

GENIUS TOOLS for Creo

12.0.1.0

News

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1 Important information

Updating GENIUS TOOLS Parameter & Library

An update of GENIUS TOOLS Parameter & Library does not update the resource folder (*gt_resource_folder*). This must be updated manually. Consult the chapter *Update process* in the help document *GENIUS TOOLS Starter Installation.pdf*

GENIUS TOOLS for Creo: No support für Creo version 11.0.0.0(12.0.1.0)

PTC Creo version 11.0.0.0 is not supported.

GENIUS TOOLS for Creo: End of support for Creo versions up to 9.x (Version 12.0.0.0)

PTC Creo versions up to and including 9.x are no longer supported.

GENIUS TOOLS for Creo: Modules discontinued as of Creo release 13 (12.0.0.0)

The following GENIUS TOOLS extension modules will be discontinued as of Creo version 13.0.0.0, as the functions can now be executed with Creo Parametric.

GENIUS TOOLS for Creo	Creo Parametric
Feature Regeneration Profiler	Performance Report (in <i>Tools > Investigate</i>)
Multibody to Assembly	Save as assembly in a multibody part (in <i>File > Save as</i>)

Export TDP: Directories must be renamed (12.0.0.0)

For Export TDP, the following subdirectories in *export_tdp* must be renamed in the resource directory:

Folder name: old	Folder name: new
component	chapters
model	components
template	templates

The following configuration options have been renamed:

Configuration option: old	Configuration option: new
gttdp_component_folder	gttdp_chapter_folder
gttdp_model_folder	gttdp_component_folder

The following details for the export templates have been renamed:

XML-Tags: old	XML-Tags: new
frame	format
XML-Attribute: old	XML-Attribute: new
component	definition
drwframe	drwformat
Latex	
@frame	@format

License-dependent functions

The following functions are available with a subscription license for *GENIUS TOOLS® Library*, *GENIUS TOOLS® Parameter* and *Startup TOOLS*.

Extension module (GENIUS TOOLS for Creo)	Description	Release
Load Save Converter	Converts Creo objects from previous Creo-, Wildfire- or Pro/ENGINEER versions to the currently used version.	7.0.0.0
Inspect Revision	Stores all versions of inspection symbols on a drawing. Easily creates an overview of a revision history.	7.0.0.0
Open Base Model	Opens geometric base models that are reference sources for features with one click in the context menu of a feature.	7.0.0.0

Extension module (GENIUS TOOLS for Creo)	Description	Release
Extend Relations	Adds functions to model relations that define parameters for models and – with Creo 7 – for bodies.	7.0.0.0 - 8.0.0.0
Select Surfaces By Color	Surfaces of the same color can be selected with one click and be colored, measured or otherwise modified thereafter.	7.0.1.0
CS Assembler	Automates the assembly of components into an assembly using defined coordinate systems (CS).	7.0.1.0
Extended Dimension Functions	Model dimensions can be increased or decreased very quickly with the mouse in a defined increment in the graphics window.	7.0.2.0
Copy Component Parameter To Substitution Component Parameter	If a value has been assigned to a component parameter for a part in the master representation, this value can be copied to the component parameter for a simplified part.	7.0.2.0
Toggle Symbol Variants	If a grouped symbol has variants in the first level, you can switch between those variants more quickly.	7.0.2.0
Multibody to Assembly	Converts multiple bodies into assemblies (Creo Advanced Assembly Extension (AAX) is required.)	8.0.0.0
Work Dir Manager	Automatically collects all directories used during the work process and enables the current working directory to be changed quickly.	8.0.0.0
Full Backup	Quickly backs up the current model with all dependent data.	8.0.0.0

Extension module (GENIUS TOOLS for Creo)	Description	Release
Command Control	Creo Parametric ribbon commands / commands can be hidden or deactivated.	8.0.1.0
Feature Regeneration Profiler	Regenerates models and displays regeneration times for each feature.	10.0.1.0
Create offset point and offset coordinate systems	Creates a coordinate system at the same location (point, corner point, or coordinate system) within a part or assembly, but with reference to a newly selected reference coordinate system.	12.0.0.0
Stack Note	Imports notes from a multilingual database; the selection of notes is summarized in a note table and can be placed next to a drawing.	12.0.1.0
Split Table / Split Table 3D	Splits a table so that it is placed to the right or left of it and can be repositioned.	12.0.1.0

2 What's new in release 12

The following functions have been added to the GENIUS TOOLS add-on applications for Creo that are contained in the products GENIUS TOOLS Library and GENIUS TOOLS Parameter and GENIUS TOOLS MBD for ISO GPS.

