



Cut2D, VCarve Pro & Aspire Comparison Chart

Please use the following summary information to determine which of the Vectric software products is best suited for your CNC requirements. For more detailed information on each product and to download the fully functional Trial versions visit the Vectric web site.

Information in this document may be subject to change without notice.

Summary of the functionality in Cut2D, VCarve Pro & Aspire

Functionality Summary	Cut2D	VCarve Pro	Aspire
3D Modeling Tools			
Build 3D relief from vectors – Add, Merge, Subtract			*
Import 3D Models / Mesh files and Components			*
Interactive Sculpting & Blending + Pressure sensitive control			*
Extrude – 2 Rail Sweep			*
Convert 2D image to 3D model			*
Interactive 3D component Tilt and Fade			*
3D Model Smoothing with interactive control			*
Independent 3D component colour / material properties			*
Export 3D model as STL mesh			*
Automatic 3D Model Slicing			*
Save 3D model as 2D image file – bmp, jpg, gif			*
Design and Drawing Tools			
True Shape Nesting with multiple sheets		*	*
Import Filters – DXF, EPS, AI, PDF Vector files	*	*	*
Import AutoCAD 2D DWG files		*	*
Export – DXF, EPS, AI	*	*	*
Layer Management – visibility, locked, colour		*	*
Rulers & Guide Lines, Snap Grid + Snap Options		*	*
Interactive Snapping options		*	*
Offset vectors – open / closed + sharp or rounded corners		*	*
Image Tracing / Vectorization – JPG, BMP, TIF, GIF		*	*
Draw standard shapes – Circles and Rectangles	*	*	*
Draw Stars, Polygons		*	*
Draw Polylines – typed input		*	*
Text with TTF fonts to specified height	*	*	*
Single Line Engraving Fonts		*	*
Interactive letter / line kerning		*	*
Arc Text interactively		*	*
Fit Text to Curve		*	*
Auto-Fit Text to selection		*	*
Convert text to curves	*	*	*
Scissor Tool for interactive vector trimming		*	*
Weld, Merge, Subtract vectors		*	*
Scale, Mirror, Rotate & Array block copy and paste		*	*
Copy shapes along vectors		*	*
Fillet corners + T-Bone and Dog-Bone Fillets		*	*
Curve Smoothing / Node Reduction / Arc Fitting		*	*

Functionality	Cut2D	VCarve Pro	Aspire
Node Editing – Interactive move, smooth, delete	*	*	*
Auto + Manual Join open shapes	*	*	*
Auto select Duplicate / Open vectors	*	*	*
Measuring Tools – distance, angle	*	*	*
Align vectors to model or other shapes		*	*
Import Cut3D, PhotoVCarve & VA3D Machinists files	*	*	*
Toolpath Functionality			
3D Rough machining Multiple Z Level and 3D Raster			*
3D Finish machining Complete model or selective regions			*
Raster or Offset strategy			*
Automatic 3D Toolpath Boundary Allowance			*
3D VCarving with single and multiple cutters		*	*
Flat Bottom VCarving		*	*
Project onto 3D model			*
Engraving with 3D corner detail moves		*	*
Project onto 3D model			*
Automatic cutter diameter / Shape compensation	*	*	*
Raised Prism Machining Toolpaths		*	*
Profile Machining Outside, Inside On	*	*	*
Profile Left / Right Open vectors		*	*
Tabs for holding job in place	*	*	*
3D Tabs for smoother cutting		*	*
Lead in / out		*	*
Advanced Ramping options		*	*
Sharp Internal / External Corners		*	*
Auto-Inlay Toolpaths with multiple option types		*	*
Project Profile Toolpath onto 3D model			*
Pocket Machining with simple Ramp entry	*	*	*
2 Tool Pocket Machining with advanced Ramping options		*	*
Fluting Toolpaths with Ramp options		*	*
Project Pocket Toolpath onto 3D model			*
Drilling with Peck cycle option	*	*	*
Project Drilling depth onto 3D model			*
Production Plate / Merge Text Layout		*	*
3D Texturing Toolpath		*	*
Project texture toolpath			*
Quick Engrave Diamond Drag Marking		*	*
Outline and Fill patterns		*	*

Functionality	Cut2D	VCarve Pro	Aspire
Multi-color 3D Toolpath Preview		*	*
Rapid Plunge Gap Height option		*	*
Toolpath 3D Preview with Material & Fill color	*	*	*
2D Wireframe Toolpath Preview with cutter direction	*	*	*
2D Solid Colour Toolpath Preview		*	*
Tool Database – User definable	*	*	*
Form Cutters – User definable cutter shapes		*	*
Estimate Machining Times		*	*
Auto-Recalculate All Toolpaths		*	*
Wrapped Rotary Axis Postprocessor Support		*	*
Standard Postprocessors for most CNC Machines	*	*	*
Tape Splitting for large files		*	*
ATC - Auto Tool Change Support		*	*
Configurable postprocessor	*	*	*

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