IMSverify™
The Solid Alternative

Overview 概述

Complex machining operations and multi-axis machines increase the risk for programming errors which can result in incorrect or incomplete material removal, interference between machine components and fixtures, and damage to the part and/or the machine.

复杂的加工操作和多轴机床的使用增加了：由于编程错误，而导致的不正确或不完整的材料切除；机床各组件与卡具装置之间的干涉；以及对工件和/或机器造成损坏的风险。

Verify G-code, not APT - 验证 G 代码，而不是 APT 文件

IMSverify provides a unique NC verification solution for checking the postprocessed code that will run on the machine – not simply the APT or CL file verified within the CAM system.

IMSverify 对将在机床上加工运行的、经后置处理产生的代码程序，提供了独特的数控验证检查的解决方案 – 而不是简单地在 CAM 系统内对 APT 或 CL 的文件进行查验。

Verification of the actual G-code that will run on the machine provides you with complete confidence that the part will be cut correctly.

对将在机床上加工、运行的实际 G 代码的验证确认，为你提供了完整的信心，工件将得到正确加工。

## Solids-Based Material Removal 以实体为基础的材料切削

True solids-based simulation provides for the most accurate verification of material removal.   Import stock and fixture information as solids from your CAM system, and save the resulting parts from the simulation as solids as in-process stock, or for comparison to the original design data.

真正的以实体为基础的仿真提供了最准确的材料去除验证。从你的 **CAM** 系统中导入毛坯和工装夹具的实体，仿真过程中的结果也保存为实体，作为进程中的中间毛坯，或作为与原始设计零件数据的比对。

# Optional Integration with IMSpost 作为选项与 IMS 后置产品集成

If you're also using IMSpost simultaneously view the CAM system data (APT), G-code from the postprocessor, material removal and machine simulation in a single, intuitive interface.

如果你还同时使用 **IMSpost** 查看 **CAM** 系统的 **APT** 数据，那么，后处理程序中得到 **G** 代码、材料去除和机床的仿真将在一个单一的、直观的界面上进行。
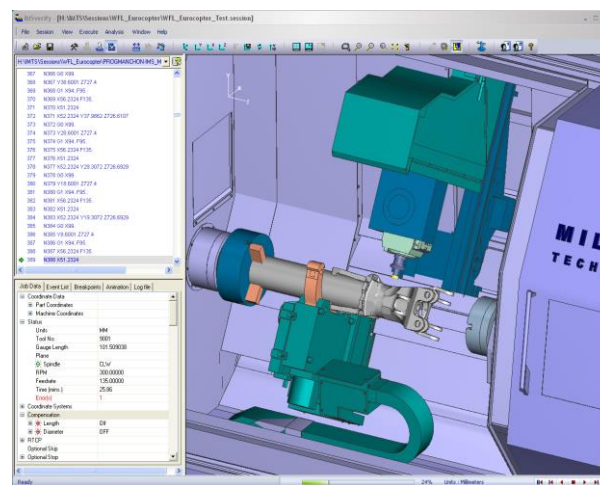
IMSverify 2011 provides machine simulation with collision detection for all types of machine configurations – milling, turning and mill/turn.

IMSverify 2011 能为所有类型的数控机床：铣削、车削、车 / 铣复合机床，均提供碰撞检测的仿真
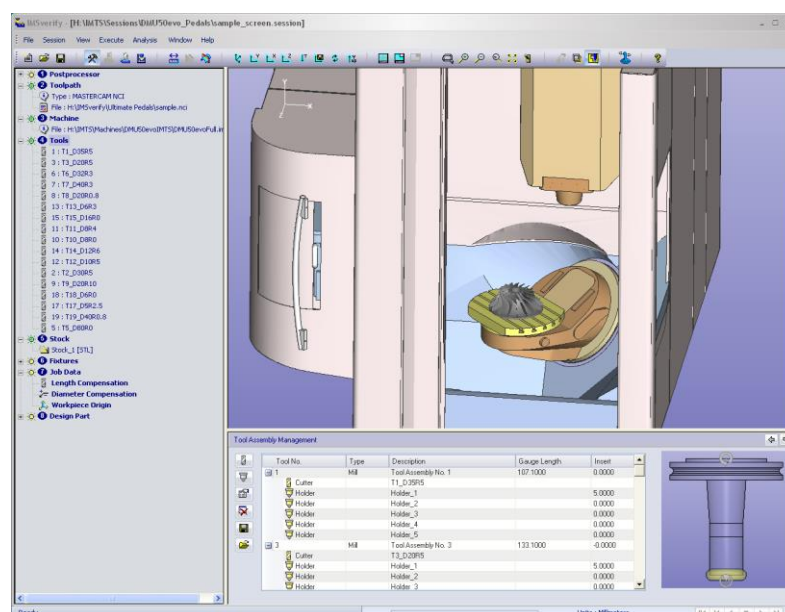
CNC Verification and Machine Simulation 数控验证和加工仿真

IMSverify is a unique analysis tool for testing and analyzing every facet of your CNC code.   Step through the process and see exactly what's happening, and precisely how to address any issues using:

IMSverify 是一个测试和分析你的数控代码的每一方面内容的独特分析工具。通过这一过程，然后看看究竟发生了什么，以及通过使用以下方法，如何准确地解决任何问题。

