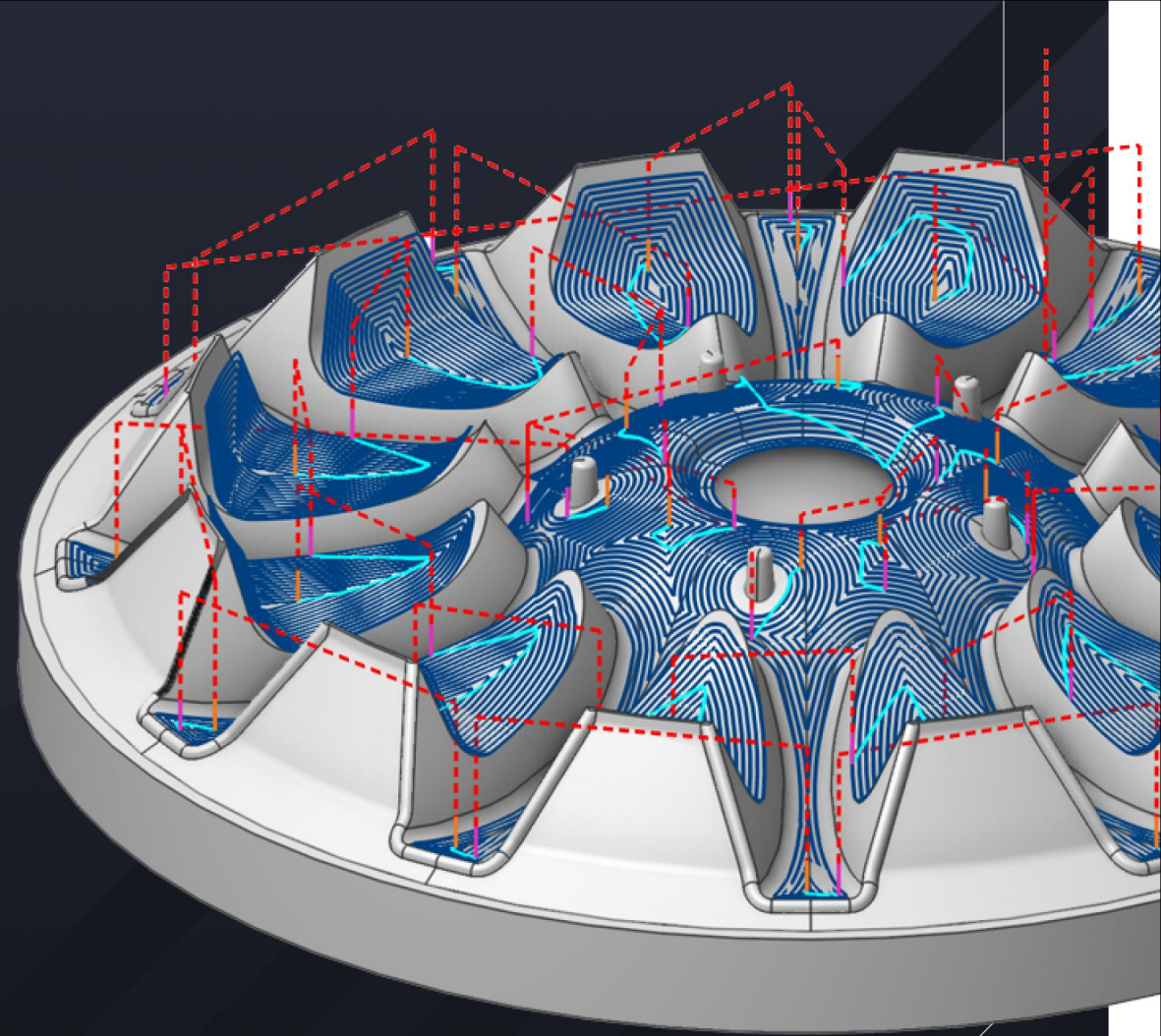


ency Tuner



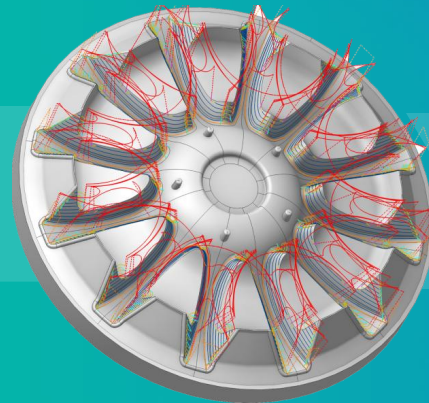
Shop-floor NC-code
simulation software



The path from a CAD file to the finished part



CAD



CAM

```
X-212.85Y11.957Z93.397A24.456C-232.54  
X-211.911Y10.945Z93.695A24.581C-232.334  
X-210.975Y9.943Z94.001A24.705C-232.129  
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X-209.115Y7.977Z94.64A24.948C-231.728  
X-208.187Y7.009Z94.972A25.067C-231.529  
X-207.259Y6.047Z95.315A25.186C-231.332  
X-206.33Y5.089Z95.667A25.306C-231.135  
X-205.399Y4.133Z96.029A25.427C-230.939  
X-204.466Y3.178Z96.403A25.551C-230.741  
X-203.53Y2.222Z96.787A25.677C-230.544  
X-202.589Y1.264Z97.183A25.806C-230.345  
X-201.651Y0.315Z97.588A25.932C-230.148  
X-200.719Y-0.622Z97.999A26.054C-229.953  
X-199.793Y-1.55Z98.416A26.174C-229.76  
X-198.872Y-2.475Z98.841A26.295C-229.567  
X-197.952Y-3.398Z99.275A26.419C-229.373  
X-197.031Y-4.323Z99.719A26.548C-229.178  
X-196.109Y-5.253Z100.173A26.686C-228.981  
X-195.183Y-6.189Z100.638A26.834C-228.782
```