Please note: If you would like to search for functions of a module across releases, enter the name of the module in the search window in the **Update Advisor** (<https://updateadvisor.inneo.com>). The Update Advisor also lists all changes to configuration options and files in the supplied data packages.

2.1 Inspect


Inspect / Inspect 3D: Display of all tolerance values in compound frame (Version 12.0.0.0)

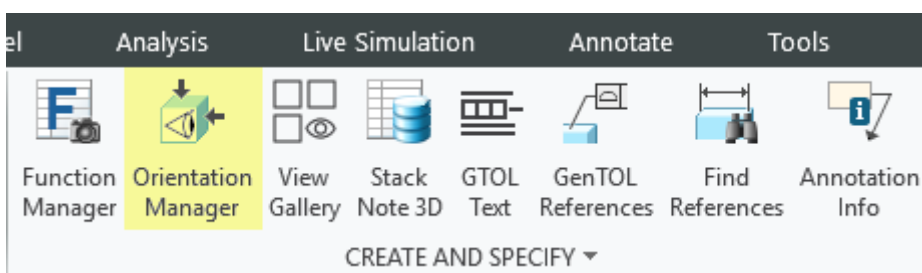
For geometric dimensioning and tolerancing all tolerance values and datum references in a compound frame are displayed and automatically read out.

Please note: The module *Inspect* is part of the products *Startup TOOLS*, *GENIUS TOOLS Parameter* and *GENIUS TOOLS Library*, while *Inspect 3D* is a module of the new product *GENIUS TOOLS MBD for ISO GPS*.

2.2 Orientation Manager

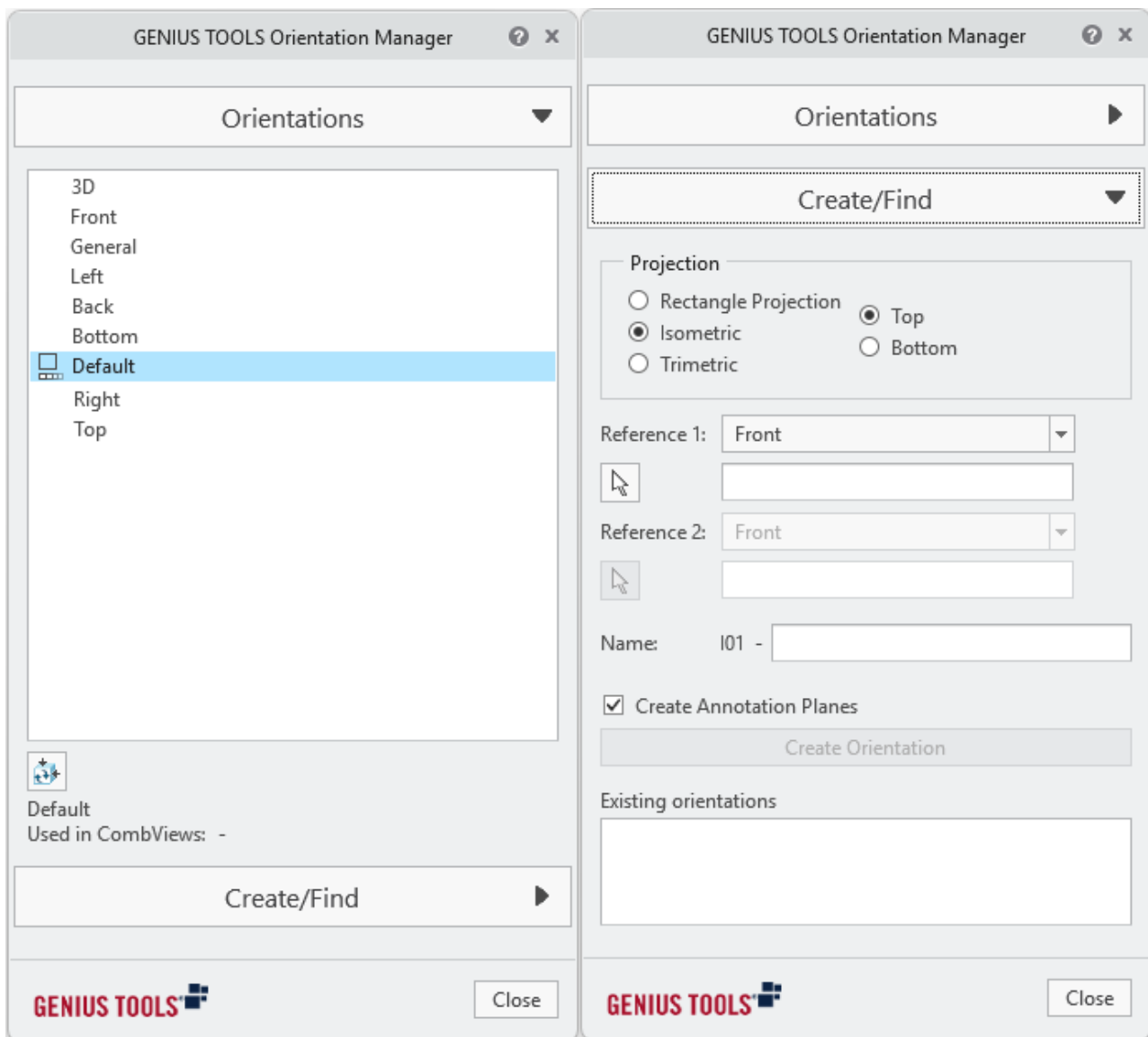
New module „Orientation Manager“ (12.0.1.0)

