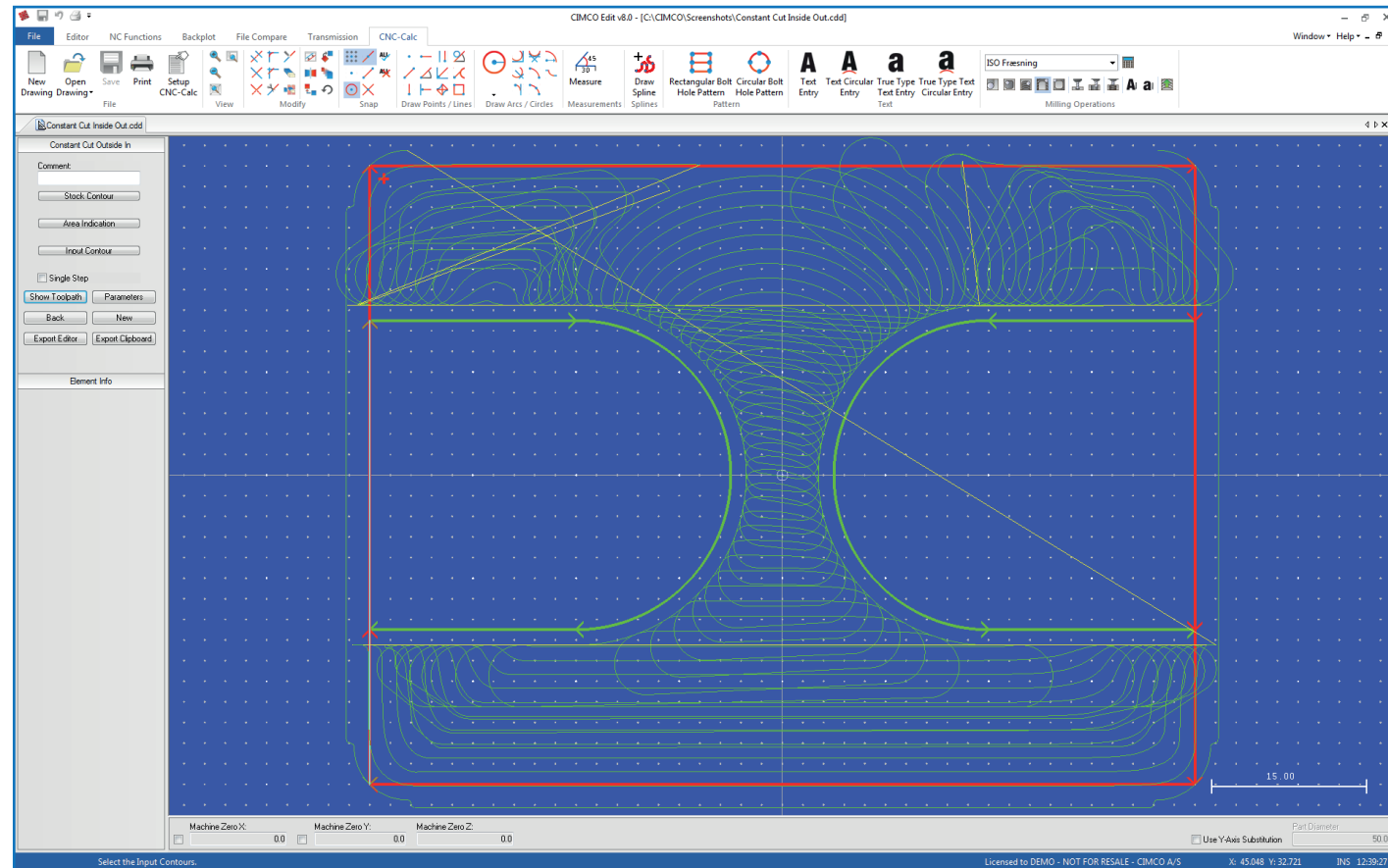


CIMCO CNC-Calc

A basic CAD/CAM for the shop floor



Designed for usability and productivity

CIMCO CNC-Calc is an add-on for CIMCO Edit that enables programmers on the shop floor to draw 2D geometrical contours, lay out toolpaths for mill and lathe, and simulate the resulting NC-program. CNC-Calc is a great tool for the operators and toolmakers on the shop floor who are not trained in working with an advanced CAD/CAM system. For them, CNC-Calc can help increase productivity and assist in the day-to-day NC-programming. For a small company it can be the first step into the CAD/CAM world.

