CAMWorks for Solid Edge

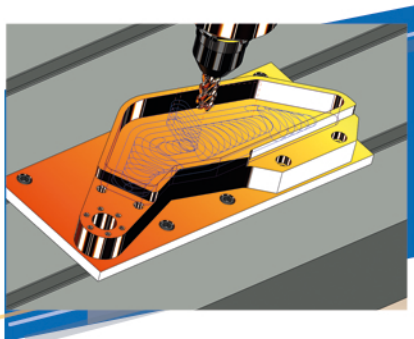Fully Embedded CAM at its Best

CAMWorks for Solid Edge is a fully embedded Computer Aided Manufacturing (CAM) solution for Solid Edge. Using CAMWorks for Solid Edge, the CAD and CAM models become one and the same and users can create CNC programs within the familiar Solid Edge interface. All the CAD and CAM data is stored directly within the Solid Edge part or assembly file. There's no need to maintain separate CAM files, typically required by stand-alone CAM systems, and the fully-associative toolpaths update automatically to design changes, so there is no concern about machining outdated revisions of parts.

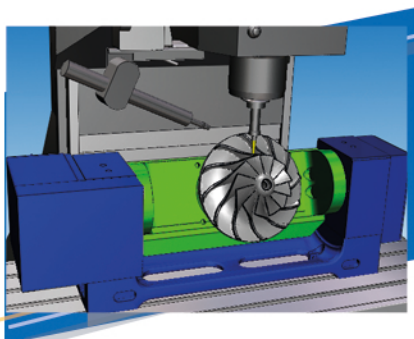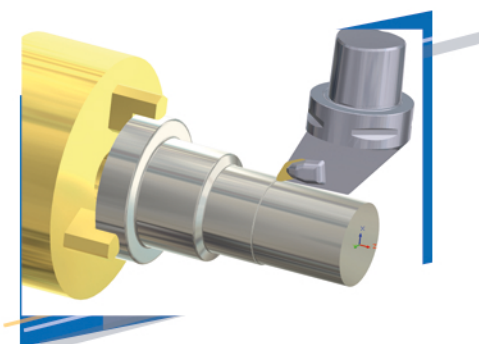## Smart Manufacturing Through Automation

CAMWorks for Solid Edge is a feature-based CAM system which uses cutting-edge automatic feature recognition technology to recognize machinable features automatically. Within seconds, machinable features on the Solid Edge model are recognized and added to the CAMWorks Feature Tree. Once the features have been identified, CAMWorks for Solid Edge uses Knowledge-Based Machining to automatically generate the operations and toolpaths for machining using the patented technology database or TechDB™. The TechDB™ allows users to capture the best practices of their CNC programmers and machinists, into a company owned database, and reuse them. The combination of both automatic feature recognition and knowledge-based machining reduces programming time by as much as 90%, reduces cycle time to increase production, promotes standardization, and improves quality.

☺ CAMWorks

Digital Transformation
with the Latest Technology

CAMWorks for Solid Edge offers state-of-the-art technology to optimize CNC programs and virtually prove-out CNC programs to reduce setup time. CAMWorks VoluMill is an ultra, high-speed rough milling technology that can reduce cycle time by 80% or more and extend tool life by as much as 400% when compared to conventional milling.

To dramatically reduce cycle time for turning operations, PrimeTurning™ by Sandvik Coromant is also available for CAMWorks for Solid Edge. Using PrimeTurning™, speeds and feeds can be increased by 2 to 3 times while insert life increases by 400% when compared to conventional turning.

CAMWorks Virtual Machine performs true G-code simulation to virtually prove-out CNC programs, avoid costly collisions and dramatically reduce setup time. CAMWorks Virtual Machine simulates all the components of a CNC machine, the fixture or work holding devices and the tools and tool holders, along with the finished part model and raw material or stock used for machining.

The technology in CAMWorks for Solid Edge can dramatically increase your production using your existing machines and workforce. No other integrated CAM system on the market offers more capabilities or faster return on investment to Solid Edge users than CAMWorks for Solid Edge.

Program Smarter, Machine Faster

Function	CAMWorks Lite	CAMWorks Plus	CAMWorks Standard	CAMWorks Milling Standard	CAMWorks Turning Standard	CAMWorks Milling Professional	CAMWorks Turning Professional	CAMWorks Premium	CAMWorks Bundle Add-Ons
2.5 Axis Milling Lite*	✓	✓	✓	✓	✓	✓	✓	✓	
Cimco Editor/DNC	✓	✓	✓	✓	✓	✓	✓	✓	
2.5 Axis VoluMill		✓	✓	✓	✓	✓	✓	✓	
Probing		✓	✓	✓	✓	✓	✓	✓	
4/5 Axis Indexing		✓	✓	✓	✓	✓	✓	✓	
Turning		✓	✓	✓	✓	✓	✓	✓	
3 Axis Milling - L1*			✓	✓	✓	✓	✓	✓	
Sub-Spindle			✓	✓	✓	✓	✓	✓	
Rotary Milling			✓	✓	✓	✓	✓	✓	
3 Axis Milling - L2*				✓		✓		✓	
Mill-Turn					✓	✓	✓	✓	
3 Axis Milling - L3*						✓		✓	
Synchronous Machining for Lathes							✓	✓	✓
Virtual Machine Standard							✓	✓	✓
4 Axis Milling (Add-On to Milling Pro only)								✓	✓
5 Axis Simultaneous								✓	

Products available as Bundle Add On

3 Axis VoluMill

Virtual Machine Professional

Virtual Machine Premium

PrimeTurning™

CAMWorks Utilities

Additional Product Options

Wire EDM

* 2.5 Axis Milling Lite includes automatic roughing, finishing, thread milling and single point (drilling, boring, reaming and tapping) cycles

* 3 Axis Milling L1 includes all 2.5 Axis Milling as well as Area Clear Roughing, Flat Area and Z-Level Finishing combined cycle for steep/shallow machining

* 3 Axis Milling L2 Includes all L1 functionality as well as Pattern Project, Constant Step, Pencil Milling, 3 Axis Rest Machining, Curve Project, and Legacy Rough & Finish Mill

* 3 Axis Milling L3 Includes L2 functionality as well as Multi-Axis Operations including Undercutting, Fillet Machining, and NURB Surface Machining

PrimeTurning™ is a Sandvik Coromant product.

About CAMWorks:

CAMWorks is an intuitive CAM software combining production-proven feature based CAM technology, automatic feature recognition, and rules based machining along with tolerance based machining to leverage MBD and PMI technology to automate Smart Manufacturing for CNC programming–paving the way to advanced digital manufacturing. For more details, please visit www.camworks.com or contact us camworks.inquiries@hcl.com