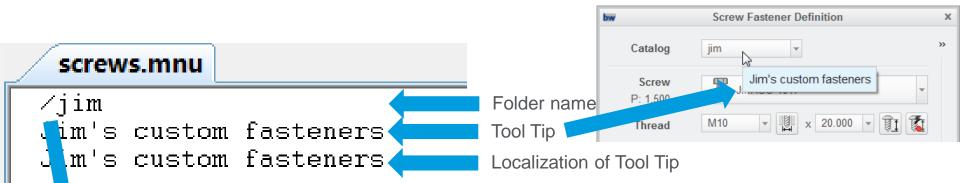
# PTC<sup>®</sup> PRODUCT & SERVICE ADVANTAGE<sup>®</sup>

# Migrating Legacy Fasteners to IFX



## Populating Screws.mnu

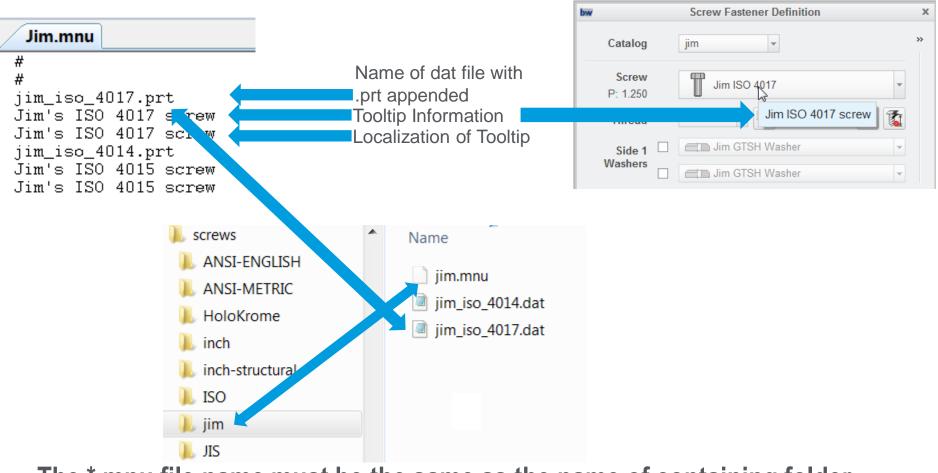
#### Located in Screws folder



<b>@_</b>	✓ Creo 3.0 ► M030 ► Con	nmon Files ► afx ► parts ► scr	rews_and_pins ► screws ►	jim 👻 🐓	Search jim	Q
File Edit	iew Tools Help					
Organize 🔻	Include in library 🔹 Sh	nare with 🔻 Slide show B	urn New folder			
	👢 pins	Name	Date	Туре	Size T	ags
	<ul> <li>screws</li> <li>ANSI-ENGLISH</li> <li>ANSI-METRIC</li> </ul>	☐ jim.mnu ⓓ jim_iso_4014.dat ⓓ jim_iso_4017.dat	27/02/2015 11:41 27/02/2015 10:31 27/02/2015 11:42	MNU File DAT File DAT File	1 KB 1 KB 1 KB	
	<ul> <li>HoloKrome</li> <li>inch</li> <li>inch-structural</li> </ul>					
	JSO jim   JIS					

