In today’s shop there’s no room for compromise. Clients expect excellent surface quality and short delivery time – often while changing models well into the machining process. To stay competitive, you need to program and machine any part, quickly and efficiently. You need a solution that automates key processes for speed, yet leaves your users firmly in control.

Cimatron. A world leader in CAD/CAM solutions since 1982, Cimatron delivers the only NC solution that offers your shop no compromise – no compromise on quality and no compromise on time to delivery.

Machine Any Part
Cimatron NC delivers the confidence of knowing that you can machine any part, period. From the routine to the complex, and everything in between, Cimatron takes the guesswork out of on-schedule, on-budget delivery. From simple 2.5-axis milling and drilling to complex 5-axis machining – Cimatron NC provides the full range of technologies needed to get the job done.

Advanced Micro Milling and Aerospace Milling
Cimatron NC thrives in highly-demanding manufacturing environments like aerospace and micro milling. A dedicated aerospace application provides full-user-controlled 5-axis milling with automated monitoring of tool and holder collision check with the part, remaining stock and fixtures. For miniature and high-precision parts – the Cimatron NC micro milling application is optimized to cut parts down to 0.1 mm with tolerances as tight as 0.00001 mm – resulting in superb surface quality.

Maximum Control
Cimatron NC complements the knowledge and experience of NC programmers. It offers the right combination of automation and hands-on decision-making power. While initial steps can be quickly accomplished with user-friendly guides and reusable templates, control over all functionality remains firmly in the experienced hands of the programmer.

Advanced template functionality further automates programming, allowing more of specific procedures and even complete machining processes. Easy template management helps retain crucial company knowledge – capturing expertise and know-how for future use.

Highly-Productive Working Environment
Designed with your users, your timeframes, and your market in mind – Cimatron NC was built for productivity, offering:

- Rich CAD functionality built into the NC environment
- An integration solution – eliminating data interface hurdles while effectively supporting changes
- High level of automation combined with maximum user control
- Intuitive user interface makes the right tools available at the right time and in the right place on the screen

About Cimatron
Cimatron (NASDAQ: CIMT) is a leading global provider of CAD/CAM software solutions to the manufacturing market. Cimatron enables shops worldwide to deliver quality products at lower costs and reduced cycle times. Cimatron’s subsidiaries and extensive distributor network are located in over 35 countries to serve customers worldwide with complete pre- and post-sales support.

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Flexible 5-Axis Solution and Knowledge-based Drilling
Cimatron’s 5-axis functionality supports the entire range of operations, from rough to finish, for demanding aerospace and highly-exacting production environments. Cimatron offers a powerful 5-axis milling application. The solution gives the user full control over tool motion and tool orientation, and includes tool and holder collision check with the part, remaining stock and fixtures.

Full 5-Axis functionality
Cimatron’s 5-axis milling strategies allow users to accurately machine parts like impellers, turbine blades, ship propellers, cylinder heads and inlets, and cutting tools.

Cimatron offers an integrated fully-functional 5-axis solution, taking an advanced and innovative approach to:
- 5-Axis Positioning – Cimatron NC uses machine setup time, by offering multiple setups for drilling and milling, including a special 5-axis connection function.
- 5-Axis Tilting – Cimatron NC’s touch of a button 5-axis tilting solution is especially suitable for rapid machining of parts with deep cavities, exterior ribs and key cavity radii, using shorter and more rigid tools for best surface quality and reduced machine time.
- 5-Axis Trimming – For cutting excess material from vacuum-formed parts, Cimatron NC provides users with full controlled 5-axis trimming.
- 5-Axis Visualization – Cimatron’s advanced simulation capabilities for 5-axis material removal and complete machine kinematics allows operators to review the machining process in a realistic environment prior to manufacturing.

Advantages of 5-Axis Milling for Aerospace
For demanding aerospace and highly-exacting production environments, Cimatron provides a powerful 5-axis milling application. This solution gives the user full control over tool motion and tool orientation, and includes tool and holder collision check with the part, remaining stock and fixtures.

Cimatron offers a large variety of 5-axis roughing and finishing functions to accurately machine parts like impellers, turbine blades, ship propellers, cylinder heads and inlets, and cutting tools.

