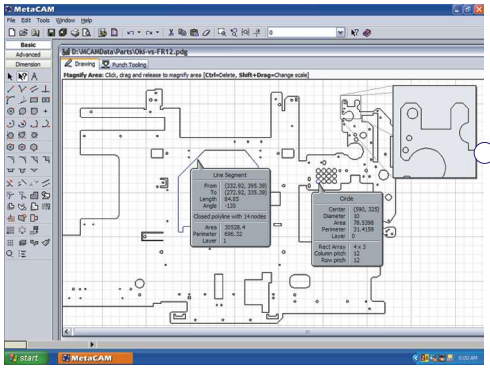
"THE PROOF IS IN THE PRODUCT"

MetaCAM

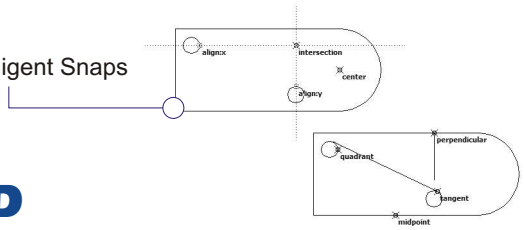
Leading the Industry with Innovative CAD/CAM Solutions

MetaCAM
The Advanced Sheet Metal Fabrication System.

MetaCAM, the most comprehensive end-to-end solution for Sheet Metal CAD/CAM, provides rapid productivity solutions for sheet metal fabrication. This multi-featured application tightly integrates all the modules related to sheet metal design, development, and fabrication.



Fully Integrated Intelligent Snaps



2DCAD
Speedy drafting engine.

MetaCAM's easy to use and powerful drafting system helps you breeze through part creation. Intelligent snaps, automatic construction lines, a rich set of sheet metal primitives, library of canned shapes, and user definable parametrics make you more productive than ever.

Highlights:

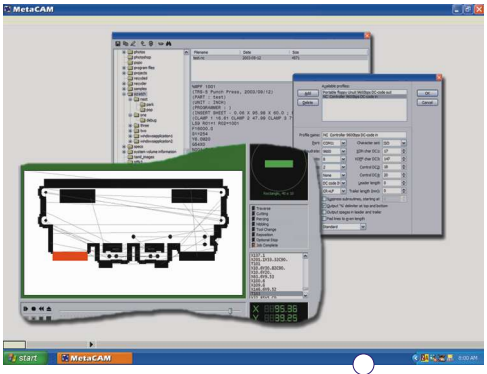
- Supports blocks, layers and spline curves.
- Automatic Dimensioning System.
- Auto Geometry clean-up.
- Imports drawings from DXF, DWG, IGES or PRT files.
- Solid Edge native format, no file conversion required.
- Solid Works OLE integration.
- Parametric Transition and Duct script.
- Text support for all windows compatible True-Type Fonts.

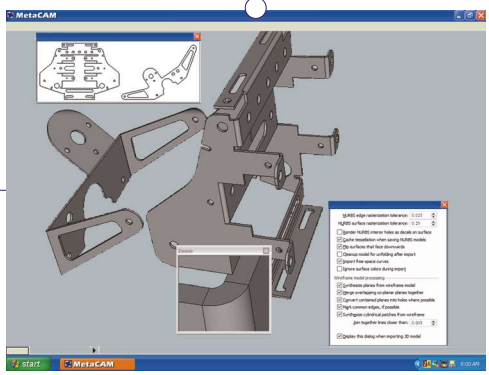
3DCAD
True sheet metal design capability

MetaCAM's native sheet metal modeler outperforms surface modelers and solid modelers at designing sheet metal components. With planes, developable surfaces, and NURBS you can rapidly create precise and accurate sheet metal models.

Highlights:

- Reads models in a variety of interchangeable formats such as IGES, STEP, DXF and SPM.
- Easily switch between Bend and Cut edges.
- Single click Un-fold 3D assemblies directly to CAM.
- Support for Weld and Hemming flanges.
- Automated Box Flange creator and Corner clean-up.
- Automated Clean-up utility for imported 3D geometry.
- Extrude and Loft features - for rapid development of 3D parts.
- Design 3D Space Frames for rapid Tube and Pipe layout.
- Directly imports Solid Edge PSM files





Simulation & reverse engineering
NC code comes to life

MetaCAM's built-in simulator can graphically simulate the processing of parts or layouts on laser, punch, and combo machines. The comprehensive simulation includes reposition operations as well as such special operations as part unloading and hole tapping.

The powerful NC code parser can read and analyze NC code generated for a wide variety of machines. The code can then be run through a graphical simulator. It can also be reverse engineered back into the part.

PunchCAM

Unparalleled productivity for turret and magazine presses

MetaCAM's punch processing system with a large number of parametric punching patterns, and a heuristically driven auto-tooler, allows the placement of production-ready punch hits even for complex parts.

Highlights:

- Tool inventory management system and graphical turret Layout editor helps save a lot of set up and import time.
- Auto-Tool Engine to eliminate interactive tooling requirement.
- Automatic sequencing and repositioning prepares punch for Posting to NC code.
- Automatic assignment of wire-joints and corner-joints.
- Automatic Chute assignment based on part size.
- Advanced punch tooling features for Cluster Punches, Wheel and Shear Tool support, punching splines.
- Table Sequence provides graphical edit capability to Sequence across the sheet.
- Drag and drop tooling.
- Color coded graphical turret and tool library.