## Populating custom Screw mnu file

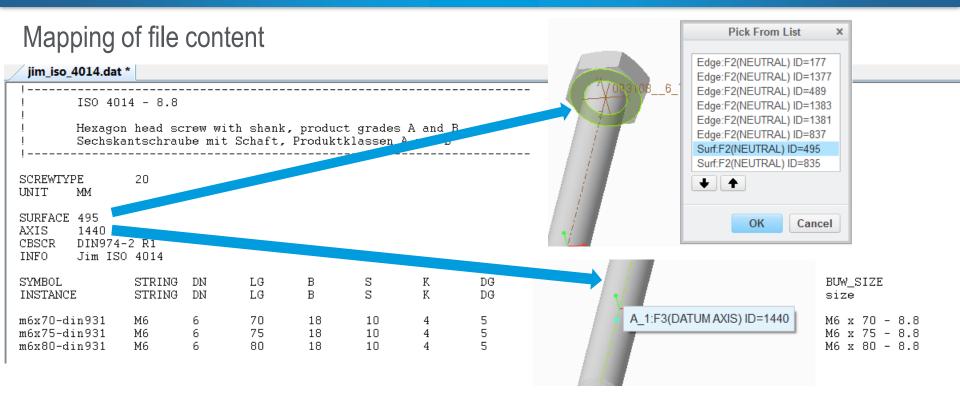
#### Mapping of file content



The \*.mnu file name must be the same as the name of containing folder.

## PTC®

Mapping of file content	File Edit View Tools Help Organize  Include in library	Common Files  Afx  Configure of the conf	uration > types > screw > screv Burn New folder	v_20 • • Search	screw_20 P
I ISO 4014 - 8.8 I Hexagon head screw with shank, Sechskantschraube mit Schaft, I Sechskantschraube mit Schaft, I SCREWTYPE 20 UNIT MM SURFACE 495 AXIS 1440 CESCR DIN974-2 R1 INFO Jim ISO 4014	afx configuration configuration drawing_templates types inserts nut pin screw screw_01 screw_02 screw_03 screw_20	screw_20.dat	screw_20.gif screw		g screw_20_icon.gif
SYMBOL STRING DN LG INSTANCE STRING DN LG	B S K B S K	DG P DG P	BUW_NAME name	BUW_TYPE type	BUW_SIZE size
m6x70-din931 M6 6 70 m6x75-din931 M6 6 75 m6x80-din931 M6 6 80	18 10 4 18 10 4 18 10 4	5 1 5 1 5 1	hexheadscrew hexheadscrew hexheadscrew	ISO 4014 ISO 4014 ISO 4014	M6 x 70 - 8.8 M6 x 75 - 8.8 M6 x 80 - 8.8



#### config.pro option show\_selected\_item\_id yes

#### CBSCR mapped to \afx\configuration \sl\_data.cfg

	jim_i	iso_4	014.	dat *				
ļ								
1			TCO	4014	_	Q	Q	

! ISC	) 4014 – 8	.8									
			vith shank it Schaft,								
SCREWTYPE UNIT MM	20						 	COUNT	ERBOREDIAMETER H		
							#CBSCR	DN	DIN974-2 R1	DIN974-2 R2	
SURFACE 495							MM	1	2.2	0	
AXIS 144 CBSCR DIN	4U 1974-2 R1						MM	1.2	2.5	0	
	a ISO 4014						MM	1.4	3	0	
							MM	1.6	3.5	3.5	
SYMBOL	STRI		LG	В	ន	K	MM	1.8	3.8	0	
INSTANCE	STRI	NG DN	LG	В	S	K	MM	2	4.4	5	
m6x70-din93	31 M6	6	70	18	10	4	MM	2.5	5.5	6	8.8
m6x75-din93		6	75	18	10	4	MM	3	6.5	7	8.8
m6x80-din93	81 M6	6	80	18	10	4	MM	3.5	6.5	8	8.8
										-	



#### Mapping of file content

jim_iso_40	L4.dat *						
! ! H€		ad sci				uct grades A and B tklassen A und B	
SCREWTYPE UNIT MN	20 1				bw	Screw Fastener Definition X	
SURFACE 49 AXIS 14	95 140					Catalog jim v	
	N974-2 R1 m ISO 401				-	Screw Jim ISO 4014	
SYMBOL INSTANCE		RING RING	DN DN	LG LG	B B	Thread     M6     Image: M6	
m6x70-din9 m6x75-din9 m6x80-din9	931 M6		6 6 6	70 75 80	18 18 18	Side 1         Image: Side 1         Image: Side 1         Image: Side 1         M6 x 70 - 8.8           Washers         Image: Side 1         Image: Side 1         Image: Side 1         M6 x 75 - 8.8           Image: Side 1         Image: Side 1         Image: Side 1         Image: Side 1         M6 x 70 - 8.8           Image: Side 1         Image: Side 1         Image: Side 1         Image: Side 1         M6 x 70 - 8.8           Image: Side 1	



