



Caricature of 1850



CimaGraphi

The First Choice of Artistic Cad/Cam

CimaGraphi

GraphiTech's flagship product, Cimagraphi, is a 3D artistic CAD/CAM that opens new worlds of opportunities for artistic and industrial designers.

The mainstay of GraphiTech's products, Cimigraphi provides creative freedom and milling capabilities to ensure the production of detailed and intricate designs.

Applying CAD\CAM principles to freehand designs, Cimagraphi's unique artistic solution automates the design and milling of the most refined and detailed designs, and can be used for a wide range of applications.

Cimagraphi is ideal for mold makers, jewelers, engravers, sign-makers, woodworkers and others who wish to integrate Artistic CAD/CAM into their traditional methods of work.

The package combines design tools with 2.5D, 3D and 5 axis milling as well as a wide variety of outputs to CNC machines, engravers and routers.

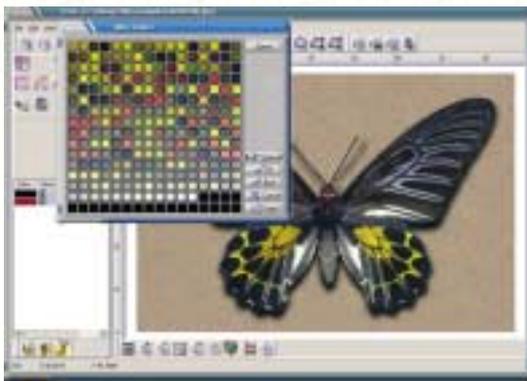
Artistic CAD/CAM

Artistic CAD/CAM describes those CAD/CAM applications specifically developed for the design and production of complex artistic designs.

Ornamentation, shapes and patterns that can be drawn freestyle, can now be captured offering Artistic CAD/CAM, designers the freedom to create objects with a 'hand crafted' quality, emulating work usually done by individual craftspeople. Used in a wide variety of applications from fashion items to industrial molds, Cimagraphi provides the freedom and flexibility required by modern workshops while ensuring the accuracy, efficiency and savings found only in a computerized system.

Cimagraphi's software elements

Cimagraphi dynamic design and manufacturing elements result in a totally configurable system available in a wide range of packages according to the user's needs.



Trace

Vectorize and edit scanned picture...

Trace automatically converts scanned images into machine-ready vector images.

Tracing is controlled by a set of easy-to-use parameters, generating outlines and centerlines with special tools provided for the optimization of color tracing and separation.

It is possible to move contours, re-shape sharp corners or tangent points, filter lines, curves or short chains and reduce the amount of points. Users can also sketch (freehand) the desired contours, overlay the image and define zones

of interest for future use. The layout can be organized into multiple layers for ease and flexibility and the graphic design can be exported.

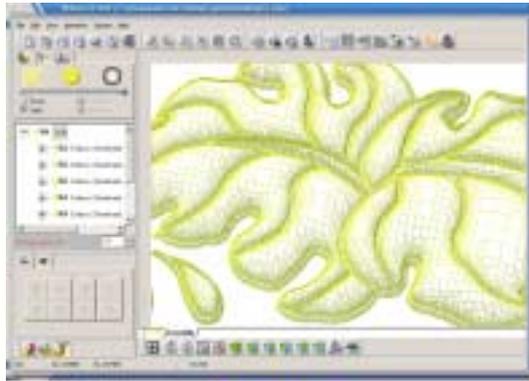
The First Choice of Artistic Cad/Cam

GraphiCAD

Create frames and text layout within one environment...

Whether drawing, drafting or adding text, users can now create and edit 2D designs and use quick and easy sketching functions to draw or digitize simply by using a mouse.

Handling text is effortless with TrueType fonts and more than 170 fonts provided by GraphiTech. Powerful typesetting capabilities allow users to set font size, alignment, positioning, rotation angles, directions, etc. Engravers can make serial number plates or create rulers and dials using an advanced wizard. A powerful font editor allows users to create their own fonts and save them for future use.



Picture to Part (P2P)

Create 3D surfaces at the touch of a finger...

