

MANUAL MEUSBURGER NX-TOOL

Content

1. General technical information	3
2. Recommended basic settings in Siemens NX	4
3. Basic functions of the reuse library	6
4. Installation bodies	8
5. Display options of Meusburger Library components	8
6. Part list	8
7. Thread standards	9
8. Additional information	9

Disclaimer & Copyright

All data contained in the reuse library has been compiled to the best of our knowledge and checked with care. Nevertheless, errors cannot be completely ruled out.

The CAD software Siemens NX and the library used is an individual software which is constantly being further developed by Siemens and Meusburger. For this reason, the data contained in the standard parts library is not connected with any obligation or guarantee of any kind. Consequently, we do not assume any responsibility and will not assume any liability resulting from the use of this standard parts library or parts thereof.

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1. General technical information

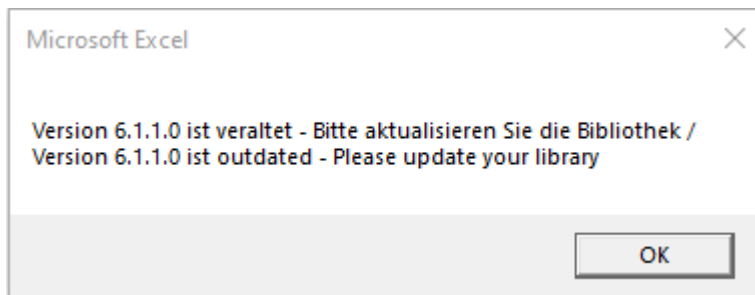
The Meusburger library uses exclusively the on-board functions of Siemens NX.
No additional licenses are required.

Compatibility

The Meusburger library is upward compatible from Siemens NX 12 and can be used with the Siemens NX Wizards.

Updates

As an indication of outdated versions, the following message appears after a period of one year:



Layers and Reference-Sets

The individual installation spaces can be found on the reference set "False" and on layer 135.

Colour standard

The colour assignment corresponds to the VDWF standard. An overview can be downloaded from the Meusburger homepage.

<https://www.meusburger.com/download>

Attributes

The tolerances can be found as surface name, attribute and colour on the surfaces of the installation body. The assigned attributes always have priority over the colour assignment. All tolerances are individually numbered for automation in CAM. In this way, specific rules can be created for production.

Overview of the attributes:

Fit_Upper:	Upper tolerance
Fit_Lower:	Lower tolerance
Fit:	Fitting
Ra:	Surface roughness

2. Recommended basic settings in Siemens NX

File – Utilities - Customer defaults – Gateway - Reuse Library

General:

- Specify number of items in member select area per page
- From NX 1899 on: Preselection "KE filter"

Reusable component:

- Optional: Specify custom part naming rules
- Optional: Specify part copy method

Reusable pocket:

- Set Reference Set for pocket creation: FALSE
The installation bodies of the standard parts lie on the Reference Set "FALSE". For the automatic pocket generation the name of this Reference Set must be specified.

File – Utilities – Customer defaults – Drafting – General/Setup – Standard – Drafting Standard

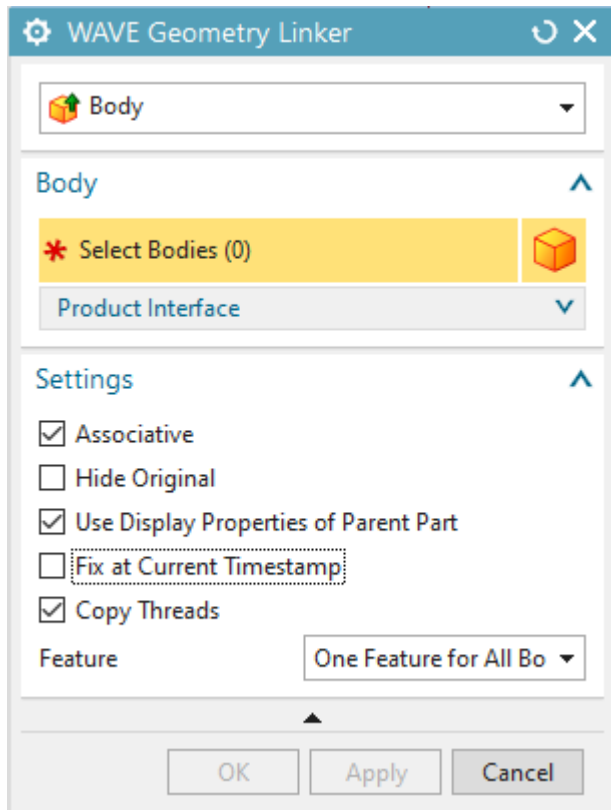
- Select own standard
- Click "Customize Standard"

Table --> Partslist --> Show levels:

- Maser Model Used: NO

WAVE-Geometry Linker – dropdown “Body”

- Associative
- Use display properties of parent part
- Copy threads



3. Basic functions of the reuse library

Navigation of the reuse library tab

Change pages:
The number of elements on a page is set in the user standards. Change pages using the arrows.

