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Teamcenter Manufacturing Tooling Library

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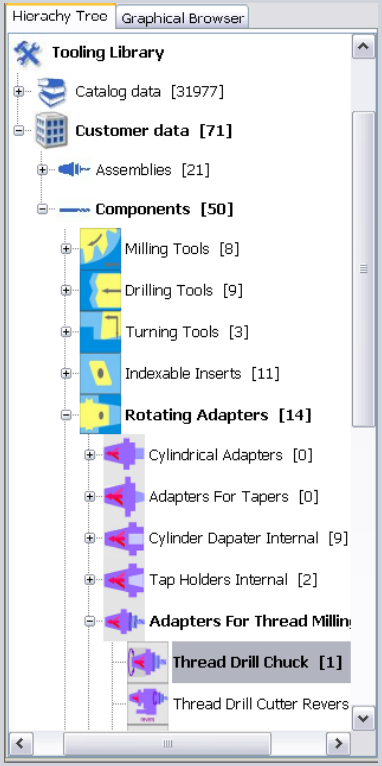
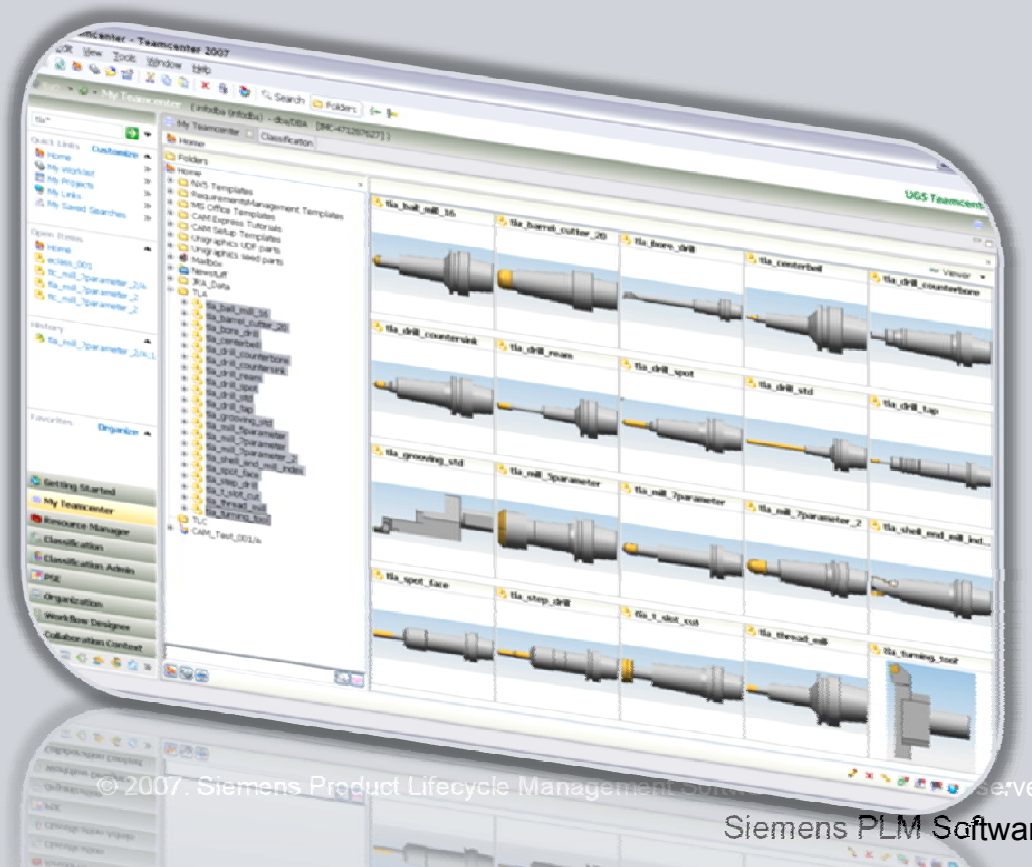
Tom van ‘t Erve
Director NX CAM Development

June 2008

Agenda

- What is Teamcenter Classification
- What is Teamcenter Resource Manager
- The Partnership with TDM Systems





Teamcenter Classification User Interface

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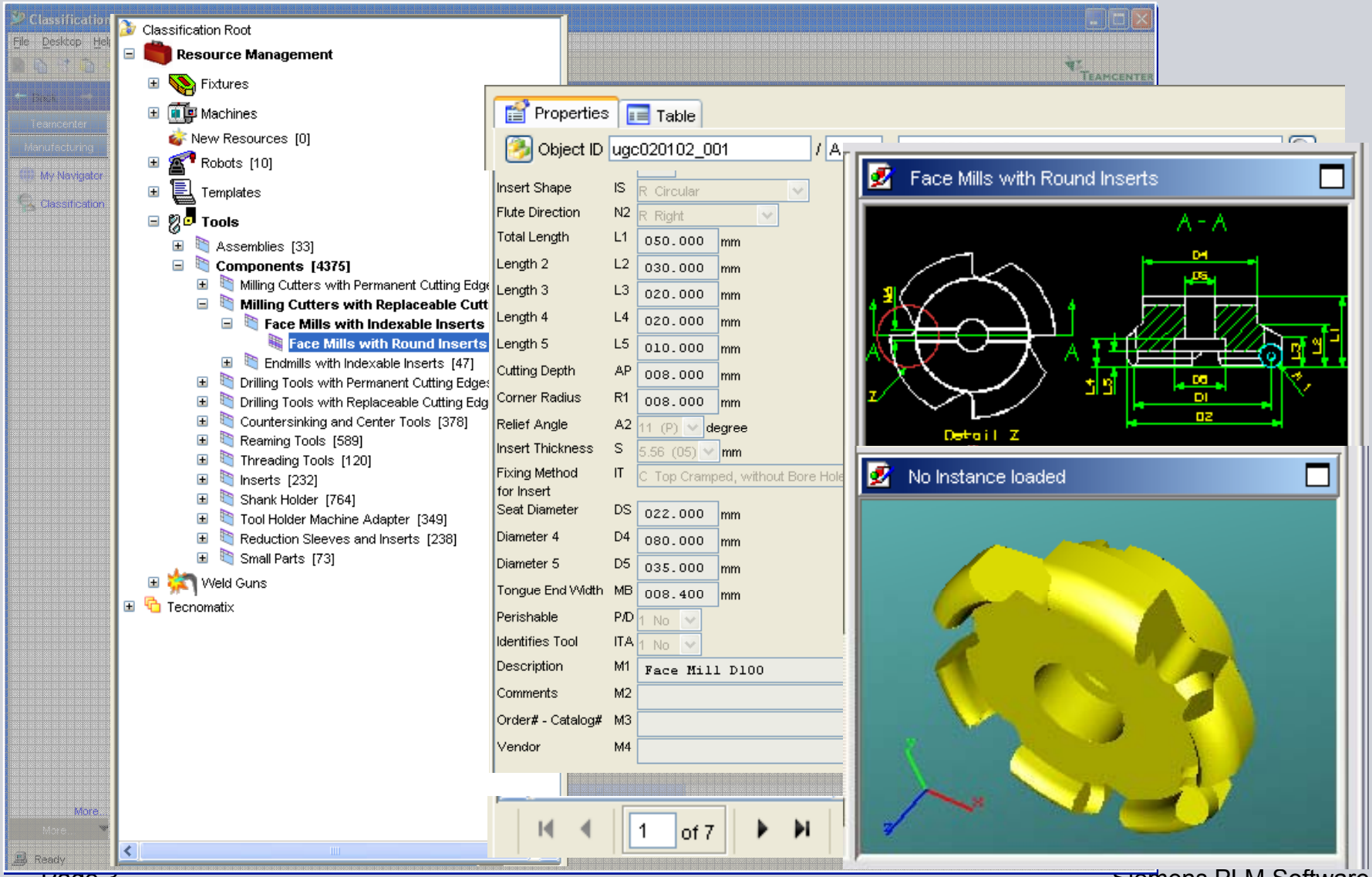

Teamcenter Classification
Search Capabilities

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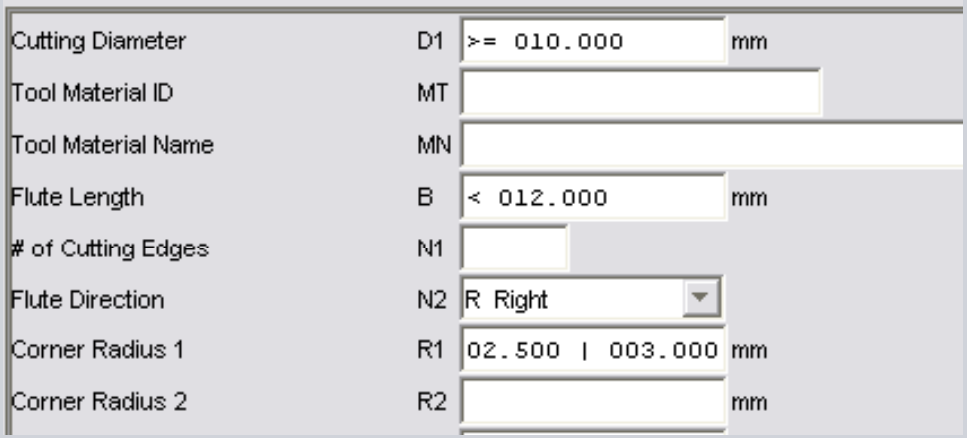
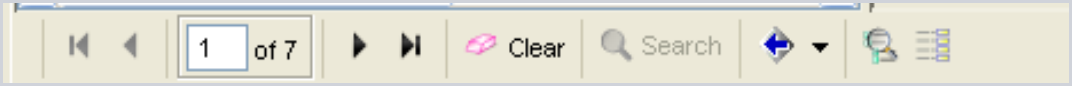
- Searches are performed within the scope of a class
- The values for the search criteria are specified in the form
- All Attributes can be used for search
- As many attributes as necessary can be used in one query (automatically combined by AND)
- Supported search criteria
  - Equal, not-equal, larger than, smaller than, etc.
  - Range
  - Wildcard (* _)
  - And (&)
  - Or (|)





Classification Administration
Class definition (details, attributes & access control)

