NX CAM Embedded Client for NC Data Management

Benefits
- Provide fast, easy and effective access to the correct CAM data
- Save time and reduce errors
- Capture and re-use proven methods
- Increase productivity
- Improve process repeatability and quality
- Encourage use of standard, approved resources
- Improve utilization of existing assets
- Increase NC programmer and manufacturing planning team throughput
- Produce faster, more accurate and complete documentation
- Facilitate better integration and coordination between multiple manufacturing disciplines

Features
- Leverage data and process management capabilities designed especially for CAM users
- Automatically capture CAM output data for the manufacturing process plan
- Implement revision control
- Route work tasks and associated data

Summary
The NX™ CAM Embedded Client provides integration between NX CAM software and Teamcenter® software's manufacturing process management solution.This integration enables you to leverage a manufacturing process based environment in which NX CAM users are able to manage NC programming data. Your connection to the Temcenter managed environment replaces user directories on local disc drives and addresses issues such as where and how NC programming data is stored. Programmers are able to save and retrieve the correct configuration of data for a job, including part information, set-up and tooling data, as well as any existing NC output.

Easily manage and organize NC programming files and related data
You can enhance your NX environment by leveraging the Teamcenter manufacturing process management solution to seamlessly manage, control and protect your NX data. The NX CAM Embedded Client ensures that the complex set of data required and created by a CAM session is stored in an easily retrievable manner. This approach sharply contrasts with procedures that require a user to retain data in complex directory structures on the standard operating system of a local or networked PC. It ensures that the right data, the correct tool and the right NC 'tape' or machine file that matches the required part are deployed, resulting in fewer delays and less cost incurred because of typical information errors.

Essential tool for the NC programmer
NC programmers can employ the NX CAM user interface to directly access live manufacturing information, including check-in/check-out, maturity status, revision, where-used, what's changed, project assignments, tool libraries, process templates and more.

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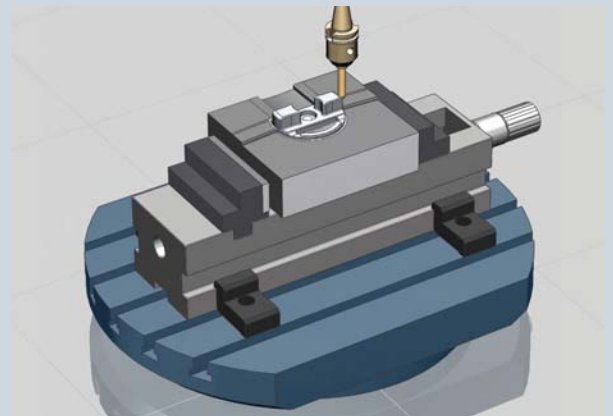
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Features *continued*
- Access tooling and fixture libraries
- Re-use machining process templates
- Directly connect manufacturing data to the shop floor

Managing data
You can manage and store NX CAM data elements, such as setup templates, CLS files, postprocessor output files and shop documentation within a defined information structure. You can use the CAM Data Manager to automatically save CAM data, such as post-processed file and shop documentation, as attachments to the master NC process plan.

You can access current part models and related design data necessary for NC programming. All data is under revision and change control. You can use the NX CAM Embedded Client to perform design change impact analyses whenever design changes are proposed.

You can find information quickly by performing comprehensive queries, such as where-used searches.

Process management
You can use the NX CAM Embedded Client to improve communications, reduce errors and accelerate time-to-market by connecting the work activities of your manufacturing engineering, tool design and NC programming teams. Workflow management capabilities enable you to manage product change, enforce company-specific business rules and efficiently execute your automated production-related processes.
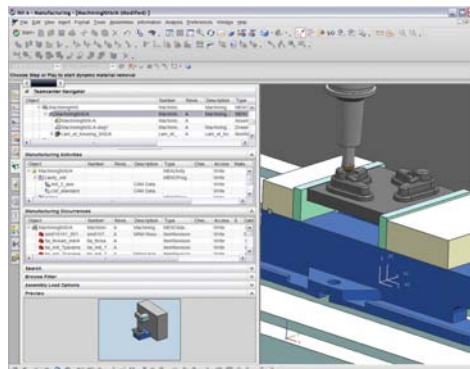

Use Teamcenter navigation capabilities to manage NC programs and related files directly within NX CAM.

You can control data access by allowing only authorized users to view and edit files. This saves time and avoids the errors that can occur when data is inappropriately modified, moved or deleted.

Resource library
You can use the NX CAM Embedded Client to access shared libraries that include tools, tool assemblies, fixtures and more. Library data is conveniently classified via Teamcenter so that it can be searched,
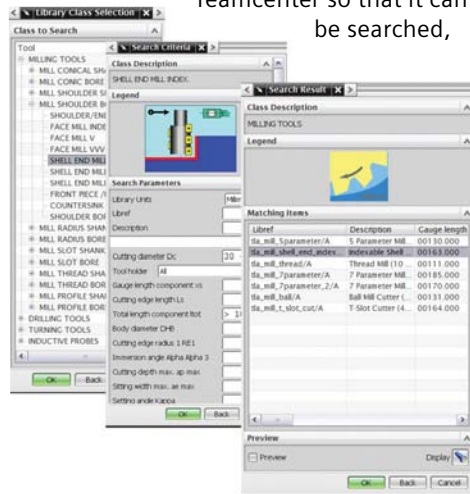
Search for tooling resources directly within NX CAM.

retrieved and applied directly from within the NX CAM session.

Capturing and re-using best practices
You can reduce the time and costs it takes you to re-establish proven machining methods by capturing and re-using CAM operation set-ups and machining processes in a library of best-practice templates.

Multi-CAD support
You can enable manufacturing teams to work with part design data from any major CAD system. Teamcenter automatically manages both native and neutral CAD representations, eliminating unnecessary delays caused by constant data translation.

Integration with process planning
For optimal part manufacturing efficiency, plan data and processes must be properly managed and connected in an environment that all players in the manufacturing organization can access to find information.

The Teamcenter manufacturing process management solution provides a part planning capability that defines and communicates the manufacturing sequence, thereby automatically linking the CAM operation data from NX CAM Embedded Client to appropriate process steps.

Connecting planning data to production
You can transfer plan data directly to CNC machines by connecting the Teamcenter manufacturing process management solution and DCN (Direct Numerical Control).

You can also synchronize manufacturing planning resources with shop floor resources, thereby ensuring that instructions are kept consistent with production practices.