What are the capabilities of CAGILA?

**Preparation of CAD data**
- CAD interfaces for **DXF, DWG, IGES, EPS, PS, AI, PDF, Gerber, HPGL, Trumpf-GEO, NC**
- Conversion of **splines, ellipses and polylines** into **tangential arcs** with preview
- Automatic **contour recognition** (complex CAD data in just a **few seconds**)!
- **NC optimized analysis** and **repair** of faulty **CAD data** (small elements, gaps, etc.)
- Automatic **recognition of similar contours as macros** (e.g. variants of longholes)
- **TrueType editor** for laser optimized text curves
- **High performance nester** for best results to reduce material costs and nesting time

**NC technology**
New technology concept to **reduce the effort** for **NC programming** and **machine switching**:
- Easy to handle technology of all needed process parameters by 'Action-Codes'
- Automatic positioning of **leads** and easy splitting of contours into **multiple processing paths**
- Automatic generation of **outer loops** and **acceleration ramps** at acute angles

Support of all CNC controls
by new generalized NC processor:
- **Any kind of NC format and dialect** (e.g. G code, Gerber, ESSI, HPGL, Scanner)
- **2 up to 4 axis tube processing** with analysis of machine kinematics and laser process
- **NC subroutine, loop and macro technology**

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***We have the solution for YOUR CAD/CAM problems***

**CAGILA®**
Flexible **NC programming for beam shaped tools**

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Data repair with CAGILA - Fast and extensive preparation of complex CAD data from technical and design area

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High performance nesting technology with handling of restricted areas on all kinds of sheet forms. E.g. Airbag textile, hard material or jeweler industry.
What is CAGILA used for?

PRODUCTION

E.g. jobshops for metal / automotive / textile / electronic / medicine / solar / design industry:

- Laser cutting, welding, marking, ablation, etc.
- Scanner applications with pre positioning
- Plasma and oxyfuel cutting
- Waterjet cutting
- Contour milling

What makes CAGILA special?

ADVANTAGES

- Fast algorithms need only a few seconds for data preparation of complex CAD files
- Reduction of time and material costs by high performance nesting module
- Flexible adaptation to solve your problems - but easy to use ("NC code by mouse click")
- CAGILA functions are the result of intensive cooperation with job shops and R&D dept.
- High quality customer service (NC processor customization, training movies and documents, high speed internet support and hotline, etc.)

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We have the solution for YOUR CAD/CAM problems

Special functions for tube cutting (e.g. stents) provide high NC data quality in a few minutes (e.g. multiple leads, destruction cuts, copy of process sequence, part extender, 4 axis module, NC Analyzer)

Arc recognition in line based curves (e.g. BMP to DXF conversion) results in fewer elements (reduction up to 99%) and highly improved NC path quality

Part extender provides easy generation of part design (e.g. stent families). Complex parametric design can easily be done by drag and drop.

Any kind of NC format and dialect can be generated by the NC processor. Real simulation of NC file commands show tool path processing and offset. NC Analyzer for deviation between NC code and real NC axis position.