



# FastCAM® SYSTEM

## DRAW, PATH, NEST & CUT WITH EASE



### Best Fit for Metal Fabricators

#### NC PROGRAMMING MADE FAST & EASY

##### HIGHLIGHTS:

- PURPOSE BUILT FOR METAL PROCESSING & PROFILING
- INTEGRATED 2D DRAWING SYSTEM AND POST PROCESSOR WITH FULL CAD COMPATIBILITY
- FAST & EASY LEARNING CURVE
- BEST VALUE—AVAILABLE IN 3 EDITIONS TO MEET YOUR BUSINESS NEEDS
- OPTIMIZED NC CODE WITH 40+ CONTROLLER OMBINATIONS
- MULTI-LANGUAGE SUPPORT
- MICROSOFT WINDOWS

The FastCAM® System has been designed to draw, nest and cut metal as simply and efficiently as possible. Ease of use is as important as the high levels of materials utilization and optimization the software provides.

Draw, Path, Nest and cut from the one system. Or use with your existing design system for independent post processing and nesting.

Easy Editing & Verification of geometry combined with one step nesting makes the system instantly productive.

FastCAM's long experience in heavy plate fabrication makes the system ideal for even the largest construction jobs.

FastCAM® is used successfully in Service Centers, Shipbuilding, Mining, Steel Fabrication, Metal Fabrication & Sign Cutting.

First sold in 1976, FastCAM® now delivers vast

improvements in computational and processing capabilities but maintains its core strengths:

- Easy to Learn
- Simple to Use
- High Performance
- Mature Technology
- Low Cost

##### Features:

- Input DXF , IGES, DSTV, StruCAD and DWG files**
- Output (Fast)CAM, DXF , IGES & NC Code**
- Reverse engineer existing CNC files back to geometry-CAM/DXF**
- Secondary process support—Drilling, Marking, etc**
- CAD import cleans & compresses code ready for quality cutting**
- DXF layer support for different processes**
- Multi-torch & high-def plasma support**

#### SUPPORT FOR POPULAR CUTTING EQUIPMENT

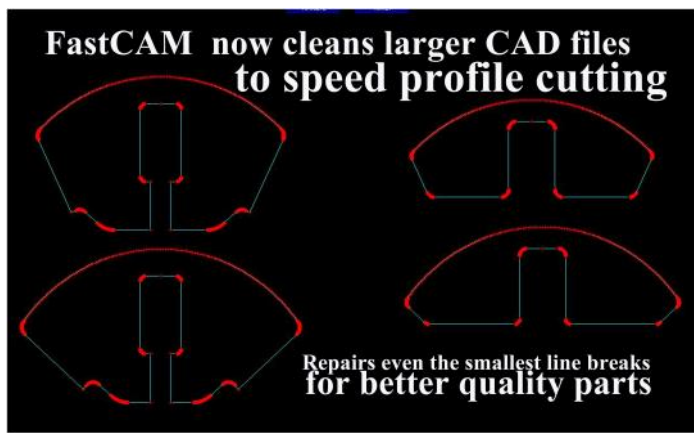
FastCAM® supports all combinations of machine and controller as well as ESSI, EIA and ISO NC languages in both inch and metric.

NC output can be Absolute or Incremental.

FastCAM® simulates machine operation with CNC on screen

file verification displaying process by color and line type. Supports all type of machine processes including detection from external CAD files by layer.

Marking by Powder, Plasma, Pen & Mechanical Scribe for both line & text where supported by the Controller.



Even specialized applications like this Automated Tube-cutting machine can be driven. FastCAM offers support for single or Multi-torch, oxy and plasma cutting, Hi-Def Plasma, Laser, Water-Jet plus Oxy and Plasma Beveling.



### SAVE HOURS WITH OUR SMART CAD TOOLS!

*\*FastCAM® can nest, read or convert CAM, DXF IGES, DSTV and DWG files.*

*FastCAM® reads ESSI, Word Address & (ELA) machine formats.*

## COMPUTERIZED CUTTING NEEDS PRECISE, CLEAN GEOMETRY

FastCAM® is a system built specifically for the high speed production of line drawings. CNC needs every line, arc or entity in precise and clean geometry. Importantly the lines also need to be connected.

By comparison, CAD was designed to put lines on paper. However today's

fabricators are increasingly supplied job data in a variety of file formats. To solve this problem, FastCAM® can not only load a range of file types\*, it includes a suite of CAD Smart Tools for conversion to NC- ready code.

If the geometry you have been supplied in your CAD file contains gaps or overlapping

lines or has poorly constructed shapes, FastCAM® can clean up these deficiencies and find potential 'stoppage' issues before they reach the cutting floor.

