



EnRoute23 Feature List

		EnRoute 2023					
		COMPLETE	DESIGNER PRO	PRO	PLUS	BASIC	ENTRY
CONFIGURATION		CONFIGURATION					
Fast Redraw of Contours, Toolpaths and Text		v	v	v	v	v	v
ON DEMAND RIGHT CLICK TRAINING MOVIES		v	v	v	v	v	v
Keyless Security for better license protection		v	v	v	v	v	v
4 View Screen (Top, Front, Side, 3D Perspective)		v	v	v	v	v	v
Gcode Import		v	v	v	v	v	v
File Preview		v	v	v	v	v	v
Snapshot		v	v	v	v	v	v
Zoom In/Out & Panning, Zoom to Selection, Zoom to Extents, Zoom to Plate		v	v	v	v	v	v
View Filter		v	v	v	v	v	v
Vector Import/Export - DXF, DWG, AI, EPS, PDF, Gcode - All Current		v	v	v	v	v	v
Bitmap import/export		v	v	v	v	v	-
SVG / PNG Import filters *NEW		v	v	v	v	v	-
3D import/export		v	v	v	-	-	-
Auto Save to Backup File		v	v	v	v	v	v
Switch Languages on the fly from the Help Menu		v	v	v	v	v	v
Tool Library		v	v	v	v	v	v
Tool Changer Printout *NEW		v	v	v	v	v	v
Setup Manager *NEW		v	v	v	v	v	v
MATERIAL		MATERIAL					
Material Library		v	v	v	v	v	v
Plate Templates		v	v	v	v	v	v
Clip to Plate		v	v	v	v	v	v
Different Plates on Different Layers		v	v	v	v	-	-
OBJECT EDITING TOOLS		OBJECT EDITING TOOLS					
Precision Input Center		v	v	v	v	v	v
Layers		v	v	v	v	v	v
Layer Management (Create, Order, Delete, Move Objects between Layers,...)		v	v	v	v	v	-
Snaps (Point, Contour, Intersecting Contours, Perpendicular, Tangent, Tanget between Two Circles, Intersection Snaps, *NEW: Snap To Plate)		v	v	v	v	v	-
Guidelines		v	v	v	v	v	-
Double Grid		v	v	v	v	v	v
Rulers		v	v	v	v	v	v
Dimensions		v	v	v	v	v	-
Measure (Length, Angle, Area, *NEW Unit Converter)		v	v	v	v	v	v
Move		v	v	v	v	v	v
Scale		v	v	v	v	v	v
Rotate		v	v	v	v	v	v
Mirror		v	v	v	v	v	-
Group & Ungroup		v	v	v	v	v	v
Align		v	v	v	v	v	-
Weld Tools (Join, Common, Subtract)		v	v	v	v	v	-
Jigsaw Tool with Zoom and Pan		v	v	v	v	v	-
Cut by Line with Zoom and Pan		v	v	v	v	v	-
Advanced Selection Tools (Inverse, Circles Only)		v	v	v	v	v	-
CONTOUR EDITING TOOLS		CONTOUR EDITING TOOLS					
Point Edit with Improved Arc Editing		v	v	v	v	v	-
Linearize Curves		v	v	v	v	v	-
Insert Corners		v	v	v	v	v	-
Smooth Approximation Tool		v	v	v	v	v	-
2D Geometry Distortion (Patch, Taper, Noise)		v	v	v	v	v	-
Extend Contours/Improved Trim Contours		v	v	v	v	v	-
Fillet		v	v	v	v	v	-
Join Contours		v	v	v	v	v	-
Offset Contours (Inline & Outline)		v	v	v	v	v	-
Multicopy (Array, Arc, Path)		v	v	v	v	v	-
Vectorization (Convert Bitmap to Cut Contours)		v	v	v	v	v	-
Color- & Centerline Vectorization *NEW		v	v	v	v	v	-
Cleanup (Point Reduction)		v	v	v	v	v	v
Explode Contours		v	v	v	v	v	v
Merge Contours		v	v	v	v	v	v
Convert Curves to Arcs		v	v	v	v	v	v
Reverse Open Contours		v	v	v	v	v	v
DRAWING TOOLS		DRAWING TOOLS					
Draw Line, Draw Polyline, Draw Bezier, Sketch Tool		v	v	v	v	v	-
Draw Polyline, Draw Bezier, Sketch Tool		v	v	v	v	v	-
Draw Curves		v	v	v	v	v	-
Draw Circle		v	v	v	v	v	-
Draw Rectangle/Square with corner options		v	v	v	v	v	-
Draw Oval		v	v	v	v	v	-
Draw Arc		v	v	v	v	v	-
Draw Polygon		v	v	v	v	v	-
TEXT		TEXT					
Windows TrueType Font Text Tool		v	v	v	v	v	-
Copy and Paste Text from Clipboard		v	v	v	v	v	-
Text on Contours		v	v	v	v	v	-
Support for One Line Fonts Single Stroke Fonts		v	v	v	v	v	-
Single Stroke Fonts for Marking		v	v	v	v	v	-



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	COMPLETE	DESIGNER PRO	PRO	PLUS	BASIC	ENTRY
Interlocking Component Creator Wizard (*Added: Alignment snaps for easy positioning)	v	v	v	v	-	-