NC Code



Editing, simulation,
optimization and
transfer of G-code

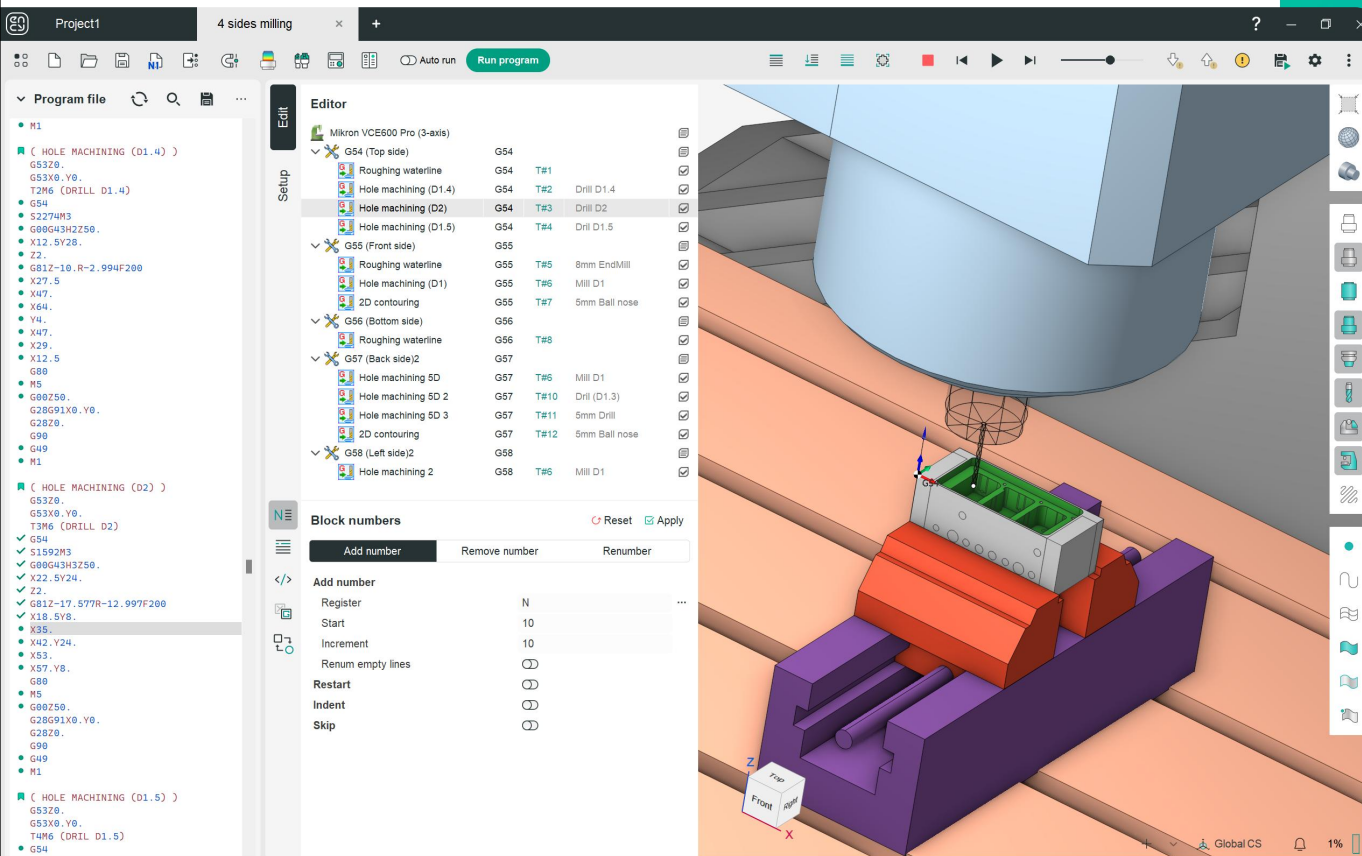


Machines
and Robots

The fastest turnaround time in the industry...