To start *Orientation Manager* , click on the *GT MBD* ribbon and go to *CREATE AND SPECIFY* section.



With *Orientation Manager*, you can create and update model orientations and automatically detect whether model orientations already exist. Associated annotation planes are created for the defined projections, which are filtered when switching between

combined views in the Annotate tab. This makes it easier to select the annotation plane when creating new annotations.

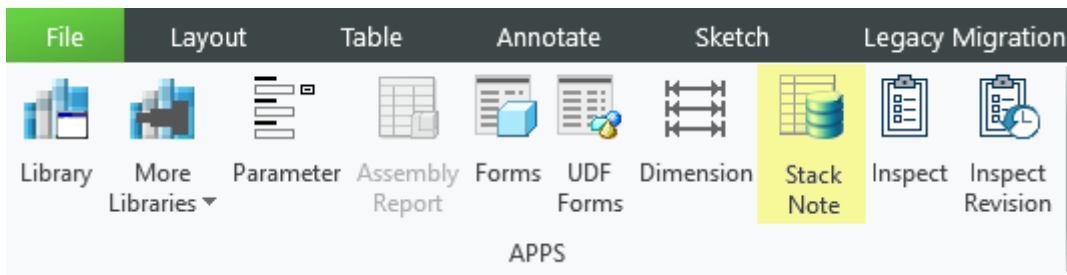


2.3 Stack Note

New module „Stack Note“ (12.0.1.0)

