

GENIUS TOOLS MBD for ISO GPS

13.0.1.0

Release information

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1 Important information

GENIUS TOOLS for Creo: No support for Creo version 11.0.1.0(12.0.2.0)

PTC Creo version 11.0.1.0 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.

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

XML-Tags: old	XML-Tags: new
@frame	@format

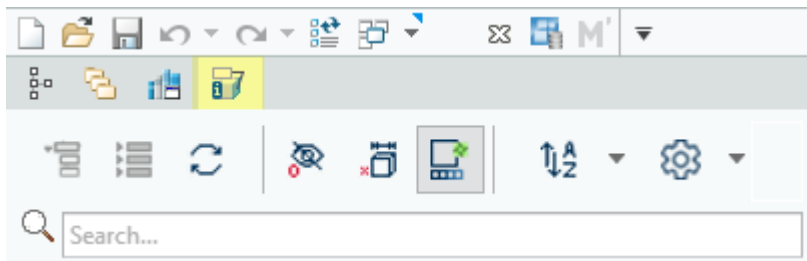
2 What's new in release 13

The following functions were added the GENIUS TOOLS add-on applications for Creo, which are included in GENIUS TOOLS MBD for ISO GPS.

2.1 GENIUS TOOLS MBD Info

New module „MBD Info“ (13.0.0.0)

Start *MBD Info*  in the navigation area:



The module *MBD Info* is an enhancement of the module *Annotation Info* and opens in the navigation area. It offers additional features. In the future, the *MBD Info* will replace *Annotations Info*.

The module is used to display information about all types of annotation elements in combined views. This module lists non-visible information to help you find errors and redundancies.

The following shows the *MBD Info* user interface:

Elements	Visibilit	Semantic	Value	Type	Tolerance
gp13	1	✓ (10)	0.4	⊖ (Profile of a surface)	
gp14	5	✗	0.02	// (Parallelism) B	
gp2	5	✓ (2)	0.01	○ (Roundness)	
gp3	5	✓ (2)	0.02	— (Straightness)	
gp4	5	✓ (4)	0.01	// (Parallelism) D	
gp5	3	✓ (2)	0.02	≡ (Symmetry) A	
gp8	4	✓ (1)	0.01	□ (Flatness)	
gp9	4	✓ (1)	0.2	⊖ (Profile of a surface)	
▼ Datum Tag					
AE_SET_DATUM	5	✓ (2)	A		
AE_SET_DATUM	5	✓ (1)	B		
AE_SET_DATUM	5	✓ (1)	C		
dt7 - C1	5	✗	C1		
dt8 - C2	5	✗	C2		
▼ Driving Dimension					
DRV_DIM_D0 - d	2	T	36	General	+0.3 / -0.3
DRV_DIM_D1 - d	2	T (2)	60	General	+0.3 / -0.3
DRV_DIM_D4 - d	2	T (2)	60	General	+0.3 / -0.3
DRV_DIM_D6 - d	3	✓ (2)	100	h9	0 / -0.087
DRV_DIM_D7 - d	2	T	30	General	+0.2 / -0.2
DRV_DIM_D8 - d	5	✓ (2)	40	H8	+0.039 / -0
Driven Dimension					
Surface Finish					
▼ Symbol					
symbol_14	1	✗		SFELD-KLEIN	
symbol_26	1	✗		TEDS-NACH-PRT-MDI	
Note					

New features:

- a number in parentheses appears after each semantic icon, indicating the number of references.
- update entries in the table
- search bar to filter information
- semantic display for all annotation types (except tables)
- *Detail Info* as a new, compact information source (context menu)
- sort symbols by symbol definition using a configuration option

2.2 GENIUS TOOLS Orientation Manager

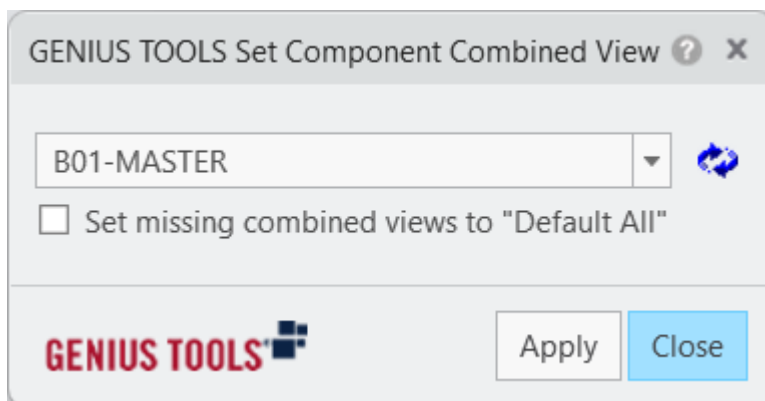
Orientation Manager: Availability in Assembly Mode(13.0.0.0)

The Orientation Manager can be used in assembly mode, offering the same functions as in part mode.