ENCY Tuner

G-code machining simulation, editing,
and NC program reengineering

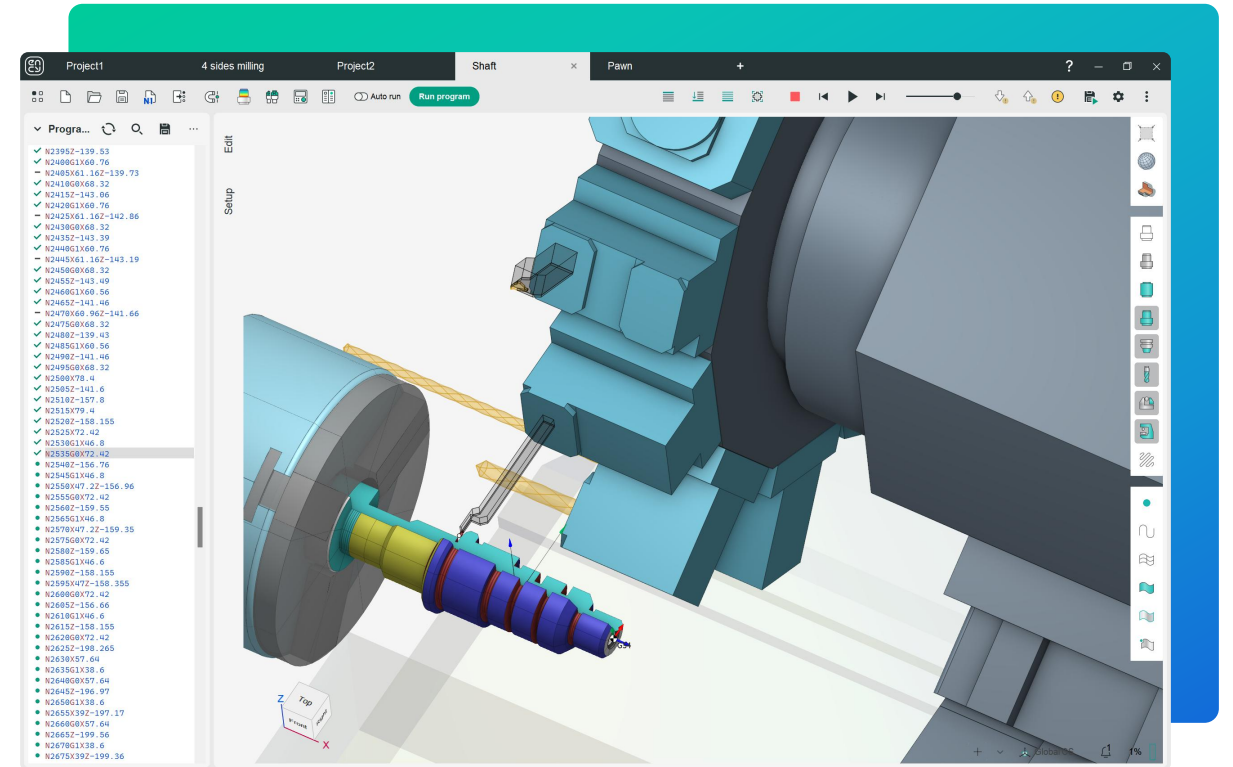


Highlights

- State-of-the-art G-code machining simulation
- Flexible NC code editing
- NC program reengineering
- Multi-project capability
- Support for CNC machines and robots
- Subtractive, additive, hybrid processes
- Detection of collisions, gauges and errors
- Virtual setup and tool management
- Wide selection of postprocessors and interpreters
- Option for direct installation in CNC controllers
- Third-party software components are not used
- Integration with the flagship products of the ENCY X platform

