Creo Intelligent Fastener 7.0.6.1 & 7.0.7.0

What‘s New

Fixed Bugs

- Fixed problems while regenerating relations.
- A gap was created between the fastener and the placement surface while placing a fastener on very thin models. SPR-13085083

- For more information see changelog.html.

Creo Intelligent Fastener 7.0.6.0

What‘s New

Fixed Bugs

- Reading of *.hol files in IFX reworked.
- Add corruption check for IFX fastener groups. SPR-10503770
- Option 'GEN_DIGITS' removed. SPR-12778104
- Rework functionality if 'HOLE_VISIBILITY' is set to 'NO’. SPR-13074974

- For more information see changelog.html.

Creo Intelligent Fastener 7.0.5.0

What‘s New

Improvements

- Add Additional Tools information offered by B&W Software GmbH.
- Support body colors for 2D-preview.

- For more information see changelog.html.

Creo Intelligent Fastener 7.0.4.0

What‘s New

Enhancements

- Support Unicode characters in *param_relation.txt*. SPR-11357093
- Disallow thread-surfaces as a position reference. SPR-11285257

- For more information see changelog.html.

Creo Intelligent Fastener 7.0.3.0

What‘s New

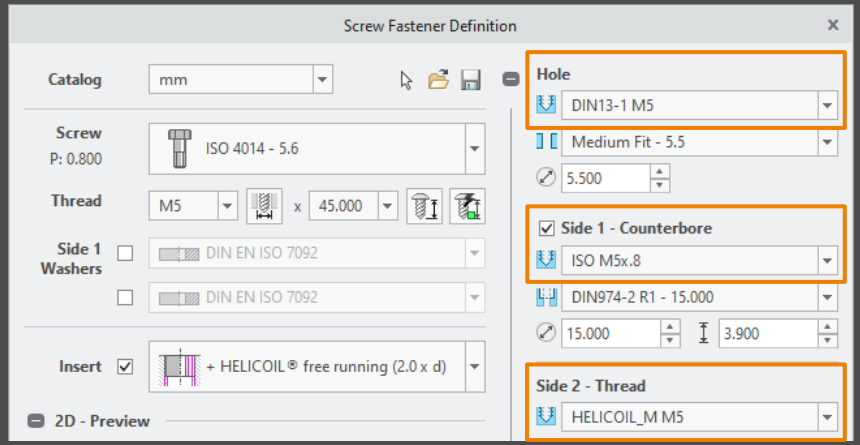
Select hole chart for IFX holes

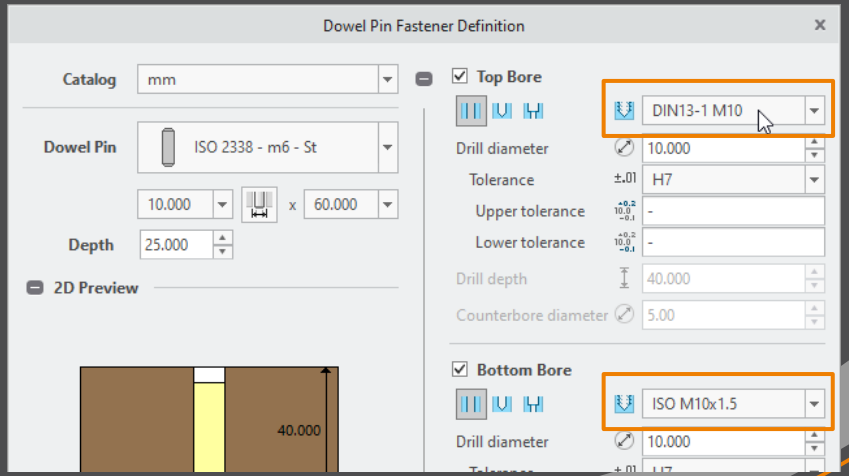
Advantages

- Use different hole charts for different fastener types.
- Show different hole notes.
- Control the counterbore diameter with CBOREDIAM.

Details/ Usage

- Select hole chart for IFX holes if more then one is found.
- Use the new keyword THREAD_NAME in your fastener data file to preselect a hole chart.