Advanced Micro Milling
More and more fields (medical, optics, computer components, etc.) depend on the ability to cost-effectively manufacture very small, high-precision parts and matching molds. Based on dedicated micro-machining strategies, Cimatron’s micro milling generates superb surface quality within tolerances as tight as ±0.0001 in using cutting tools with diameters down to 0.01 mm.

The Right Balance of Automation and Manual Control
Cimatron NC offers maximum NC programming automation, while still leaving operators firmly in control. With template automation, complete high-performance NC programs can be created in minutes. At the same time, a rich set of automated parameters enable full control over both setup and machining conditions.

4 And 5-Axis Post-processors for Any Machine
Cimatron offers 4-and 5-axis post-processors for any machine. For demanding aerospace and highly-exacting production environments, Cimatron provides a powerful 5-axis milling application. The solution gives the user full control over tool motion and tool orientation, and includes tool and holder collision check with the part, remaining stock and fixtures.

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Flexible 2.5-Axis Solution and Knowledge-based Drilling

Cimatron NC includes a knowledge-based automated drilling application, QuickDrill, designed to operate using any data -- solids, surfaces and 2D/3D wire-frame. QuickDrill automatically creates an optimized drilling process -- recognizing holes and applying pre-defined drilling sequences according to company standards.

Cimatron NC 2.5-axis functionality supports any number of orient, centers, drill angles and entry control, and 5-axis positioning to reduce setup time.

Efficient Roughing Functionality

Cimatron NC's powerful 5-axis roughing solution creates a highly efficient toolpath by adapting machining strategy to part geometry and actual stock.

Cimatron NC maintains a consistently updated toolpath -- including second rough operations -- receives new or updated tooling, creates safe and minimal approach and entry areas, and adjusts feed rates according to tool load.

High Quality Finishing

Cimatron NC's ultra 2.5-axis finishing applications provides high surface quality for any model shapes using optimized machining strategies.

Based on shape and curvature analysis, part geometry and tool accessibility, Cimatron's finishing machining strategies include:

- Adaptive 5-flats
- All round radii
- Roll edge machining
- Clean-up (post-machining) and post
- Slope controlled finishing

Production High-Speed Milling

For highly productive High-Speed Milling (HSM), finish-less surface quality, and long tool life -- Cimatron NC provides many advanced features. The system generates an all rounded toolpath with constant tool load, including toolball end milling, advanced chamfer between passes, and state of the art runout removed.

Effective Electrode Machining Solution

Cimatron NC is the most complete solution for designing, documenting and manufacturing EDM electrodes. The system provides machining strategies -- optimized for electrode machining, including parameters to compensate for spot gap, 2D/3D drilling, as well as utilizing良好 with negative offset.

With built-in milling templates, a complete machining process can be implemented on any geometry with a single mouse click, including dedicated machine procedures for effective electrodes.

NC Lite -- Easy to Use Shop Floor Solution

Listening in the realm of shop floor solutions, Cimatron created an easy-to-use user interface and easy to use drop-down menus with a unique user-defined level of automation. Cimatron NC Lite incorporates the full functionality of Cimatron NC, and is ideal for both novice and advanced users.

Cimatron NC Lite is the ideal solution for shop floor programming. From drilling and 2.5-axis milling, full 4-axis drilling and 5-axis positioning, NC Lite provides complete and powerful shop floor solution. Simple and flexible for a unique user-defined level of automation. Cimatron NC Lite incorporates the full functionality of Cimatron NC, and is ideal for both novice and advanced users.

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Cimatron NC offers maximum NC programming automation, while still leaving operators firmly in control. With template automation, complete high-efficiency NC programs can be created in minutes. At the same time, a rich set of advanced parameters enable full control of toolpath strategy and machining conditions.

Effective Change Management

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Cimatron NC's advanced simulation capabilities allow for fast-axis material removal and complete machine dynamics allows operators to review the machining process in a realistic environment prior to manufacturing.

Advanced 5-Axis Milling for Aerospace

For demanding aerospace and other highly-machining production environments, Cimatron NC provides a powerful 5-axis milling application. The solution gives the user full control over tool motion and axis orientation, and includes tool and holder instability check with the part, removing stock and fixtures.

