CAMWorks Turning

CAMWorks®
An HCL Technologies Product
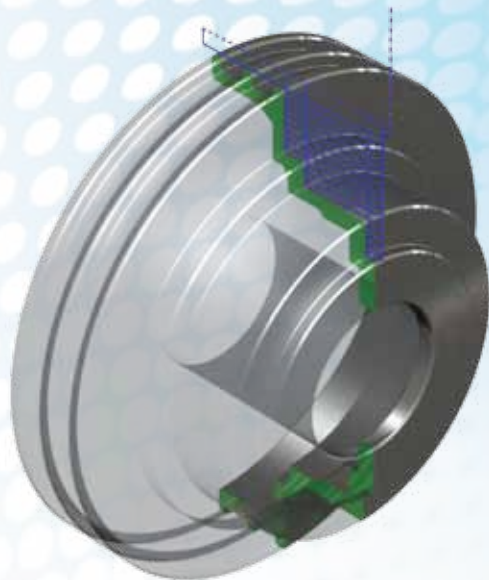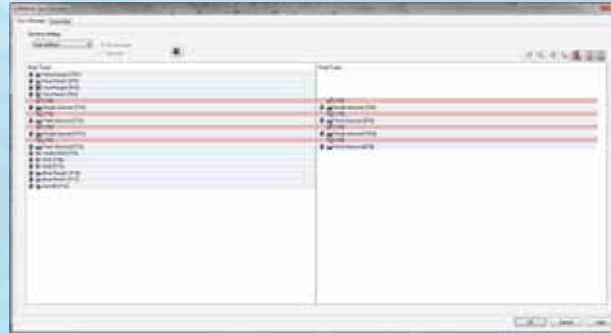
- **Automatic Feature Recognition (AFR)** automatically recognizes machinable turned features on native SolidWorks part models or on solid models imported via IGES, SAT, etc. Feature based machining reduces programing time by as much as 90% compared to traditional CAM software.

- **Interactive Feature Recognition (IFR)** provides an intuitive and easy to use wizard interface for inserting user defined features.

- **Full Model to toolpath associativity** automatically updates the toolpaths and CAM data to design changes made to the model.

- **Seamlessly integrated** inside of SolidWorks means that the design model and CAM model are one in the same and a similar interface with the same intuitive menus, toolbars and view
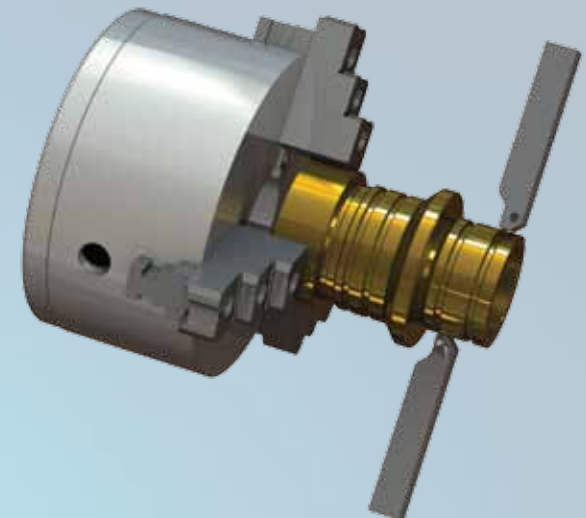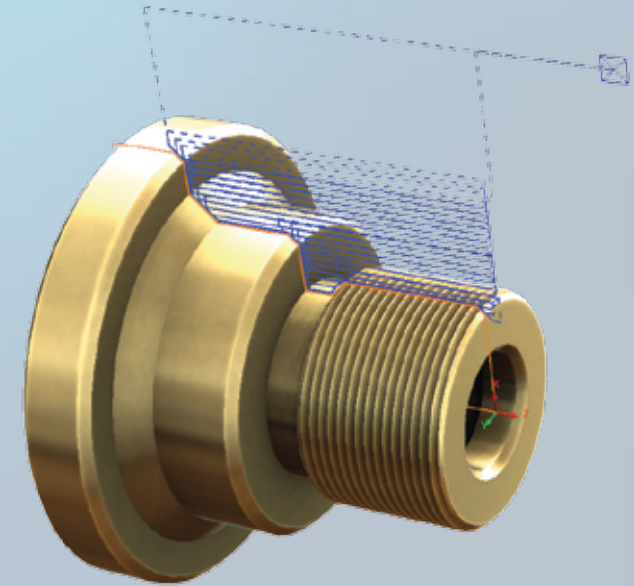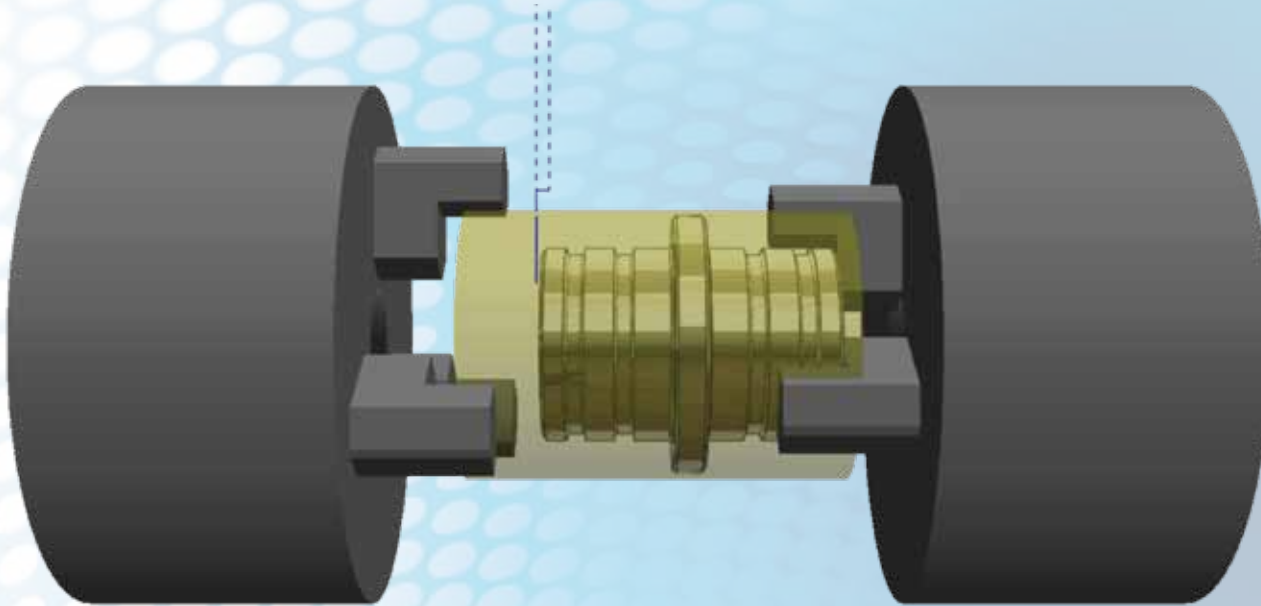