Model Stacker - Mesh to 2D Contours by Slice	v	v	v	v	-	-
Flatbed Tool	v	v	v	v	v	-
Cloud Window	v	v	v	v	v	v
SHAPEWIZARDS	SHAPEWIZARDS					
Basket and Center Arch	v	v	v	v	v	-
Fold Up Box (shipping containers)	v	v	v	v	v	-
Boxster Standard Cabinet Wizard	v	v	v	v	v	-
Concentric/Eccentric Cone Wizard	v	v	v	v	v	-
Cut Off Corners	v	v	v	v	v	-
Flange	v	v	v	v	v	-
Gcode Contour Import	v	v	v	v	v	-
Gusset	v	v	v	v	v	-
Lift Lug(2 types)	v	v	v	v	v	-
Part Round	v	v	v	v	v	-
Quarter Round	v	v	v	v	v	-
Thread Milling Wizard	v	v	v	v	v	-
SCM_XL conversion Wizard	v	v	v	v	v	-
Custom Macros and Wizards	v	v	v	v	v	-
SOLUTIONS	SOLUTIONS					
Braille	v	v	v	v	v	-
Feed Rate Calculator	v	v	v	v	v	-
Block Creator	v	v	v	v	v	-
Backplot Gcode Output Simulator	v	v	v	v	v	v
Box Reader	v	v	v	v	v	-
Brightness	v	v	v	v	v	-
Flip Bitmap	v	v	v	v	v	-
ATP File Setup	v	v	v	v	v	-
Library Merger	v	v	v	v	v	-
TCPIP for Zund Machines	v	v	v	v	v	-
RAPID TEXTURES / RAPID PICTURE (Optional for Plus & Basic)	RAPID TEXTURES / RAPID PICTURE (Optional for Plus & Basic)					
Rapid Textures (made easier in EnRoute 6)	v	v	v	v	-	-
Rapid Pictures	v	v	v	v	-	-
Rapid 3D Relief Texture	v	v	v	-	-	-
Symmetric Textures (made easier in EnRoute 6)	v	v	v	v	-	-
Rapid Texture Fade	v	v	v	v	-	-
New Rapid Texture Templates	v	v	v	v	-	-
CREATIVE DESIGN FUNTIIONS	CREATIVE DESIGN FUNTIIONS					
3D Relief Creation (Round, Bevel, Flat)	v	v	v	-	-	-
Relief Edit (Smooth, Bevel, Dome, Flat, Blending, Invert, Fit to Plate, Apply Draft Angle)	v	v	v	-	-	-
3D Parametric Textures (*NEW: Peeled Pole Texture)	v	v	v	-	-	-
Symmetric 3D Parametric Textures	v	v	v	-	-	-
New Parametric Template Libraries	v	v	v	-	-	-
3D Design Tools (Revolve, Spin, Extrude, Sweep Two Rails, Chamfer, Primitive Objects)	v	v	v	-	-	-
Bitmap to Relief	v	v	v	-	-	-
Mesh to Relief	v	v	v	-	-	-
Merge/Combine Reliefs	v	v	v	-	-	-
Relief Slicing	v	v	v	-	-	-
Toolpath Mask created during Relief Slicing	v	v	v	-	-	-
Vertical Slicing of Reliefs	v	v	v	-	-	-
Relief Offset for Mold Making	v	v	v	-	-	-
Relief Alignment	v	v	v	-	-	-
3D Mesh Creation	v	v	v	-	-	-
3D Object Distortion	v	v	v	-	-	-
TOOLPATHS	TOOLPATHS					
Routing Offset	v	v	v	v	v	v
Open Contour Offset	v	v	v	v	v	v
Engraving/Scribing	v	v	v	v	v	v
3D Engrave	v	v	v	v	-	-
Hatch fill	v	v	v	v	v	v
Island Fill	v	v	v	v	v	v
Spiral Fill	v	v	v	v	v	v
Drilling and Tapping	v	v	v	v	v	v
Drill Centers, Corners, Array, Circle or along a Path	v	v	v	v	v	Opt.
Slots	v	v	v	v	v	-
Pyramid Tool (Prismatic Text)	v	v	v	v	-	-
Drag Knife	v	v	v	v	v	v
Kerf Compensation	v	v	v	v	-	-
TOOLPATH OPTIONS	TOOLPATH OPTIONS					
Toolpath Plans	v	v	v	v	v	v
Toolpath Strategies	v	v	v	v	v	v
Clean Pass for Routing Offset, Island Fill, Hatch Fill	v	v	v	v	v	v
3D Clean Pass for Routing Offset, Island Fill, Hatch Fill	v	v	v	v	-	-
Automatic Inlay with Shoulders	v	v	v	v	v	-
Channel tags for close fitting Joints	v	v	v	v	v	-
Sharp Corners for 3D External Engrave	v	v	v	v	-	-
Follow Contour	v	v	v	v	-	-
Bridges	v	v	v	v	v	-
Bridges & Start Point Editing with Zoom/Pan	v	v	v	v	v	-
Weld Offsets	v	v	v	v	v	-



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	EnRoute 2023					
	COMPLETE	DESIGNER PRO	PRO	PLUS	BASIC	ENTRY
Multiple Tools per Toolpath	v	v	v	v	v	v
Multiple Passes with Final Pass	v	v	v	v	v	v
Entry/Exit	v	v	v	v	v	v
3D Entry/Exit	v	v	v	v	v	v
Daisy Chain Cutting	v	v	v	v	v	-
Common Line Cutting	v	v	v	v	Opt.	Opt.