CIMCO CNC-Calc is designed for ease-of-use and enables you to draw contours fast and easily. It features common functions for drawing lines and circles in relation to the coordinate system and/or existing geometry. Functionality ranges from the plain "horizontal line"

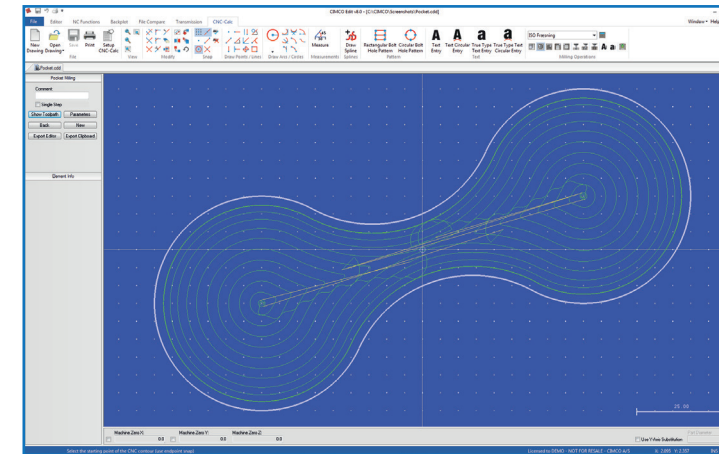
to the complex "circle tangent to three elements". It includes advanced trimming capabilities and an easy point and click approach to laying out CNC toolpaths.

CIMCO CNC-Calc also imports DXF files. From DXF it is possible to generate toolpaths for lathes and mills, such as ISO and Heidenhain conversational programming. Other features include generation of user-defined compensation types like computer, controller, wear, and reverse wear.

With CIMCO CNC-Calc being an integrated part of CIMCO Edit it is an easy task to view, edit, and simulate generated toolpaths. This enables you to validate your program and thereby optimize the use of machine resources.

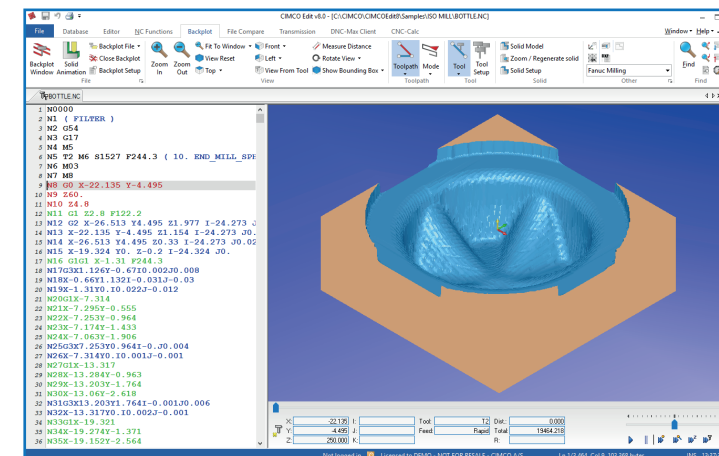
2D Drawing Capabilities

CIMCO CNC-Calc is easy to learn and a great tool for drawing simple 2D contours. However, the comprehensive set of available functions in CNC-Calc also makes it suitable for handling more complex geometrical drawings. Drawing functions in CNC-Calc include advanced trimming of elements, easy creation of fillets, full support for transformations, many options for snapping to elements, and easy creation of both rectangular and circular bolt hole patterns.



Backplot and cycles/macros

Since CNC-Calc is an add-on for CIMCO Edit, all functionality of the editor can be seamlessly used. This includes the built-in 3D Mill / 2D Lathe backplotter which handles your 3-axis mill and 2-axis lathe CNC programs with step and continuous forward and reverse plotting. Further, the built-in cycles and macros for common operations like program start, program stop, and tool change are provided. You can also record or create custom cycles and macros for the operations most common to your own specific setups and applications.



Strategies for 2D Milling and Turning

Once your 2D geometry is drawn CIMCO CNC-Calc makes it easy to lay out milling and turning toolpaths as well as drilling operations. By applying suitable toolpath strategies to your model CNC-Calc can generate the NC-code for you. Some of the strategies supported are:

Milling

- Facing
- Contouring
- Pocket
- Drilling
- Thread Milling
- Letter Milling

Turning

- Roughing
- Facing
- Finishing
- Grooving
- Thread (ID, OD)
- Cutoff