Even very small CAD lines can be automatically blended with true arcs. File sizes can drop 80-90% producing a higher quality cut.

## DRAW, VERIFY & COST JOBS BEFORE CUTTING

### Draw, Path, Cut :

- Simple 2D Drawing DXF/IGES compatible
- Realtime Pan & Zoom
- Automatically trims lines and arcs with a single click
- 20 step undo/redo with Auto Repeat Drawing
- Negative/Positive Bridging (joins adjacent parts with 'bridge' to minimize pierce)

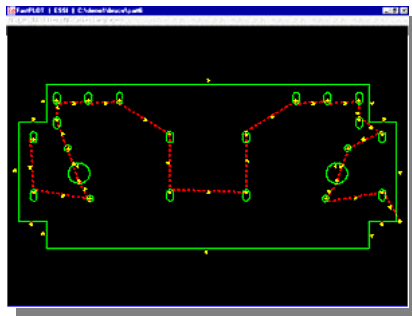
- Customizable Printing Template

**Visual, Graphic NC Verification for CAM, DXF and NC code.** FastPLOT™ is included in the system to enable users to read and write NC code with full graphic simulation.

It provides cutting time and distances as well as net and gross material utilization

making it ideal to cost individual parts or complete nests. FastPLOT™ can also read and convert existing NC code for reverse engineering into CAD DXF files or CAM files.

- Point & Click search feature instantly locates specific code for each entity in part program.
- Costing data includes Time and Distance for all processes Cutting, Marking etc.



NC Code Editor shows individual processes by color and line type

## ELIMINATE 50% OF PROGRAMMING TIME WITH AUTOMATIC PATHING

\*A COST-PLUS OPTION, FastCAM® Kerf™

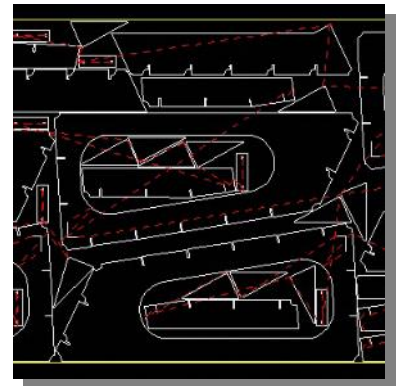
FastPATH™ has the ability to completely analyze a nest and determine which contours are parts and which are holes, no matter how deeply nested.

Entries and exits are added and the software then sequenced. Path single or nested parts, including Direction, Kerf, Entries/Exits, Sequencing, Batch Pro-

cessing, Hole Avoidance & Tabs.

A substantial time and consumable saver, especially on complex nests & large numbers of cutouts.

**Kerf compensation can also be calculated automatically on your PC\*** so the controller doesn't have to do it.



All of these complex pathing tasks reduced to a single click!

*FastPATH™ is included in the FastCAM® Professional Edition*

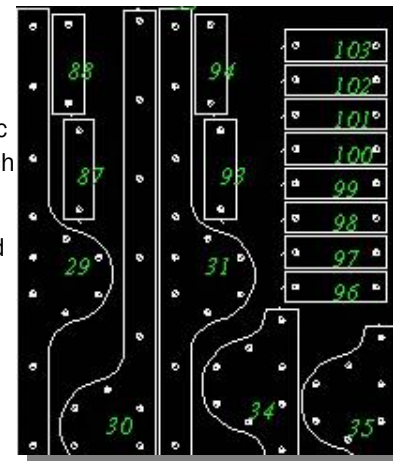


## FAST & EASY FULLY AUTOMATIC NESTING WITH MANUAL OVERRIDE

FastCAM® Standard & Professional Editions include the FastNEST® nesting module to optimize both the material usage and the sequence of cutting. Parts can be nested automatically or manually placed for maximum productivity.

Nest a variety of file formats with support for all secondary processes like marking. Multiple primary process are also supported including mixed Oxy-fuel, Plasma, even bevel cutting.

- Fast 'One click' nesting
- TRUE SHAPE
- Simple & Complex Nests
- Auto Nesting 'Pause'
- Single and auto pair arrays for same parts
- Bulk part input
- Multi Torch
- Multi plate nesting
- Auto Placement of parts to preset distance.
- Auto plate trim
- 'Jostle' to pack nests
- Post nest optimization inc Bridging, Tabbng & Stitch Cutting
- Hole avoidance and rapid travel minimization
- Dynamic part rotation
- Move pierce points with simple 'point & click'.
- Nests all NC languages, plus CAM, DXF & IGES



**Nest like an expert in minutes!**

## CHOOSE FROM 3 EDITIONS TO SUIT YOUR BUSINESS NEEDS

### FastCAM® NC

Drawing, No Nesting, Create parts and output the NC code.