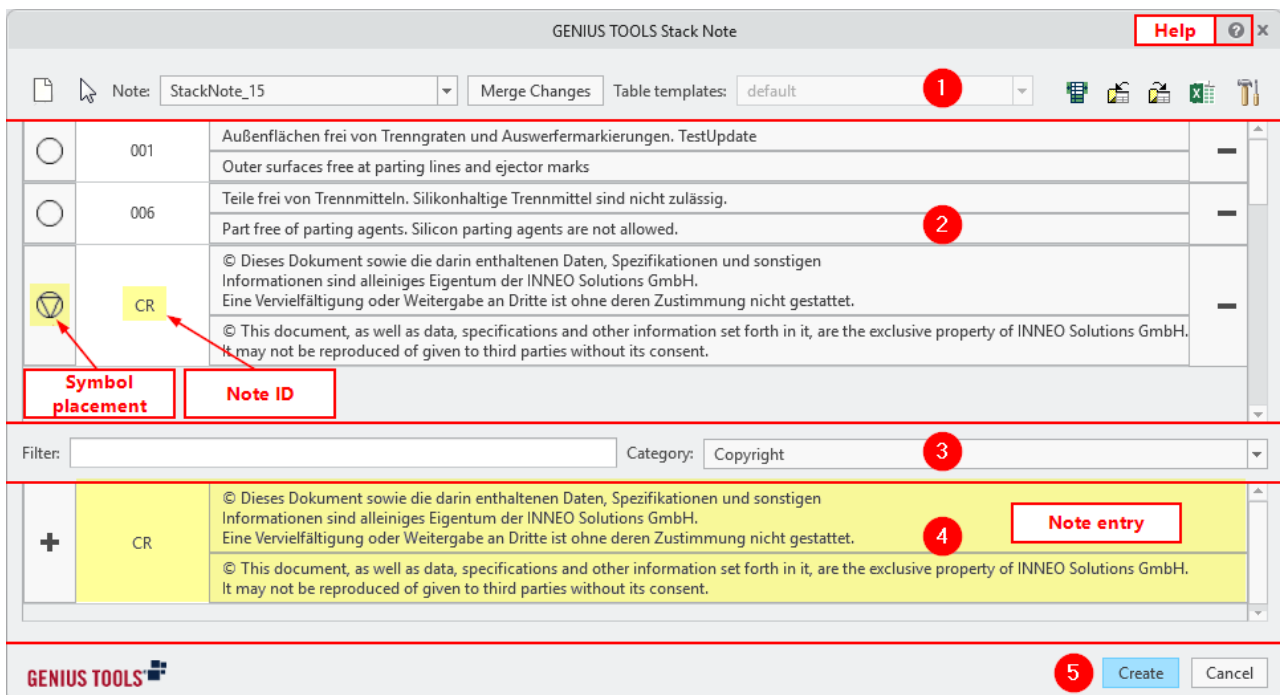
The new extension module *Stack Note* is used to select standardized information and place them in a note on a drawing. The information elements are defined by the administrator in a multilingual database and can, for example, contain information on standards or regulations. The note can be exported and imported as an XML file. A symbol in a note entry can be linked to a note, a dimension, or a symbol in the drawing.

To start *Stack Note* , go in the *GENIUS TOOLS* ribbon to the *APPS* section.



User interface

The user interface of *Stack Note* consists of the following elements:



1. Command bar and help button
2. Selection of note entries
3. Search input and category selection
4. List of all note entries. A note entry consists of the button for symbol placement, a note ID, and the content in one or more languages.
5. Buttons for placing and updating the note and closing the window.

2.4 Stack Note 3D

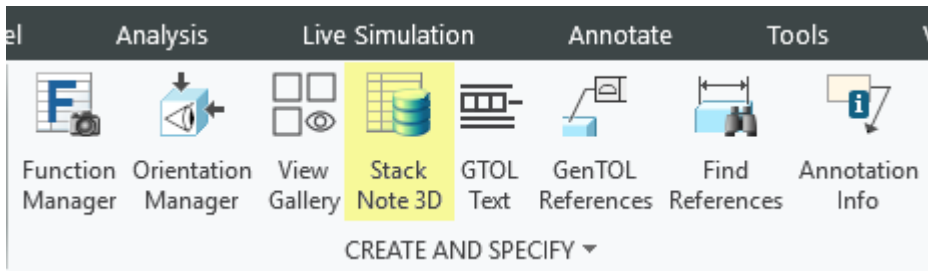
New module „Stack Note 3D“ (12.0.1.0)

The new extension module *Stack Note 3D* is used to select standardized information and place them in a note in a 3D model. The information elements are predefined by the

administrator in a multilingual database and can, for example, contain information on standards or regulations. The note can be exported and imported as an XML file.