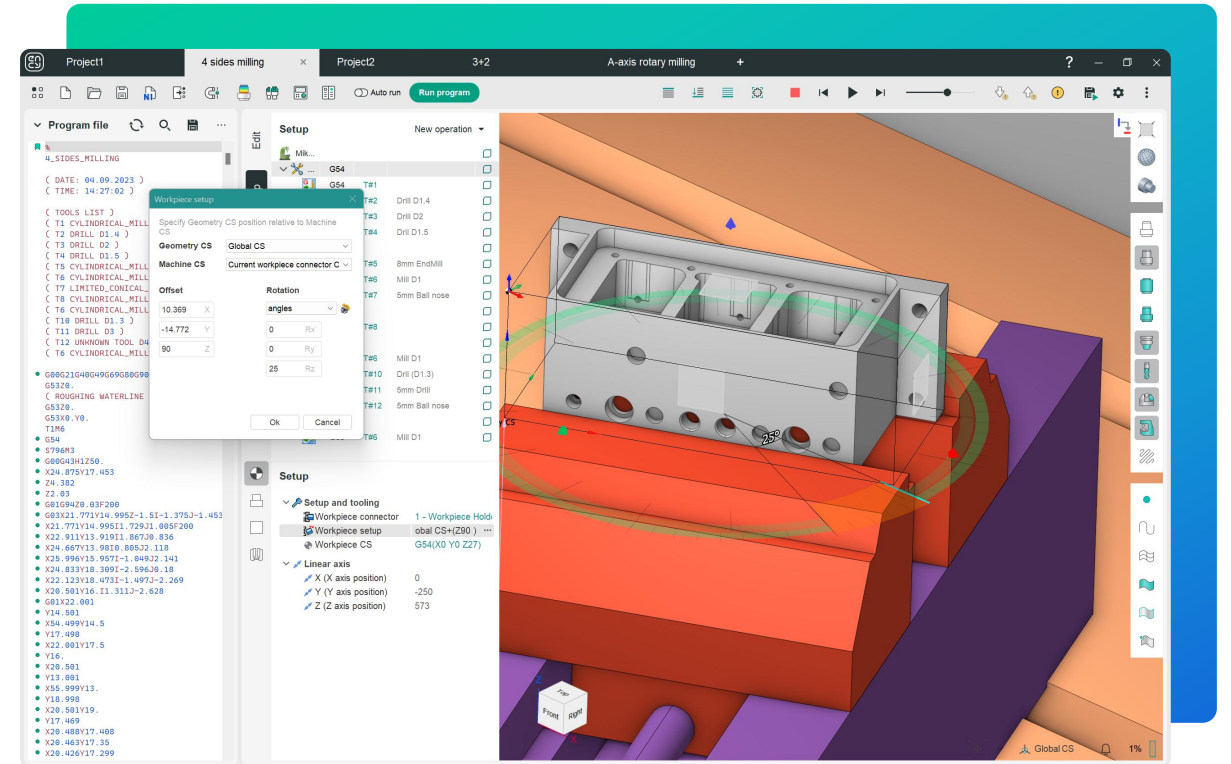
G-code machining simulation

- Highest quality graphics
- Voxel and solid modes
- Adjustable quality and simulation speed
- Gouge and collision detection
- Comparison of the machining result with the target part
- Saving the result in STL format
- Smart snapping, measurements, and chip removal
- Simulation of machining on CNC machines and robots
- Customization of colors and control of the visibility of machine or robot components
- Support for subtractive and additive processes
- Automatic creation of machining operation sequences based on the NC program structure
