CimatronE NC-Lite
Automated 3-Axis Milling

"Cimatron new NC-Lite product made our shop-floor programming a reality. Tasks that used to require expensive expert programmers' time are now managed by users at the shop floor. Easy to learn and use, and highly automated, CimatronE NC-Lite is perfect for simple and repetitive 3-axis milling tasks."

Marco Fabbri, OREMPLAST S.r.l., Massa Lombarda, Italy

About Cimatron

Cimatron is the leading provider of integrated, quoting-to-delivery CAD/CAM solutions for the tooling and manufacturing industry. Cimatron is committed to providing tool makers and NC users with comprehensive, cost-effective solutions that streamline manufacturing cycles, enable collaboration with outside vendors, and ultimately shorten product delivery time. Over 8500 customers worldwide in the automotive, consumer plastics, and electronics industries employ Cimatron's cutting-edge CAD/CAM solutions for manufacturing.

Founded in 1982, Cimatron is publicly traded on the NASDAQ exchange under the symbol CIMT. Cimatron's subsidiaries and extensive distributor network are located in over 35 countries to serve customers worldwide with complete pre- and post-sales support.

- Highly-automated NC solution for efficient 3-axis milling
- True shop floor programming for high quality toolpaths
- Extremely short learning curve for maximum productivity
- Simple and flexible with a unique company-defined level of automation

For more information, please visit our web site at:
w w w . c i m a t r o n . c o m

Cimatron
Innovative Solutions for Manufacturing

Cimatron
Innovative Solutions for Manufacturing

The Value of Simplicity

In a world of three-shift shop floors and diverse staff skill levels, delivering consistent and cost-effective 3-axis NC quality is no simple task.

The simple and repetitive tasks that comprise much of 3-axis work can require hours of costly expert programming time – leading to bottlenecks, delays and lower profitability. At the same time, relying on novice users for complex programming can result in inefficient machining at the best – and even scrapped parts in some cases.

That's why Cimatron created **CimatronE NC-Lite.**

The Power of Automation

CimatronE NC-Lite combines the power of CimatronE NC with enhanced automation capabilities to deliver true shop floor NC simplicity. Flexible and easy to learn - **CimatronE NC-Lite** features a unique level of automation that maximizes productivity while minimizing human error. **CimatronE NC-Lite** ensures that all NC programmers deliver high quality 3-axis toolpaths simply, consistently, and cost-effectively.
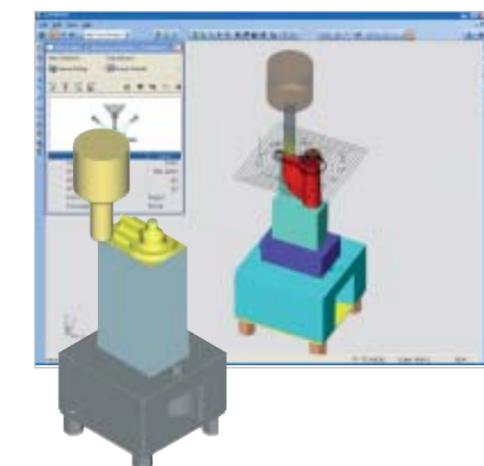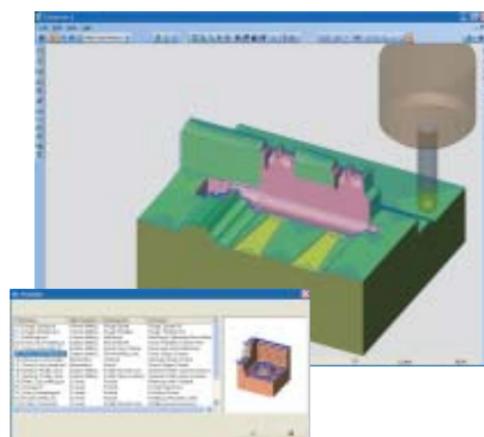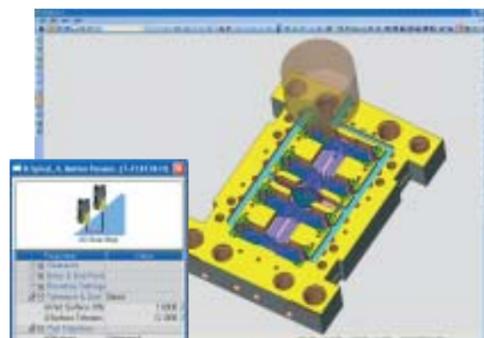
Short Learning Curve

