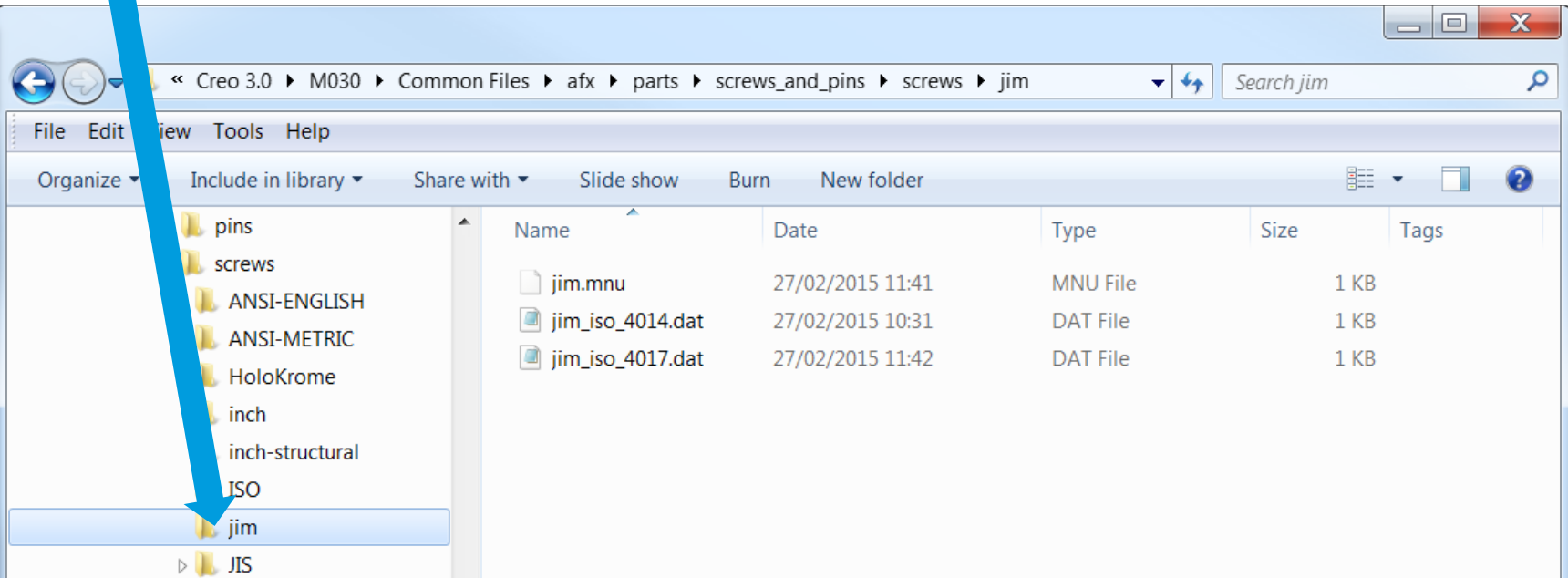
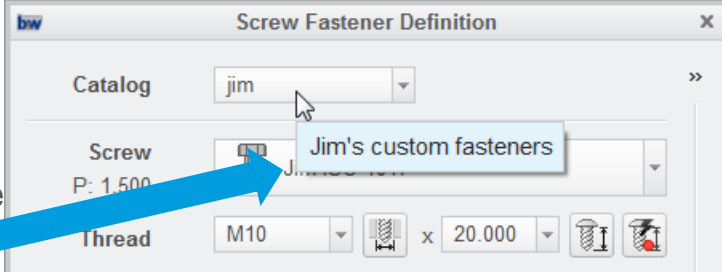