- Direct import of project files from ENCY



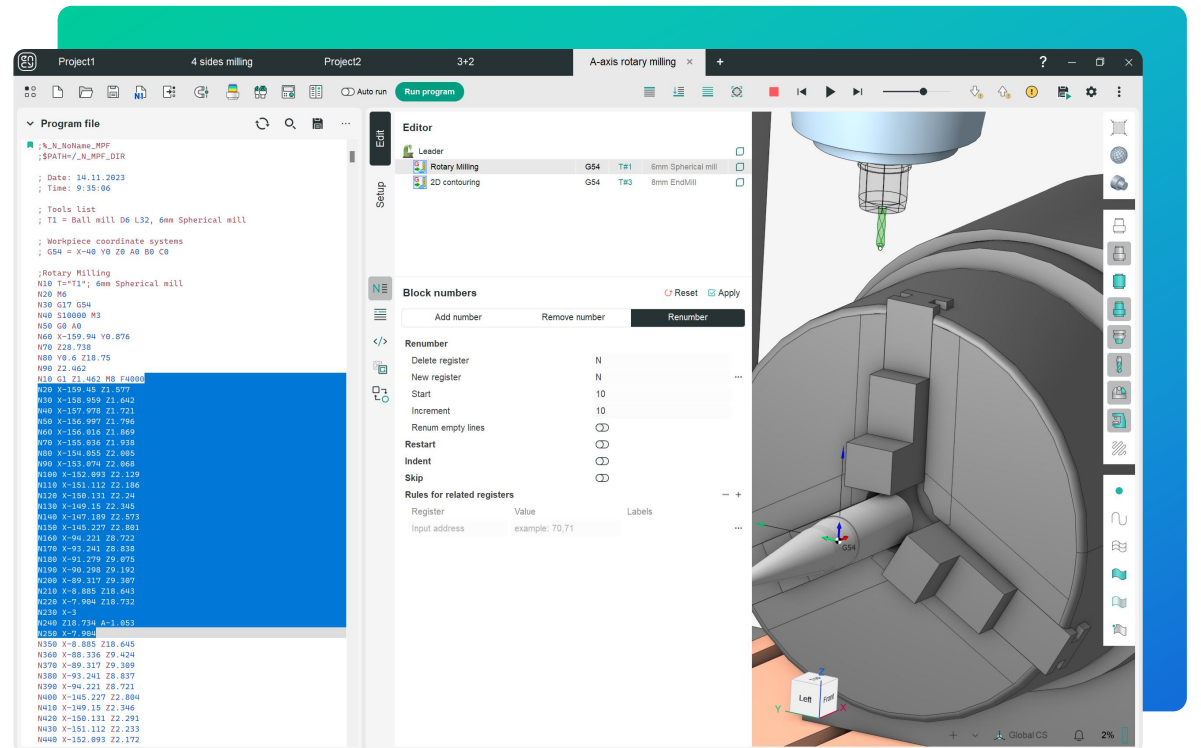
Virtual setup and tool management

- Full digital twin
- Import of fixtures and workpiece
- Automatic creation of workpiece
- Control of component positions using drag-and-drop and Machine Control Panel
- Interactive control of the position of the workpiece and fixtures
- Setting zero points and coordinate systems
- Management of cutting tools and libraries
- Monitoring of component movements beyond permissible limits
- Import machine setup
- Support for various setups



