

Creo Intelligent Fastener 7.0.10.0



Fixed Bugs



- Problem with resetting the hole note fixed.
 The 'RUN_MAPKEY_*' options have been removed.
 New API is used to reset the note. SPR-13760849
- Fixed problem with *.dat file having lines with the empty tabs.
 In this case the size was shown as 0 (zero). SPR-13807791

For more information see <u>changelog.html</u>.



Creo Intelligent Fastener 7.0.9.0



Fixed Bugs



- Remove blanks at the end of an instance name.
- Fixed reading of hole charts regarding 12 or 18 columns. SPR-13804155
- Fixed problem with the determination of the minimum and maximum diameter of the countersink.
- The values from 'ifx_start_mdl.cfg' are assigned before creating new parameters from the *.dat file. Otherwise, the designated status will be lost.
- Fixed problem with placement of nut or insert in subassembly.
- Fixed an error when reading *.dat files. If a line contained more than 256 characters, a crash occurred.

For more information see <u>changelog.html</u>.



Creo Intelligent Fastener 7.0.8.0



Fixed Bugs



- Problem with redefinition of countersunk screws fixed.
- Fixed Creo crash when Redefine a screw fastener. SPR-13483120
- Fixed a problem in the screw dialog file. If the 'STRING' contains a space, the file is corrupted.
- Fix diameter error in 'Unhardened_Ground.dat'. Change wrong diameters to '0.6250'.
- For more information see <u>changelog.html</u>.





Creo Intelligent Fastener 7.0.6.1 & 7.0.7.0



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



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



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



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



Select hole chart for IFX holes



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

Details/ Usage

Advantages

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.

Screw Fastener Definition	х	Dowel Pin Fastener Definition					
Catalog mm ▼ ▷ ▷ □ Screw ISO 4014 - 5.6 ▼	Hole ∐ DIN13-1 M5 ▼ ☐ Medium Fit - 5.5 ▼	Catalog mm ▼ ■ ✓ Top Bore Dowel Pin ISO 2338 - m6 - St ▼ Drill diameter ✓ 10.000	*				
Thread M5 Image: A state of the state o	✓ 5.500 ▲ ✓ Side 1 - Counterbore ☑ ISO M5x.8 ▼	Tolerance±.01H710.000 \downarrow \downarrow Upper tolerance 1000 Depth25.000 \checkmark Lower tolerance 1000 C 2D PreviewDrill depth \downarrow 40.000					
Insert V + HELICOIL® free running (2.0 x d) V	Image: Display to the imag	Counterbore diameter ⊘ 5.00 ✓ Bottom Bore ↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓	▲ ▼ ▼				
C 2D - Preview	U HELICOIL_M M5	40.000					

Add option to control clearance hole behavior

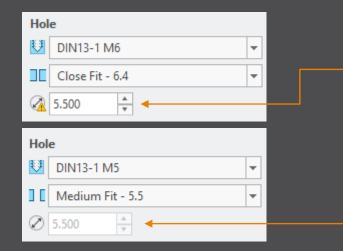


Advantages

- 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



Add new option – PATTERN_OPTION



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

Details/Usage

Advantages

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

F General 🗑 Screws 🗍 Dowel Pins	🗐 Windchill
Set general IFX options.	
Option	Value
E PATTERN_OPTION	DEFAULT *
PREFIX_FOR_CATALOG_FILES	DEFAULT*
PROVIDE_LAST_REFERENCES	REMEBER
READ_LIBRARY_DATA_ONCE_ONLY	SINGLE
RUN_MAPKEY_CREATE	PATTERN
RUN_MAPKEY_REDEFINE	ALL_INSTANCES
E SELECT_POS_REFS	ALL_INSTANCES_AND_PATTERN

- 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.

Select References	×
Position Reference	
POINTFEATURE:F9(DATUM POINT)	
Placement Surfaces	
Crew head	
Warning! PLATE1 cannot be changed!	
Nut or thread	_

Already get an alert while selecting the placement references in the ,Select Reference' dialog.

Additional Options						
Hole Visibility						
🚺 Side 1:	🗙 Do not create a hole	-				
Middle plates:	🗙 Do not create a hole					
Side 2:	🗇 Create hole in part	•				
	ОК	Cancel				

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.

	Find Option	×		į	ļ	↑ O Thru Thread
1. Type keyword drilled_hole Look in: ALL_CATEGORY Search descri		now	PLATE3.PRT Gamma Bodies (1) RIGHT TOP FRONT L PLATE3_CSYS	Ø 8.50 v		● Variable 14.10 ▼
2. Choose option Name drilled_hole_tip_angle	Description Sets the default value of the tip angle of drilled holes. Enter a value from 60 through 180 deg	ees.	 Protrusion id 39 Pattern (A_5) Pattern 1 of IFX_ID_7219 MIFX_ID_7219 [1, 1] 	 ✓ Include thread surface Exit Countersink ✓ Top Clearance 	•	ß
3. Set value 120.000000	Add / Change	·				



Creo Intelligent Fastener 7.0.0.0



Enhance Usage of ifx_data.cfg Files

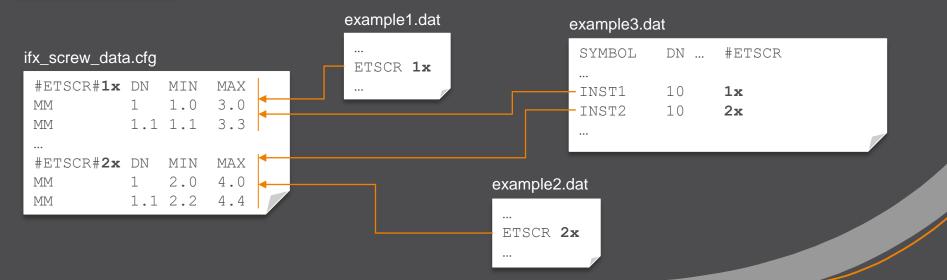


Advantages

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



- 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

Advantages

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



• Better control of relation creation for your fastener.

Advantages

- 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

param_relations_inch.txt

param_relations_nuts.txt

For all screws from the mm catalog
 For all fasteners from the inch catalog
 For all nuts from all catalogs

Minitoolbar Support



Advantages

Fast access to the most important IFX commands. <u>Recuse the mouse movement.</u>

Details/Usage

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



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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.