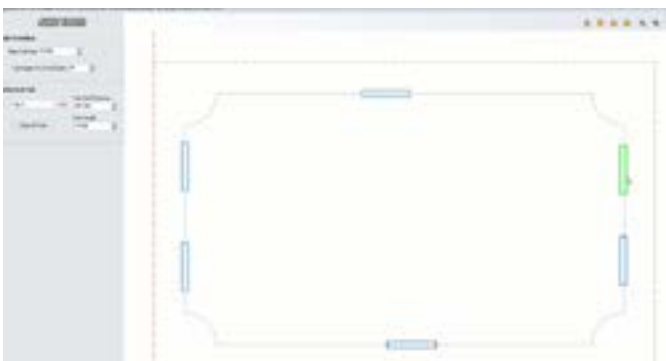


DENFORD

QuickCAM 2D Design

2D DESIGN & MANUFACTURE SOFTWARE

**NOW INCLUDING
ADVANCED V-CARVE
EXTENSION**



QuickCAM 2D Design is an advanced, yet simple to use, wizard based 2D CAD/CAM package. You can create designs quickly and accurately, then run the CAM wizard to create CNC machine toolpaths. It features various import options to allow images, PCB's and designs from other CAD packages to be manufactured. The customisable post processor and advanced printing facilities provide outputs to most desktop CNC and laser machines.

QuickCAM 2D Design

CAD DRAWING FEATURES

Shape Creation:

Line, Polyline, Rectangle, Curve/Spline, Circle, Arc, Point, Polygon, Ellipse, Text, Multiple Line Text with Justification, Hatch, Offset Path, Image Outline (Contrast Edge Detection).

Drawing Help:

Customisable Grid Size, Grid Snap, Object Nudge, Polar Snap, Absolute and Relative Co-ordinate Entry, Shape Property Editors, Fast Drawing Navigation.

Snap Modes: End, Middle, Nearest, Intersection, Tangent.

Shape Modification:

Unlimited Undo and Redo, Move, Scale, Rotate, Mirror, Copy, Paste, Join, Explode, Group and Ungroup multiple shapes, Apply colour to any shape, Modify shape using grips or by property editor, Boolean shape operations: Union, Intersect, Split, Subtract, Rectangular Repeat, Circular Repeat.

Automatic Island Recognition:

Selects whether shapes within shapes are machined on the inside or the outside.

Each island's level (ie, inside or outside) can be altered manually.

IMPORT/EXPORT FEATURES

Import

- Raster Image - JPG,BMP,ICO,EMF,WMF.
- Clipboard Vector paste (eg from CorelDraw)
- Gerber (RS274X) - PCB designs are imported and converted into polylines.
- Autocad drawings (DWG,DXF) - drawings can be imported (Autocad versions 2.5 through to 2000).
- Vector Image Clipart - WMF, EMF.
- Font - any Truetype Font (TTF) can be imported then used by the software.

Export

- Autocad DXF versions 10 through to 2000.
- Custom file format for loading and saving design, machining plans and images.

CAM WIZARD FEATURES

Material selector - customisable materials define cutting feeds, speeds and cutting depth.

Machining plans - easily create and rearrange any number of machining plans from the following types:

- Follow - follow the shapes path ideal for Engraving and Laser Cutting.
- Inside Offset - offset cutter path inside shape(s) with automatic island recognition.
- Outside Offset - offset cutter path outside shape(s).
- Area Clearance - multiple offset cutter paths inside the shape(s).
- Raster Clearance - create a raster path at any angle to clear the inside of shape(s).
- Drill - select point, circle or arc centres for drilling operations.

Post Process - final tool path can be simulated quickly in 2D then posted (G code) to a variety of machines via the customisable post processor.

V-CARVE EXTENSION

The advanced V-Carve extension is now included as standard with QuickCAM 2D Design and enables 3 additional CAM features:-

- **V-Carve** – allows shapes and text to be machined at the correct width by automatically controlling the depth of cut of the V cutter.
- **V-Carve Clearance** – allows larger shapes (wider than the V cutter) to be machined by adding an area clearance path within the shape.
- **Add Tabs** – allows parts to be retained while cutting through a billet. The size, number and depth of the Tabs can be user-defined.

SYSTEM REQUIREMENTS

See page 43.