#### Mapping of file content

jim_iso_4014.dat	*										
! ! ISO 40	14 - 8.8										
l i					,		_				
l ! Hexago ! Sechsk	n head so antschrau	crew wi ube mit	th shank Schaft,	, product Produkt	: grade: (lassen	s A and . A und B	В				
!											
SCREWTYPE UNIT MM	20										
SURFACE 495											
AXIS 1440 CBSCR DIN974	-2 R1										
INFO Jim IS	0 4014										
SYMBOL	STRING		LG	B B	S S	K K	DG	P	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	STRING	DN	LG	В	2	К	DG	Ρ	name	type	size
m6x70-din931 m6x75-din931	M6 M6	6 6	70	18 18	10 10	4 4	5 5	1 1	hexheadscrew hexheadscrew	ISO 4014 ISO 4014	M6 x 70 - 8.8 M6 x 75 - 8.8
m6x80-din931	M6	6		18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 80 - 8.8
1											
bw	ew Fa	stener De	finiti		×						
					»						
Catalog	jir	<b>*</b>									
Screw	- General	SO 4014									
P: 1.000	Jimi	50 40 14	-								
Thread	M6	- 📱 ,	c 70.000	- ÎI 🚺				-			
Side 1									hing the		
Washers									of the nut		
						n	nust ma	tch the	e pitch of		
							the	footor	oor		

the fastener



#### Mapping of file content

jim_iso_4014.da	at *											
! ! Hexag	014 - 8.8 on head so kantschrau	crew wi ube mit	th shank Schaft,	, produc Produkt	t grades klassen	A and B A und B						
SCREWTYPE UNIT MM	20	20										
	4-2 R1 SO 4014											
SYMBOL INSTANCE	STRING STRING		LG LG	B B	ន	K K	DG DG	P P	BUW_NAME name	BUW_TYPE type	BUW_SIZE size	
m6x70-din931 m6x75-din931 m6x80-din931	M6 M6 M6	6 6 6	70 75 80	18 18 18	10 10 10	4 4 4	5 5 5	1 1 1	hexheadscrew hexheadscrew hexheadscrew	ISO 4014 ISO 4014 ISO 4014	M6 x 70 - 8.8 M6 x 75 - 8.8 M6 x 80 - 8.8	
<u>(E)</u> 	WTYPE 20	S	K LG		* 2D	- Preview	20.000		15.000			



#### Mapping of file content

	/ jim_iso_	4014.dat	*										
	   	ISO 401	14 - 8.8										
	! ! !	Hexagon head screw with shank, product grades A and B Sechskantschraube mit Schaft, Produktklassen A und B											
	SCREWTY UNIT	PE MM	20										
	SURFACE AXIS CBSCR INFO	495 1440 DIN974- Jim ISC											
	SYMBOL INSTANC	E	STRING STRING	DN DN	LG LG	B B	S S	K K	DG DG	P P	BUW_NAME name	BUW_TYPE type	BUW_SIZE size
	m6x70-d m6x75-d m6x80-d	in931	M6 M6 M6	6 6 6	70 75 80	18 18 18	10 10 10	4 4 4	5 5 5	1 1 1	hexheadscrew hexheadscrew hexheadscrew	ISO 4014 ISO 4014 ISO 4014	M6 x 70 - 8.8 M6 x 75 - 8.8 M6 x 80 - 8.8
ĵ													