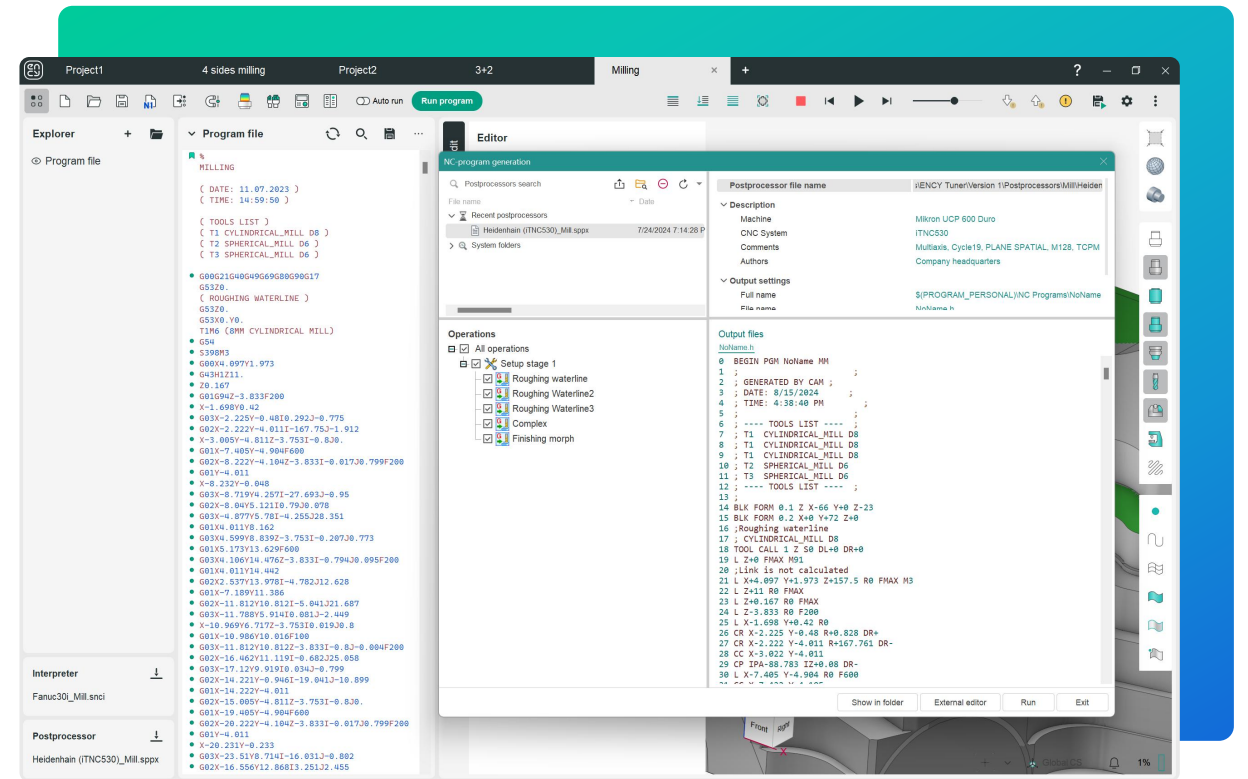
G-Code Editing and Comparison

- Quick search for text and commands
- Renumbering of blocks
- Insertion and deletion of lines
- Skips and comments
- Case conversion
- Transformation of NC program (Move, Rotate, Mirror, Equidistant)
- File Explorer
- Automatic comparison of NC files, highlighting differences and navigation through them
- Changes in the G-code are instantly reflected in the machining simulation in the graphical area



