Reduced Programming Time with Embedded CAM

The world’s largest manufacturer of amphibious boats, Sealegs International manufactures recreational and rescue crafts that can be driven in and out of water. Using the company’s proprietary technology, motorized, retractable and steerable wheels are fitted to specially designed power boats, which, when approaching land, can be lowered whilst still moving in water, enabling the boat to be driven onto a beach or dock. Sealegs had been using SOLIDWORKS, and To effectively machine the required features, Sealegs decided to use a CAM package that would not only provide the best machining features but also integrate effectively with SOLIDWORKS.

“Working with CAMWorks makes it easy for us since all the CAM data is saved along with the part (design that is being machined). With CAMWorks, a programmer can be certain that he is accessing the latest version of the model together with the latest CAM data every time he checks a file out of PDM vault. This feature is quite brilliant.”

Vladan Zubcic
Manufacturing Manager, Sealegs

Unparalleled Machining Time

Tomak serves a wide range of customers in aerospace, medical, machine tool industries and more, offering everything from prototype work to full production runs. Using CAMWorks VoluteMill, Tomak has the ability to generate optimal roughing paths with maximum material removal rates, reducing cycle times in some cases by as much as 80% and increasing cutting tool life by up to a staggering 200%!

“It’s virtually seamless. Within CAMWorks you have a roughing tab with a dropdown menu... [with] a number of different options you can choose. VoluteMill is one of them. You pick VoluteMill and put it to work for you. It’s that simple.”

Arlie Branham
Programmer, Tomak

Reduced Delivery Time to 1-3 Days

NCAD is a unique company in Florida that provides comprehensive services from concept to fully assembled product in one facility, without the need to outsource any aspect of the job. They established a subsidiary, MilliMill.com to offer express turnaround to its customers. With the help of CAMWorks, NCAD is able to deliver production-quality parts at prototype speeds - from received order to shipped parts in just 1 to 3 days!

“CAMWorks has been a huge part of our success in getting the NC code to the floor quickly and in having confidence in the offerings we make.”

Neil Porter
Owner, NCAD

In the words of a CAMWorks customer...

“There have been parts, where a customer has needed to move some hole positions, or a pocket was moved to a different location. We used to have to reprogram the model. With CAMWorks, which can work inside SolidWorks, we just change the model to the new revision, automatically regenerate the tool path, then report it to our Mazak mills and we’re ready to run. “CAMWorks” makes true associative machining possible.”

Mike Blake
Program Manager, Magnus Hi-Tech

Accelerate Your Productivity

HCL is from HCL’s Engineering and R&D Services. We enable technology led organizations to go to market with innovative products and solutions. We partner with our customers in building world class products and creating associated solution delivery ecosystems to help bring market leadership. We develop engineering products, solutions and platforms across Aerospace and Defense, Automotive, Consumer Electronics, Software, Online, Industrial Manufacturing, Medical Devices, Networking & Telecom, Office Automation, Semiconductor and Servers & Storage for our customers.

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GEOMETRIC IS NOW A PART OF HCL TECHNOLOGIES

CAMWorks® An HCL Technologies Product
The Unbeatable Combination for Maximum Machining Productivity

Significantly slash your programming time by as much as 90%

CAMWorks uses feature-based machining, so part features are recognized automatically - virtually eliminating repetitive programming tasks and reducing programming time by as much as 90%. CAMWorks captures and stores your best practices so that you are able to later utilize this as a knowledge-base for easier programming.

With CAMWorks Automatic Feature Recognition and vast database of machining parameters (TechDB™), you’ll be programming smarter and machining faster than ever before!

Complete Post Processor Support

We’ve teamed up with the industry’s best to offer you the easiest and most comprehensive solutions possible.

- Post processors for over 2000 machine tools and controller combinations will have you up and running in no time
- CAMWorks includes a Universal Post Generator (UPG) environment that enables all its users to modify existing posts or develop their own posts
- CAPS – APT CL formats provided for other post processor outputs, including DMG MORI’s APT CL format and PostHASTE
- Integrate with tooling information on the shop floor using tool management systems such as TDM

How CAMWorks Accelerates Your Productivity

Use the familiar design environment for CNC programming without the hassle of file translation

Seamlessly integrated inside SOLIDWORKS

The first SolidWorks® Gold partner CAM system and by far the most advanced CAD/CAM system on the market, CAMWorks continues to challenge traditional programming methods. Just as parametric, feature based solid modelling revolutionized mechanical design, CAMWorks parametric, feature based technology is revolutionizing CNC programming by helping users reduce programming time from hours to minutes or even seconds.

Because CAMWorks runs right inside the familiar SOLIDWORKS user interface, with the same intuitive menus, toolbars and view manipulation, users enjoy an easy-to-use solution with a short learning curve.

Eliminate CNC programming from becoming a bottleneck

Parametric Feature Based Approach

CAMWorks takes an intuitive approach to programming a part. It treats a part as a family of machinable features, including 3-D features, and identifies appropriate machining strategies with an intelligent knowledge base to apply company’s best practices. CAMWorks has the ability to interpret PIM (Product Manufacturing Information) data and choose the appropriate machining strategies. In addition, CAMWorks has the ability to automate the entire CNC programming process from end-to-end with its extensive API (Applications Programming Interface) framework.

Save precious shop floor time with one-click true G-code verification

Machine Simulation & True G-Code Verification

CAMWorks Virtual Machine allows you to see a realistic simulation of your part being machined with the complete machine tool. With true G-code simulation, you can address aspects like sub-programs, complex logic and coordinate system transformations that are not possible to address using standard CL data simulation.

In addition to saving valuable shop floor time, the integrated CAMWorks Virtual Machine environment allows you to save the time normally spent setting up a verification run in a stand-alone system.

CAMWorks for SolidWorks Modules

- 2-Axis Milling
- 3-Axis Milling
- Multi-Axis Machining
- CAMWorks VoluMill™
- Turning
- Mill-Turn
- CAMWorks Virtual Machine
- Wire EDM

CAMWorks VoluMill™ handles complex geometry with ease.