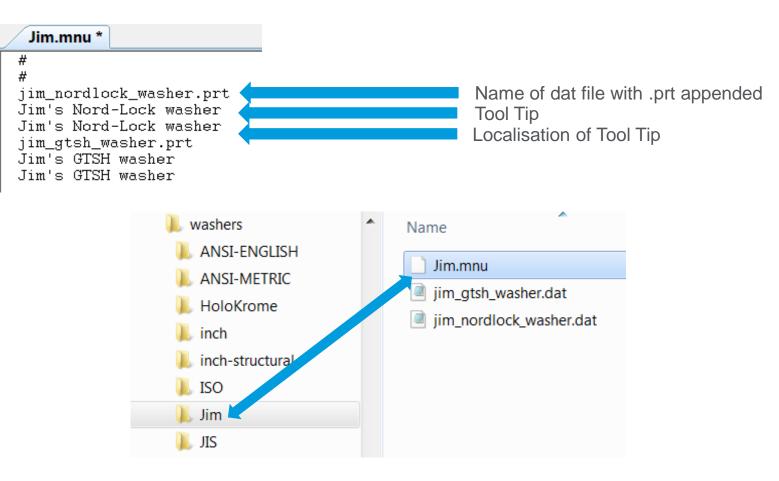
Can be deleted for custom fasteners

## Populating washers.mnu

#### Located in Washers folder

washers.mnu				
Jim /Jim		Folder Name		
J抗's custom fa	asteners 🦕 🚃	Tooltip Information	١	
Jin's custom fa	asteners 📛 🗕	Localization of too		
	•		·	
	on Files  Afx  Afx  Afx  Afx  Afx  Afx  Afx  Afx	ns ▶ washers ▶ Jim	🕶 🍫 Search Jim	م
File Edit Vi 7 Tools Help				
Organize 🔹 include in library 🔹 Share	e with ▼ Burn New folder			:=
⊳ pins ·	Name	Date modified	Туре	Size
⊳ screws	Jim.mnu	27/02/2015 10:31	MNU File	1 KB
ANSI-ENGLISH	jim_gtsh_washer.dat	27/02/2015 10:31	DAT File	1 KB
ANSI-ENGLISH	jim_nordlock_washer.dat	27/02/2015 10:31	DAT File	1 KB
HoloKrome				
👢 ch				
📜 ch-structural				
Jim 📜				
I JIS				