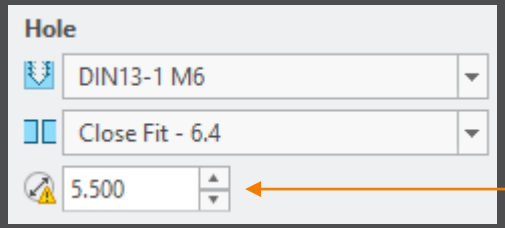
Add option to control clearance hole behavior

Advantages

- Use the same behavior than Creo Parametric.
- Allow to disable limits for the hole diameter.

Details/ Usage

- Control hole diameter behavior in the Screw Fastener Definition dialog box inside the Hole layout.
- Control the limits for the hole and set the diameter to read only.



CLEARANCE_HOLE_USE_LIMITS

- *YES* – Set limits for min. and max. clearance hole diameter.
- *NO* – Do not set any limits for clearance hole diameter.

CLEARANCE_HOLE_DIAMETER_OVERRIDE

- *CREO_DEFAULT* – Use the value of the *hole_diameter_override* configuration option.
- *YES* – Allow specifying the clearance hole value, instead of the standard value.
- *NO* – Use the standard clearance hole diameter value.

Creo Intelligent Fastener 7.0.2.0

What‘s New

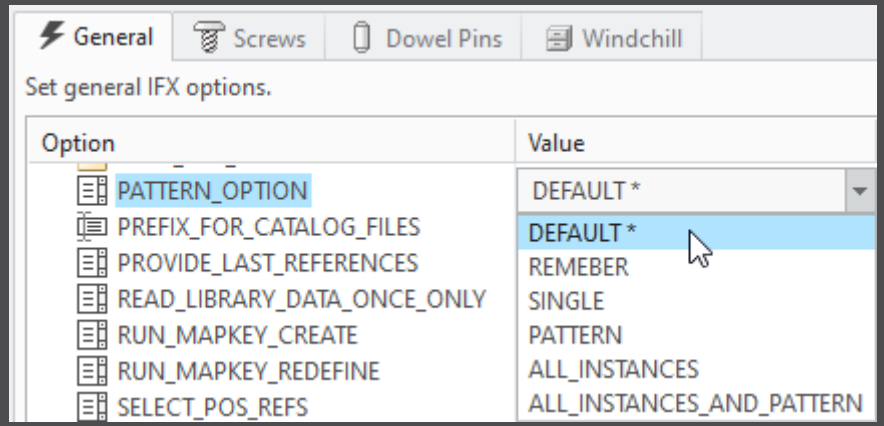
Add new option – PATTERN_OPTION

Advantages

- Set a preferred pattern option.
- Use same default for all users.
- Save time while creating a fastener.

Details/ Usage

- Set the new general *PATTERN_OPTION* to your preferred value.
- Use *REMEMBER* to preselect the last option you used for your last fastener.



- *DEFAULT* – Use the IFX - default pattern option
- *REMEMBER* – Remember last selected pattern option.
- *SINGLE* – Select 'Assemble single instance'.
- *PATTERN* – Select 'Pattern fastener'.
- *ALL_INSTANCES* – Select 'Assemble fastener on all instances'.
- *ALL_INSTANCES_AND_PATTERN* – Select 'Assemble fastener on all instances and pattern it'.

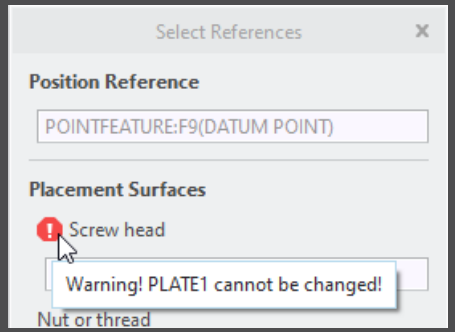
Show an alert if part cannot be changed

Advantages

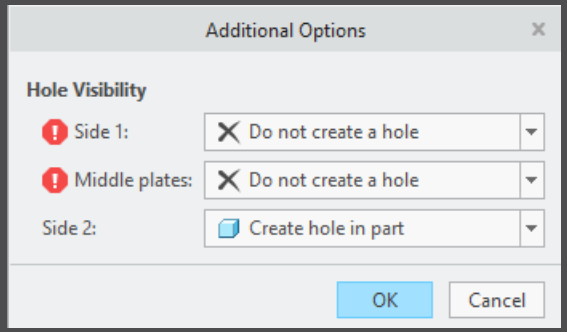
- Only changeable parts are changed.
- Prevents changes from getting lost.