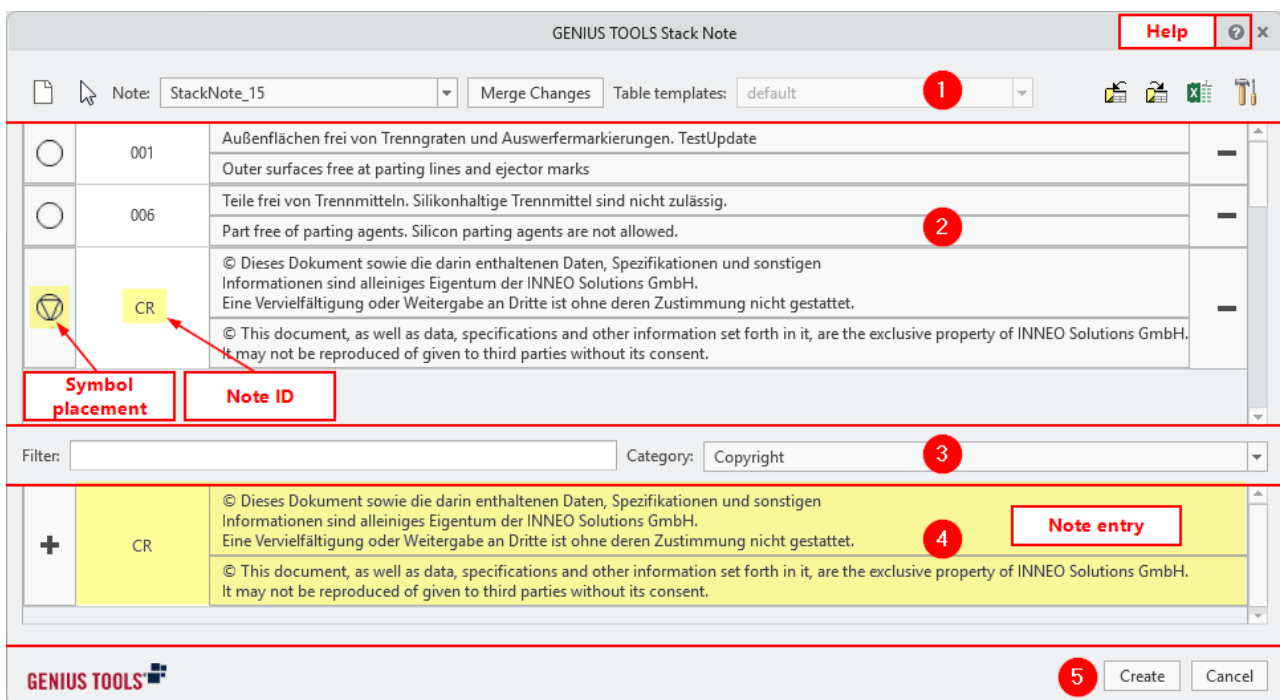
Stack Note 3D is part of the new product GENIUS TOOLS MBD for ISO GPS.

To start *Stack Note 3D*, go in the *GENIUS TOOLS* ribbon to the *CREATE AND SPECIFY* section.



User interface


The user interface of *Stack Note* consists of the following elements:



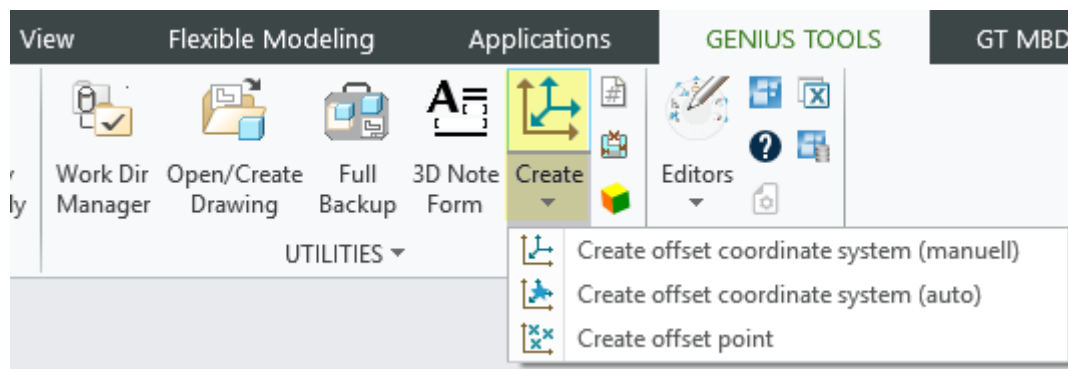
1. Command bar and help button
2. Selection of note entries
3. Search input and category selection
4. List of all note entries. A note entry consists of the button for symbol placement, a note ID, and the content in one or more languages.
5. Buttons for placing and updating the note and closing the window.