Includes FastCAM® Drawing Editor and FastPLOT™, DXF input with CAD smart tools.

Ideal for single & repeat part cutting. Draw & Path manually. Simplest system. Lowest Cost.

### FastCAM® Standard

Drawing with True Shape Semi Automatic Nesting. Single Plate. Feature-rich but manual.

Includes FastCAM® Drawing Editor, FastPLOT™ & FastNEST® Manual (Interactive) and CAD smart tools.

Suited to non-critical or non-demanding production levels. Eg. Repetition cutters, low duty cycle.

### FastCAM® Professional

Full Shape, Full Auto Nesting, Multi Plate, Multi input, Multi output. Automatic 'everything'. Ability to move pierce function before and after nesting.

Includes FastCAM® Drawing Editor, FastPLOT™, FastPATH™, FastNEST® Fully Automatic, (bulk) CAD smart tools.

Complete NC programming system. Tackle any job with precision & speed.

*Note: Refer to the FastCAM System Comparison Chart for a more a detailed list.*

## OFFERING SOLID SERVICE, MAINTENANCE & SUPPORT

All FastCAM® Systems Include 30 days FREE technical support\* to ensure that you are up and running quickly.

Free self-help is available via our web site and pay per incident support is available as and when required.

Annual Service Maintenance Agreements are also available.

SMA's give you Priority Support and Product Updates.

FastCAM® comes with Excellent Electronic Tutorials and Self-help tools however affordable **Interactive Web Training** is available. **On-site**

Group Training is also available if required.

Courses can be tailored to meet your needs. No previous PC skills are required.

See our web site for current pricing.

*Specify your individual machine controller at time of order. See over.*



*"After 10 days with FastCAM® I built my first tank truck. Now it's our livelihood"*

Ray Castlebury  
Castlebrook Welding & Fabricating

\* Technical support by phone, fax, email. Excludes on-site, installation and O/S support.

*FastCAM has been supplying PC-based software for Burning, Shearing and Sawing/Drilling machines for over 25 years. The flagship product FastCAM® offers unique integrated postprocessors, NC verification and NC code nesting that still sets it apart from other CAM and CAD/CAM systems. The new generation of FastCAM® software is used in many countries, in many languages and in many different environments.*

*Today the product line has been expanded to include dozens of trademarked products offering a wide range of solutions for glass, timber and metal fabrication. FastCAM has OEM and Business Partners in North America, South America, China, Australia, New Zealand and Europe (Poland, UK, Czech, Hungary). We welcome all enquiries.*

## FASTCAM WORLDWIDE OFFICES

|  |  |  |                              |
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**www.fastcam.com**

FastCAM® works with all popular flame, plasma, laser and water jet NC cutting equipment including BURNY, EDGE, LYNX, FastCNC, HYPERTHERM, FAGOR ANCA, NUM, PDF32, SIEMENS, SYSTEM32, 40, numerical control system, and CIGWELD ESAB, MESSER, KOIKE, TANAKA, FARLEY, 3000 etc . Refer to our web site for a full listing.

## Other Products by FastCAM:

The following are separate programs that can be purchased independently:

**FastCAM® 3D**— for Bevel/Precise Weld Preparation.

**FastCUT® for Shears & Saws**— Rectangular, Linear and Cut to Length optimization for guillotines.

**FastCAM® QE**—Quotation system with optimization for steel profiles and long products. Complete system for Steel Service Centers.

**FastCAM® MTO**—Capture steel take-off data electronically.

**FastSHAPES®** - Development of blowpipes/transitions for all the different segments in the heavy engineering market.

**Tradesman in a Box™** - Complete plate development system for hand lofting (without CNC machinery).

**FastFRAME® and FastPIPE™** — Tubular and Pipe Development programs for heavy steel.

**FastBEAM™** —Program beam lines directly from shop drawings.

**FastCOPY®** —Digitize engineering parts and templates to DXF format.

**FastLINK™** —Speed DNC download from PC to cutting machine.

**FontGEN**—Convert fonts to DXF.

**Outline**—Convert images to DXF.

**FastTRACK®** -Remnant Tracking database for Processed (Cut) Plate.

**FastCAM® QE™**  
'QUOTE EVERYTHING'  
OPTIMIZED ESTIMATES FOR THE SUPPLY OF PROCESSED STEEL  
BURNING • SHEARING • SAWING • DRILLING  
FastCAM®



[www.youtube.com/user/FastCAM Service/](http://www.youtube.com/user/FastCAM%20Service/)

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