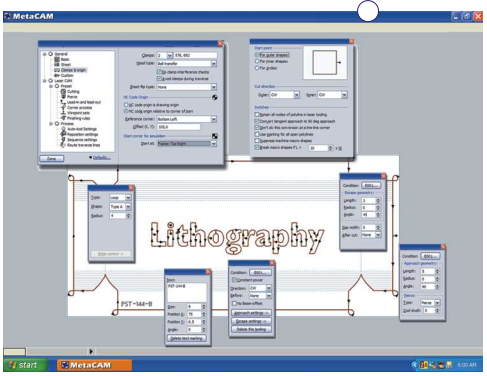
ProfileCAM

The leading edge in profile cutting.

MetaCAM's engine for laser, plasma, and water-jet machines helps you get the most out of profile cutting machines. Sophisticated technology tables optimize machine parameters after analyzing parts.

Highlights:

- Unparalleled support for special machines.
- Sophisticated algorithms handle traverse-line routing for even the most complicated parts.
- Punch-laser hybrid machines support. Optimally divides the processing between punch and laser in Hybrid machines.
- Automatically assign Lead-in, Escape geometry based on part size and thickness of material.
- Support multiple pierce types, designed to exploit machine specific features.



Nesting

Optimized for saving on stock usage and process time

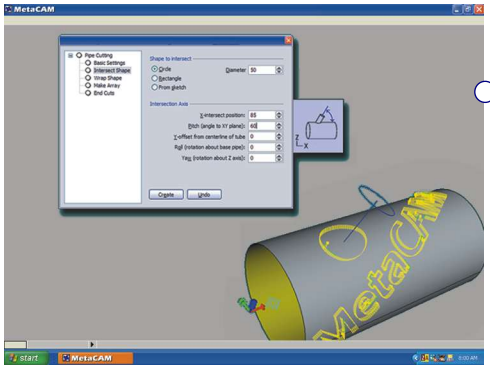
MetaCAM's nesting engine has a palette of nesting algorithms to suit different needs. The tight integration with MetaCAM offers benefits that third party nesting engines can never match. Reading from parts, the nesting engine directly generates MetaCAM layouts, greatly simplifying workflow.

Highlights:

- Maximize material utilization and reduce programming time.
- Go from 1000 job orders to nested NC code in minutes.
- Algorithms for Common Line Cutting, Part-in-Part, Right angle Shear and Nest around Clamps.
- Easily re-nest parts to a different machine
- Automatic Turret Conflict Resolution to build a single nest turret.
- Reduce cutting and shearing time with common line nesting.

Support for Special Machines

MetaCAM provides seamless support for special punch-shear combination machines like the Finn Power - Shear Genius, both punch CAM and profile CAM provide support for Loader/Un-Loader systems such as the Trumpf Sheetmaster.



Rotary Cutting

True part simulation

MetaCAM's rotary cutting feature allows rotary-axis programming for circular and other pipes. Shapes can be projected on the pipe, or wrapped around the pipe. Holes can be arrayed around the pipe and various types of end cuts can be programmed

Highlights:

- 3D Modeling of Square, Round and Rectangular Tubing.
- Pipe cutting feature easily models tubes, holes, end-cuts, fish mounts and transitions.
- Automatic / Interactive sequencing of cuts and 3D simulation.

BendCAM

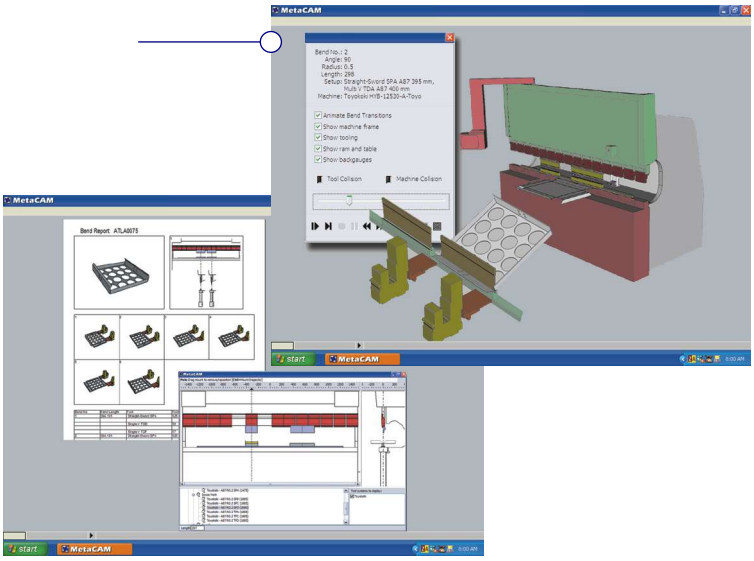
Automatic programming and process simulation

MetaCAM's BendCAM module can automatically assign punches and dies, position back-gauges and compute an optimal bend sequence for 3D models designed using MetaCAM's 3D modeler or process data imported fro other environments.

The bend module's simulation system provides detailed, precise and configurable simulation of the entire press-brake operation. A real time collision detection system warns you of all potential collisions.

Highlights:

- Full 3D Bend Simulation displays each bend process.
- Collision checking for safer operation of the press brake.
- Graphical reports provide the press brake operator detailed step-by-step setups in one concise report
- Supports multiple tool libraries for different manufactures such as Wilson, Amada, Toyokoki, etc....



Multi-AxisCAM

No more Teach-and-Playback

MetaCAM's 5-Axis CAM module makes it possible to generate ready-to run programs with no guesswork. The complete array of tooling placement routines can handle all surfaces such as planes, developable surfaces and NURBS.

MetaCAM

Optional Features / Modules

- MetaWORKS AI (Auto Text Importer for Nesting)
- MetaWORKS AT (Auto Tooler for batch DXF files)
- Automated Post Processor's
- Integrated MRP/ERP integration

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