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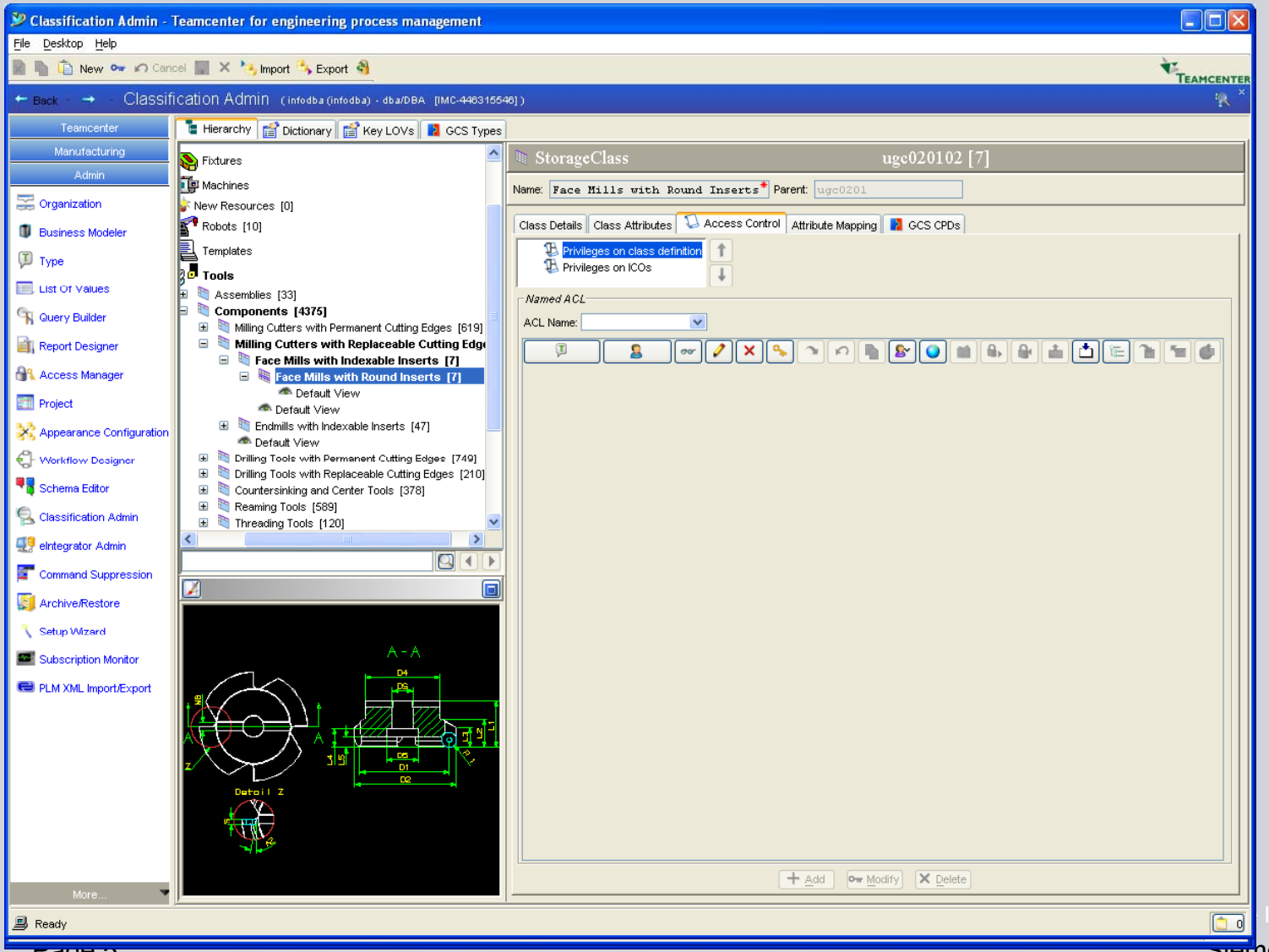

Classification Administration
View definition

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- Views are used to configure the access to the class they belong to
- This can be used to
  - Hide attributes
  - Protect attributes
  - Reorder attributes
  - Enforce input of values for specific attributes

- The following types are currently supported
  - User-specific
  - Group-specific
  - Global (default view)

Classification Administration
View definition

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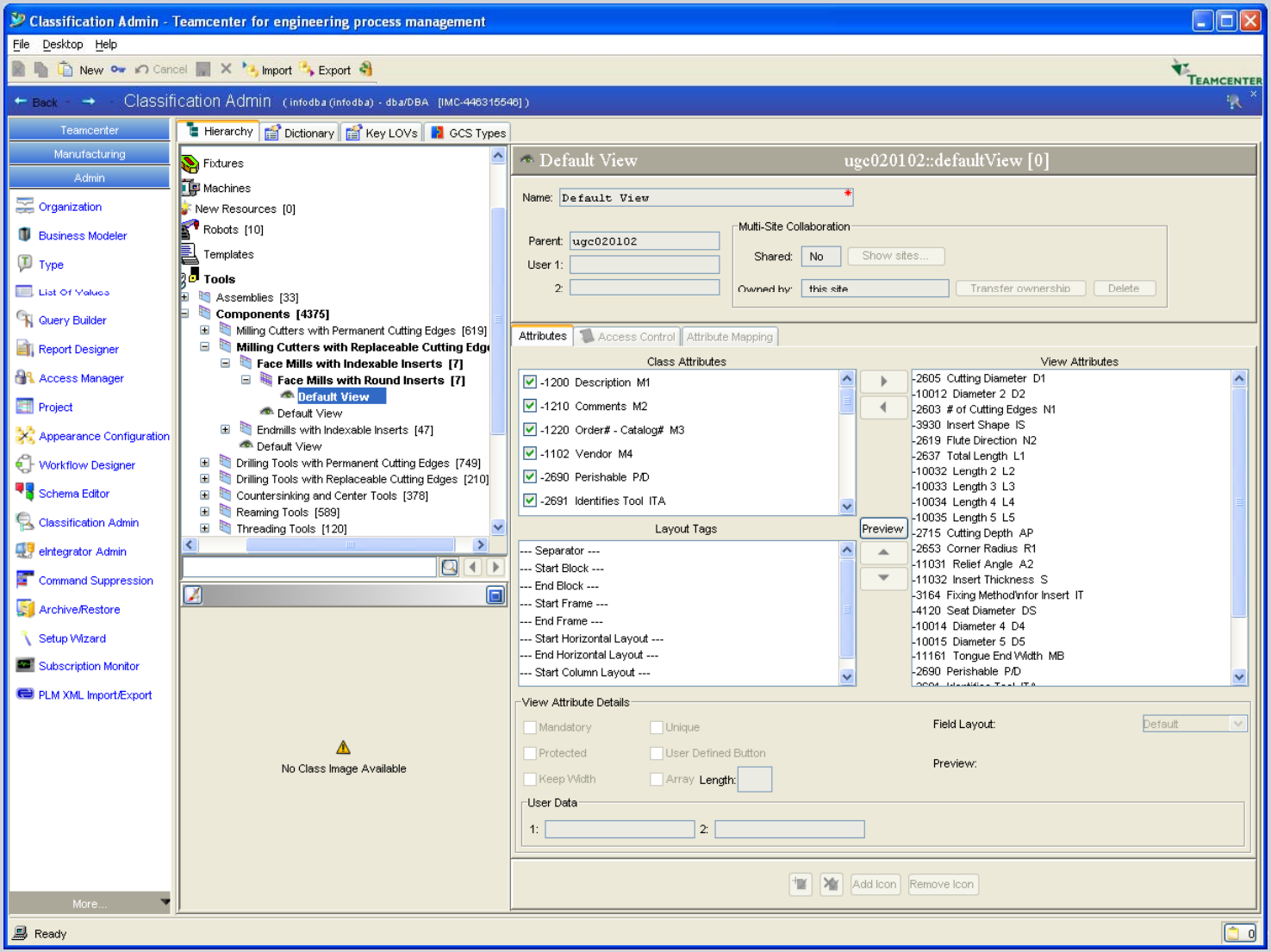

Resource Management
Build Tool Assemblies

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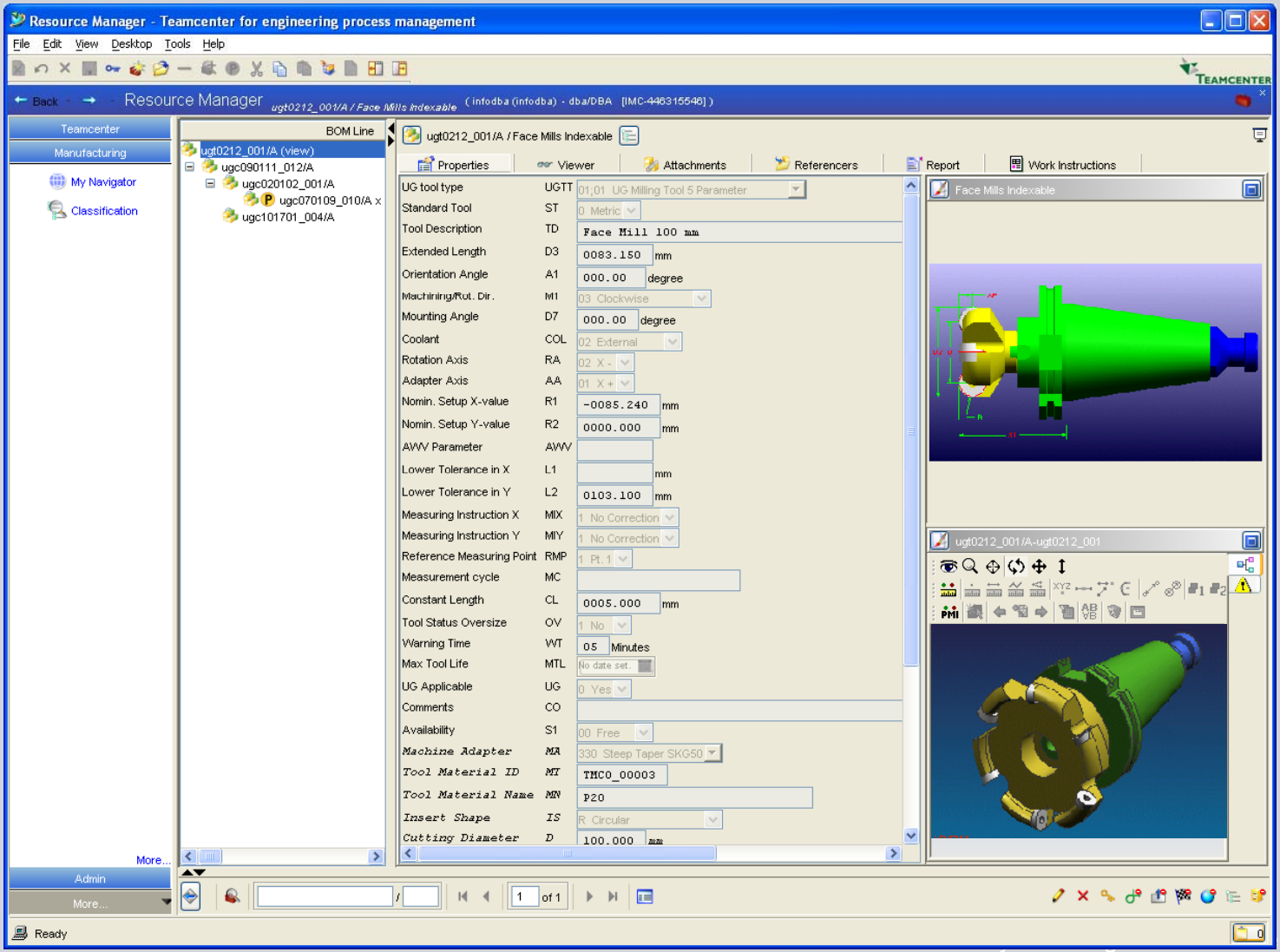