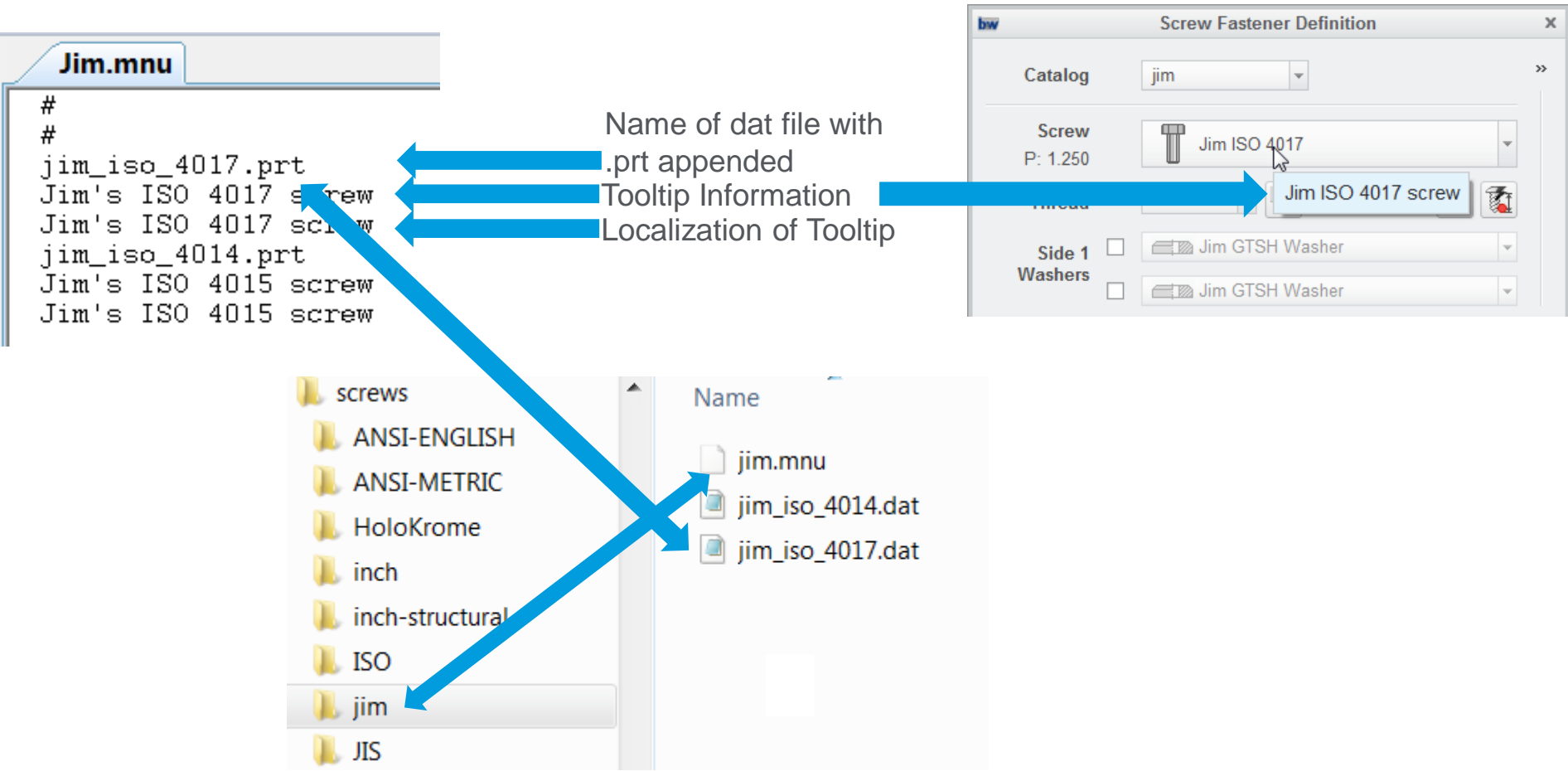
Located in Screws folder

```
scrows.mnu  
/  
jim  
jim's custom fasteners  
Jim's custom fasteners
```