2.5 Utilities


Utilities – New function „Create offset coordinate systems and points“ (12.0.0.0)

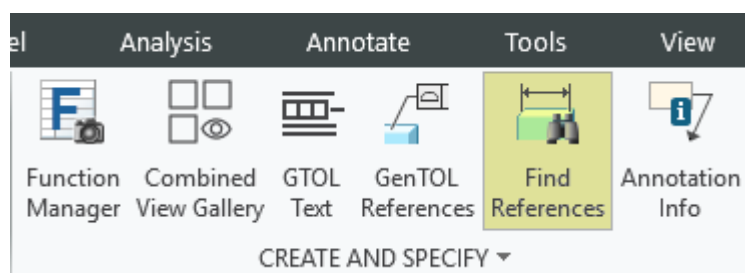
The function *Create points and coordinate systems*  can be used to create a coordinate system or a point at the same location (point, corner point or coordinate system) within a part or an assembly with reference to a newly selected reference coordinate system. The offset coordinate system can be created manually or automatically or an offset point can be created.

The function is located in the *GENIUS TOOLS* ribbon in the *UTILITIES* segment under *Create*.

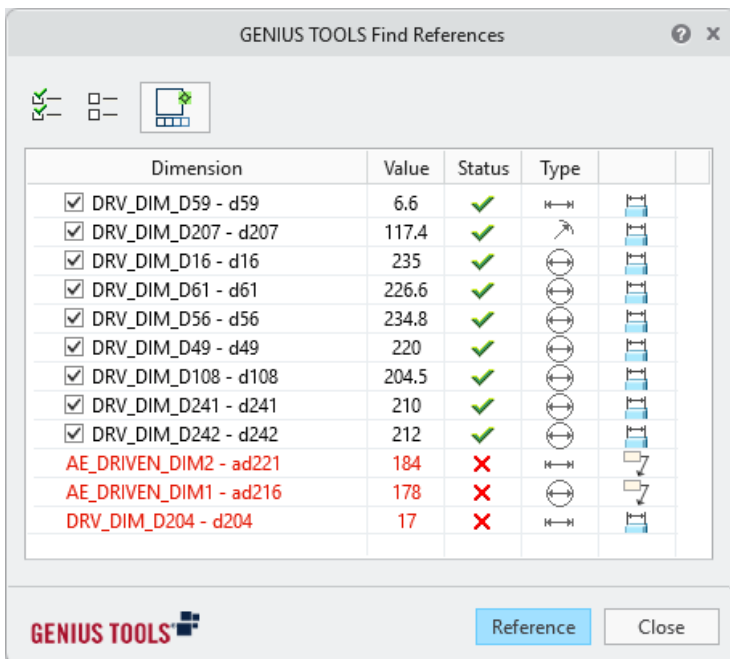


Utilities – New function „Find References“ (12.0.0.0)

The new function *Find References*  has been implemented as part of *GENIUS TOOLS MBD for ISO GPS*. The function is located in the *GT MBD* ribbon in the *CREATE AND SPECIFY* section.

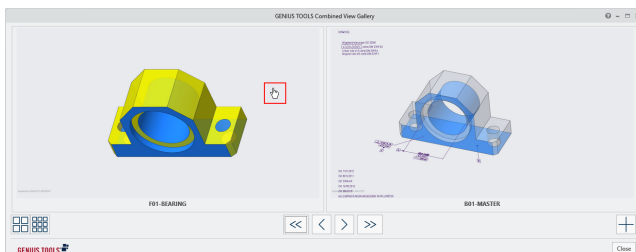


Find References enables the automatic assignment of references to dimensions and finds for displayed dimensions the corresponding semantic references. References which are not found can be assigned manually. It also creates the semantic for Creo Parametric model dimensions that represent ISO-GPS standards.

