

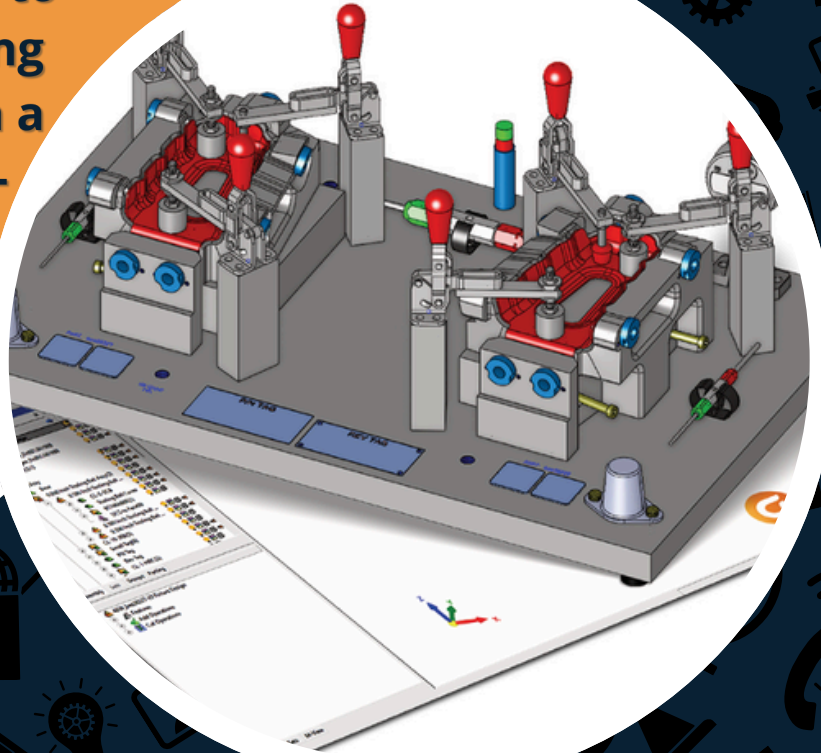


CIMATRON



Reliable
SOLUTIONS
ONE STOP SOLUTIONS FOR ALL TECHNOLOGY NEEDS

Cimatron provides toolmakers with an end-to-end solution for designing and manufacturing with a single, intuitive, easy-to-use interface for your entire workflow—from quoting, to design, to manufacturing.



OUR SERVICES

Software



Examine the extensive selection of CAD/CAM/CAE software required to increase industry productivity.

Engineering



Our expertise lies in the machining and production of diverse customized projects.

Hardware



Investigate the numerous 3D scanners and printers to advance into industry 4.0.

we are dedicated to transforming the manufacturing landscape by offering state-of-the-art CAD/CAM software, advanced hardware, and comprehensive engineering services.



Programming of multi-axis, high quality parts of any complexity.

- Machine parts faster with confidence while protecting machines & tools.
- Program toolpaths easier & faster with “Flexible automation”.
- Prepare parts for manufacturing with full built-in CAD capabilities.
- Use dedicated strategies to machine differing part types

Fast Programming, Effective Toolpaths.

- Control over machining process with NC Setup, immediate stock review, and Job Manager.
- Rapid programming with customized NC templates and fast calculation using multi threads, background execution, and calculation on another PC.
- Automated and customized NC reports with 3D images, dimensions and notes (PMI).

Efficient Computed Aided Design Functions:

- **Mold Design:** Cimatron automates 3D mold design, core/cavity separation, and mold base assembly, streamlining the design-to-manufacturing process.
- **Die Design:** Cimatron simplifies die design with tools for stamping, forming, material flow analysis, and efficient tool path creation.
- **Electrode Design:** Cimatron automates electrode design for EDM, optimizing shapes, paths, and positioning for accurate, efficient machining.
- **Press Tool:** Designs and simulates press tools, including dies and punches, for efficient sheet metal forming.
- **Blank Design:** Generates optimal blank shapes from part geometry, minimizing material wastage for effective production.
- **Vyver:** Simulates material behavior during forming, analyzing stresses and deformation for process optimization and problem prevention.

Plate Machining Seat and Automated Drilling

- Manufacturing Feature Recognition (MFR) tool automatically recognizes Pocket's heights, shape and draft angle for safer and faster programming.
- A 2.5 axis Rough Pocket procedure handles open and closed pockets, supports HSM options (i.e. round motions) and delivers holder collision avoidance.
- Ultra-high material removal rate pocketing (Volumill), with open pockets and 2D cleanup.
- Save 90% programming time with auto drill, including hole and actual stock recognition.
- Safe gun drilling, with all feed/speed parameters recognizing intersected drilled holes.

5-Axis Programming for Part Production.

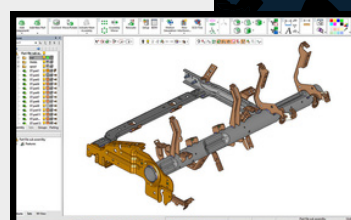
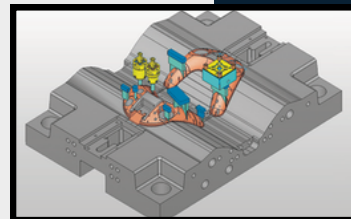
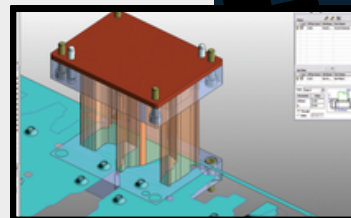
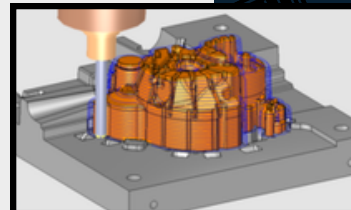
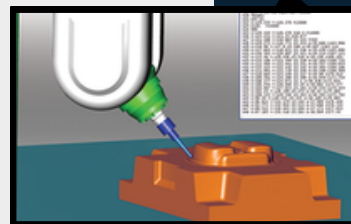
- Safely complete any job with full user control over 5-axis roughing and finishing.
- Time-saving applications for blades, impellers, blisks, ports, inlets and turbines.
- 5-axis machine and material removal simulation for medical, aerospace, and other complex parts.
- Access to a rich library of proven posts for any 5-axis machine and controller.

Simulation and Verification for Confident Machining.

- Machine simulation with true representation of the kinematics, work piece and fixtures.
- High quality embedded multi-axis material removal simulation.
- Reliable collision and gouge detection for machine, fixtures, stock, part, tool and holder.
- Toolpath verification with gouge and collision reports and color-coded remaining stock.

Powerful CAD for NC with Reliable Data Import.

- Repair the model and apply drafts and rounds with a hybrid CAD environment.
- Dedicated features for capping holes and slots, and extending surfaces.
- Import data from all standard and native formats, e.g. AutoCAD, Inventor, Catia, Creo, NX, and SolidWorks.



Our Website



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