2.3 GENIUS TOOLS Utilities

Utilities – New function „Set Component Combined View“ (13.0.0.0)

Use the utility *Set Component Combined View* to set the combined views of the components in assembly mode.



3 What's new in release 12

The following functions were added the GENIUS TOOLS add-on applications for Creo, which are included in GENIUS TOOLS MBD for ISO GPS.

3.1 GENIUS TOOLS Inspect 3D

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*.

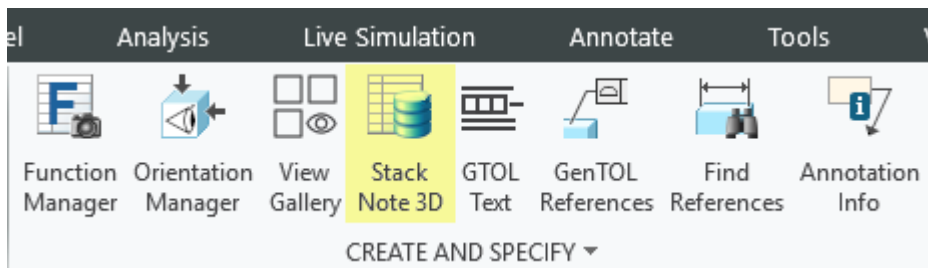
3.2 GENIUS TOOLS Stack Note 3D

New module „Stack Note 3D“ (12.0.1.0)

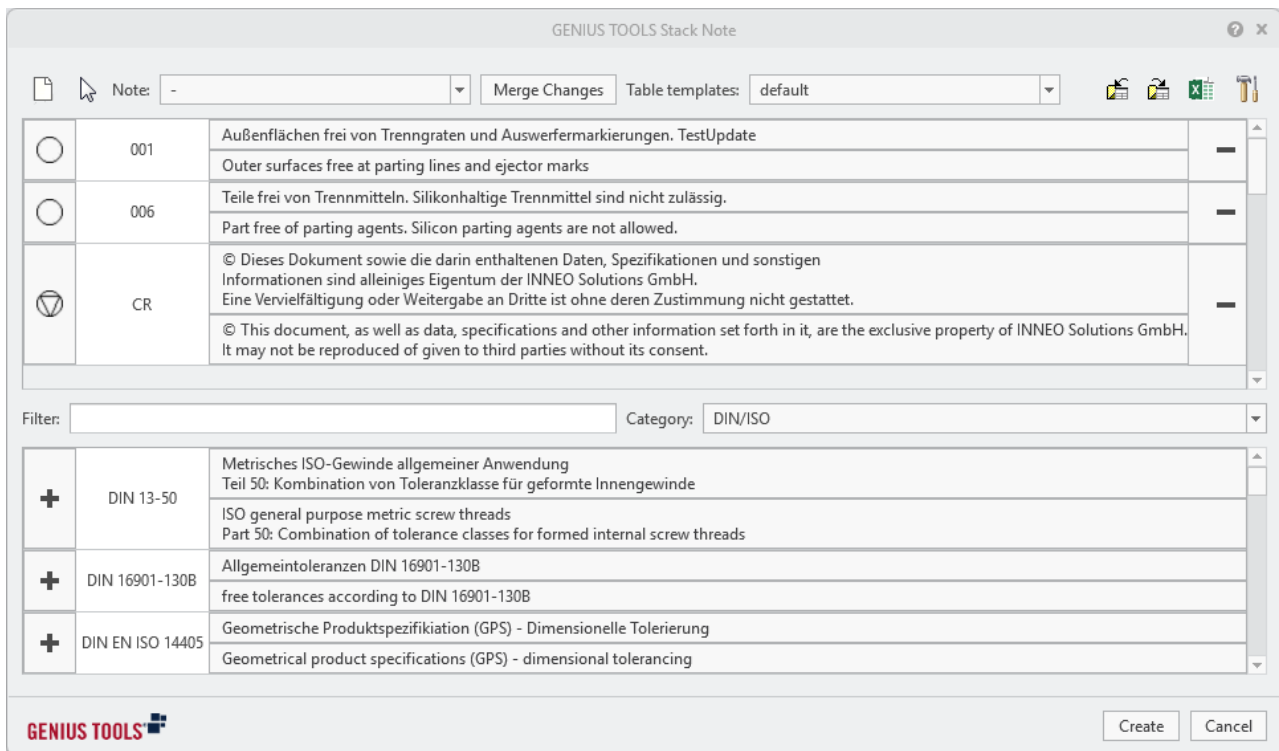
The new extension module *Stack Note 3D* is used to select standardized information and place them in a note in a 3D model. The information elements are predefined by the administrator in a multilingual database and can, for example, contain information on standards or regulations. The note can be exported 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.



