

## CAD Smart Tools for Complex Drawings

### CAD CLEAN - AUTO

Cleans "messy files" and removes duplicate and zero length entities – instantly!

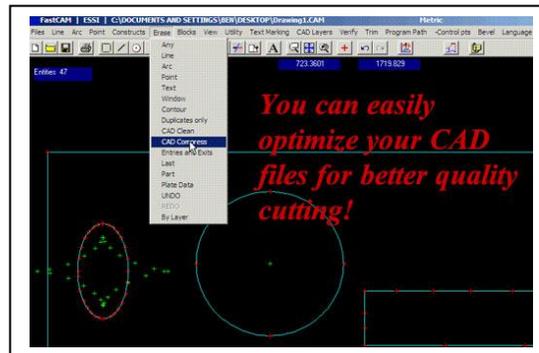
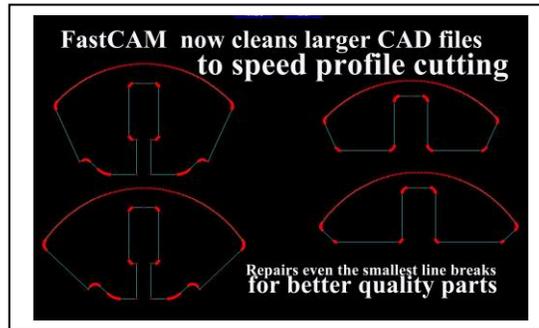
### CAD COMPRESS - AUTO

Dramatically improves cutting time and quality by reducing the number of entities. For example, uses 1 line instead of 10 to cover the same distance.

### CAD FIX - AUTO

Finds and fixes small breaks in contours, either across the entire drawing or 1 break at a time.

All these CAD smart features are part of the FastCAM® System.



Ideal for Laser and small Plasma Cutters on thin material who want their CAD/DXF files quickly and expertly cleaned and repaired for quality NC cutting.

Many of the new small flame cutting machines are being used primarily for complex part cutting because they're perfectly suited to this type of work.

However, the level of complexity of associated drawings is problematic because of the difficulty in making the output NC ready.

Files containing decorative art, fonts, graphics, scanned images, free form drawings and complex components with many penetrations and curved complex contours can be especially time consuming.

Automate & improve checking/repairing detailed CAD files for 2D cutting:

- **Parts & Holes** -- checks for contours in the current file. Identifies "parts" with holes. Reports if there are breaks in the contours which can then be fixed automatically using CAD FIX.
- **CAD Explode** -- splits a single file drawn with many parts into individual files.
- **Faired Spiral** -- a tool to speed and automate drawing a spiral 'shape' out of a series of arcs.

These CAD files with drawn or scanned images can be enormously complicated. Anything over 3,000 entities is a huge amount of effort to check and fix in a drawing. Some DXF files look fine visually but can be riddled with errors, gaps and overlaps, causing hours of work to repair.

However, it's critical work because so many things can go wrong at an intersection. It only takes one error to completely ruin the job.

All these FastCAM® CAD Tools work together to check, fix and validate that the file is ready to use before the job hits the cutting machine.

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