- Less than one day of training to create efficient, professional and safe toolpaths
- Two levels of operation:
  - Level 1: features all basic NC and CAD functionality - beginners can start producing toolpaths almost immediately
  - Level 2: allows more experienced users use more CAD functions, fine-tune procedure parameters and to program 3+2-axis positioning toolpaths

Easy to Use

- High level of automation reduces interaction time
- Allows users to activate functions with pre-defined defaults and formulas
- Features a simplified user interface
- Easily-accessible powerful CAD functions embedded within the NC environment

High Level of Productivity Even for Novice Users

- Template-driven programming allows novice users to create efficient toolpaths rapidly
- Automated recognition of remaining stock and adaptive machining strategies
- Easy transition to full CimatronE NC package, with no productivity loss

Capture and Distribute Company Know-How

Company's NC experts capture and distribute machining knowledge and best practices:

- Definition of machining strategies
- Definition of cutting conditions
- Definition of NC-programming control level
- Definition of available CAD functionality

True Shop Floor Programming for CNC Operators

Designed for CNC operators, **CimatronE NC-Lite** demands almost no NC programming experience:

- Self-adapting machining strategies for efficient toolpaths
- In-process recognition of stock allows safe toolpath generation
- Smooth multi-cutter toolpath without dangerous manual editing

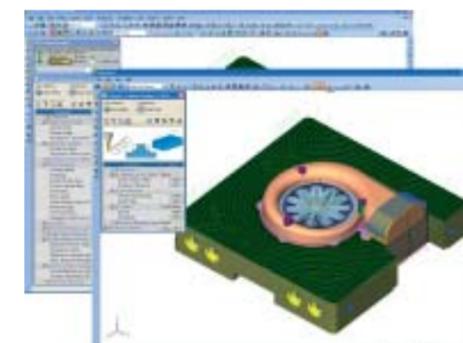### Solution Capabilities

CimatronE NC-Lite can machine 3-axis parts of any size and shape, and includes:

- 2.5-axis operations – drill, pocket and profile
- 3-axis milling and 2-axis positioning
- Effective wireframe and surfacing functions
- Robust standard and direct data interface
- Rich built-in set of manufacturing templates

Improve Communication between Shop Floor and Engineering

CimatronE NC-Lite can be easily operated in conjunction with CimatronE NC - smoothing communication between the shop floor and engineering without demanding extensive shop floor CAM training.
For example:

- CimatronE NC users can complete jobs started on **CimatronE NC-Lite**
- **CimatronE NC-Lite** users can load files from CimatronE – including toolpaths
- CimatronE NC users can generate **CimatronE NC-Lite** toolpaths

CimatronE NC-Lite Use Cases

Side-by-side with CimatronE NC
A combination of CimatronE NC seats and CimatronE NC-Lite seats is ideal for medium to large NC shops that employ multiple NC users with different skill levels. With CimatronE NC-Lite, simple tasks can be done by less skilled employees, under the guidance of NC experts.

Automated 3-axis solution for specific tasks
Many specific 3-axis milling tasks can be highly automated, for example:

- Almost 90% of electrodes can be machined with a small set of predefined smart templates
- For milling of plates prior to heat treatment - rough, rerough and semi-finish can be done by CimatronE NC-Lite at the click of a button

General purpose, true shop floor solution for CNC operators
By offloading some NC programming from engineering-level NC programmers to the shop floor, shops save money and increase productivity.