

GENIUS TOOLS[®] 

for Creo

Release 7.0.1.0

News

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1 Important information

License-dependent functions

Starting with GENIUS TOOLS for Creo 6.0.1, the product functionality depends on the type of license you are using.

The following functions are limited to subscription licenses for either GENIUS TOOLS Library or GENIUS TOOLS Parameter.

Release	Function / module	Description
6.0.1.0	CS Assembler	Automatically adds a number of components to an assembly by deploying a coordinate system (CS). ⇒ Efficient construction of assemblies
7.0.0.0	Load Save Converter	Converts Creo objects from previous Creo-, Wildfire- or Pro/ENGINEER versions to the currently used version. ⇒ Using models from older Creo versions
7.0.0.0	Inspect Revision	Stores all versions of inspection symbols on a drawing. Easily creates an overview of a revision history. (DIN 6770) ⇒ Revision history of inspection symbols
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. ⇒ Efficient construction of models
7.0.0.0	Select surfaces by color	Surfaces of the same color can be selected with one click and be colored or otherwise modified thereafter. ⇒ Efficient construction of models
7.0.0.0	Extend relations	Adds functions to model relations that define parameters for models and – in Creo 7.0 – also for bodies.

GT_UpdateBodyParamMaterial(): Body parameter retrieves material parameter

GT_CalculateBodyBoundingBox(): Body parameter retrieves bounding box values

GT_CalculateBoundingBox(): Model parameter retrieves bounding box values

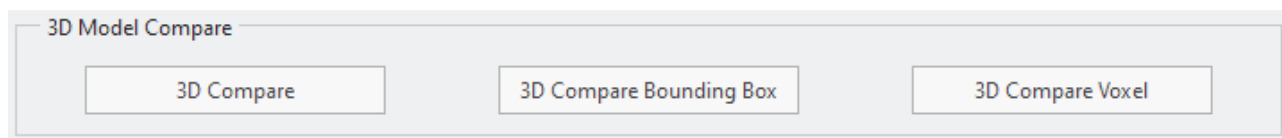
⇒ Efficient construction of models

2 New features in version 7.0.1.0

2.1 GENIUS TOOLS Library

3D Search

If the selected library contains 3D-indexed objects, the section *3D Model Compare* for searching for 3D-like objects appears in the dialog box of the Advanced Search.




Section "3D Model Comparison" in the Advanced Search dialog

The search buttons correspond to the search operators *mdl3d*, *mdl3d_bb* or *mdl3d_vo* which you can alternatively enter directly in the search field.

Objects are indexed in GENIUS TOOLS Library Editor in the *Batch Mode* dialog.

2.2 GENIUS TOOLS Utilities

Select surfaces by color: Select quilts

The function *Select Surfaces by Color* now also allows you to select colored quilts. Selected quilts are highlighted in the model and can thus easily be recolored or be otherwise modified. The button  for GENIUS TOOLS Select Surfaces by Color is available in part mode in the segment UTILITIES in GENIUS TOOLS ribbon menu.

Please note: GENIUS TOOLS Select Surfaces by Color is only available with subscription licenses for GENIUS TOOLS for Creo.

CS Assembler: Component coordinate system can be defined in XML file

A target coordinate system, which is needed to add parts to an assembly, can in addition to the component parameters *CLASSIFICATION* and *SUBTYPE* now also be identified by an entry in the XML file that contains the assembling instructions. The name of the coordinate systems has to be given to the attribute *ics_name* in the XML file.

This provides several possibilities to find a coordinate system. The combinations of attributes which are allowed are:

`classification` and `subtype`

`classification` and `ics_name`

Do not simultaneously use `classification`, `subtype` and `ics_name`.

Extend relations


There are two new functions which extend relations.

3. GT_DoubleToString

Function rounds parameter values according to IEEE 754 and converts the received numbers into strings.

4. GT_Round

Function rounds parameter values commercially and converts the received numbers into strings.

The functions are listed in the *Insert Function* dialog which opens with the functions button  in Creo's menu ribbon *Tools > Relation* in part and assembly mode.

2.3 Java Script Editor

New function: PostLoadFromFile

The function `PostLoadFromFile` will be automatically executed after loading a value table (CSV/XML).

```
function PostLoadFromFile() {
...
}
```

It is executed after the function `PostLoad`, if `PostLoad` defined.

3 Configuration options

The following configuration options have been added, changed or deleted since version 6.0.2.

3.1 New configuration options (7.0.1.0)

GENIUS TOOLS Inspect

gti_excel_export_file

Defines the default name of an exported report file. You can use the GENIUS TOOLS for Creo variables. (For example: ""=%PART_NO%_%CAD_REVISION%_%CAD_CREATED_ON%")

gti_excel_export_path

Defines the default path for saving reports.

GENIUS TOOLS Inspect Revision

gt_start_inspect_revision

Defines whether GENIUS TOOLS Inspect Revision can be started by users (1) or not (0).
Standard: 1

gti_revision_excel_export_file

Defines the default name of an exported report file. You can use the GENIUS TOOLS for Creo variables. (For example: ""=%PART_NO%_%CAD_REVISION%_%CAD_CREATED_ON%")

gti_revision_excel_export_path

Defines the default path for saving reports.

GENIUS TOOLS Library

gtl_editor_use_black_on_white_for_screenshots

Defines, whether preview images in the batch mode will be created with the system colors "Black on White" (1) – i. e. the images will have a white background – or with the current color settings (0).

4 Copyright

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