#### The \*.mnu file name must be the same as the name of containing folder.

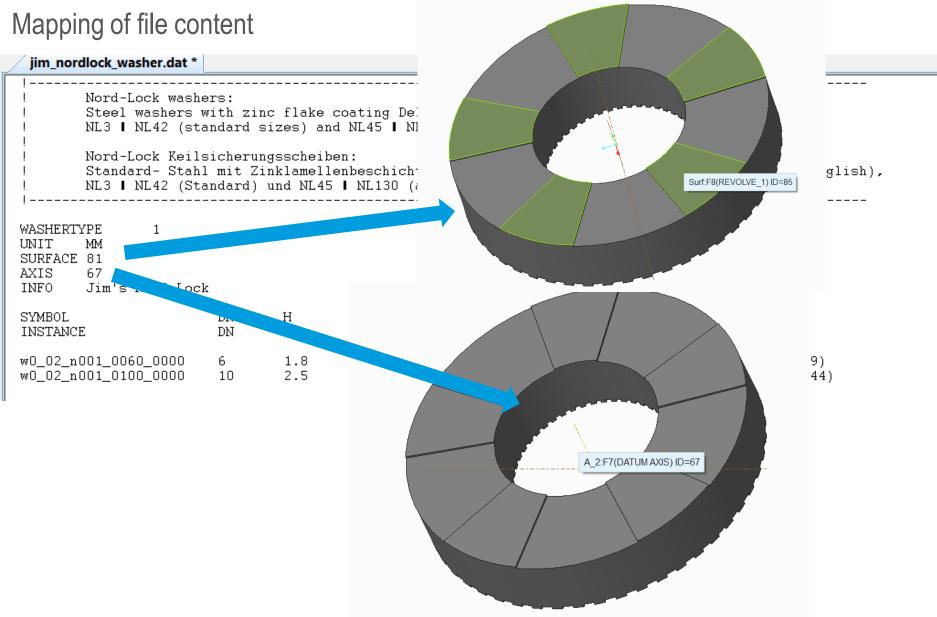
## Populating custom Washer dat file

		. 🗆 🗙
Mapping of file content	Image: Search washer       Image: Search washer_01         Image: Search washer_01       Image: Search washer_01	
jim_nordlock_washer.dat * Nord-Lock washers: Steel washers with zinc flake c NL3 NL42 (standard sizes) and Nord-Lock Keilsicherungsscheibe Standard- Stahl mit Zinklamelle NL3 NL42 (Standard) und NL45 WASHERTYPE 1 WASHERTYPE 2 WASHERTYPE 2 WA	Image: configuration     Image: configuration       Image: configuration     Ima	r_01_icon.g if
SYMBOL DN H INSTANCE DN H	DN1 DN2 BUW_NAME BUW_TYPE BUW_SIZE DN1 DN2 name type size	
w0_02_n001_0060_0000 6 1.8 w0_02_n001_0100_0000 10 2.5	6.5 10.8 washer Nord-Lock NL6 (1219) 10.7 16.6 washer Nord-Lock NL10 (1244)	

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### Populating custom Washer dat file

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jim_nordlock_v	jim_nordlock_washer.dat *										
! Steel		vith zin				Protekt® (z (upon requ	inc-flake coating), est).				
Nord-Lock Keilsicherungsscheiben: Screw Fastener Definition ×											
	iard- Stahl   NL42 (Sta 					Catalog	jim	» English),			
WASHERTYPE UNIT MM	1		Jim ISO 4017	v							
SURFACE 81 AXIS 67						Thread	M10 - 🖳 x 20.000 - 🗊				
	s Nord-Lock					Side 1 🗹	Jim's Nord-Lock	<b>v</b>			
SYMBOL		DN	H	DN1	DN	Washers	Jim's Nord-Lock	ZE			
INSTANCE		DN	Н	DN1	DNZ	name	суре	size			
w0_02_n001_00 w0_02_n001_03	_	6 10	1.8 2.5	6.5 10.7	10.8 16.6		Nord-Lock Nord-Lock	NL6 (1219) NL10 (1244)			

! NL3   NL42 (s ! ! Nord-Lock Kei ! Standard- Sta!	hers: with zir tandard s lsicherur hl mit Zi	sizes) an Ngsscheib Inklamell	d NL45 ↓ en: enbeschio	NL130 ( htung I:			chichtung   English),	
! NL3 I NL42 (S ! WASHERTYPE 1 UNIT MM SURFACE 81 AXIS 67 INFO Jim's Nord-Lo		und NL43	• • NLISU	(aur Ar				
SYMBOL INSTANCE	DN DN	H H	DN 1 DN 1	DN2 DN2	BUW_NAME name	BUW_TYPE type	BUW_SIZE size	
w0_02_n001_0060_0000 w0_02_n001_0100_0000	6 10	1.8 5	6.5 10.7	10.8 16.6	washer washer	Nord-Lock Nord-Lock	NL6 (1219) NL10 (1244)	
2D - Preview	15.0	<u>+</u>		<u>†</u> н	WASHERTYPE 0	1 DN2 DN1		
	$\sim$							16

jim\_nordlock\_washer.dat \*

Nord-Lock washers: Steel washers with zinc flake coating Delta Protekt® (zinc-flake coating), NL3 | NL42 (standard sizes) and NL45 | NL130 (upon request). Nord-Lock Keilsicherungsscheiben:

Standard- Stahl mit Zinklamellenbeschichtung Delta Protekt® (Zinklamellenbeschichtung ↓ English), NL3 ↓ NL42 (Standard) und NL45 ↓ NL130 (auf Anfrage).