Slant Toolpaths	v	v	v	v	v	-
Toolpath Distortion	v	v	v	v	-	-
3D Toolpaths	v	v	v	-	-	-
Drill Bank Support	v	v	v	v	v	v
Aggregate Head Support (1 direction)	v	v	v	v	v	-
Horizontal Drilling Support	v	v	v	v	v	-
Digital Registration Support (Camera Systems)	v	v	v	v	v	v
Knife Cutting	v	v	v	v	v	v
Kerf Tools *NEW	v	v	v	v	v	v
Profile Tools *NEW	v	v	v	v	v	v
Corner Fine Toolpath *NEW	v	-	v	v	-	-
No-Lift Toolpathing *NEW	v	v	v	v	v	v
Support for Dual Heads	v	v	v	v	v	-
NESTING (Optional for Basic & Entry)	NESTING (Optional for Basic & Entry)					
Dynamic Nesting	v	v	v	v	v	v
True Shape Nesting	v	v	v	v		
Block Nesting	v	v	v	v		
Copy Nesting	v	v	v	v		
Nest around Obstructions	v	v	v	v		
Remnant Creation	v	v	v	v		
Nest to Remnant	v	v	v	v		
Nesting Report	v	v	v	v		
Block Nesting with Common Line for Rectangles	v	v	v	v		
Nesting Priorities	v	v	v	v		
Nest to Multiple Sheets	v	v	v	v		
Nest using Holes	v	v	v	v		
Define Step Angle (1-180 deg)	v	v	v	v		
Define Target Areas	v	v	v	v		
SUPPORT FOR ROTARY	SUPPORT FOR ROTARY					
Support for Rotary Material	v	v	v	v	v	
Unwrap a 3D Mesh Model and then cut on a rotary.	v	v	v	v		
OUTPUT	OUTPUT					
Paneling for Large Jobs or Breaking up in to smaller files.	v	v	v	v	v	-
2D Simulation	v	v	v	v	v	v
Ortho View	v	v	v	v	v	-
New and Improved 3D Simulation with Realistic Tool Movement and Realistic Plate Materials	v	v	v	v	v	-
Profile Tool Simulations *NEW	v	v	v	v	v	-
Smart ordering	v	v	v	v	v	v
Manual ordering	v	v	v	v	v	v
Tool Compensation	v	-	v	v	v	v
Gcode Output	v	-	v	v	v	v
HPGL Output	v	-	v	v	v	v
2D Output	v	-	v	v	v	v
3D Output	v	-	v	-	-	-
Feed Rate Calculator	v	v	v	v	v	v
Cutting Estimation	v	v	v	v	v	v
FABRICATION for Plasma, Waterjet & Laser (Optional for Pro,	FABRICATION for Plasma, Waterjet & Laser (Optional for Pro, Plus & Basic)					
Engraving/Scribing	v	v	v	v	v	v
Kerf Compensation	v	v	v	v	-	-
Looped Corners	v	v	v	v	-	-
Daisy Chain Cutting	v	v	v	v	-	-
Common Line Cutting	v	v	v	v	-	-
AUTOMATIC TOOLPATHING (Optional for Pro, Plus, Basic,	AUTOMATIC TOOLPATHING (Optional for Pro, Plus, Basic, Entry)					
Automatic Toolpath Processing	v		v	Opt.	Opt.	Opt.
ATP Part Prioritization (Sequential Outputting) *NEW	v		v	Opt.	Opt.	Opt.
ATP Lite for active layerd shapes on screen	v		-	v	-	-
Flip Axis of Output file with ATP - Design with Long X, Outpu with Long Y for betting view of design.	v		v	v	-	-
Adjustable Cut Depth	v		v	Opt.	Opt.	Opt.
Ordering & Nesting	v		v	Opt.	Opt.	Opt.
Layer Printout for easy part location	v		v	Opt.	Opt.	Opt.
Labelling for ATP - Label Maker\Designer\Printer now part of the ATP Toolbar Button.	v		v	Opt.	Opt.	Opt.
Cut List Generator for DXF Files	v		v	Opt.	Opt.	Opt.
ATP Time Estimates *NEW	v		v	Opt.	Opt.	Opt.
KCD, AMS, Cabinet Solutions, 3D Kitchen, Cabinet Vision, FlexiCabs, 20/20, Pattern Systems, RouterCad, Boxster,...	v		v	Opt.	Opt.	Opt.
ATP functionality unlocked without Active App (eg. Printout, labels,...	v		v	Opt.	Opt.	Opt.