

HCLSoftware

Simplify Swiss Machining with HCL CAMWorks

HCL CAMWorks

Swiss CNC machines are ideal for producing small, high-precision parts by performing multiple milling and turning operations simultaneously, but programming for these machines can be challenging and complex. HCL CAMWorks provides a user-friendly approach and powerful automation technologies to streamline and accelerate Swiss Machine programming. Swiss Machining functionality is available in HCL CAMWorks Turning Premium and Ultimate products.

Faster Programming with Seamless Integration

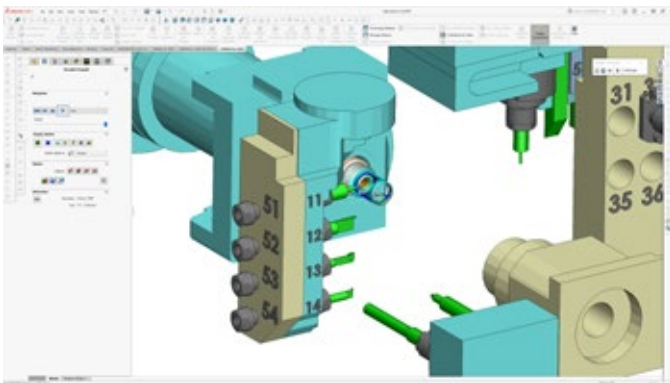
HCL CAMWorks is fully integrated with SOLIDWORKS, so all the CAD and CAM data is saved in a single file, and machining toolpaths automatically update to any design changes.

Increased Accuracy with Machine-Aware Programming

With the ability to program parts on a digital twin of the Swiss machine, all tools and full setups can be visualized during the programming process, with machine-based toolpath simulation.

Reliable Results with TechDB™

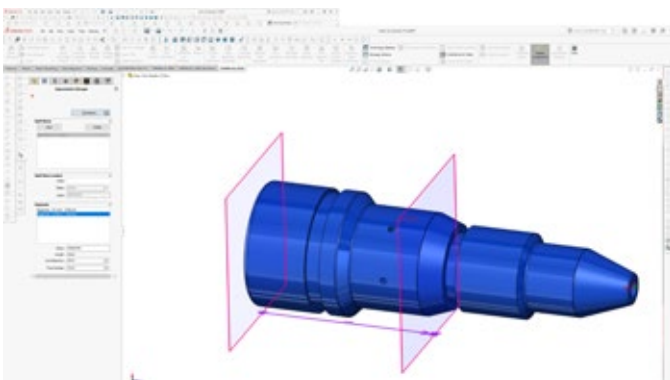
HCL CAMWorks Technology Database or TechDB™ saves user-defined programming preferences to re-use in subsequent part programs, saving significant amounts of time and maintaining programming consistency.



Synchronization of CNC Machine Components

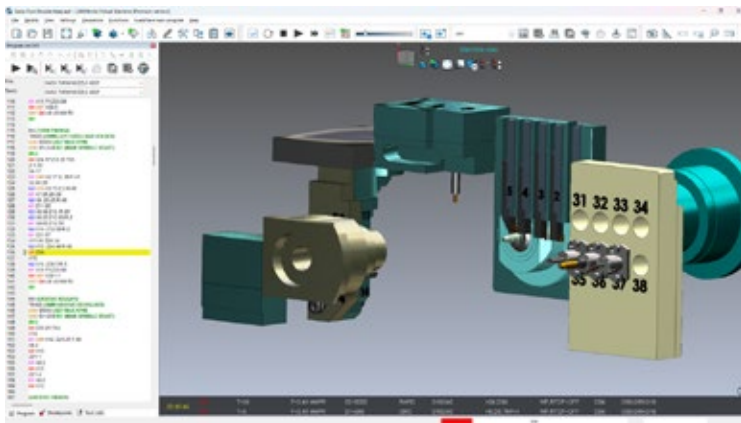
Industry-standard Swiss machine types and configurations are supported.