Folder name
Tool Tip
Localization of Tool Tip



Mapping of file content



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

Populating Custom Screw *.dat file

Mapping of file content

jim_iso_4014.dat *

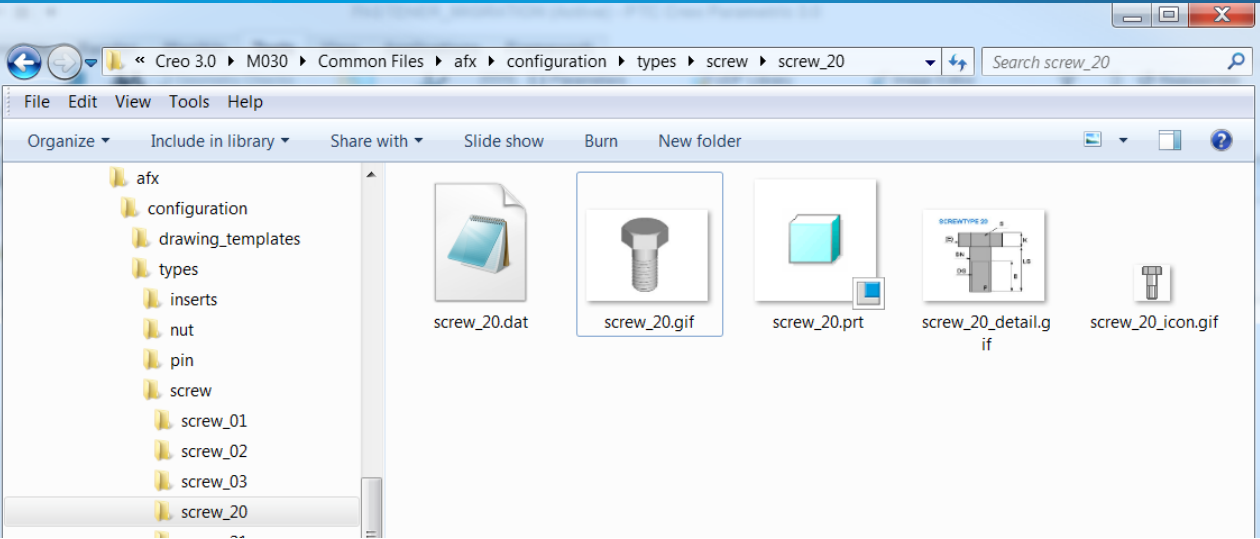
```

ISO 4014 - 8.8
Hexagon head screw with shank,
Sechskantschraube mit Schaft,
    
```

```

SCREWTYPE      20
UNIT           MM

SURFACE        495
AXIS           1440
CBSCR          DIN974-2 R1
INFO           Jim ISO 4014
    
```



SYMBOL	STRING	DN	LG	B	S	K	DG	P	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	STRING	DN	LG	B	S	K	DG	P	name	type	size
m6x70-din931	M6	6	70	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 70 - 8.8
m6x75-din931	M6	6	75	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 75 - 8.8
m6x80-din931	M6	6	80	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 80 - 8.8

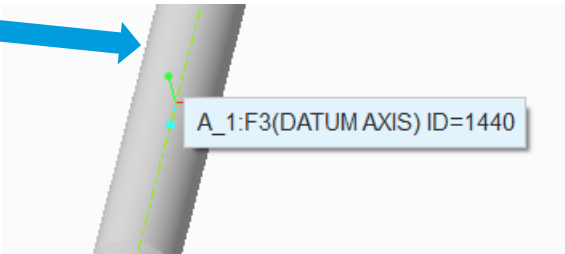
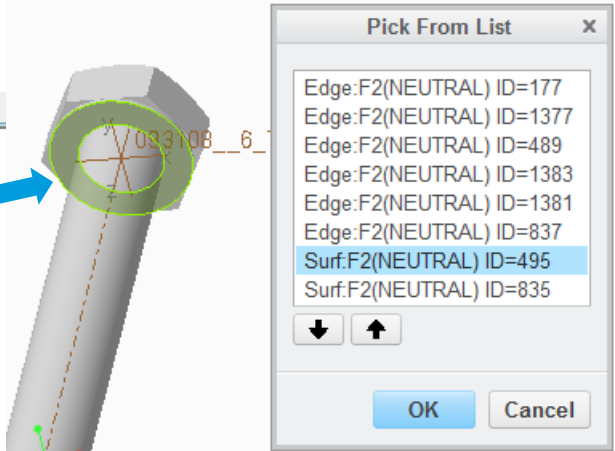
Mapping of file content

jim_iso_4014.dat *

```
ISO 4014 - 8.8  
Hexagon head screw with shank, product grades A and B  
Sechskantschraube mit Schaft, Produktklassen A und B
```

```
SCREWTYPE      20  
UNIT           MM  
  
SURFACE 495  
AXIS      1440  
CBSCR     DIN974-2 R1  
INFO      Jim ISO 4014
```