Cimatron NC offers a large variety of 5-axis roughing and finishing functions to automatically machine parts like impellers, turbine blades, ship propellers, cylinder heads and beds, and cutting tools.

Advanced Micro Milling

More and more fields (medical, optics, computer components, etc.) depend on the ability to cost-effectively manufacture very small, high-precision parts and matching molds. Based on dedicated micro-machining strategies, Cimatron NC micro milling generates superb surface quality within tolerances as tight as ±0.0005 mm using cutting tools with diameters from 0.1 mm.

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Cimatron NC's advanced simulation capabilities allow for fast-axis material removal and complete machine dynamics allows operators to review the machining process in a realistic environment prior to manufacturing.
Flexible 2.5 Axis Solution and Knowledge-based Drilling
Cimatron NC includes a knowledge-based automation drilling application, QuickDrill, designed to operate using any data’s solids, surfaces, and 2D/3D wire frames. QuickDrill automatically creates an optimized drilling process — recognizing tool holes and applying pre-defined drilling sequences according to company standards.

Cimatron NC’s 2-axis functionality supports any number of input contours, drill angles and entry control, and 5-axis positioning to reduce setup time.

Efficient Roughing Functionality
Cimatron NC’s powerful 2.5-axis roughing solution creates a highly effective breakdown by adopting machining strategies to part geometry and material stock.

Cimatron NC maintains a constantly-updated model of remaining stock
This allows the system to generate efficient toolpaths — including several rough operations — minimize air motions, create safe and minimal approach and retract motions, and adjust feed rates according to actual tool load.

High Quality Finishing
Cimatron NC’s calculated 2.5-axis finishing applications provides high surface quality for any difficult shapes using optimized machining strategy. Based on desired 2.5-axis cuts, accuracy analysis, part geometry and feed accessibility.

Cimatron’s finishing machining strategies include:
- Adaptation 2.5 axis
- Full toolpath control
- Surface finishing
- Full toolpath control
- Slope controlled finishing

Precision High-Speed Milling
For highly productive High-Speed Milling (HSM), finish-less surface quality, and low tool life — Cimatron NC provides many advanced features. The system generates an all rounded toolpath with constant tool load, including toolpath grading, advanced clearance between passes, and state of the art tool path avoidance.

Effective Bistable Machining Solution
Cimatron NC is the most complete solution for designing, documenting and manufacturing EDM electrodes. The system provides machining strategies — optimized for electrode machining, including parameters to compensate for spark gap, ZU-Tool shifting, as well as utilizing cutting conditions with negative offset.

With built-in milling templates, a complete machining process can be implemented on any geometry with a single mouse click, including dedicated machine pre-processes for effective electrodes.

CNC Lite – Easy to Use Shop Floor Solution
Listening to the needs of shop owners worldwide, Cimatron created a company solution, easy to use and easy to set up for any company, with a unique user-defined level of automation. CNC Lite incorporates the full power of Cimatron algorithms, and is ideal for both new and advanced users.

Cimatron Lite is the ideal solution for shop floor programming. From milling and 2.5-axis milling, to 3-axis tilting and 5-axis positioning. CNC Lite provides a complete and powerful shop floor solution. Simple and flexible, CNC Lite is capable of quickly programmed or shop flows, from rough to finish—saving time and cost, without sacrificing quality.

For more challenging tasks, advanced users enjoy full compatibility with Cimatron NC, including powerful shaping of toolpaths and toolpaths between the systems. CNC Lite can be easily upgraded at any time to the full Cimatron NC solution.

Full 5-Axis Functionality for Tooling
Cimatron offers an integral fully-featured 5-axis solution, taking an adaptive and advanced approach to 5-axis machining.

- 5-Axis Positioning — Cimatron NC uses machine setup time, by offering multiple setups for drilling and milling, including a special 5-axis connection function.
- 5-Axis Tilting — Cimatron NC’s touch of a button 5-axis tilting solution is especially suitable for rapid machining of parts with deep cavities, narrow ribs and keyway radii, using shorter and more rigid toolpath for best surface quality and reduced machine time.
- 5-Axis Trimming — For cutting nozzles from various formed parts, CNC Lite provides users with fully controlled 5-axis trimming.
- 5-Axis Visualization — Cimatron NC’s advanced simulation chip adds 5-axis material removal and complete machine kinematics allows operators to review the machining process in a realistic environment prior to manufacturing.