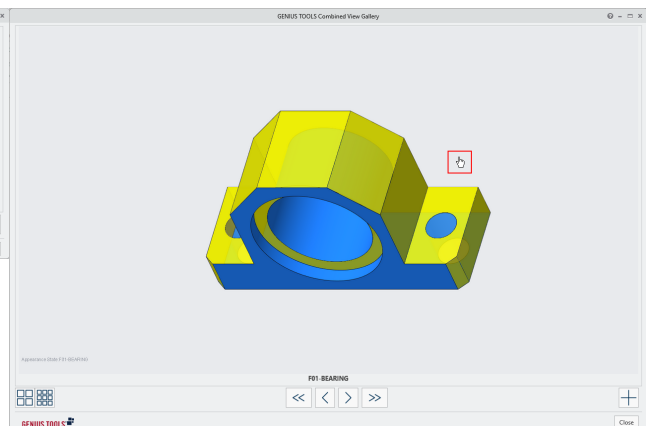


Utilities – Combined View Gallery: Click sequence optimized (12.0.0.0)

If several combined views were added to the gallery, you can switch to the single view by clicking on a combined view. With another click on the combined view, you switch to the last used multiple view.




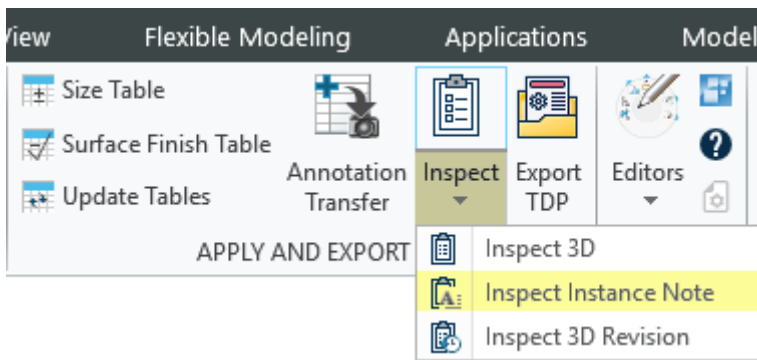
Multiple view



After switching to the single view

Utilities – New function „Inspect Instance Note“ (12.0.1.0)

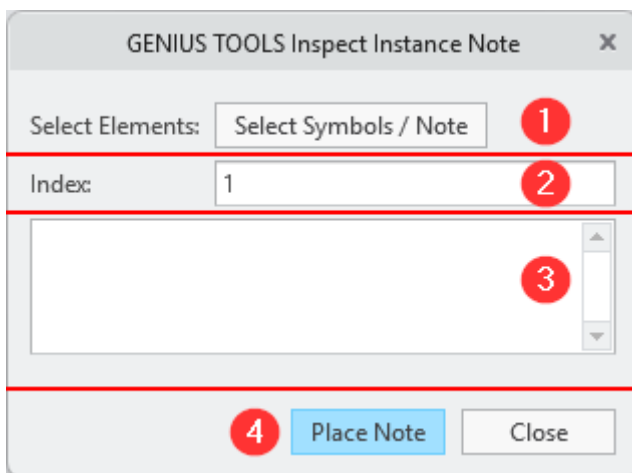
To start *Inspect Instance Note* , click on the *GT MBD* ribbon is in the *APPLY AND EXPORT* section in the drop-down menu under *Inspect*.



With *Inspect Instance Note*, inspection symbols and notes can be selected to add a note. This shows which inspection symbols belong to the respective pattern.

User interface

The user interface of *Inspect Instance Note* consists of the following elements:



Inspect Instance Note dialog box

1. Enables the selection of symbols or a previously created note.
2. Consecutive numbering of notes, starting with 1.
3. Displays the currently selected symbols and notes. This list determines which inspection symbols are listed in the note.
4. Creates the note for placing at the desired positions; all entries from the list are output with the current index. Quit the function by clicking *Close*.