SYMBOL	STRING	DN	LG	B	S	K	DG
INSTANCE	STRING	DN	LG	B	S	K	DG
m6x70-din931	M6	6	70	18	10	4	5
m6x75-din931	M6	6	75	18	10	4	5
m6x80-din931	M6	6	80	18	10	4	5



BUW_SIZE
size
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_iso_4014.dat *

```

-----
!
!   ISO 4014 - 8.8
!
!   Hexagon head screw with shank, product grades A and
!   Sechskantschraube mit Schaft, Produktklassen A und
!
-----
SCREWTYPE      20
UNIT           MM

SURFACE        495
AXIS           1440
CBSCR          DIN974-2 R1
INFO           Jim ISO 4014

SYMBOL         STRING  DN    LG    B    S    K
INSTANCE      STRING  DN    LG    B    S    K

m6x70-din931  M6      6    70   18   10   4
m6x75-din931  M6      6    75   18   10   4
m6x80-din931  M6      6    80   18   10   4
    
```



COUNTERBOREDIAMETER FOR SCREW'S				
#CBSCR	DN	DIN974-2 R1	DIN974-2 R2	
MM	1	2.2	0	
MM	1.2	2.5	0	
MM	1.4	3	0	
MM	1.6	3.5	3.5	
MM	1.8	3.8	0	
MM	2	4.4	5	
MM	2.5	5.5	6	8.8
MM	3	6.5	7	8.8
MM	3.5	6.5	8	8.8

Mapping of file content

jim_iso_4014.dat *

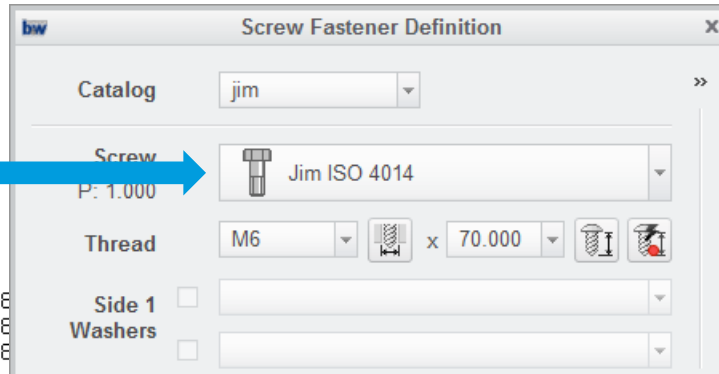
```

-----
!           ISO 4014 - 8.8
!
!           Hexagon head screw with shank, product grades A and B
!           Sechskantschraube mit Schaft, Produktklassen A und B
!
-----
    
```

```

SCREWTYPE      20
UNIT           MM

SURFACE        495
AXIS           1440
CBSCR          DIN974-2 R1
INFO           Jim ISO 4014
    
```



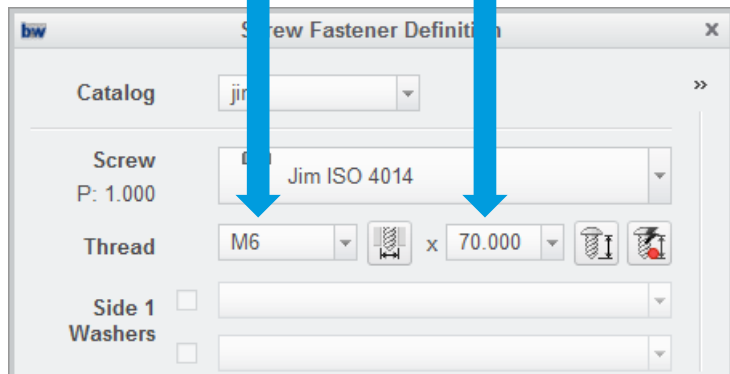
SYMBOL	STRING	DN	LG	B
INSTANCE	STRING	DN	LG	B
m6x70-din931	M6	6	70	18
m6x75-din931	M6	6	75	18
m6x80-din931	M6	6	80	18

BUW_TYPE	BUW_SIZE
type	size
ISO 4014	M6 x 70 - 8.8
ISO 4014	M6 x 75 - 8.8
ISO 4014	M6 x 80 - 8.8