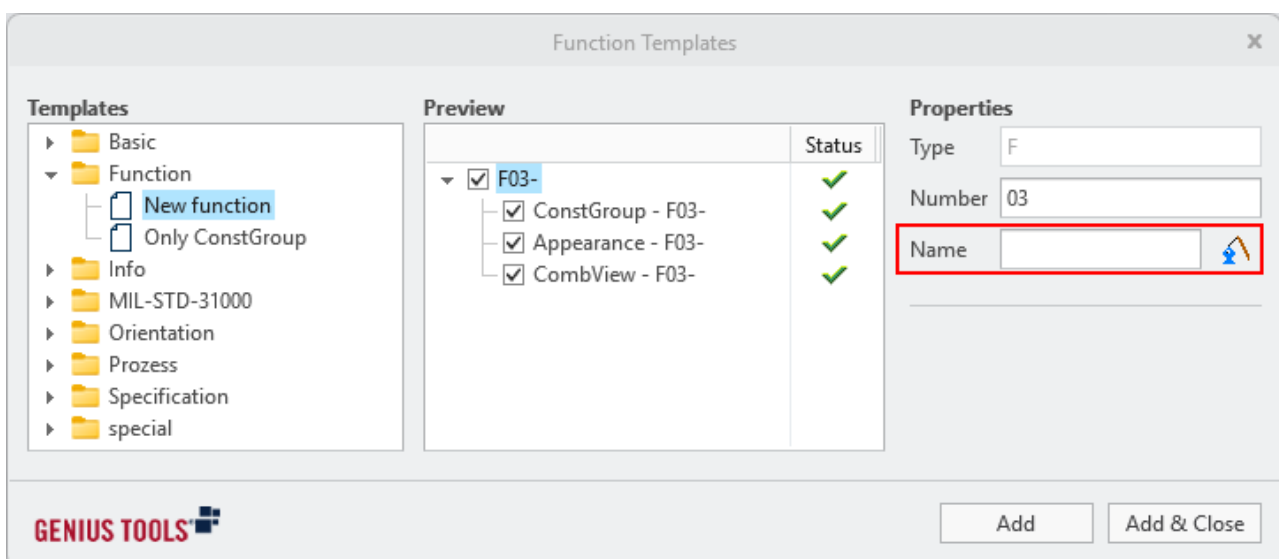
The following shows the *Stack Note 3D* user interface:



3.3 GENIUS TOOLS Function Manager

Function Manager: Name of the combined view from the database (12.0.2.0)