Advanced 5-Axis Milling for Aerospace
For demanding aerospace and other highly-exacting production environments, Cimatron GC provides a powerful 5-axis milling application. The solution gives the user full control over tool motion and tool orientation, and includes tool and holder collision check with the part, removing stock and fixtures.

Cimatron NC offers a large variety of 5-axis roughing and finishing functions to successfully machine parts like impellers, turbine blades, ship propellers, cylinder heads and sides, and cutting tools.

Advanced Micro Milling
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The Right Balance of Automation and Manual Control
Cimatron NC offers maximum NC programming automation, while still leaving operators firmly in control. With template automation, complete high efficiency NC programs can be created in minutes. At the same time, a rich set of advanced parameters enable full control over toolpaths strategy and machining conditions.
Risk Rebalance CAD Functionality
Ability to model imported geometry is key for a CAD solution.
Cimatron NC integrated CAD tools allows the NC programmer to easily overcome geometry issues such as stepping holes, applying drills, rounds and surface extensions, and to create additional geometries (turbines and contours) required to optimize machining.

An Integrated Solution
Cimatron is at the heart of integrative solution, supporting each and every stage in the tooling process — from receipt of data from the customers and parts are measured and assembled. This broad range of functionality allows users to go through the complete design and manufacturing process without any data conversion.

Efficient Change Management
Cimatron is a best-in-class integrative solution, supporting each and every stage in the tooling process — from receipt of data from the customers and parts are measured and assembled. This broad range of functionality allows users to go through the complete design and manufacturing process without any data conversion.

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World-class Customer Support
Cimatron understands that in the complex CAM arena, a solution is measured by both its functionality and the quality of its customer support.
That’s why the dedicated, seasoned-trained Cimatron support engineers we employ at our support centers worldwide are all professionals like you, with hands-on experience. Cimatron implementation teams ensure that our solutions are fully suited to the way your company works. In addition to process consultation and implementation, Cimatron offers custom development of plug-ins to exactly match any company standards, including d and 5-axis post-processors for any machines.
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For more information, please visit our web site at: www.cimatron.com

No Compromise
In today's shop there's no room for compromise. Clients expect excellent surface quality and short delivery time - even while changing models and into the machining process. To stay competitive, you need to program and machine any part, quickly and efficiently. You need a solution that automates key processes for speed, yet leaves your users firmly in control.

Enter Cimatron. A world leader in CAD/CAM solutions since 1982, Cimatron delivers the only NC solution that offers your shop no compromise - no compromise on quality and no compromise on time to delivery.

Machine Any Part
CimatronE NC delivers the confidence of knowing that you can machine any part, period. From the routine to the complex, and everything in between, Cimatron takes the guesswork out of on-schedule, on-budget delivery.

From simple 2.5-axis milling and drilling to complex 5-axis machining - CimatronE NC provides the full range of technologies needed to get the job done.

Advanced Micro Milling and Aerospace Milling
CimatronE NC thrives in highly-demanding manufacturing environments like aerospace and micro milling. A dedicated aerospace application provides full-user-controlled 5-axis milling with automated monitoring of tool and holder collision check with the part, remaining stock and fixtures.

For miniature and high-precision parts - the CimatronE NC micro milling application is optimized to cut parts down to 0.1 mm with tolerances as tight as 0.00001 mm - resulting in superb surface quality.

Maximum Control
CimatronE NC complements the knowledge and experience of NC programmers. It offers the right combination of automation and hands-on decision-making power.

While initial steps can be quickly accomplished with user-friendly guides and reusable templates, control over all functionality remains firmly in the experienced hands of the programmer.

Advanced template functionality further automates programming, allowing users to re-use specific procedures and even complete machining processes. Easy template management helps retain crucial company knowledge - capturing expertise and know-how for later use.

Highly-Productive Working Environment
Designed with your users, your timeframes, and your market in mind - CimatronE NC was built for productivity, offering:

- Rich CAD functionality built into the NC environment
- An integration solution - eliminating data interface hassles while effectively supporting changes
- High level of automation combined with maximum user control
- Intuitive user interface makes the right tools available at the right time and in the right place on the screen.