Resource Manager
Working with Resource Structures

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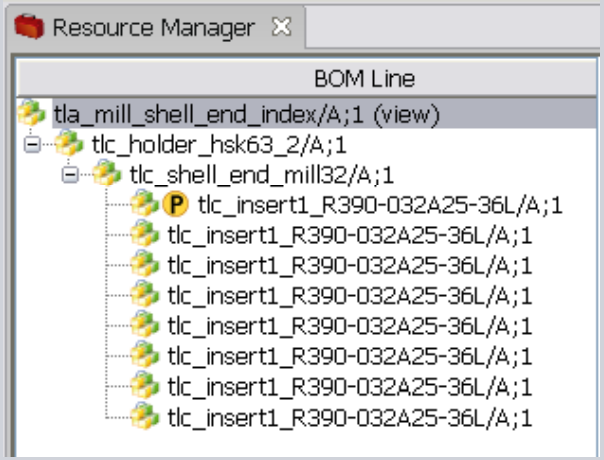
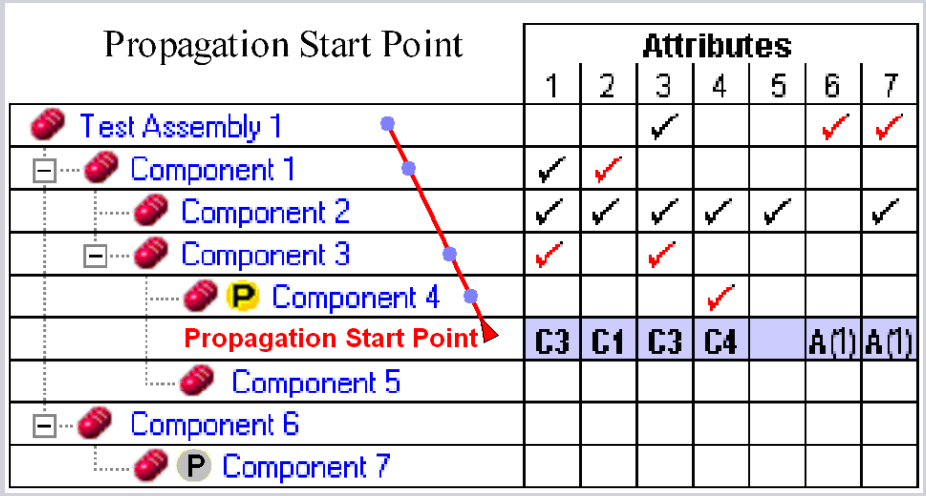
- Create a new manufacturing resource
- Classify the resource assembly
- Build the assembly hierarchy by adding components to your resource assembly
- Position and align the resource assembly components
- Add attributes to the assembly
- Create and delete propagation start points





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The Partnership with TDM Systems

Teamcenter Resource Manager
Manufacturing Tooling Library

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Key Features

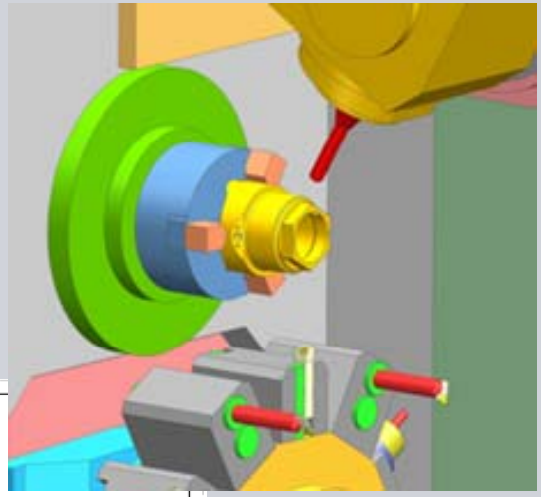
- ✓ OOTB Cutting Tool Library in Resource Manager
- ✓ ANSI, ISO and DIN cutting tool standards
- ✓ Full catalog and classification hierarchy
- ✓ Easy access to tool vendor catalogs

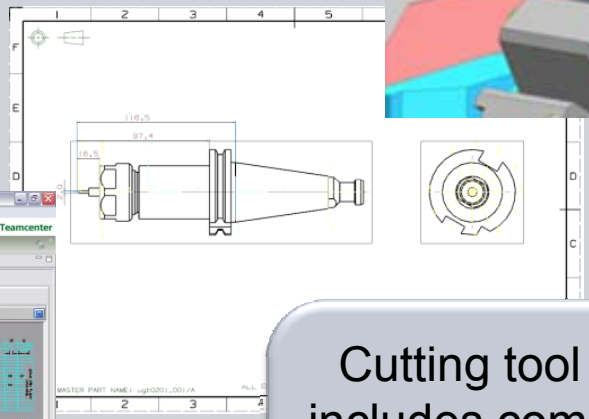
Sandvik

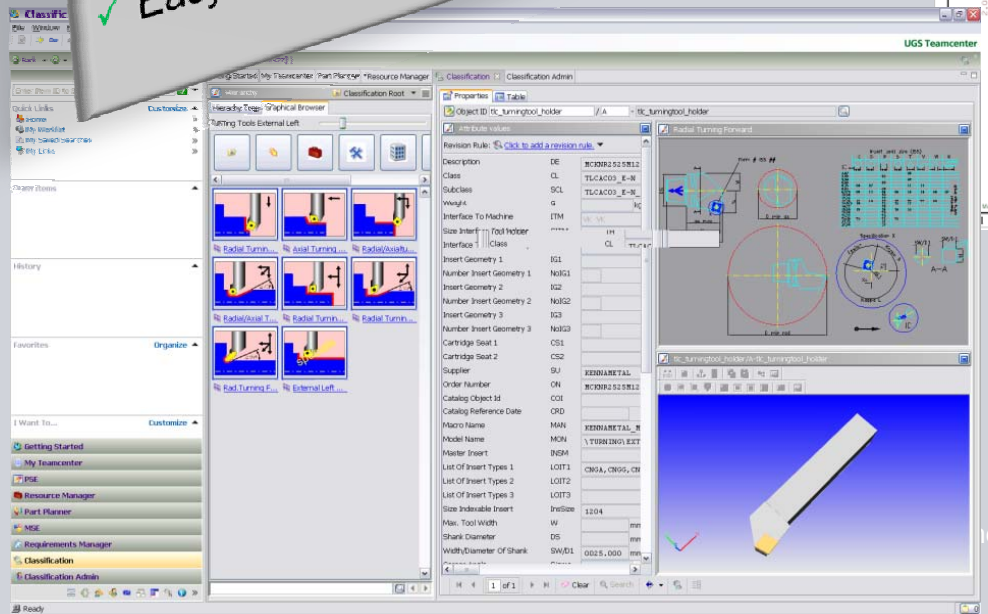
Kennametal

Walter

Titex







Cutting tool content includes complete tool classification structure, tool items, images and NX CAM integration

Teamcenter Resource Manager
Manufacturing Tooling Library – Phase 1

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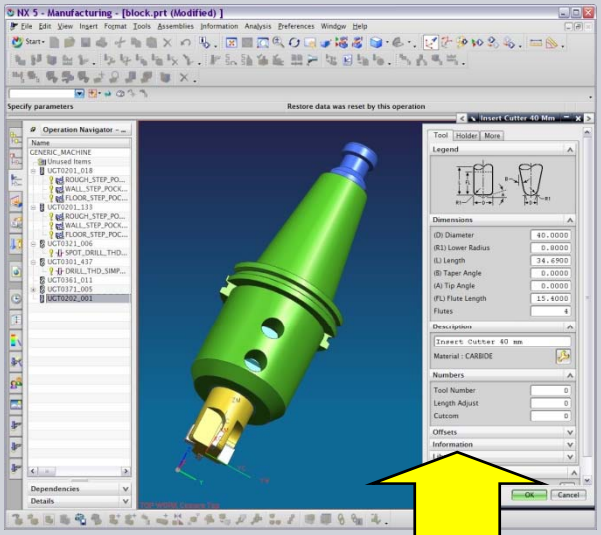
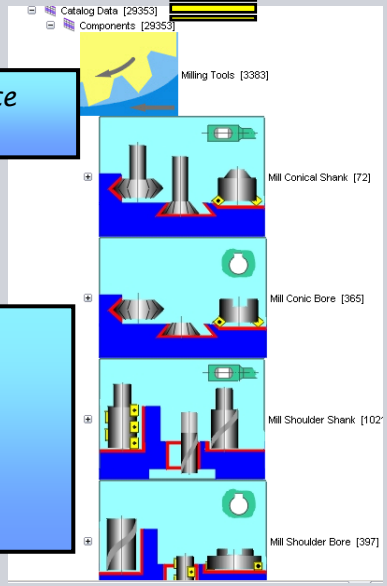
Delivering

- ✓ More than 30,000 turning, milling drilling tools in catalog library
- ✓ Automatic class and attribute mapping from vendor to customer classification (Teamcenter Only)
- ✓ NX CAM integration
- ✓ Free preview with Teamcenter
- ✓ Separately licensed product (DVD) with full content