WASHERTYPE 1 UNIT MM SURFACE 81 AXIS 67 INFO Jim's Nord-Lock

SYMBOL	DN	H	DN 1	DN2	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	DN	H	DN 1	DN2	name	type	size
w0_02_n001_0060_0000	6	1.8	6.5	10.8	washer	Nord-Lock	NL6 (1219)
w0_02_n001_0100_0000	10	2.5	10.7	16.6	washer	Nord-Lock	NL10 (1244)

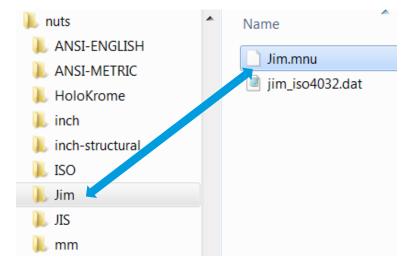
Can be deleted for custom fasteners

## Modifying nuts.mnu

#### Located in Nuts folder

nuts.mnu				
∕Jim Jum's custom fa Jin's custom fa		Folder Name Tooltip Information Localization of tool	tip	
Creo 3.0 ► M030 ► Comm	on Files ► afx ► parts ► screws_and_	pins ▶ nuts ▶ lim	✓ ← Search J	im P
File Edit V v Tools Help				
	e with 🔻 Burn New folder			≣ - □ 0
screws_and_pins	Name	Date modified	Туре	Size
archive	Jim.mnu	27/02/2015 10:31	MNU File	1 KB
ANSI-ENGLISH ANSI-METRIC HoloKrome hch ch-structural	jim_iso4032.dat	27/02/2015 10:31	DAT File	1 KB
👢 Jim				
JIS				18





The \*.mnu file name must be the same as the name of containing folder.

#### Mapping of file content C→ → ■ Creo 3.0 → M030 → Common Files → afx → configuration → types → nut → nut\_01 ▼ ← Search nut\_01 ρ jim\_iso4032.dat \* File Edit View Tools Help Share with • New folder 🗉 🗸 🦷 🕜 Organize 🔻 Include in library -Slide show Burn ▲ L configuration ISO 4032 drawing\_templates Hexagon nut 4 👢 types nut\_hex\_std Inserts 🔺 👢 nut nut\_01.dat nut\_01.gif nut\_01.prt nut\_01\_detail.gif nut\_01\_icon.gif 👢 nut\_01 NUTTYPE 1 👢 nut\_02 UNIT ΜM 🐌 nut\_20 SURFACE 9 👢 nut 21 AXIS 92 👢 nut\_50 INFO Jim's ISO 4032 👢 nut\_51 CBNUT DIN974-2 R1

!Enter the name of the Familytablepart !-----FAMPRT jim\_iso4032

SmartLibrary needs this values to paint the 2D-Preview in the dialog and to fill the pulldowns in the dialog. |-----SYMBOL S Κ DN DG Ρ  $\mathbf{S}$ INSTANCE DN Κ DG Ρ d5 dO Ρ #FAMTAB d1d4



Surf:F1(FIRST FEATURE) ID=9

#### Mapping of file content

#FAMTAB

d5

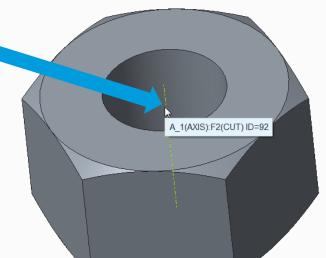
jim_iso4	032.dat *					
! ! ! !	ISO 403 Hexagon nut_hex	nut				
NUTTYPE UNIT SURFACE AXIS INFO CBNUT !Enter t ! FAMPRT	92 Jim's DIN974- the name	2 R1 of th		yta		
I PIMI NI	J111_130	1052				
				ues to pa: n the dia		2D-Preview
SYMBOL INSTANCE	5	DN DN	S S	K K	DG DG	P P