- Breakpoints (at specific blocks, tool changes, user-defined conditions)
  断点（在特定的程序行，换刀位置，或用户定义的条件）
- Dynamic rotation, pan & zoom while cutting
  切削过程中动态旋转，平移和缩放
- Synchronized APT, G-code and material removal
  同步 APT，G 代码和材料去除
- Full multiaxis support, including RTCP and working planes
  完整的多轴支持，包括 RTCP 和工作平面
- Detailed representation of tool, tool holder, stock, clamps and fixtures
  详细再现刀具，刀柄，毛坯，夹具和固定装置
- Solids-based material removal with advanced visualization, including realistic shading and user control of color, transparency and error highlighting
  实体为基础的先进的可视材料去除，包括实际的阴影和用户的颜色，透明度和差错警示
- Full machine simulation including clash detection
  包括碰撞检测在内的完整的机器模拟
- Complete mill-turn support including synchronization of multi-channel controls
  完全车/铣复合的支持，包括同步的多通道控制

Plus, the same postprocessor development technology used in IMSpost allows for complete customization of the controller emulator in IMSverify, to support every feature of your CNC control.
另外，使用 IMSpost 同样的后处理器开发技术，在 IMSverify 上允许完全自定义的控制系统的仿真器，支持你数控控制的每项功能。

Virtual CNC Controller 虚拟 CNC 控制管理器

The virtual CNC controller pioneered in IMSpost is at the heart of IMSverify.   Complete analysis of the machine code provides a true picture of the tool motion.

率先在 IMSpost 推出的虚拟数控控制管理器是 IMSverify 的核心。完整的加工代码分析提供了刀具运动的真实写照。

IMSverify includes support for all controller functions, including:

IMSverify 包括支持所有控制器的功能，包括：

- Cutter compensation (2D & 3D) 刀具补偿（二维和三维）
- Tool length compensation 刀具长度补偿
- Rotary axis pivot points 旋转轴支点
- Controller subroutines 控制器子程序
- Controller variables and expressions 控制器变量和表达式
- Canned cycles 固定循环
- Working planes 工作平面

The virtual controller provides support for NC controls from all major manufacturers, including:

虚拟控制管理器提供对所有主要机床设备制造厂家的控制系统的支持，包括：

A-B	K&T
BOSCH	MAZAK
CINCINNATTI	NUM
EVOLUTION	OKUMA
FADAL	SELCA
FANUC	SHARNOA
FIDIA	SIEMENS
GE	TOSHIBA
G&L	YASNAC
HEIDENHAIN	*and others*

Compatibility 兼容性

IMSverify™ is compatible with all major CAD/CAM systems:
IMSverify™同所有主要的 CAN/CAM 系统兼容

ADRA	Houtzel APT

AUTON	I-DEAS
BihlerCAT	INTERCIM
CADDS	INTERGRAPH
CAMAX	MASTERCAM
CATIA V4/V5/V6	MetalCAM
CIMATRON	Pro/ENGINEER
DELCAM	SURFCAM
DUCT	UNIGRAPHICS
EDGECAM	VX
EUCLID	WORKNC
GibbsCAM	*and others*

An Architecture Optimized for CNC
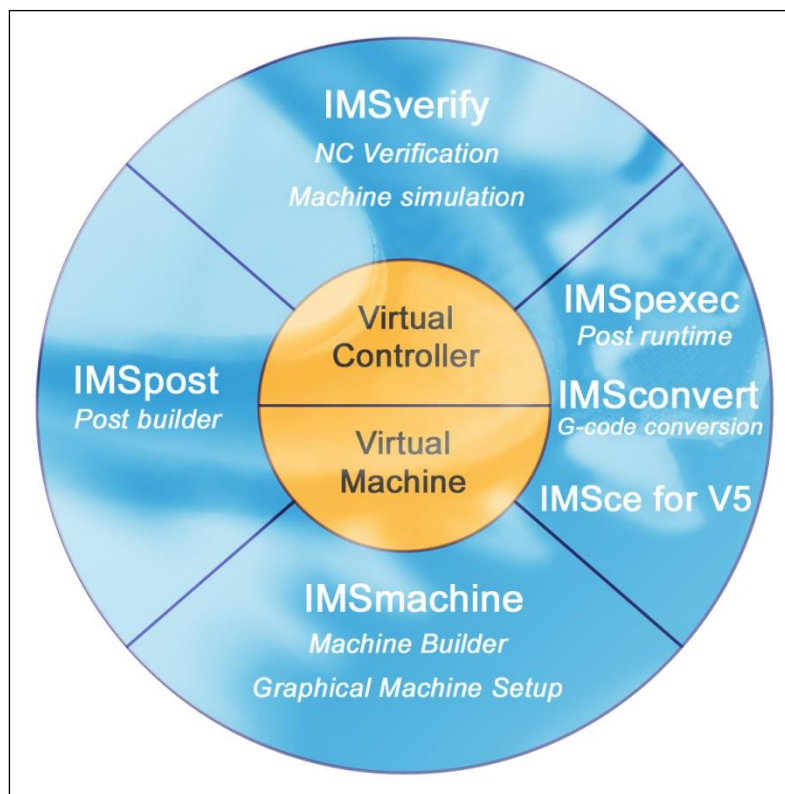
Supported Platforms 操作系统

- Intel/AMD 64-bit computers with Windows 7/8/10

Related Products 相关产品

IMSpost™

IMSpost™, the worlds most advanced postprocessing software, transforms CAD/CAM cutter location (Clfiles) into the specific machine codes (G/M codes) required by NC machines. IMSpost works seamlessly with all major CAD/CAM systems, hardware platforms, and NC machines, in one easy to use interface.

IMSpost™，世界上最先进的后处理专业软件，将 CAD / CAM 中产生的刀位文件（Clfiles）转换为数控机床所需要的、特定的（G/ M 代码）代码程序；IMSpost 能在一个易于使用的界面，同所有主要的 CAD / CAM 系统、硬件平台及数控机床之间无缝地工作。

IMSce™ for V5/V6

Controller emulation capability for CNC verification and simulation integrated within CATIA V5/V6.

加工仿真器能提供与 **CATIA V5/V6** 集成的验证和仿真的功能

www.ims-software.com