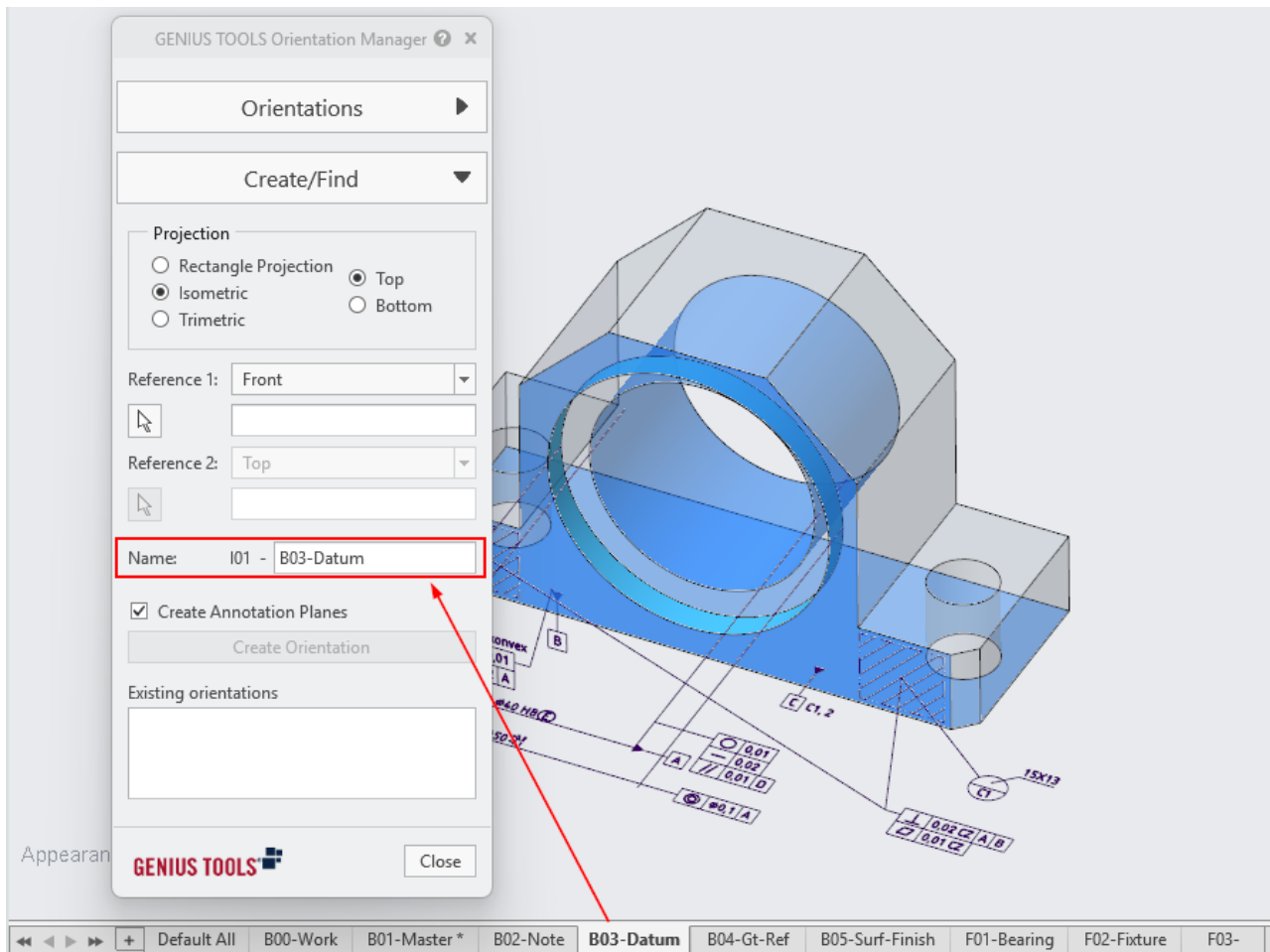
The *Select default text* button allows you to select the names of the combined views from a database. These can be multilingual and stored in different categories.



3.4 GENIUS TOOLS Orientation Manager

Orientation Manager: Name of the active combined view(12.0.2.0)

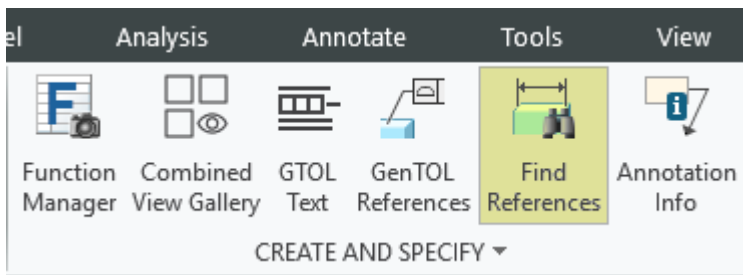
The name of the active combined view is displayed.