dO

d1

d4

Ρ



Managina of file content	bw	Screw Fastener Definition	х
Mapping of file content	Catalog	jim 💌	»»
jim_iso4032.dat *	Screw P: 1.500	Jim ISO 4017	
ISO 4032	Thread	M10 👻 🖳 x 20.000 👻 🛐 🌠	
! Hexagon nut ! nut_hex_std !	Side 1 Washers	□ Jim's Nord-Lock	
NUTTYPE 1 UNIT MM SURFACE 9	Side 2 Washers	-	
AXIS 92 INFO Jim's ISO 4032 CBNUT DIN974-2 R1	Nut	✓ IIII Jim's ISO 4032 ✓	
Forten the name of the Familytablement			

!Enter	the	name	of	the	Fami	.lyta	able	par	t
!									
FAMPRT	iin	n iso	4032	2					

SmartLibrary					2D-Preview	v in the dialog
SYMBOL	DN	S	К	DG	Р	
INSTANCE	DN	S	K	DG	Р	
#FAMTAB	d5	dO	d1	d4	Р	

#### CBNUT mapped to \afx\configuration \sl\_data.cfg

jim_iso4032.dat *			
<pre>I ISO 4032 I Hexagon nut I nut_hex_std I ISO 4032 I NUTTYPE 1 UNIT MM SURFACE 9 AXIS 92 INFO Jim's ISO 4032 CBNUT DIN974-2 R1 IEnter the name of the Familytablepart I I I I I I I I I I I I I I I I I I I</pre>	I I I #CBNUT MM MM MM MM MM MM MM MM MM MM MM MM MM	CRBOREDIAMETERS F - ROW1 for Socket DIN974-2 R1 13 15 18 24 28 33 36 40 46 58 61 73 76 82 98	DIN974-2 R3 18 11 13 18 22 26 30 33 40 48 54 61 69 73 82

!SmartLibrary needs this values to paint the 2D-Preview in the dialog !and to fill the pulldowns in the dialog.

1
SYMBOL DN S K DG P
INSTANCE DN S K DG P
#FAMTAB d5 d0 d1 d4 P

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#### Mapping of file content – Family table

jim_iso4032.da	nt *						
	4032 yon nut nex_std						
NUTTYPE 1 UNIT MM SURFACE 9 AXIS 92 INFO Jim's CBNUT DIN97		2					
!Enter the na ! FAMPRT jim_i		≥ Family	tablepar	rt	Nomo	of Equily t	able Generic
SmartLibrary	7 needs th						
!and to fill ! SYMBOL INSTANCE #FAMTAB	DN	S S d0	К	DG	P P P		
	NUTTYPE	01 DG				15.000	
						Ť	



#### Mapping of file content – Family table

jim_iso4032.dat	t *				
	 032 on nut ex_std 	 			
NUTTYPE 1 UNIT MM SURFACE 9 AXIS 92 INFO Jim's CBNUT DIN97 !Enter the naw	4-2 R1	rtablepa	rt		
FAMPRT jim_i	needs t			2D-Prev	ie File Edit Insert Tool
land to fill ! SYMBOL INSTANCE #FAMTAB	DN	 K	DG	P P P	Look In: JIM_ISO4032

Instance Name	Common Na	d0 S	d1 K	d4 DG	d5 DN	Р
JIM_ISO4032		8.00	4.70	4.02	5.00	0.80
JIM_ISO4032-M6		10.00	5.20	5.00	6.00	1.00
JIM_ISO4032-M8		13.00	6.80	6.80	8.00	1.25
JIM_ISO4032-M10		16.00	8.40	8.50	10.00	1.50
						\$