Teamcenter Resource Manager



Released with Teamcenter 2007.1 MP3

NX CAM integration certified for NX 5 and NX 6

MLP integration available with upcoming MLP 8.2

Teamcenter Resource Manager
Manufacturing Tooling Library

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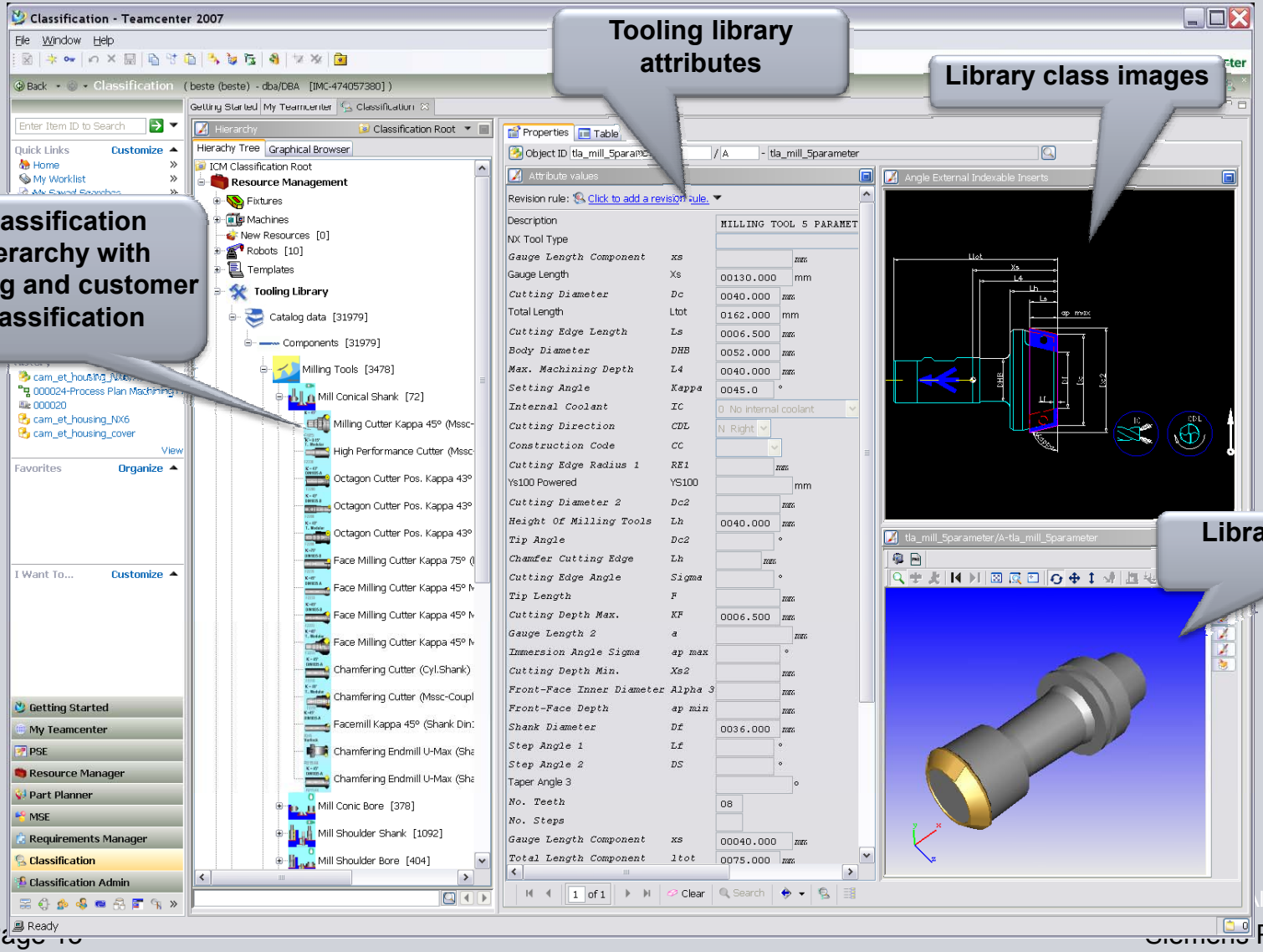

Manufacturing Tooling Library
Example holder, adapter, cutter and insert classes

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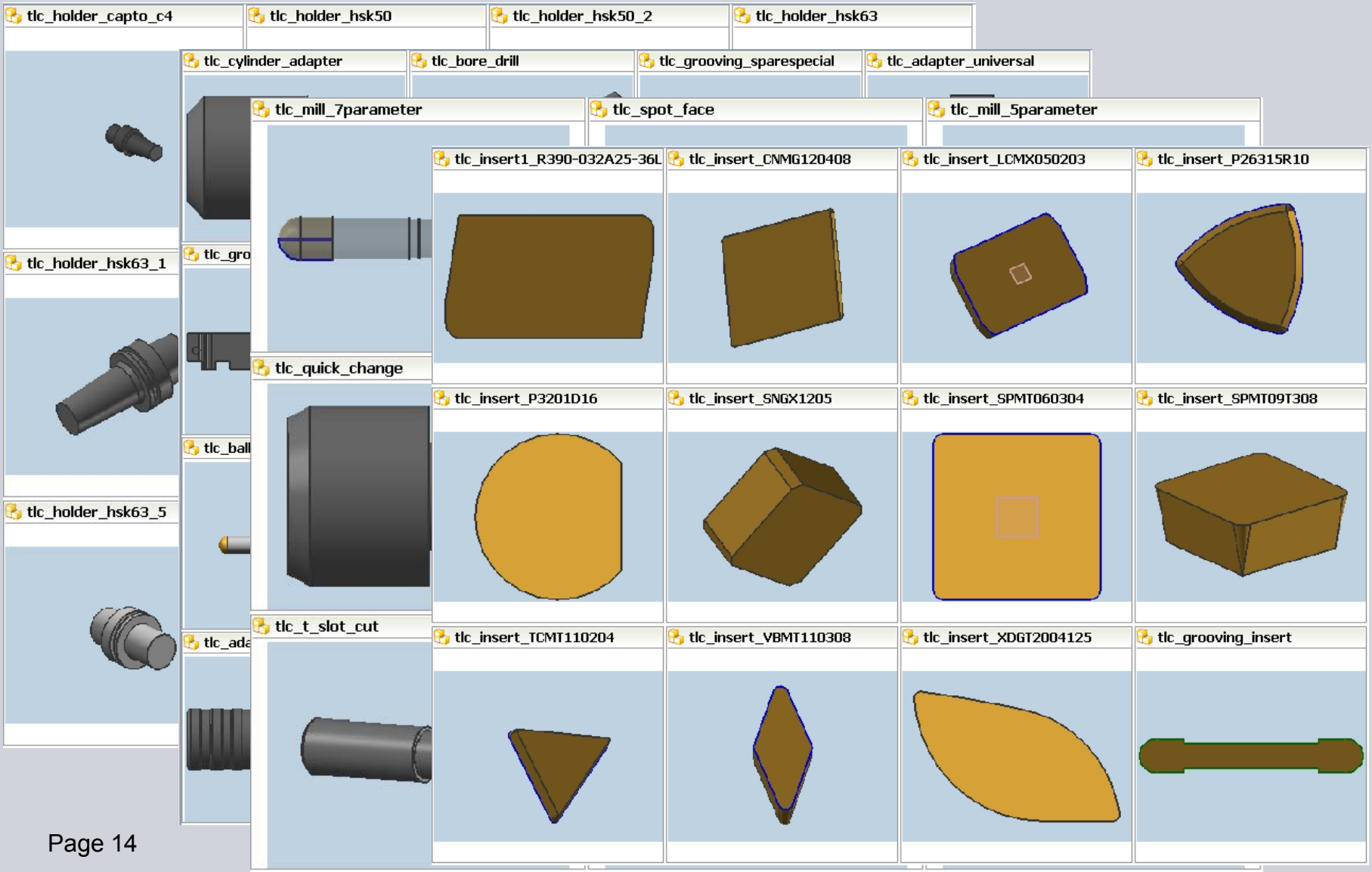

Example Component Classification
Drilling Tools

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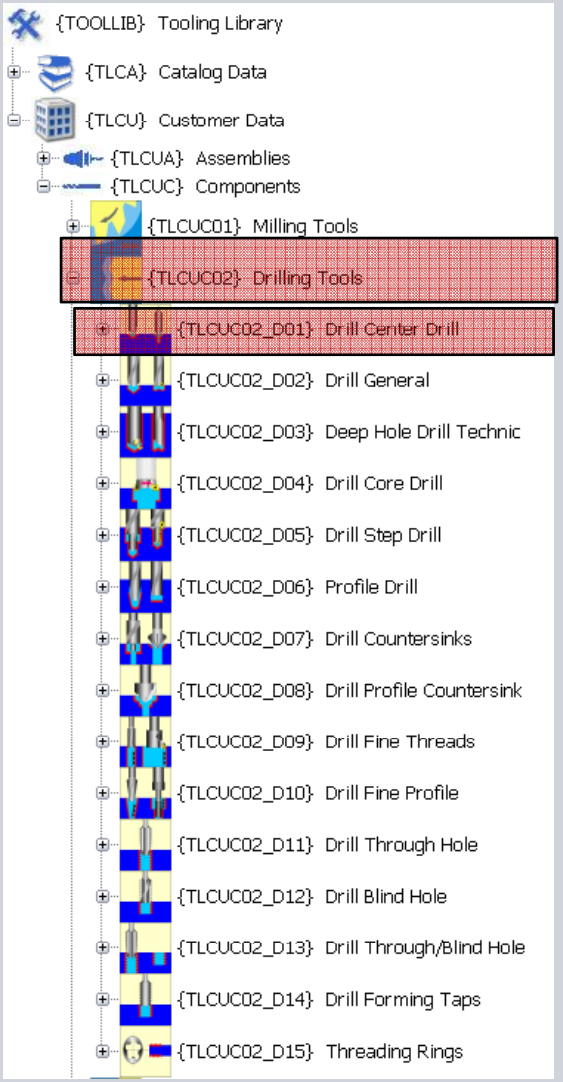