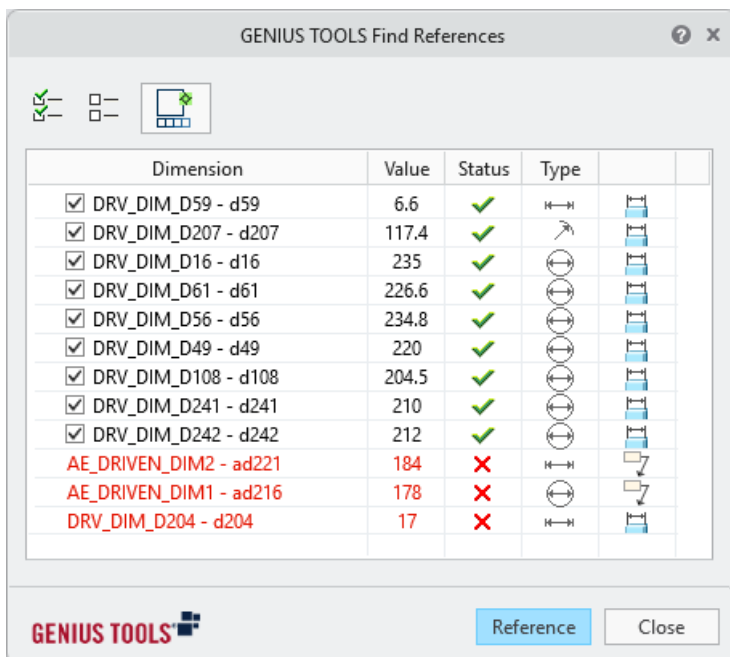
3.5 GENIUS TOOLS Utilities

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.

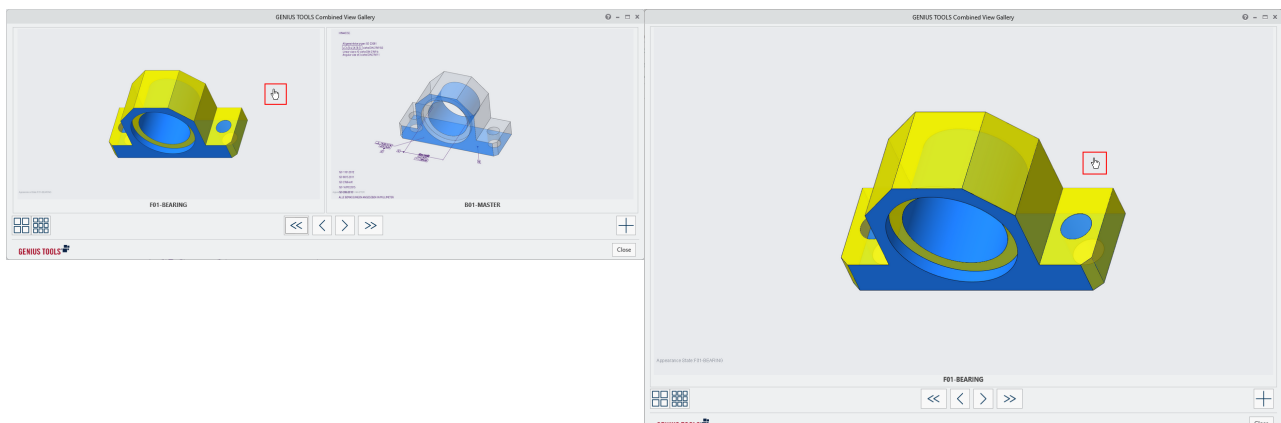


Find References enables the automatic assignment of references to dimensions and finds for displayed dimensions the corresponding semantic references. References which are not found can be assigned manually. It also creates the semantic for Creo Parametric model dimensions that represent ISO-GPS standards.



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.