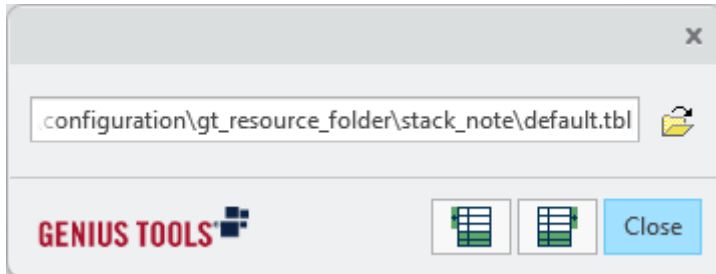
Utilities – New function „Split Table“ (12.0.1.0)

With *Split Table*, you can split a table and place the lower part to the right or left of the original table. The newly created table can be repositioned. This function be opened in *Stack Note* module in drawing mode.

Please note: *Split Table* can be opened in *Stack Note* until Creo version 10.0.0.0 From Creo version 11.0.1.0 onwards, it is also a standalone function.

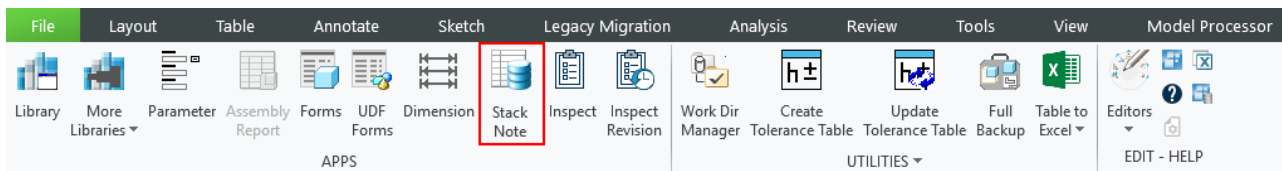
User interface

The user interface of *Split Table*:



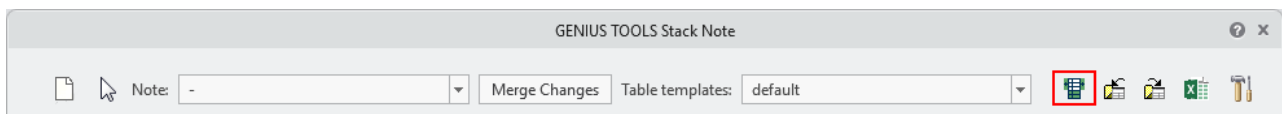
Starting the program: in drawing mode

To start *Stack Note*, click **GENIUS TOOLS** in the ribbon menu and go to *APPS* section.



Starting via the **GENIUS TOOLS** in the ribbon menu

Click in the command bar on *Split Table*:



3 Configuration options

The following configuration options have been added, changed or deleted since version 12.0.1.0.

3.1 New configuration options (12.0.0.0)

Utilities: New configuration options

Combined View Gallery

gtu_combined_view_gallery_creation_rule

Defines a rule, in the form of a regular expression, to find combined views whose screenshot is displayed when the program is started.

GTOL Text

gtu_gtol_text_table_folder

Defines the path where the GTol Text tolerance table files are located.

gtu_gtol_text_lang

Defines the display language of GENIUS TOOLS GTol Text.

Find references

gtu_start_find_references

Defines whether GT Find References can be started by users (1) or by owner (0). Default: 1

Create point and coordinate systems

gtu_start_datum_creation

Defines whether the GT function to create offset coordinate systems and offset points can be started by users (1) or by owner (0). Default: 1

gtu_datum_creation_std_placement_cs

Defines the name for the reference coordinate system. If the coordinate system cannot be found a selection is requested.

gtu_datum_creation_start_feature_numbers

Defines the start for created features.

gtu_datum_creation_cs_prestring

Defines the name of the created feature. Default: MCS_

MCS_%gtu_datum_creation_start_feature_numbers%,
MCS_%gtu_datum_creation_start_feature_numbers% + 1,

gtu_datum_creation_pnt_prestring

Defines the name of the created feature. Default: PNT_

PNT_%gtu_datum_creation_start_feature_numbers%,
PNT_%gtu_datum_creation_start_feature_numbers% + 1,

CS Assembler**gtu_csassembler_use_std_ics_as_fallback**

Defines, if a fallback coordinate system should be used (1) or not (0). This is defined by the XML node *std_ics_name*. This must be clearly defined in the template assembly. Default: 0