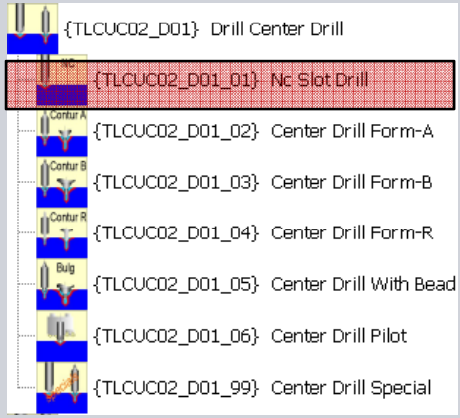

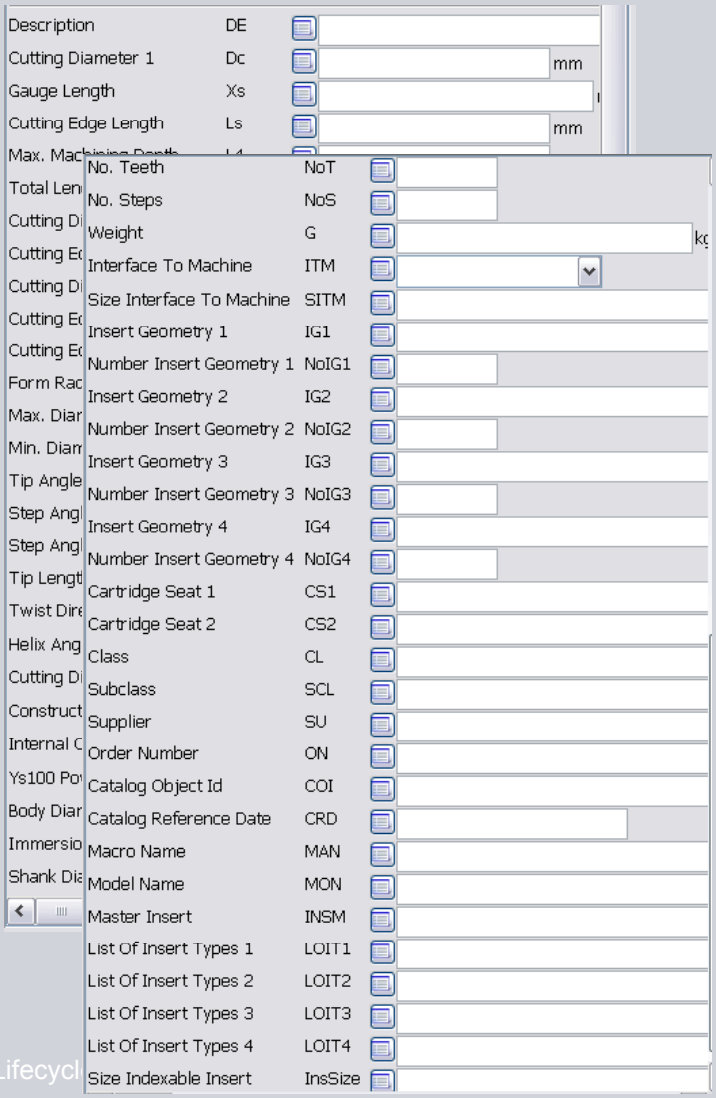

Manufacturing Tooling Library
Graphical Class Browser

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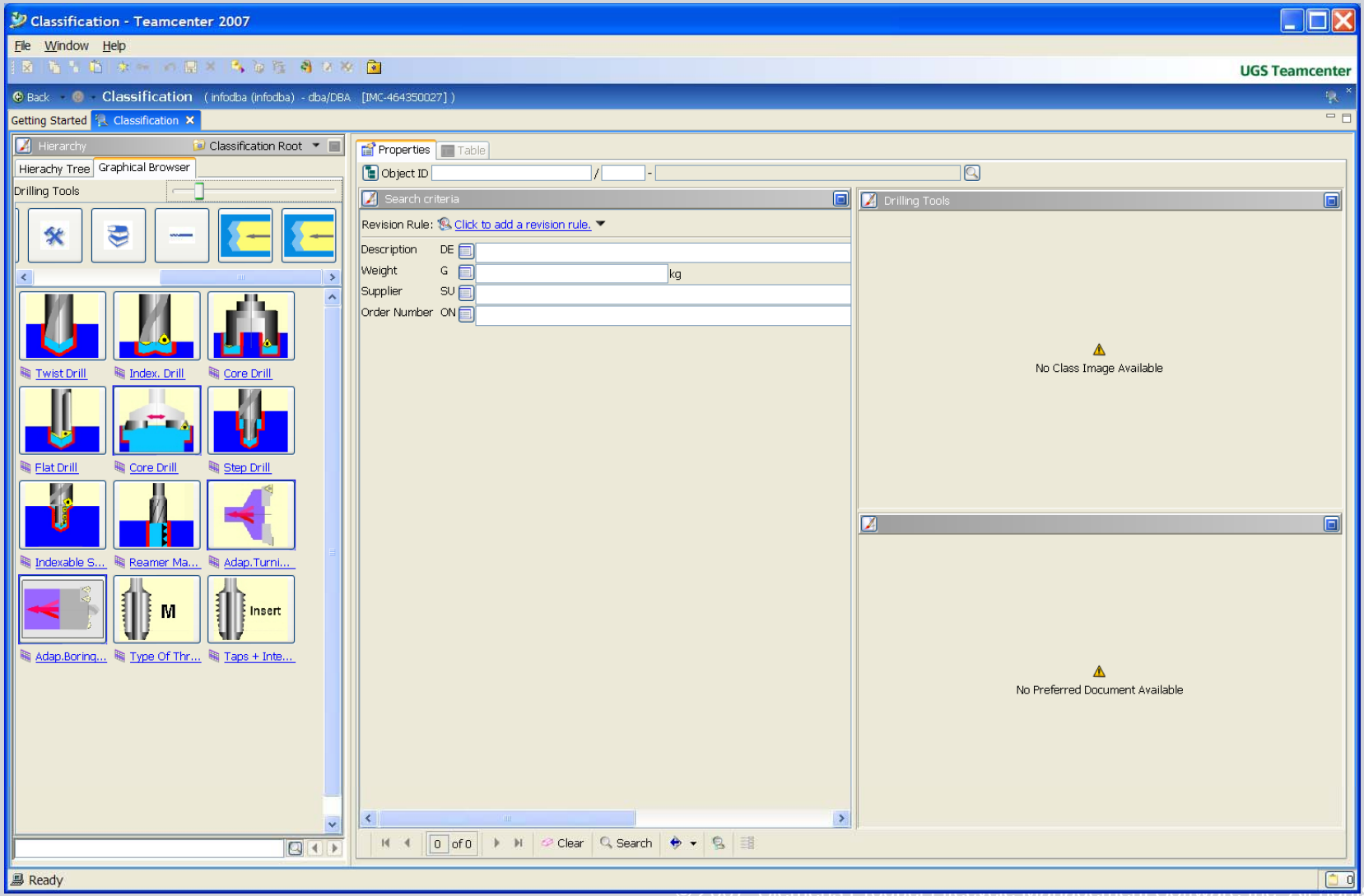

Manufacturing Tooling Library
Auto Filter

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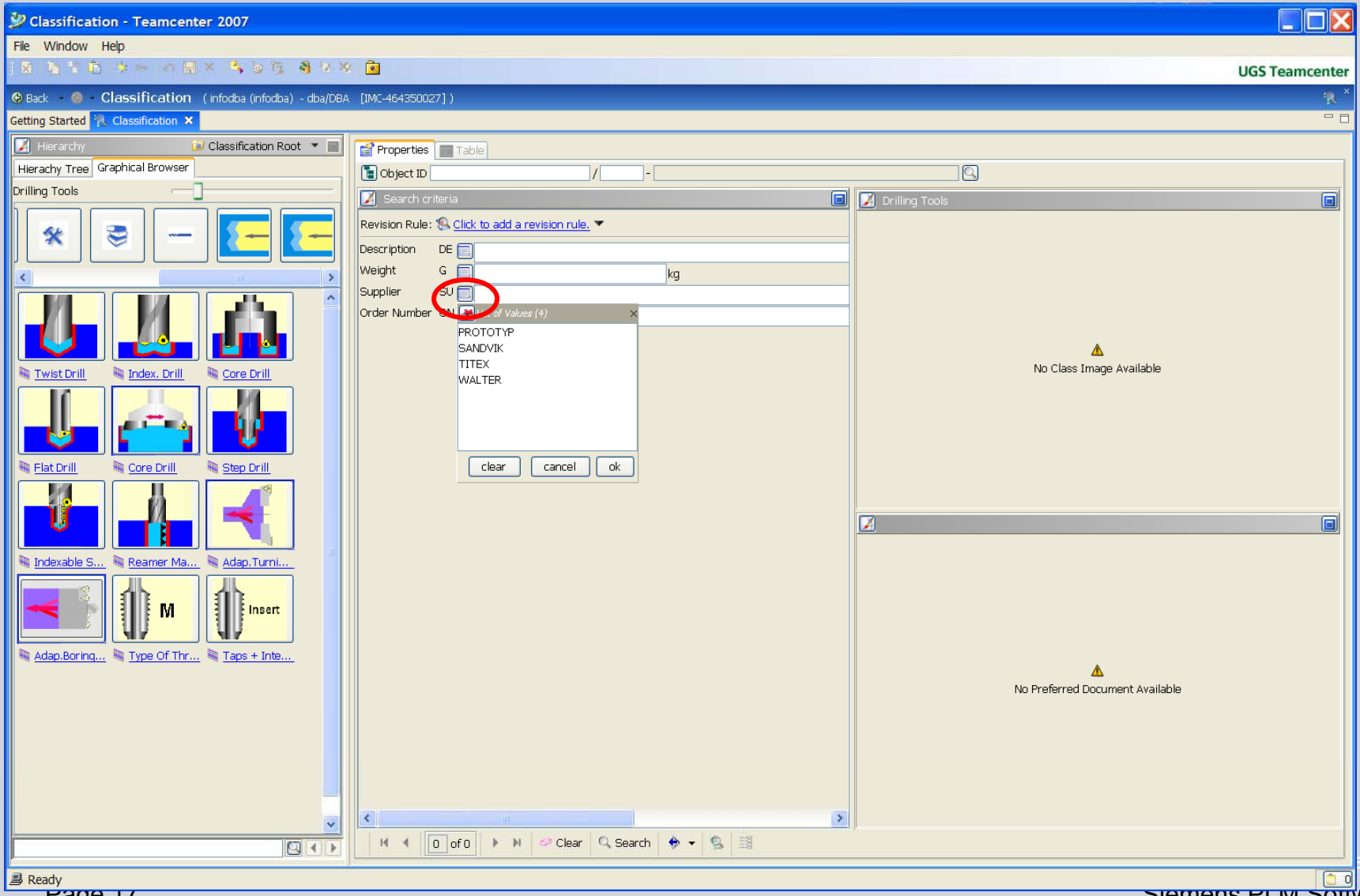