manipulation, allows users to quickly master the software.

- **Knowledge-based machining** allows you to capture and reuse your programmers' and machinists' best practices using the Technology Database, reducing programming time by as much as 80% and provides a company owned database to store employee knowledge and skill.

- **New Synch Manager*** provides an easy interface for synchronizing tools on both front and rear turrets for simultaneous machining on either the main or sub-spindle, or both spindles.

- **New Sub-Spindle Operation Builder*** for easy sub-spindle or tailstock positioning. Custom sub-spindle operations can be created, modified and saved for later use.

- **2 and 4 Axis Turning** Includes automatic roughing, finishing, grooving, threading, cutoff and single point (drilling, boring, reaming, tapping) cycles.

- **Accurate, first-time right machining** The CAMWorks cutting cycles provide fast, error-free toolpaths to insure first-time right programs that

reduce setup time and cycle times for single turret and dual turret lathes.

- **Cutter compensation support** for Turn, Face and Bore Rough operations with canned cycles including Turn, Face, Bore and Groove Finish operations; and Cutoff.

- **Canned Cycle support** for drilling, rough OD/ID turning and facing operations, OD/ID threading canned cycles, and more.

- **Gang tool support** for tool holders with sub-stations, includes multiple tool offset support and custom tool graphics support for accurate simulation and verification of toolpath.

- **Stock Manager** Define stock automatically, using a bounding cylinder and easily allow users to add stock, define stock using a revolved sketch, 2D WIP (Work in Process) file or from an STL file to support of castings and forgings as stock.

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- **User defined inserts and tool holders** allows users to build custom tools and CAMWorks simulation also provides full toolpath simulation and collision detection support for custom, user defined tools, including gang tools.

- **Updated Step-through toolpath manager** for easy display and step through of toolpath including synchronous operations with rear and front turrets.

- **Realistic Simulation display** including Main and Sub-Spindle operations (Transfer, Sub spindle clamping, etc.) Metallic materials with feed control and the ability to simulate section views are included.

- **Post Processor support** for all major machines including two and four axis support for either single or dual turret lathes, as well as multiple spindle support for sub-spindle machines.

Advanced Multi-Function license required.