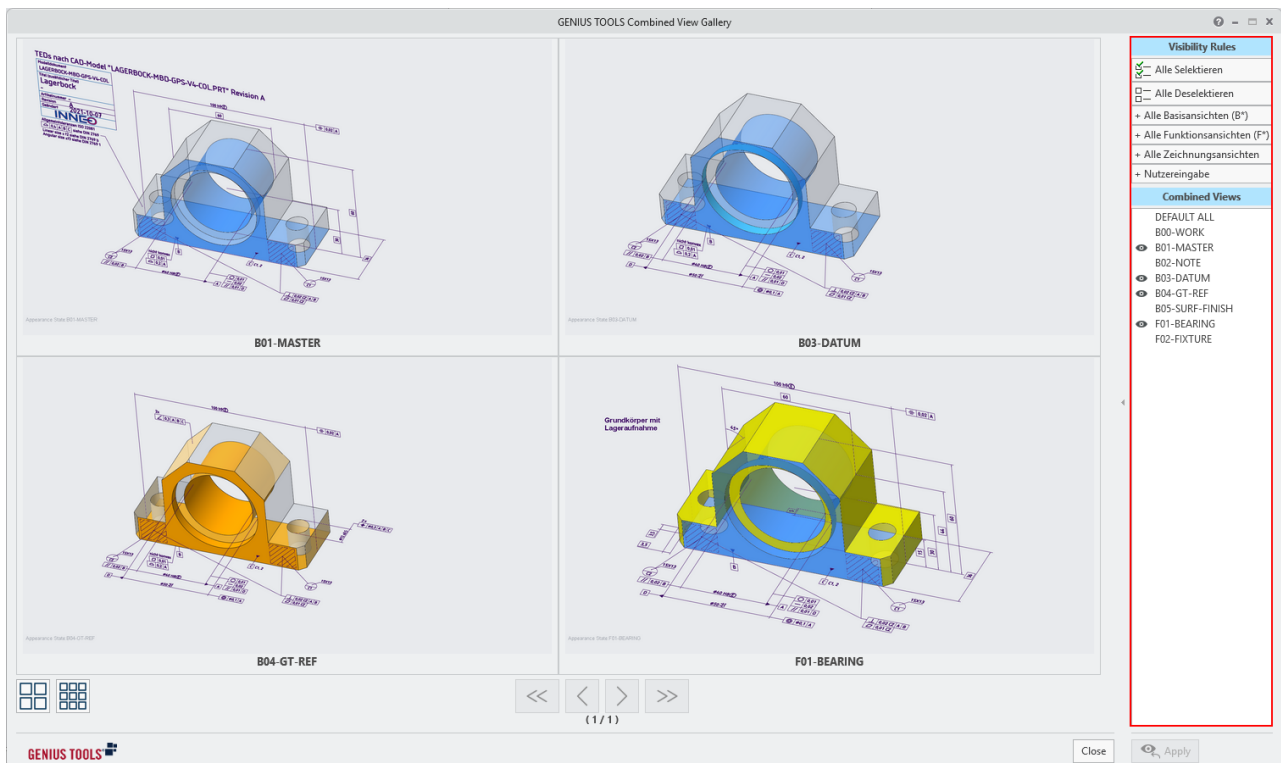


Multiple view

After switching to the single view

Combined View Gallery: Visibility rules for combined views(12.0.2.0)

Visibility rules allow you to select which combined views should be displayed. You can create your own rules in the XML file using RegEx. All views are listed under *Combined Views*. Use the eye icon  to show or hide the combined views.



4 Configuration options

The following configuration options have been added, changed or deleted since version 13.0.1.0.

4.1 New configuration options (13.0.0.0)

Stack Note: New configuration option

gtsn_placement_DB

Defines the file name for the placement database.

gtsn_note_database_external

Defines the file path to the database that contains the additional note elements.

gt_start_stack_note_editor

Defines whether GENIUS TOOLS Stack Note Editor can be started by users . (0 - No, 1 - Yes)

Stack Note 3D: New configuration option

gtsn3d_note_database_external

Defines the file path to the database that contains the additional note elements.

gt_start_stack_note_editor

Defines whether GENIUS TOOLS Stack Note Editor can be started by users . (0 - No, 1 - Yes)

MBD Info: New configuration options

gtmbdinfo_show_hole_notes

Defines whether GENIUS TOOLS Annotations Info should list automatically generated hole notes. (0 - No, 1 - Yes)

gtmbdinfo_excel_template

Defines the name of the basic Excel template.

gtmbdinfo_mandatory_ref_number_for_linear_dimensions

Defines the minimum number of semantic references a linear dimension must have in order to be marked as semantically correct in GENIUS TOOLS Annotation Info.

This applies to:

Driving dimensions

Driven dimensions

Reference dimensions

(Default value: 2)

gtmbdinfo_csfilter_default_activate

Defines whether the combined states filter is activated by default (1) or not (0).

gtmbdinfo_hidden_symbol_definitions_file_path

Defines the folder path to the stored text file with the symbol definitions. Symbols with these definitions are ignored and not listed by GENIUS TOOLS MBD Info.

Utilities: New configuration options

Set Component Combined View

gtu_start_set_component_combined_view

Defines whether GENIUS TOOLS Set Component Combined View can be started by users. (0 - No, 1 - Yes)