Catalog Data example
2670 Drilling tool components from Sandvik

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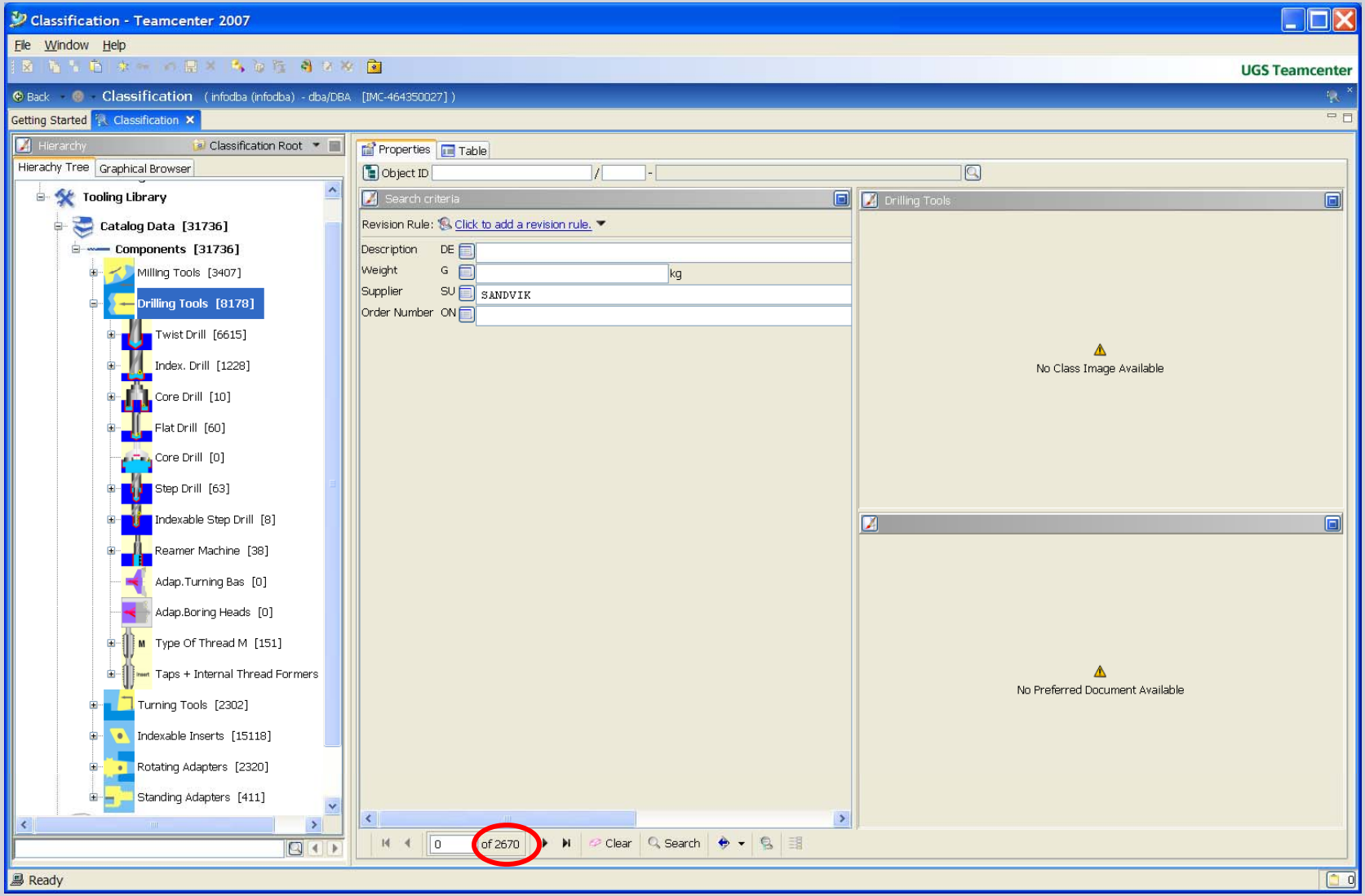

Customer Data
Components & Assemblies

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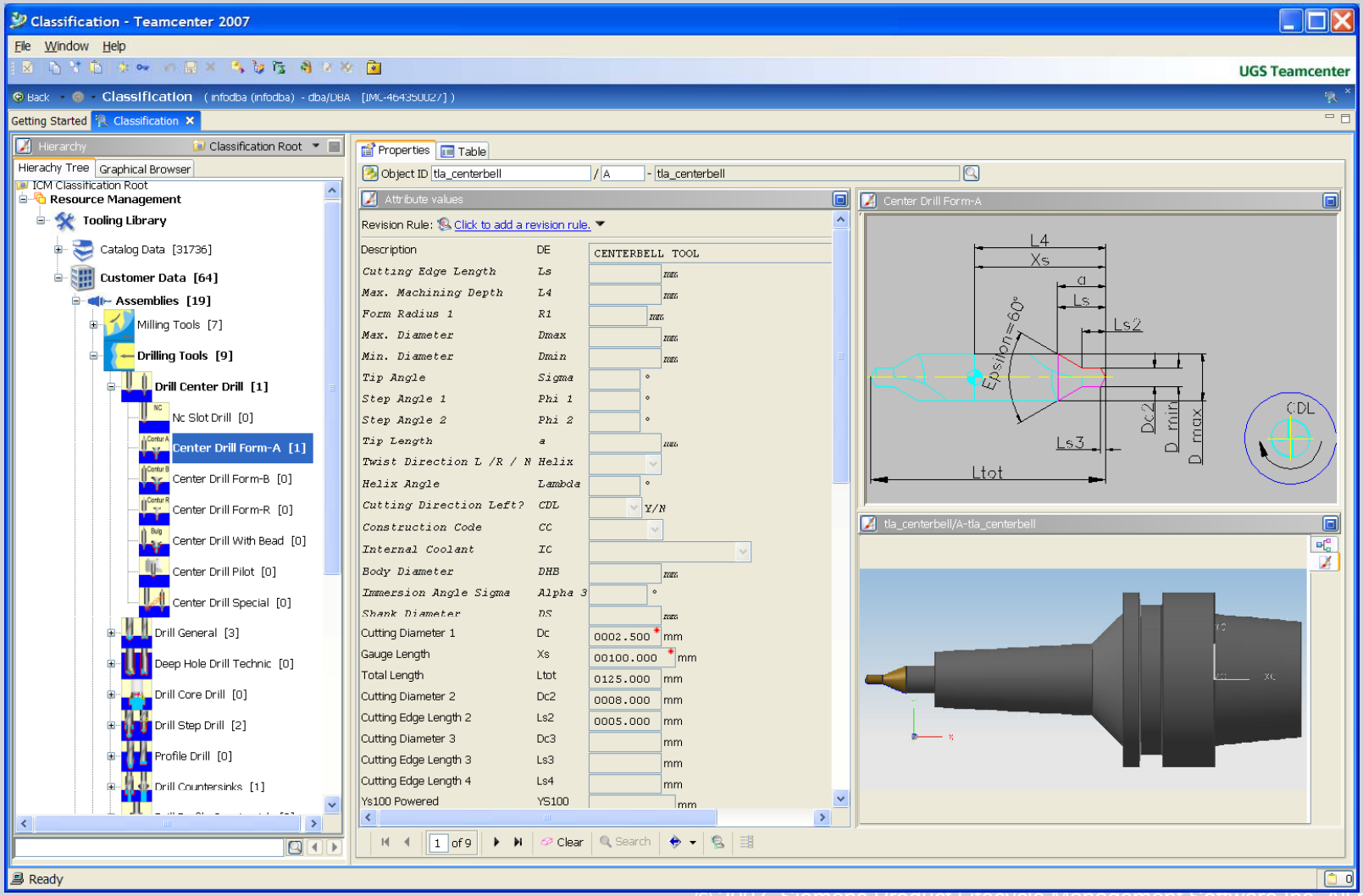

Customer Data
Components & Assemblies

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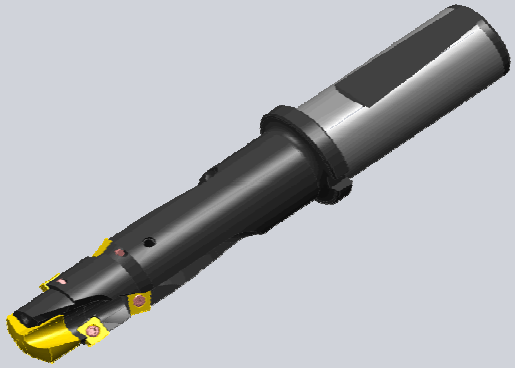
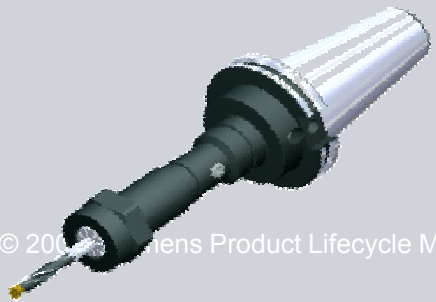
- Workflow
  - Search for a new component from the Catalog
  - “Map” the component from the Catalog to the Customer classification and add the new component to the Customer Library
    - Default mapping is provided where Customer classification is identical to Catalog classification
    - Customers can define their own mapping views to map onto their private Customer classification
  - Create a new Tool Assembly using Resource Manager and classifies it
  - The new Tool Assembly can now be used e.g. in NX CAM

  - Regular updates to the Catalog do not impact the Customer Library





Classification Administration
Default mapping view example

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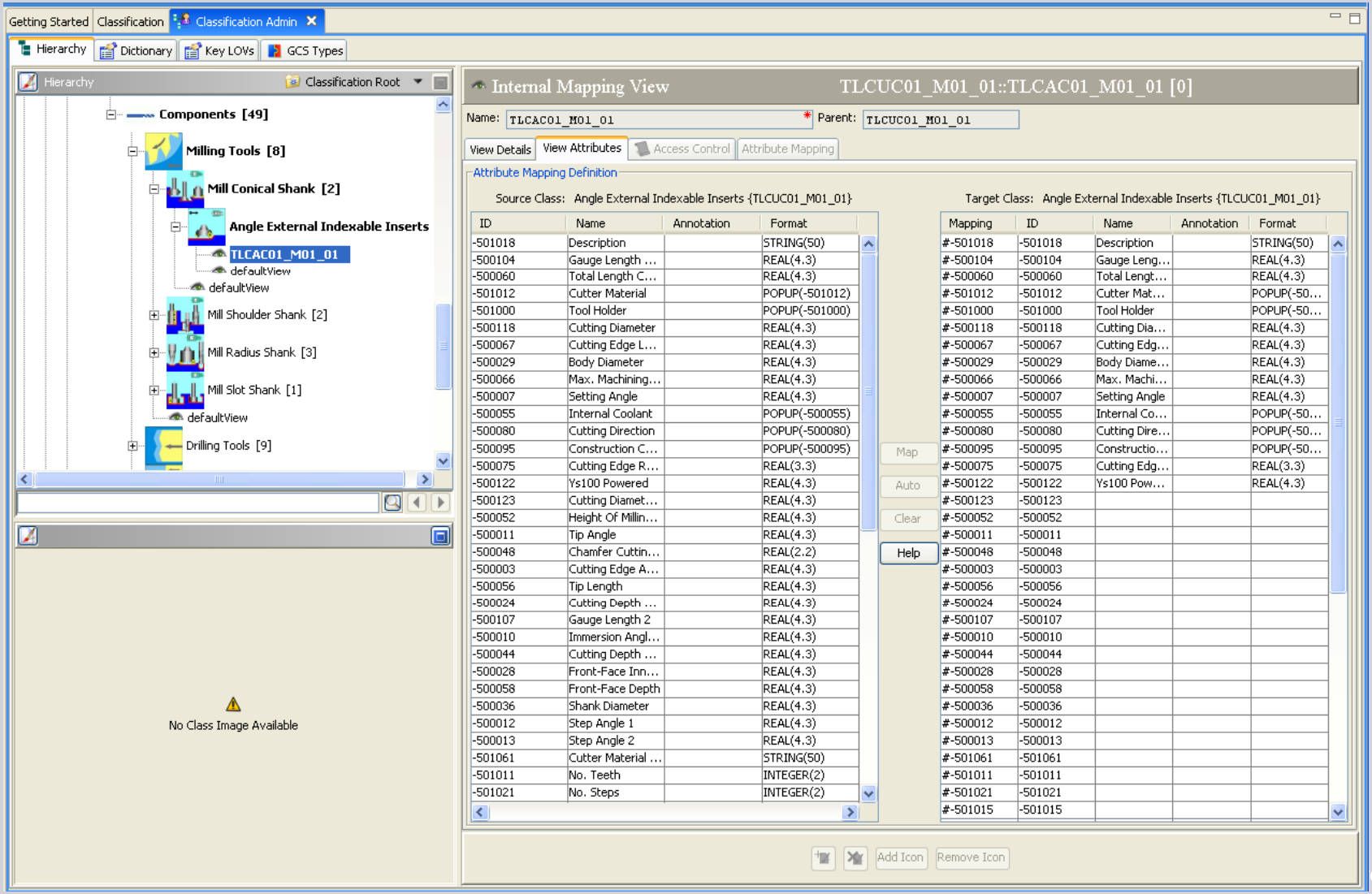