Search:
Search components by their number. Use the arrow to adjust search criteria.

Note: The first search process of a session takes a relatively long time. Further searches are much faster. fast

Adjust the display of the element selection.

Filter:
The filter "Display only KE parts" displays only "Knowledge Enabled", i.e. parts that are intended for use with the functions of the reuse library.

The screenshot shows the 'Reuse Library' window with a tree view on the left containing folders like 'Attachements', 'Demoulding', 'Ejectors', etc. The main area shows a search bar, a 'Member Select' section with a 'KE' filter, and a grid of 16 mechanical parts with IDs such as E_1270, E_1271, E_1272, E_1272M, E_1274, E_1274M, E_1275, E_1275M, E_1276, E_1280, E_1282, and E_1284.

Functions for the elements open with a right click.

The catalog sheet is called via auxiliary file.

The close-up shows the 'Member Select' grid with a context menu open over the part E_1272. The menu options are: 'Add to Assembly', 'Open', 'Cut', 'Copy', 'Information', 'Auxiliary file', and 'Edit KRX file'. The 'Auxiliary file' option is highlighted, indicating it is the method used to access the catalog sheet.

Adding a Meusburger Library component

In the "Add Reusable Component" window, the following options are available:

Legend:
In the legend you see a drawing of the standard part with the most important parameters. With arrows several pictures are available.

Primary parameters control the variant.

Parameters/Details:
Sliders can be set to a fixed value here by double-clicking.

Placement:
"Multiple Add" to create multiple referenced copies.
"Positioning" > "By constraints" to link the standard part with the stored constraints.

Basic setting Clone:
Parts within the Meusburger library can only be loaded into the assembly as clones. Creates an instance of the reference part in the working directory.

Part name management:
The name of the component can be customized.

The supplied constraints can be edited.

Cloning creates a new instance of the template part. The default template of NX for part naming is an ascending numbering of the clones, starting at 000. This is stored in the default settings with the template "_???" and can be adjusted.

Variant changes

Variant changes of Meusburger library components in the design via the function "Edit reusable component" are possible at any time.

The Siemens NX parts list entries are updated automatically.

Screws

For all standard parts with a clear installation situation, the necessary screws are included. If there are deviations from the actual installation situation, the screw must be replaced individually. If the screw is included in the scope of delivery, the ordering specification only appears in the assembly tree, not in the parts list.

4. Installation bodies

Creating of installation spaces

The installation body must be linked into and subtracted from the active part with the Siemens NX basic functionalities.

Reusable pocket

Due to the high degree of freedom when installing the Meusburger library component, the function of the "reusable pocket" must be deactivated (default setting).

5. Display options of Meusburger Library components

In the assembly navigator

Available attributes are stored in the part properties and can be displayed individually via the column configuration.

The following attributes are available for each standard part:

- Selector = Order reference
- Supplier = Meusburger
- Name_DE = German name
- Name_EN = English name

The following attributes are available if applicable:

- Mat = Material
- Hardness = Hardness
- Description = Standards
- tmax = Maximum operating temperature
- pmax = Maximum operating pressure

In the drawing parts list

All entries available for the parts list can be found in the respective part properties.

6. Part list

For inclusion the supplied file „partlist_meusburger.pax“ is edited in the following places:

```
<?xml version="1.0" encoding="UTF-8"?>
<Palette author="UGNX2.0" originalURI="tables.pax" schemaVersion="1.0"
xmlns="http://www.ugsolutions.com/Schemas/2002/UGPalettes"><Presentation application="All" bitmap="table" name="Tables"/>
<PaletteEntry id="table_entry220"><Presentation description="Partlist_Meusburger" name="Partlist_Meusburger"><PreviewImage
location="partlist_meusburger.prt" type="UGPart"/></Presentation><ObjectData
class="TabularNoteTemplate"><filename>partlist_meusburger.prt</filename></ObjectData></PaletteEntry>
</Palette>
```

The path where the parts list file is stored must be entered before the file name.

Example:

For a local file storage „C:\Meusburger\partlist_meusburger.prt“
For a network file storage „\\fileservers\nx\partlist_meusburger.prt“

The automated parts list is then integrated in Siemens NX and generated via the pallet function.