Mapping of file content

jim_iso_4014.dat *

```
!-----!  
!      ISO 4014 - 8.8  
!-----!  
!      Hexagon head screw with shank, product grades A and B  
!      Sechskantschraube mit Schaft, Produktklassen A und B  
!-----!  
  
SCREWTYPE      20  
UNIT           MM  
  
SURFACE        495  
AXIS           1440  
CBSCR          DIN974-2 R1  
INFO           Jim ISO 4014  
  
SYMBOL         STRING  DN      LG      B      S      K      DG      P      BUW_NAME  BUW_TYPE  BUW_SIZE  
INSTANCE       STRING  DN      LG      B      S      K      DG      P      name      type      size  
  
m6x70-din931   M6      6      70     18     10     4      5      1     hexheadscrew  ISO 4014  M6 x 70 - 8.8  
m6x75-din931   M6      6      75     18     10     4      5      1     hexheadscrew  ISO 4014  M6 x 75 - 8.8  
m6x80-din931   M6      6      80     18     10     4      5      1     hexheadscrew  ISO 4014  M6 x 80 - 8.8
```



Used for matching the nut. The pitch of the nut must match the pitch of the fastener.

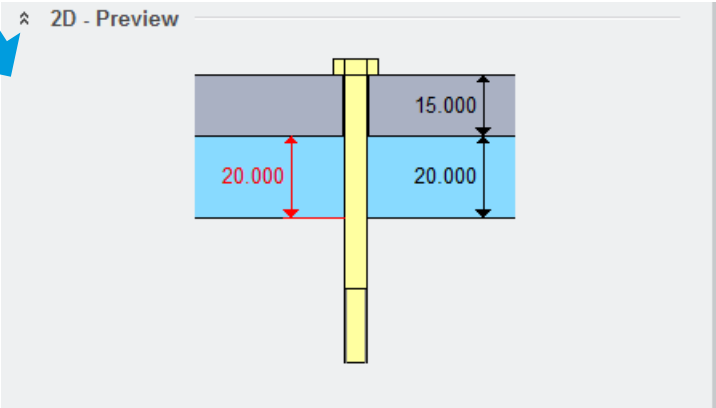
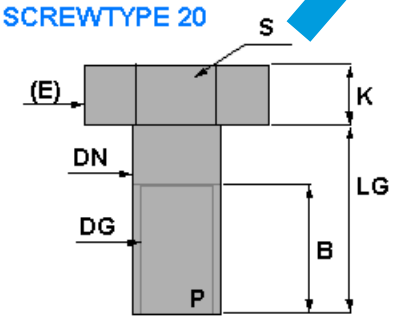
Mapping of file content

jim_iso_4014.dat *

```
!-----!  
! ISO 4014 - 8.8  
! Hexagon head screw with shank, product grades A and B  
! Sechskantschraube mit Schaft, Produktklassen A und B  
!-----!
```

```
SCREWTYPE      20  
UNIT           MM  
  
SURFACE        495  
AXIS           1440  
CBSCR          DIN974-2 R1  
INFO           Jim ISO 4014
```

SYMBOL	STRING	DN	LG	B	S	K	DG	P	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	STRING	DN	LG	B	S	K	DG	P	name	type	size
m6x70-din931	M6	6	70	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 70 - 8.8
m6x75-din931	M6	6	75	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 75 - 8.8
m6x80-din931	M6	6	80	18	10	4	5	1	hexheadscrew	ISO 4014	M6 x 80 - 8.8



Mapping of file content

jim_iso_4014.dat *

```
-----  
!      ISO 4014 - 8.8  
!  
!      Hexagon head screw with shank, product grades A and B  
!      Sechskantschraube mit Schaft, Produktklassen A und B  
-----  
  
SCREWTYPE      20  
UNIT      MM  
  
SURFACE 495  
AXIS      1440  
CBSCR      DIN974-2 R1  
INFO      Jim ISO 4014  
  
SYMBOL      STRING  DN      LG      B      S      K      DG      P  
INSTANCE     STRING  DN      LG      B      S      K      DG      P  
  
m6x70-din931  M6      6      70     18     10     4      5      1  
m6x75-din931  M6      6      75     18     10     4      5      1  
m6x80-din931  M6      6      80     18     10     4      5      1
```

BUW_NAME	BUW_TYPE	BUW_SIZE
name	type	size
hexheadscrew	ISO 4014	M6 x 70 - 8.8
hexheadscrew	ISO 4014	M6 x 75 - 8.8
hexheadscrew	ISO 4014	M6 x 80 - 8.8