Details/ Usage

- If a part is not changeable, a red alert is shown.
- The hole creation is disabled by default.
- In this case, the user must allow the hole to be created.



Already get an alert while selecting the placement references in the ‚Select Reference‘ dialog.



If at least one part is found that must not be changed, the user must enable the creation of the hole in the 'Additional Options' dialog.

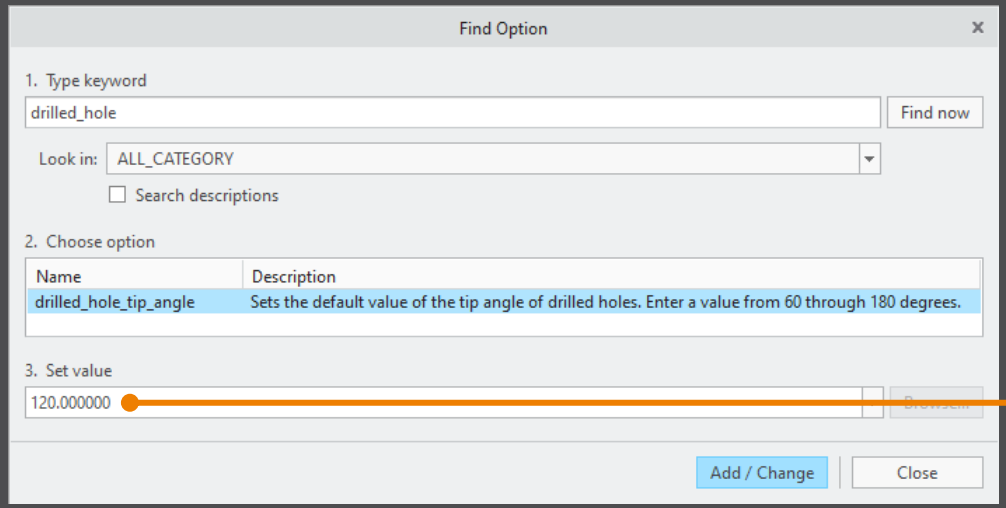
Use option *drilled_hole_tip_angle* in IFX

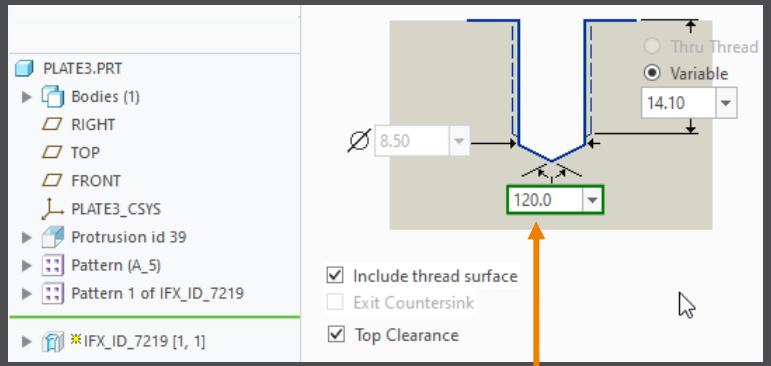
Advantages

- Intelligent fastener use same settings as Creo Parametric.
- No need to change the tip angle afterwards.

Details/ Usage

- If the Creo Parametric option *drilled_hole_tip_angle* is set, IFX uses this value.
- If the option is not set, the default angle 118° is used.





