CAM service

We have the solution for YOUR CAD/CAM problems

# CAGILA®

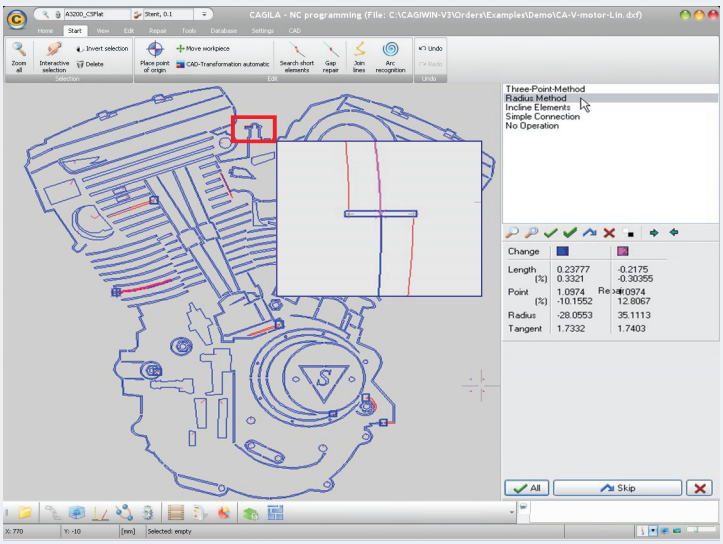
## Flexible NC programming for beam shaped tools

## What are the capabilities of CAGILA?

**ONE programming system for your shop floor**

## 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*




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

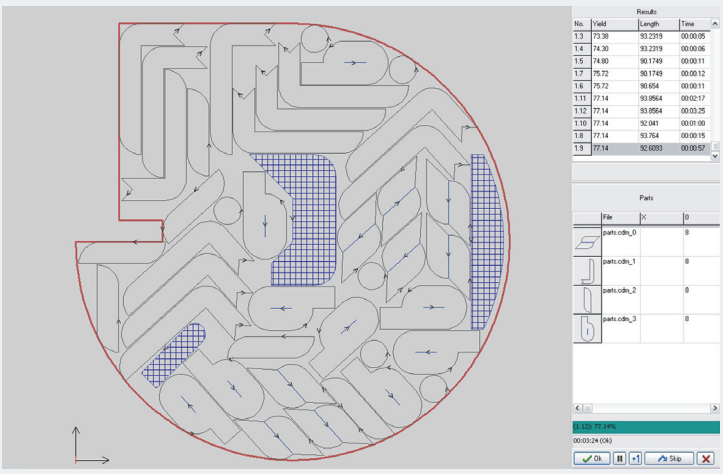
## NC technology

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***



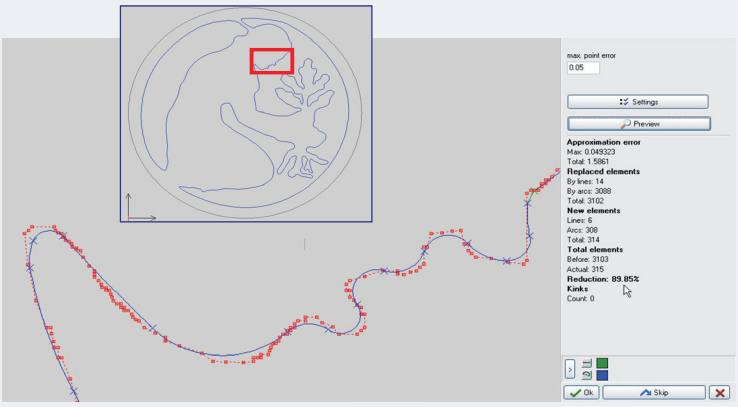

*High performance nesting technology with handling of resticted areas on all kinds of sheet forms. E.g. Airbag textile, hard material or jeweler industry.*

# 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*

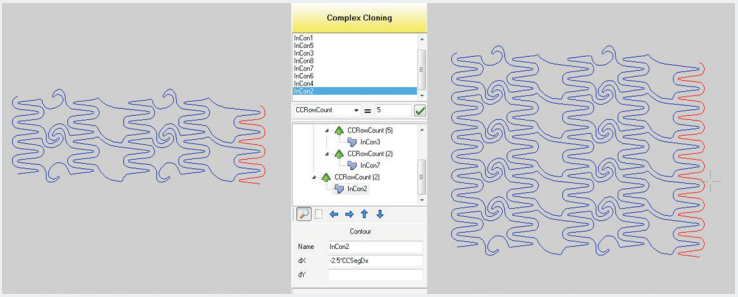


*Arc recognition in line based curves (e.g. BMP to DXF conversion) results in fewer elements (reduction up to 99%) and highly improved NC path quality*

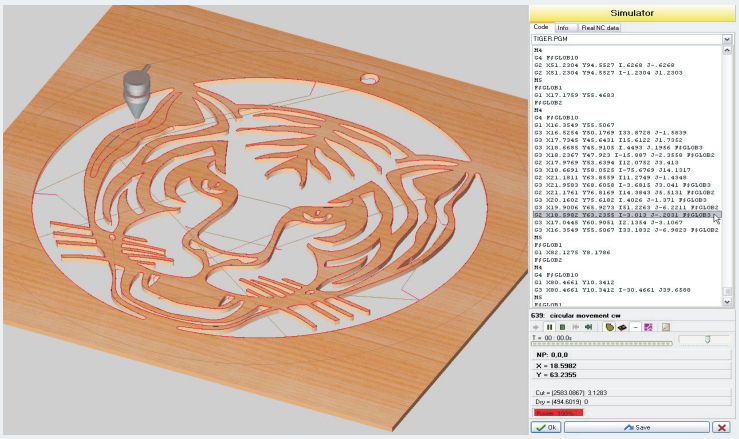
# What makes CAGILA special?

## *ADVANTAGES*

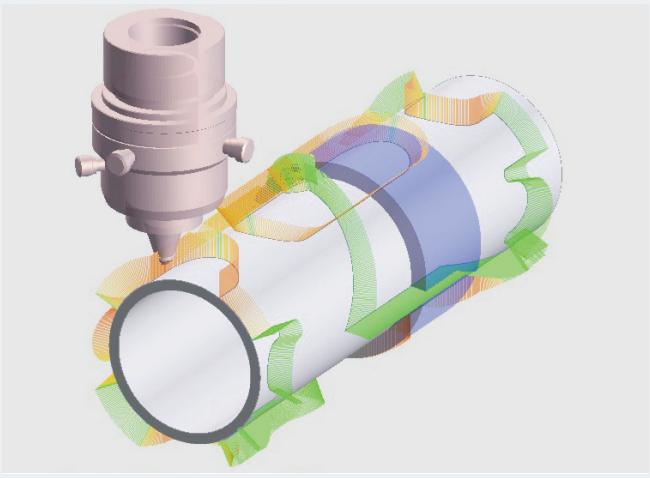
- ***Fast algorithms*** *need only a few seconds for data preparation of complex CAD files*
- ***Reduction*** *of* ***time*** *and* ***material costs*** *by high performance nesting module*
- ***Flexible adaptation*** *to solve your problems - but* ***easy to use*** *(****'NC code by mouse click'****)*
- *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.)*




*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.*



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

# For more information please contact

***CAM-Service GmbH***
*Wilhelmsplatz 11*
*32052 Herford*
*Germany*

*Phone: +49 (0)5221 9943 - 93*
*Fax: +49 (0)5221 9943 - 92*

*Email: info@cam-service.com*
*Internet: www.cam-service.com*

02/10, Information is subject to change

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