FastCAM® System
DRAW, NEST & CUT WITH EASE

Best Fit for Metal Fabricators & Service Centers

Nuts and Bolts:

2D Drawing for 'profiles' not a reworked CAD product!

Super fast One-Step Nesting including Remnants

Reverse engineer existing CNC files back to geometry-CAM/DXF

Smart Bridging for less piercing & pierce location optimization

CAD import cleans & compresses code ready for quality cutting

DXF layer support for different processes

(OH&S) Gas Axe technology for skeleton plate break up

NC PROGRAMMING MADE FAST & EASY

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, 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

Drawing
Nesting
Verification

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.

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

NC Code Editor shows individual processes by color and line type

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)
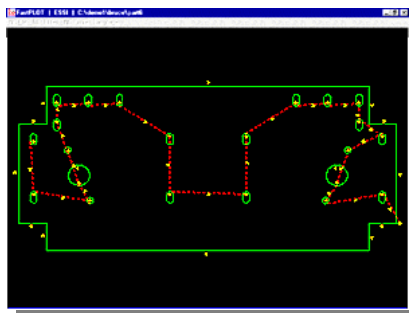
- Customizable Printing Template

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.

ELIMINATE 50% OF PROGRAMMING TIME WITH AUTOMATIC PATHING

FastPATH™ is included in the FastCAM® Professional Edition

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 Process-ing, 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.

*A COST-PLUS OPTION.

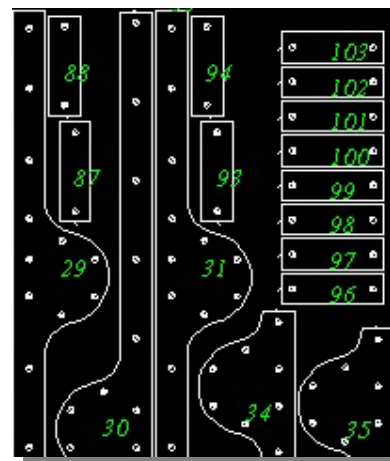**All of these complex pathing tasks reduced to a single click!**

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, Tabbing & Stitch Cutting
- Hole avoidance and rapid travel minimization
- Dynamic part rotation
- Move pierce points with simple 'point & click'.
- Nests all NC languages, 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.

Add FastNEST® or FastPATH™ later if and when required.

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

FastCAM® Standard

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

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

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

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.

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

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, Upgrades and Member Discount Entitlements.

Contact FastCAM for current pricing.

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

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

Contact your local FastCAM Office or reseller for pricing.

"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 metal fabrication and Service Center operation. 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

FastCAM Inc.—USA
8700 West Bryn Mawr,
Suite 800 South,
Chicago, 60631 3507
Phone: 312 715 1535
Fax: 312 715 1536
Email: fastcam@fastcamusa.com

FastCAM Pty. Ltd.—Asia Pacific
96 Canterbury Road,
Middle Park, Victoria, 3206,
Australia
Phone: 61 3 9699 9899
Fax: 61 3 9699 7501
Email: fastcam@fastcam.com.au
Email: fastcam@fastcam.cn
Web: www.fastcam.cn

FastCAM China
No.34, 377 Chenhui Road,
Zhangjuang Tomson Garden,
Zhangjuang High Tech,
Pudong, Shanghai, 201203
Phone: 8621 5080 3069
Fax: 8621 5080 3071

FASTCAM SUPPORTS: BURNY, LYNX, WESTINGHOUSE, ESAB, PICOPATH, CREONICS, HANCOCK , FANUC, C & G, PCS, KOIKE SANSO, TANAKA, MESSER, FAGOR, FARLEY, ANCA, SIEMENS, JHE, HYBRID, MYNUC, ANCA, PDF32 AND MANY OTHERS. THIS IS NOT A COMPLETE LISTING — CONTACT YOUR RESELLER OR SEE OUR WEB SITE FOR MORE..

FastCAM® will operate on most Pentium based PC's with Microsoft Windows 98/ME/XP or NT4/2000 however the recommended system, particularly for nesting, is a Pentium IV 256/512Mb RAM 80Gb HDD 17" Monitor & Windows XP.

ADDING FUNCTIONALITY TO FASTCAM®

Simple 'Extras' that can be incorporated into the FastCAM® System include:

Textmarker—for marking/ identification of processed parts.

Common Cut Pairs—Cut parts with a common edge.

AutoCAD DWG Import—Directly into FastCAM.

The following are trademarked products and are separate, complete programs that can be used alone or in conjunction with FastCAM®:

FontGEN—Fonts into DXF.

Outline—Convert images to DXF.

Tradesman in a Box™ —System for hand cutting and manual lofting.

FastTRACK® -Remnant Tracking for Processed Plate.

FastCAM® QE—Complete Optimized Database-driven Quotation System for Processing.

FastCAM® MTO—Fast, automatic material take-off specific to steel.

FastSHAPES® —Develop 40+ blow-pipe shapes in thick plate instantly.

FastFRAME® and FastPIPE™ — Tubular and Pipe Development Programs.
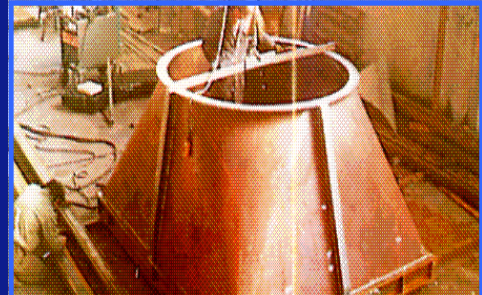
FastBEAM®—Graphic Beamline programming system.

FastCOPY® —Digitize parts to NC.

FastCUT® —Optimize, Cost, Cut List.

FastLINK™ —Fast DNC download from PC to cutting machine.

COMBINING FASTCAM® WITH OTHER PROGRAMS OFFERS THE MAXIMUM IN PRODUCTIVITY GAINS

SQUARE TO ROUND TRANSITION

Using FastSHAPES®, this square to round transition was completed in less than 30 seconds ready to send to the burning machine. The development even included the line marking and number of degrees for forming every bend! Handles simple and complex shapes. All read directly into 2D and 3D CAD systems.