Creo Intelligent Fastener 7.0.0.0

What‘s New

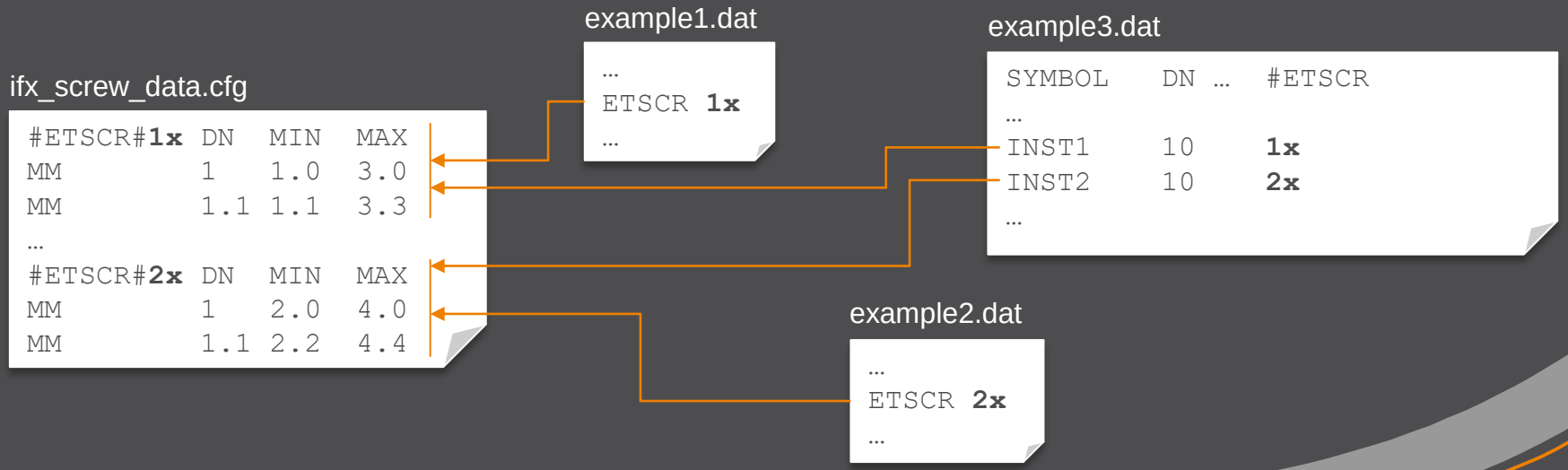
Enhance Usage of ifx_data.cfg Files

Advantages

- Use different configuration values for different fastener types or sizes.
- More flexibility and better customization possibilities.

Details/ Usage

- Add #KEYWORD#NAME to your ifx_screw_data.cfg or ifx_pin_data.cfg.
- Add KEYWORD and NAME to your fastener data file (*.dat) or optionally add a column with #KEYWORD and with NAME for each instance.



Enhance Placement References

Advantages

- Use one name instead of different item ids.
- Easier to customize, more intuitive and clearer.
- More flexibility – different ids for each instance in your Fastener Data File.

Details/ Usage

- Add a name to SURFACE, AXIS and ORIENT instead of item ids.
- Add columns #SURACE, #AXIS and #ORIENT to control item ids of each fastener instance.

Before

```
SURFACE   29   12   128   296
AXIS      10    8   117    24
```

After

```
SURFACE   PLACEMENT_SURFACE
AXIS      PLACEMENT_AXIS
```

Before

```
SURFACE   29   12   128   296   75   61   …
AXIS      10    8   117    24   12    5   …
```

After

```
SYMBOL    DN …   #SURFACE   #AXIS
…
INST1     10          29      12
INST2     10          12       8
INST3     10         128     117
…
```

Enhance usage of relations

Advantages

- Better control of relation creation for your fastener.
- Easy parameter/relation customization of different fasteners.
- More flexibility in using relations.

Details/ Usage

- Add the name of the catalog to your param_relations.txt file name.
- Add the type of your fastener to your param_relations.txt file name.

Examples

`param_relations_mm_screws.txt`	→ For all screws from the mm catalog
`param_relations_inch.txt`	→ For all fasteners from the inch catalog
`param_relations_nuts.txt`	→ For all nuts from all catalogs

Minitoolbar Support

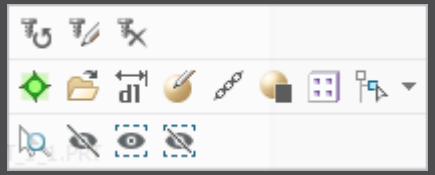
Advantages

- Fast access to the most important IFX commands.
- Recuse the mouse movement.

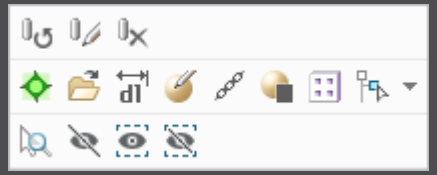
Details/ Usage

- Click on a fastener to see the possible interaction.
- Redefine, Reassemble or Delete the selected fastener easily.

Screws



Dowel Pins



Multibody Support

Advantages

- Use the new PTC Creo multibody possibilities in IFX too.
- IFX holes are created in all bodies.

Details/ Usage

- Simply assemble a new fastener.
- IFX create the holes for you in all necessary bodies.