Resource Manager
Tool assembly BOM

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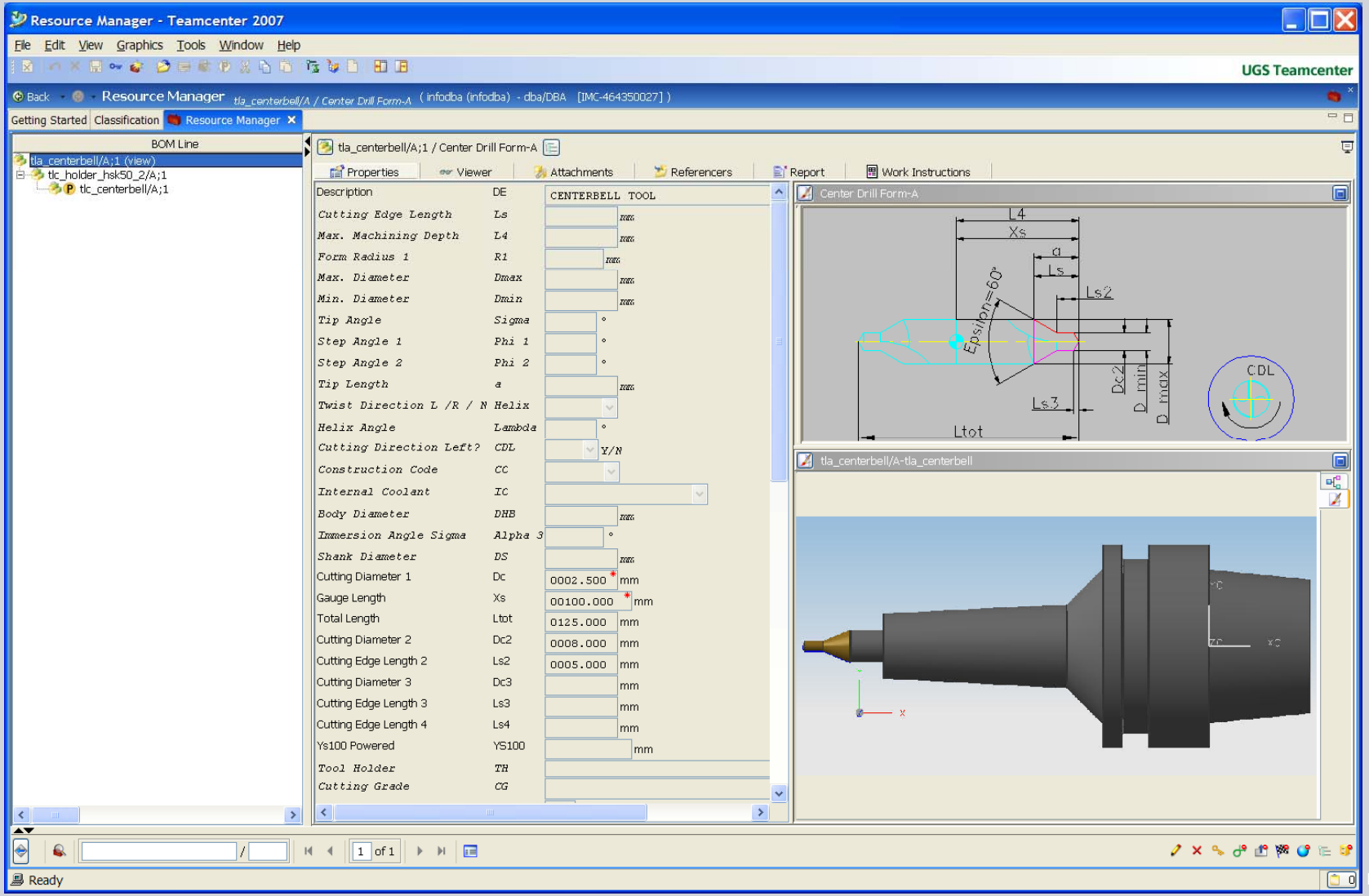

NX CAM default (ASCII) tool library
Retrieve Tool from Library

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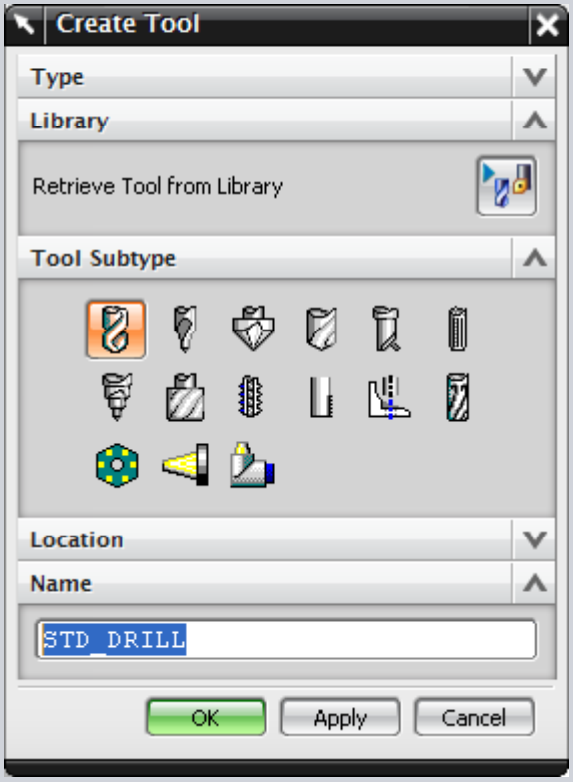

