

FOR MORE INFORMATION CONTACT US!



58 East South Street,
Rossville, IN 46065
800-251-9935
info@aidex.com
www.aidex.com



Cut2D, VCarve & 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 Desktop, Cut2D Pro, VCarve Desktop, VCarve Pro & Aspire

Functionality Summary	Cut2D	Cut2D	VCarve	VCarve	Aspire
	Desktop	Pro	Desktop	Pro	
Design and Drawing Tools					
Import Filters – DXF, EPS, AI, PDF, SKP, DWG Vector files	*	*	*	*	*
Export – DXF, EPS, AI, SVG	*	*	*	*	*
Layer Management – Visibility, Lock & Color	*	*	*	*	*
Draw Shapes – Circles, Rectangles, Stars & Polygons	*	*	*	*	*
Draw Lines, Arcs, Curves	*	*	*	*	*
Create Vector Texture Patterns	*	*	*	*	*
Text with TTF & OTF fonts to specified height	*	*	*	*	*
Single Line Engraving Fonts	*	*	*	*	*
Auto-Fit Text to selection	*	*	*	*	*
Interactive letter / line kerning and arc text tool	*	*	*	*	*
Fit Text to Curve	*	*	*	*	*
Image Tracing / Vectorization – JPG, BMP, TIF, GIF	*	*	*	*	*
Rulers & Guide Lines, Snap Grid + Snap Options	*	*	*	*	*
Interactive Snapping options	*	*	*	*	*
Transform Vectors: Move, Scale, Rotate, Mirror, Distort	*	*	*	*	*
Align vectors to model or other shapes	*	*	*	*	*
Node Editing – Interactive move, smooth, delete	*	*	*	*	*
Measuring Tools – distance, angle	*	*	*	*	*
Weld, Merge, Subtract vectors	*	*	*	*	*
Trim Vectors to a Boundary	*	*	*	*	*
Scissor Tool for interactive vector trimming	*	*	*	*	*
Fillet corners: T-Bone, Dog-Bone & Plasma Drag Knife Fillets	*	*	*	*	*
Extend Vectors to a Common Point of Intersection	*	*	*	*	*
Curve Smoothing / Node Reduction / Arc Fitting	*	*	*	*	*
Auto + Manual Join open shapes	*	*	*	*	*
Offset vectors: Open/Closed & Sharp/Rounded Corners	*	*	*	*	*
Create Circular and Linear Array of Copies	*	*	*	*	*
Copy shapes along vectors	*	*	*	*	*
Plate Production		*		*	*
True Shape Nesting with multiple sheets		*		*	*
Auto select Duplicate / Open vectors	*	*	*	*	*
Import Cut3D, PhotoVCarve & VA3D Machinists toolpaths	*	*	*	*	*

Continued on next page...

Functionality Summary	Cut2D	Cut2D	VCarve	VCarve	Aspire
	Desktop	Pro	Desktop	Pro	
3D Modeling and Assembly Tools					
Build 3D relief from vectors – Add, Merge, Subtract					*
Two Rail Sweep					*
Extrude & Weave					*
Interactive Sculpting & Blending + Pressure sensitive control					*
Convert 2D image to 3D model					*
Import Multiple Vectric Clip Art Models (V3M file format)			*	*	*
Import Multiple 3 rd Party 3D Models (STL, OBJ, SKP etc.)					*
Import Single 3 rd Party 3D Model Only (STL, OBJ, SKP etc.)			*	*	*
Advanced Shape Editing (Cropping, Splitting to Vectors, Distort)					*
Basic Component Editing (Scale Height, Size, Rotate, Mirror)			*	*	*
Emboss Component (Reduce Height & Retain Surface Detail)					*
3D Model Smoothing with Interactive Control			*	*	*
Add Draft (Add Specified Angle to Vertical Walls in Model)					*
Offset Model (Create 3D offset of Composite Model)					*
Automatic 3D Model Z-Slicing			*	*	*
Export 3D model as STL mesh					*
Interactive 3D component Tilt and Fade			*	*	*
Independent 3D Component Color / Material Properties			*	*	*
Save 3D Model as 2D Grayscale Image File – bmp, jpg, gif					*
Export 3D Model as .3DClip File					*
Toolpath Functionality					
Profile Machining	*	*	*	*	*
Outside, Inside or On the line	*	*	*	*	*
Profile Left / Right Open vectors	*	*	*	*	*
Advanced Pass Depth Setting					
Separate Last Pass	*	*	*	*	*
Tabs for Holding Job in Place	*	*	*	*	*
3D Tabs for Smoother Cutting	*	*	*	*	*
Lead In/Out	*	*	*	*	*
Advanced Ramping options	*	*	*	*	*
Order of Cutting	*	*	*	*	*
Corners – Option for Sharp External & Internal corners	*	*	*	*	*
Pocket Machining	*	*	*	*	*
Two Tool Pocket Machining - Larger Area Clearance Tool	*	*	*	*	*
Offset or Raster Strategy	*	*	*	*	*
Ramp Plunge Moves	*	*	*	*	*

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Functionality Summary	Cut2D	Cut2D	VCarve	VCarve	Aspire
	Desktop	Pro	Desktop	Pro	
Drilling Toolpath	*	*	*	*	*
Peck cycle option	*	*	*	*	*
Quick Engrave Toolpath	*	*	*	*	*
Inlay Toolpath	*	*	*	*	*
Auto-Inlay Toolpaths with multiple option types	*	*	*	*	*
V-Carve/Engraving Toolpath			*	*	*
3D VCarving with single and multiple cutters			*	*	*
Flat Bottom VCarving			*	*	*
Fluting Toolpath			*	*	*
Ramp Options			*	*	*
Randomized Texture Toolpath			*	*	*
Use Vectors as Pattern			*	*	*
Prism Carving Toolpath			*	*	*
Project Toolpath onto 3D Model			*	*	*
3D Roughing Toolpath			*	*	*
Multiple Z Level and 3D Raster			*	*	*
3D Finishing Toolpath			*	*	*
Raster or Offset strategy			*	*	*
Production Plate / Merge Text Layout				*	*
Create Merged Toolpaths				*	*
Rapid Plunge Gap Height option	*	*	*	*	*
Tool Database – User definable	*	*	*	*	*
Form Cutters – User definable cutter shapes	*	*	*	*	*
Auto-Recalculate All Toolpaths	*	*	*	*	*
Vector Selector – Associate with Toolpath	*	*	*	*	*
Multi-color 3D Toolpath Preview	*	*	*	*	*
Toolpath 3D Preview with Material & Fill color	*	*	*	*	*
2D Wireframe Toolpath Preview with cutter direction	*	*	*	*	*
2D Solid Color Toolpath Preview	*	*	*	*	*
Estimate Machining Times	*	*	*	*	*
Wrapped Rotary Axis Postprocessor Support				*	*
Standard Postprocessors for most CNC Machines	*	*	*	*	*
Tape Splitting for large files	*	*	*	*	*
ATC - Auto Tool Change Support	*	*	*	*	*
Configurable postprocessor	*	*	*	*	*
Job Setup Sheets		*		*	*
Other Functionality					
64-Bit Support	*	*	*	*	*
Gadget- Scripting Support		*		*	*
Printing of 2D and 3D Views	*	*	*	*	*

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