

Resource Manager

Provide the right people with the right data to improve the part manufacturing planning process

fact sheet

Siemens PLM Software

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► Summary

Teamcenter® software's manufacturing process management solution provides a Resource Manager application that enables you to manage a wide range of manufacturing resource data, including everything from cutting tools, machine tools and fixtures to robots, welding guns and manufacturing process templates. Resource Manager allows you to define a comprehensive structure under which data can be classified; it also enables you to conduct parametric search queries to retrieve the data. Users are able to retrieve data from Resource Manager and directly use this information in Teamcenter and NX™ CAM sessions. In addition, Resource Manager can be configured as a standalone library system.

Benefits

- Re-use proven processes and resources
- Save time looking for resource data
- Encourage use of standard resources and methods
- Reduce inventory and costs
- Easily prepare shop documentation such as tooling set-up sheets
- Avoid duplication of resource data
- Visually identify resource data through 2D/3D graphics
- Improve utilization of manufacturing assets

Business challenges

- Too much duplicated effort
- Multiple databases of standard parts
- Excess inventory
- High planning and manufacturing costs
- Long product planning cycles
- Product and process quality
- Difficulty working with geographically dispersed teams

Resource Manager provides a common environment that allows easy access to a library of manufacturing resources. The task of finding the right data when it's needed is simplified with a tailor-made classification structure that facilitates graphical viewing, a wide array of search features and version control management. The 3D graphics display makes it much easier to ensure that you have the right resource than reading through text records. Proven methods can be captured and re-used, resulting in higher levels of productivity, improved process repeatability and quality.

Building resources

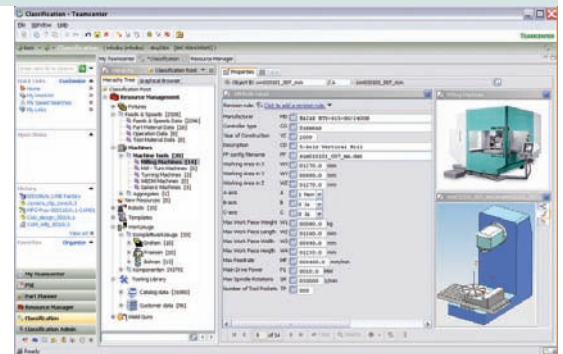
You can use Resource Manager to create, edit, classify and search your own resource assemblies. You can include resources such as cutting tools, fixtures, machine tools, gauges, robots, welding guns and manufacturing process templates. The system guides you through the process of building proper tool assemblies by automatically filtering for workable tool component configurations that properly fit together.

You can leverage Resource Manager to extend the BOM structure of resources such as tool assemblies by appending type, tool gauge lengths and setup information.

Accessing manufacturing resources

Resource Manager enables you to gain easy access to a library of manufacturing resources. You can find the right data with a tailor-made classification structure that provides graphical viewing, a wide array of search features and version control management. The built-in viewer makes it much easier to ensure that you have the right resource than reading through text records.

Resource Managers enables you to share resources with multiple sites, as well as control user access to specific groups, classes and resources.



Classifying and organizing resources with Resource Manager.

Features

Shared repository for resource data useful in NC programming, CAD tool design, CMM, simulation and process planning

Comprehensive user definable classification structures

Rapidly build resource assemblies and subassemblies using guided component search

Ability to incorporate standard libraries

Parametric search engine

Integrated 2D/3D viewer

Integration with NX CAM

Flexible reporting

XML import/export

Classification structure

Resources are classified using Teamcenter's Classification technology. Resources include classification information that can be organized in a hierarchical structure.

Classes are defined by name and a set of attributes.

Attributes are the characteristics of the objects the class represents. For example, a class might include physical characteristics such as length, cutting diameter, weight, vendor and material.

Search engine

Searches can be performed within a class or subclass using all attributes. Wildcards or ranges can also be used as search criteria.

2D and 3D visualization

You can visualize resource assemblies or components with the built-in viewer using a variety of formats (bitmaps, vector graphics, 3D models). For 3D data in JT format, you can rotate, zoom, measure, cross-section or capture an image in the viewer.

Integrating manufacturing planning applications

You can search for tooling, fixtures, machines and templates managed by the Resource Manager directly within NX CAM and Teamcenter's Part Planner application (which is provided through its manufacturing process management solution). You also can associate the resources to process plans and manufacturing operations.

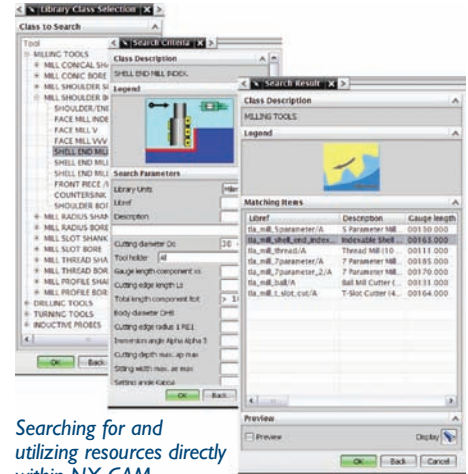
Because all of the manufacturing planning data is managed by a common system, you can perform queries on where specific resources are used, such as: *In which NC programs are a specific cutting tool used? Which tool assemblies contain a specific tool component?*

Connecting tool libraries to shop floor systems

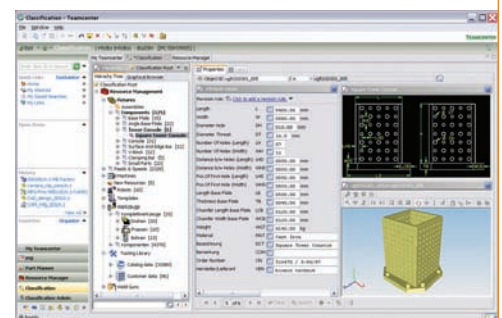
You can ensure that manufacturing instructions are kept consistent with production practices by standardizing manufacturing planning resources in Resources Manager with those on the shop floor in the tool management system.

Available add-on content

The Manufacturing Tooling Library contains more than 30,000 cutting tool components provided as classified content (Sandvik, Kennametal, Walter, Titex). This library is available as an add-on to Resource Manager.



Searching for and utilizing resources directly within NX CAM.



Classifying a fixture in Resource Manager.

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