- Main and sub-spindle, plus gang slide, turret, end working and back working tool posts
- Each tool post supports tool groups and multi-station tool blocks
- B-Axis rotary attachment



Innovative Segmentation Manager

- Automation for long parts machining where features must be divided into smaller toolpaths
- User-defined part segments for machining, which can be of various lengths
- Once split planes are defined, toolpaths can be split with one click
- Operations and toolpaths will update automatically if segments are changed
- Supports overlap for machining, such as threads or surface finishing

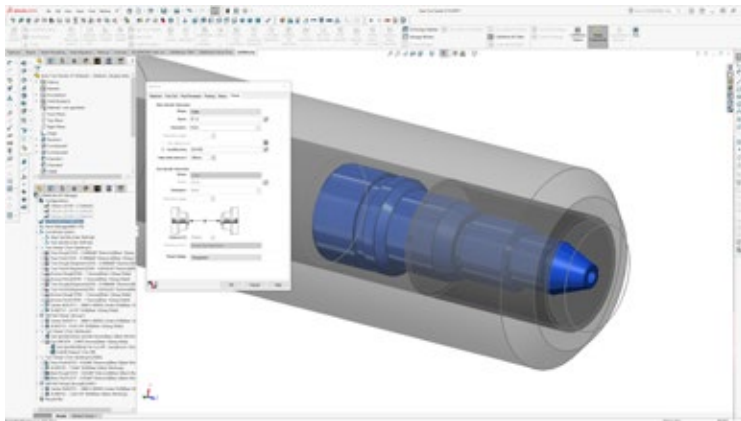


True G-Code Simulation with Virtual Machine

- Proves out part programs with true G-code machine simulation
- Eliminates dry-runs, avoids collisions and extends machine life

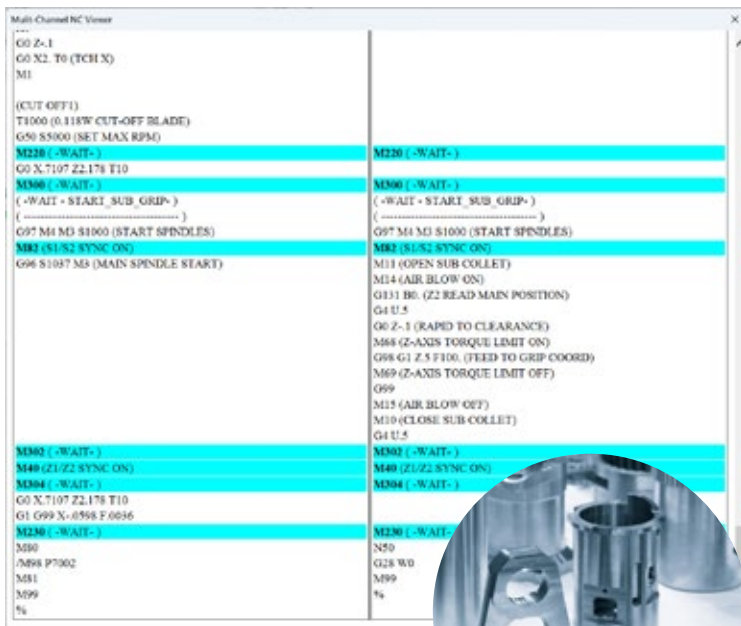
Machine Fixtures for Swiss Machining

- Main collet and sub-spindle collets
- Collet housing
- Cutoff sequence
- Sliding head settings
- Re-chucking for long parts
- Guide bushing



Folders for Data Management

- Create and name folders to easily organize data in tree views
- Folders for operations, tools, and features
- Ability to easily drag and drop items
- Manages data for segments



Synchronized Display of NC Code

- Allows full visualization of sync codes in the NC program to ensure accuracy
- Sync codes are built into each HCL CAMWorks post-processor to allow seamless use of the viewer
- Supports sync code syntax, including Siemens, Fanuc and Mitsubishi controllers

Post Processors and Machine Models

- HCL CAMWorks supports top Swiss machine brands



For more information:

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About HCLSoftware

HCLSoftware is a global leader in software innovation and the software division of HCLTech. We develop, market, sell, and support transformative solutions across business and industry, intelligent operations, total experience, data and analytics, and cybersecurity. We deliver best-in-class software products that empower organizations to achieve their goals. HCLSoftware serves more than 20,000 organizations, including a majority of the Fortune 100 and almost half of the Fortune 500.