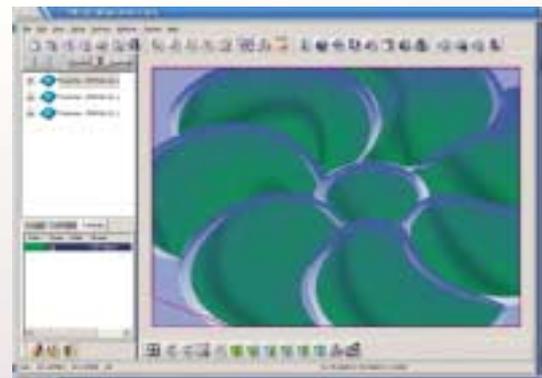
This surface-sculpting tool enables users to sculpt and mold 3D surfaces and imitate hand-crafted work. 2D geometry, digitized data or raster images can easily be converted into models using Cimagraphi's variety of tools. Reverse engineering capabilities allows users to create surfaces using cloud of points generated by a 3D scanner. Freehand sculpting tools enable the design of new parts or the correction of imperfections in scanned parts.

Milling

Prepare the job for milling...

A toolpath (NC data) is easily generated using Cimagraphi's automated tools. Milling Expert guides users through the toolpath generation process, prompting selection from a library of stock materials, tools and pre-defined strategies. Cimagraphi automatically exports the final toolpath to the machine controller through a wide range of post-processors.

Strategies supported by Cimagraphi include clean areas, contours, on-line slots, drill cycles and automatic detection of non-machined areas for surface roughing and finishing 2.5, 3, 4 and 5-axis milling.



Cimagraphi Applications

Cimagraphi appeals to a wide range of markets, many of which produce traditionally hand-crafted objects. These include artistic metalworking, woodworking, ornamentation, jewelry and sculpting as well as mold and die making.

GraphiTech are leading developers of artistic CAD/CAM solutions crafted for the manufacture and reproduction of detailed artistic and industrial designs.

Our products constitute a new world of opportunities for industrial designers and manufacturers in engraving, sign-making and milling that reduce costs and time to market. GraphiTech products include artistic CAD\CAM, 2.5 / 3 axis milling and reverse engineering solutions.

Marketed throughout Europe, Asia and the Americas, GraphiTech's clients are provided with full training and customer support.

Data Interface

- DXF, IGES, VDA, 3DM, EPS, AI, STL, HPGL, VRML, STEP

SPECIFICATIONS

Trace

- Color Tracing
- Outline and center line
- Dynamic editing and filter tools
- Multiple raster formats (bmp, jpg, tiff, pcx, wmf...)
- Twain support
- Layer Manager
- Freehand sketching with WACOM tablet support
- Batch tracing
- Raster editing

FEATURES

GrafiCAD:

Draft

- Creation and editing of lines, arcs, frames
- Dimensioning
- Symbols along curve
- Multiple snap options
- High precision digitizing
- Built-in font editor
- Weld
- Mathematical curve generation
- Nesting
- Scaling and moving raster pictures

Text

- Graphical text editor with complete text attribute control
- Generation of dials and rulers
- Stack and magazine for automatic signs
- True Type® font support
- Multi-lingual support
- Format painter

Picture to Part

- 3D surface creation from 2D contours
- Multiple surfaces support (assembly mode)
- Ring display mode
- Dynamic surface creation
- Reverse engineering
- Gray scale analysis & imagGe filters
- Asymmetric Embossing
- User-definable textures
- WACOM pressure sensitive tablet support
- Surface editing tools
- Sketching & Automatic Z-Level contour tracing
- Freehand & precise cross sections control
- A "handmade" touch function
- Weave tool

Milling

- High precision tool path generation supporting spiral, parallel, contour, offset machining, drill cycles
- Surface rough, semi rough and finish strategies
- Macro (automation)
- Non-machined area detection
- Tool path optimization
- Surface and geometry manipulation
- Open language post-processor
- Shaped walls
- Surface projection or wrapping
- Job management
- Photo realistic simulation
- Full tool entry/exit control
- Rapid Motions display mode

