



FastCAM® System

Feature Comparison Chart

Important Note: This table does not include *every* feature and function contained in the FastCAM Systems. The intention is to highlight the *main differences* in the 3 versions.

Item	Features	Descriptions	FastCAM® NC	FastCAM® NC Standard	FastCAM® NC Professional
1	Fully Integrated Drawing System	Original Drawings Created without CAD Complexity.	✘	✘	✘
2	DXF Import & Export	Data Exchange Format Most Commonly Used file format for transferring files between CAD Systems.	✘	✘	✘
3	IGES Import & Export	Internal Graphics Exchange System. Similar but more powerful format than DXF. Usually found in very large systems.	✘	✘	✘
4	CAD Clean	Automatically removes unnecessary file data from DXF files. Fixes common faults such as zero length entities or overlays which cause machine stoppage.	✘	✘	✘
5	CAD Compress	Reduces the Size of a CAD file, not the size of the drawing but the computer file size. More important is that any CAD systems will produce ARCS as dozens of single tiny line movements. This is not suitable for cutting work, and can cause serious, costly damage to the cutting machine. FastCAM converts these back to true arc single line patterns.	✘	✘	✘
6	Manual Part Extraction from CAD files	A CAD file may contain entire assembly drawings which may not be needed for a project. Any single part or piece can be extracted for cutting from a CAD file without any permanent modification to the original CAD drawing.	✘	✘	✘
7	Bridging of Parts-Standard	Joining of adjacent parts with small bridges for more continuous cutting, minimizing piercing and implementing a huge saving for plasma operations.	✘	✘	✘
8	Multi Process Support	Multi process support for cutting, making, drilling, tapping, etc. Support for all machine process as well as automatic process detection from external CAD files by layer.	✘	✘	✘
9	Multi language Support	FastCAM products can be supplied in all languages supported by the Window operating system.	✘	✘	✘
10	CNC file on Screen Verification	Simulates actual machine operation. Visually steps through CNC code displaying process by color and line type including piercing, drilling punching, mark, scribe, kerf, etc.	✘	✘	✘
11	Reverse Engineering	CNC file conversion back to geometry using a path from CNC through CAM and to DXF providing complete flexibility for any format at input or output.	✘	✘	✘
12	Printouts with Customized Template	CAD like printing with layout which includes nest and /or part data.	✘	✘	✘
13	Blocks Array Base Nesting	For rare and occasional nesting, requirements, blocks array nesting may be performed. This is accomplished by "blocking" a part, originally drawn or imported and setting up "blocks copy" thereby creating an array of almost any size and composition desire. This would seldom if ever be employed by anyone but a FastCAM NC user.	✘	✘	✘
14	Interactive Nesting	A semi-automatic method of nesting parts on materials. Single profile parts can be automatically nested onto a given size plate.		✘	✘



FastCAM® NC System

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15	Part "Bump" Placement	Automatically moves parts to the preset distance.		X	X
16	Interactive Part Placement	Select, click and drag and drop parts to desired placement. Flip, mirror on any axes, rotate, move, align while FastCAM automatically sets kerf and proper cutting direction.		X	X
17	Plate Trim	Automatic plate cutoff after nesting is complete with optional stored "off-cut" for later retrieval.		X	X
18	Auto Arraying of Individual Parts	Creates Arrays or patterns of similar parts within nesting. Ideal for cutting multiple same parts within nests.		X	X
19	Remnant Nesting	Nesting into previously cut plate not just FastCAM but virtually any source, any size, shape or weight. Can be optionally linked to FastCAM's FastTRACK system for full inventory tracking of remnant stock.		X	X
20	Bulk Import of DXF & IGES files	Multiple file import/export.			X
21	Multi-Plate Nesting	Automatically nests parts across multiple plate stock including remnant nesting.			X
22	Bridging of Parts Overcut	Cut path "overcuts" bridges to remove material completely resulting in a smoother better quality finish at the bridge.			X
23	FastPATH Automatic Tool Pathing	Totally automatic creation of cutting path including lead ins, lead outs, for both internal and external requirements, determining cutting direction and auto setting of kerf.			X
24	Automatic Part Extraction	A Single CAD drawing may consist of a series of assemblies, sub assemblies and parts comprising a parts list. As opposed to manually selecting these one by one for further work, FastCAM can automatically search for related subassembly and parts by profiling which can be singled out and extracted, separated and exploded for detailed analysis, modification or complete redrawing!			X
25	Automatic Cut List	FstCAM will automatically create, a multiple list of parts from the DXF file after exploding which are to be nested. The list may be modified at will by adding or deleting parts as desired.			X
26	Automatic Nesting	Automatically places parts for cutting as economically as possible on given sizes of selected material.			X
27	FastCAM Linking OPTION ** THIS FEATURE IS AN EXTRA COST	Worth noting is the FastLINK™ Program. This program is not part of the Fast CAM® System but is a separate option. It provides required capability for bi-directional NC file transfer between a Windows based personal computer and one or more controllers via serial communication links. Most major name controllers are compatible. A sever version is available for some controllers. FastLINK is compatible with all FastCAM® Systems.	OPTION	OPTION	OPTION