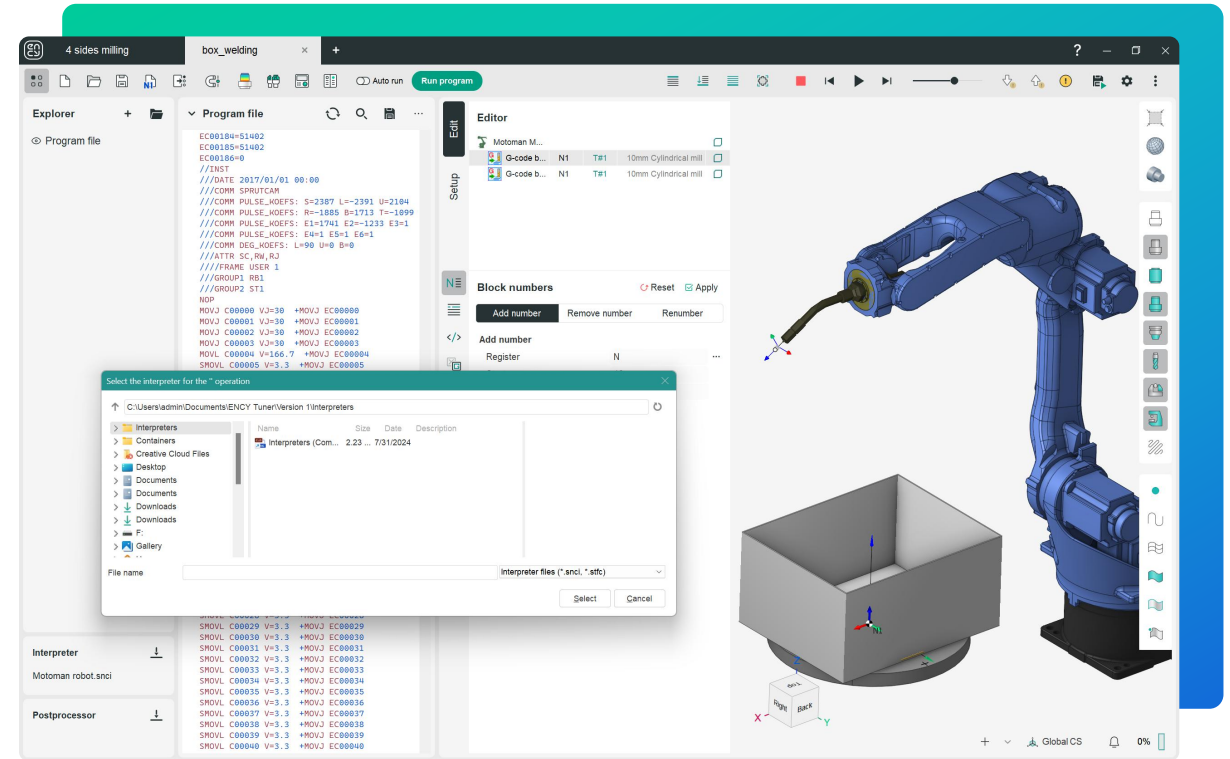
Conversion of NC programs

- Quick conversion of NC programs from one format to another
- On-the-fly replacement of the digital twin of the machine or robot
- A set of basic postprocessors and interpreters included in the system distribution
- Ability to customize and order the development of post-processors and interpreters



Reengineering of NC programs

- Import of G-code, parts, workpieces, and fixtures from other CAM systems
- Transformation of third-party G-code using the interpreter into ENCY Tuner operations
- Redefinition of cutting tools
- Interactive modification of the setup
- Opening ENCY Tuner projects in ENCY or ENCY Robot
- Calculation of new machining operations for specific design elements of a part without altering the remaining outdated G-code from other CAM system
- Export of the project back to ENCY Tuner
- Easier transition from other CAM systems without losing previously created NC programs

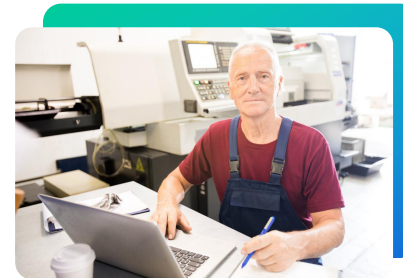


Why ENCY Tuner?

- A versatile solution with unique features for both worlds: CNC machines and industrial robots
- Competitive pricing
- Built-in specialized NC editor
- A wide selection of digital twins of equipment, interpreters, and postprocessors
- The ability to transition from outdated CAD/CAM systems without losing the ability to use existing machining projects and NC programs
- Special conditions when purchased as a package with ENCY
- Technological independence

Installation options

on PC



in CNC controller



ency

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