPT	OPT
	Nest to Remnant	•	•	•	•	OPT	OPT	OPT
	Nesting Report	•	•	•	•	OPT	OPT	OPT
	Block Nesting with Common Line for Rectangles	•	•	•	•	OPT	OPT	OPT
	Nesting Priorities	•	•	•	•	OPT	OPT	OPT
	Nest to Multiple Sheets	•	•	•	•	OPT	OPT	OPT
	Nest Using Holes	•	•	•	•	OPT	OPT	OPT
	Define Step Angle (1-180 Deg)	•	•	•	•	OPT	OPT	OPT
SFR	Support for Rotary Material	•	•	•	•	•		•
	Unwrap a 3D Mesh Model and Then Cut on a Rotary	•	•	•				•

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OUTPUT	Paneling for Large Jobs or Breaking Up into Smaller Files	•	•	•	•	•		•
	2D Simulation	•	•	•	•	•	•	•
	Ortho View	•	•	•	•	•		•
	New and Improved 3D Simulation with Realistic Tool Movement and Realistic Plate Materials	•	•	•	•	•		•
	Smart Ordering	•	•	•	•	•	•	•
	Manual Ordering	•	•	•	•	•	•	•
	Tool Compensation	•		•	•	•	•	
	Gcode Output	•		•	•	•	•	•
	HPGL Output	•		•	•	•	•	•
	2D Output	•		•	•	•	•	•
	3D Output	•		•				
	Feed Rate Calculator	•	•	•	•	•	•	•
	Cutting Estimation	•	•	•	•	•	•	•
FABRICATION	Engraving/Scribing	•	•	•	•	•	•	•
	Kerf Compensation	•	•	•	OPT	OPT		•
	Looped Corners	•	OPT	OPT	OPT			•
	Daisy Chain Cutting	•	•	•	•			•
	Common Line Cutting	•	•	•	•	OPT	OPT	•
AUTOMATIC TOOLPATHING	Automatic Toolpath Processing	•		•	OPT	OPT	OPT	OPT
	ATP Lite for Active Layer Shapes on Screen	•			•			
	Flip Axis of Output File with ATP - Design with Long X, Output with Long Y for Betting View of Design	•		•	•			
	Adjustable Cut Depth	•		•	OPT	OPT	OPT	•
	Ordering & Nesting	•		•	OPT	OPT	OPT	•
	Layer Printout for Easy Part Location	•		•	OPT	OPT	OPT	OPT
	Labelling for ATP - Label Maker\Designer\Printer Now Part of the ATP Toolbar Button	•		OPT	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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