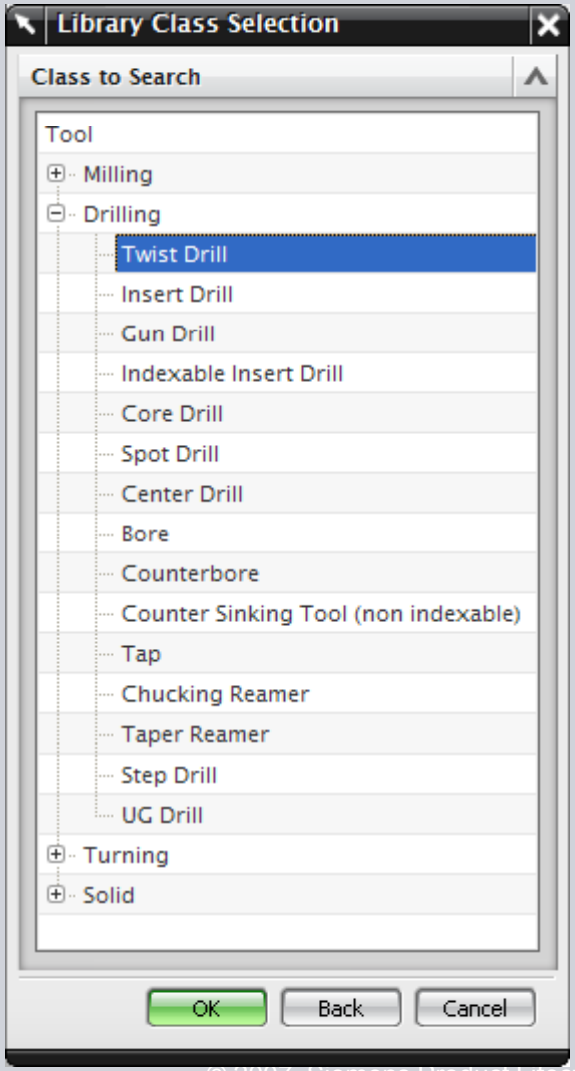

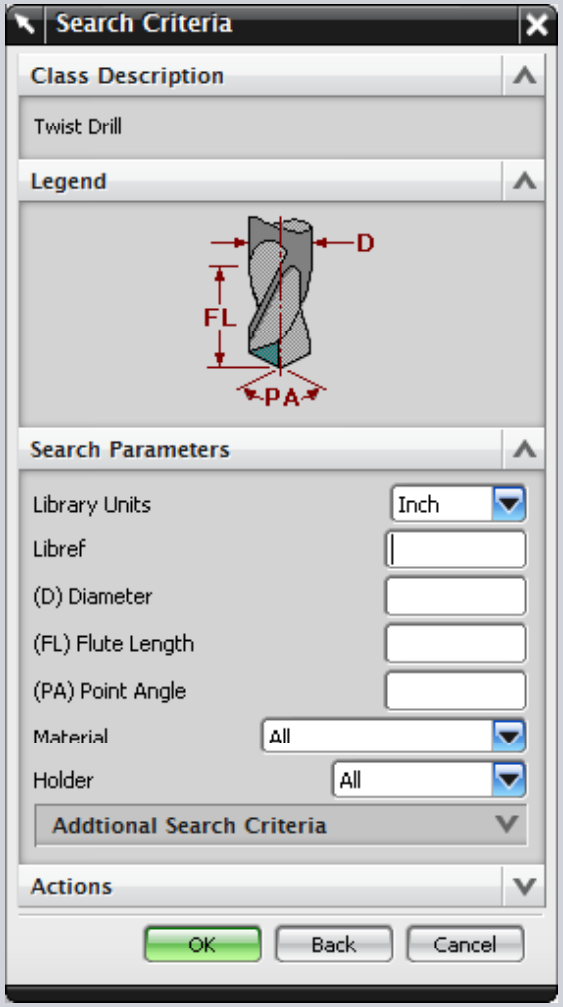

Teamcenter Resource Manager
Manufacturing Tooling Library - NX CAM integration

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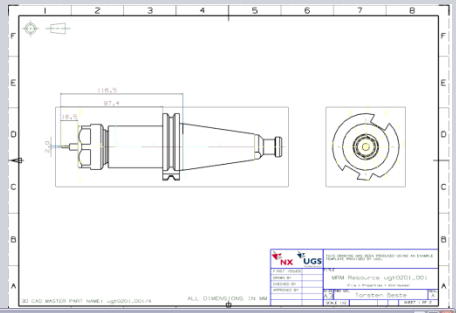
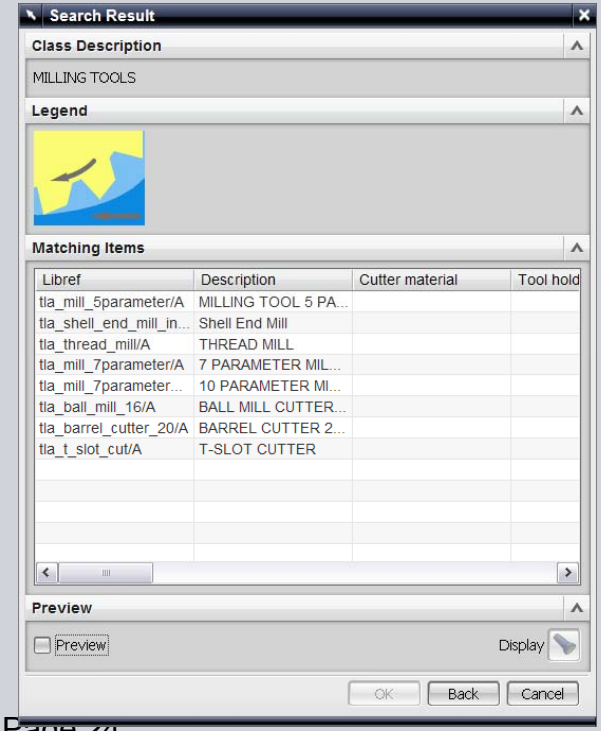
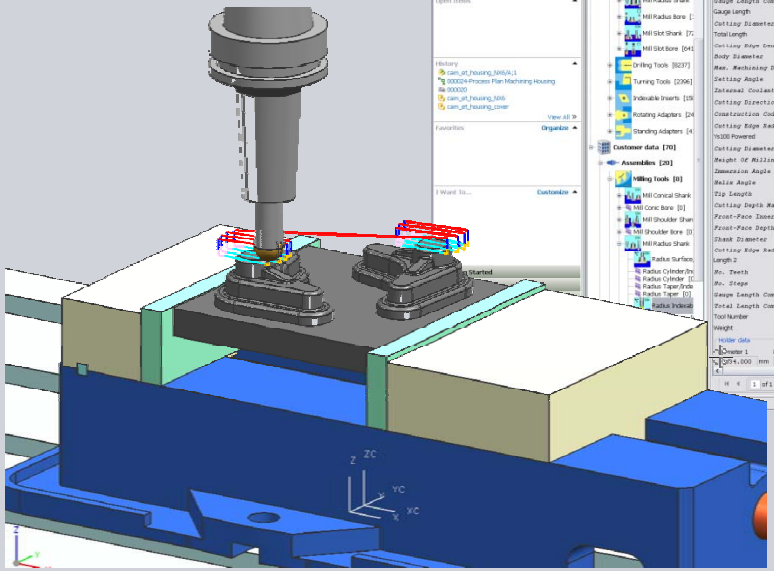
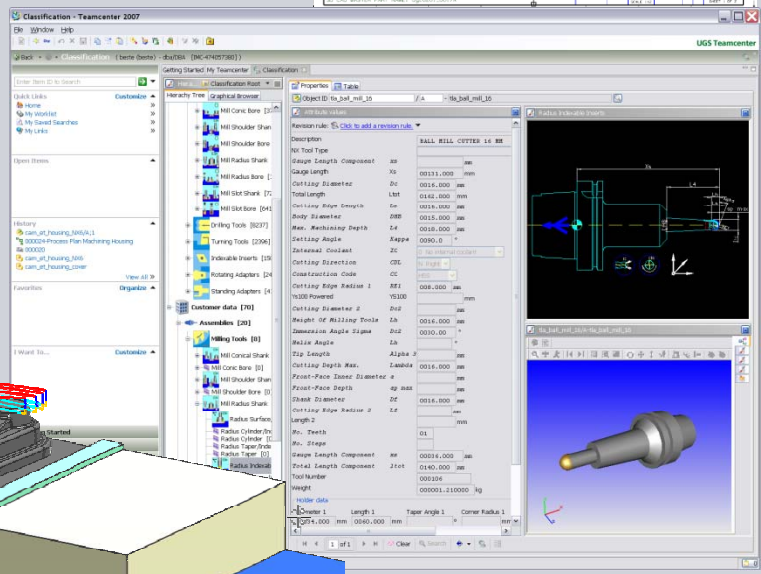
- Integrated with NX CAM for tool search & retrieval from Teamcenter
- Mapping & definition files installed as part of the Teamcenter content installation
- Creation of tool drawings in NX









NX CAM configured with Machine Tool Library
Retrieve Tool from Library

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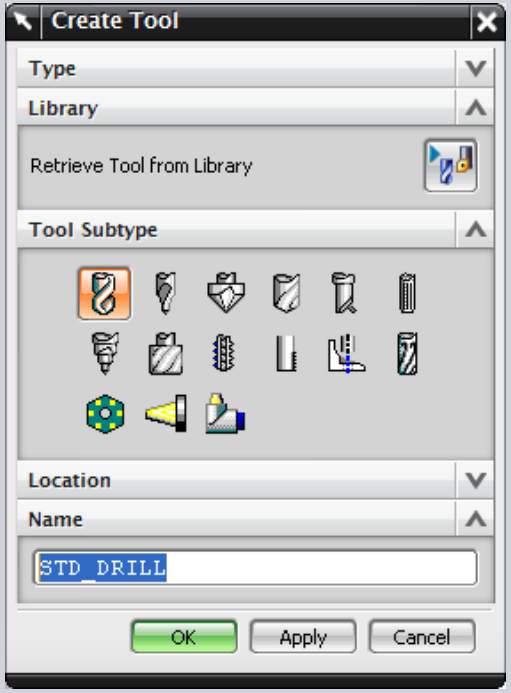

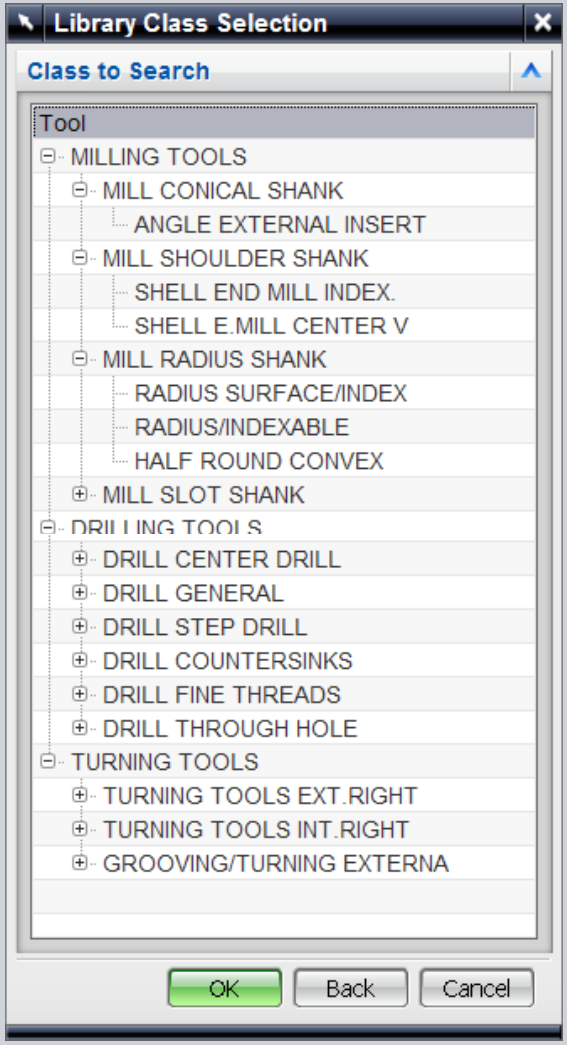

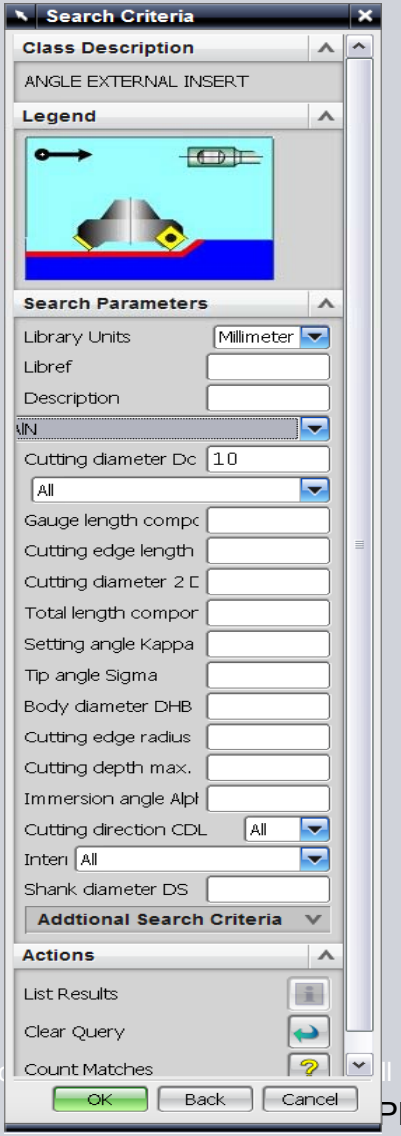

Teamcenter Resource Manager
Manufacturing Tooling Library – Phase 2

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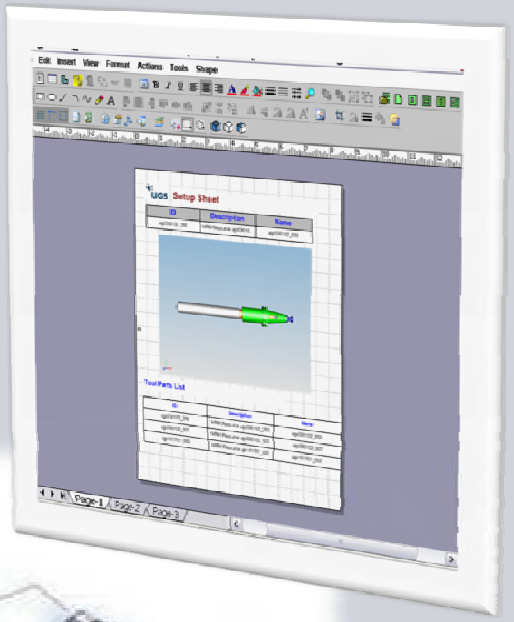
Functionality

- ✓ Create graphics
- ✓ Guided component search
- ✓ Automatic assembly
- ✓ Update tool catalogs with new catalog items

Why is this important to you?

- ✓ Reduce deployment time for Tool Data Management solution



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