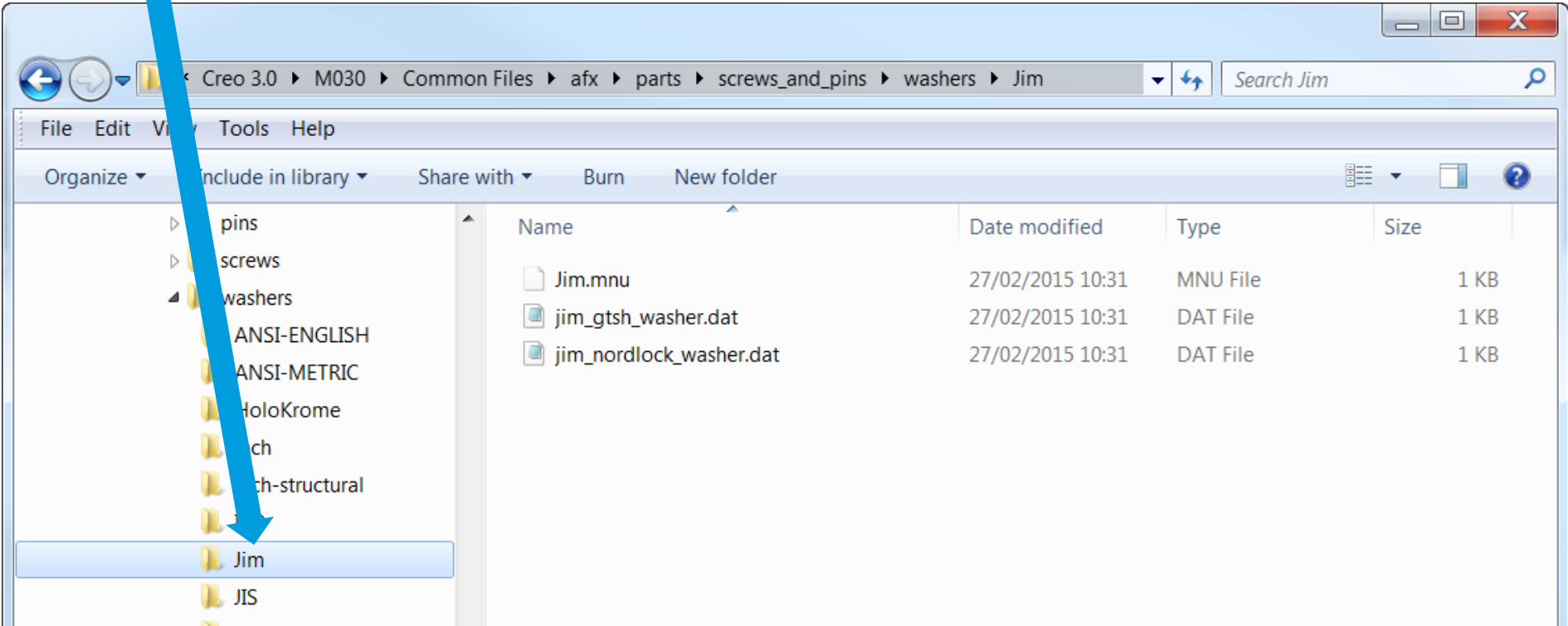


Can be deleted for custom fasteners

Located in Washers folder

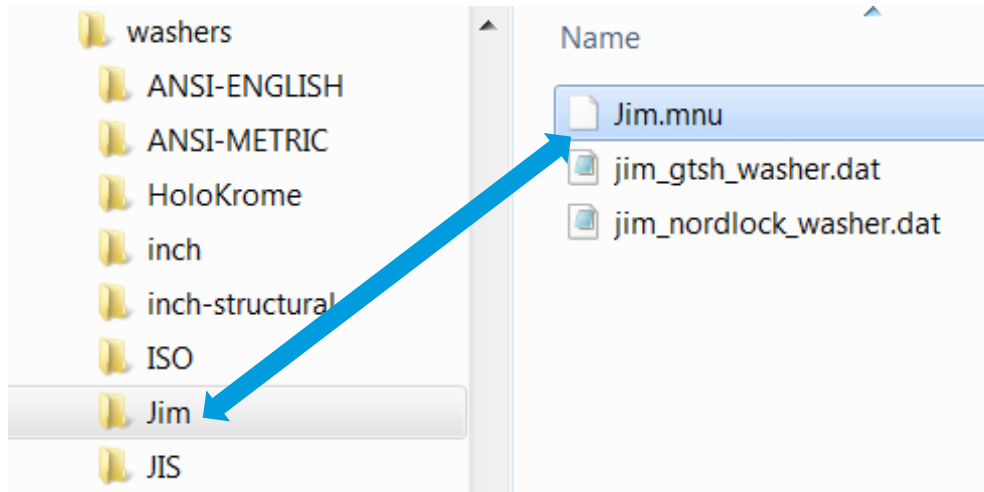
```
washers.mnu  
/Jim  
Jim's custom fasteners  
Jim's custom fasteners
```

- ← Folder Name
- ← Tooltip Information
- ← Localization of tooltip



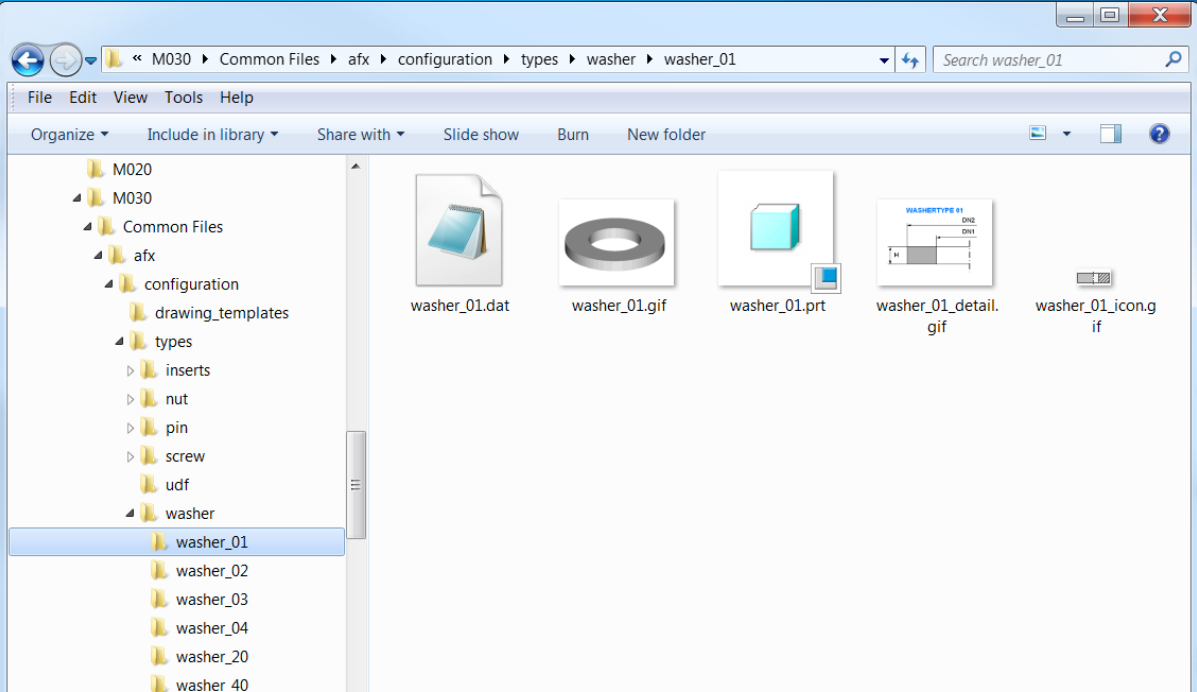
Mapping of file content

```
Jim.mnu *
#
#
jim_nordlock_washer.prt ← Name of dat file with .prt appended
Jim's Nord-Lock washer ← Tool Tip
Jim's Nord-Lock washer ← Localisation of Tool Tip
jim_gtsh_washer.prt
Jim's GTSH washer
Jim's GTSH washer
```



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

Mapping of file content



```

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

```

SYMBOL	DN	H	DN1	DN2	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	DN	H	DN1	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)

Mapping of file content

jim_nordlock_washer.dat *

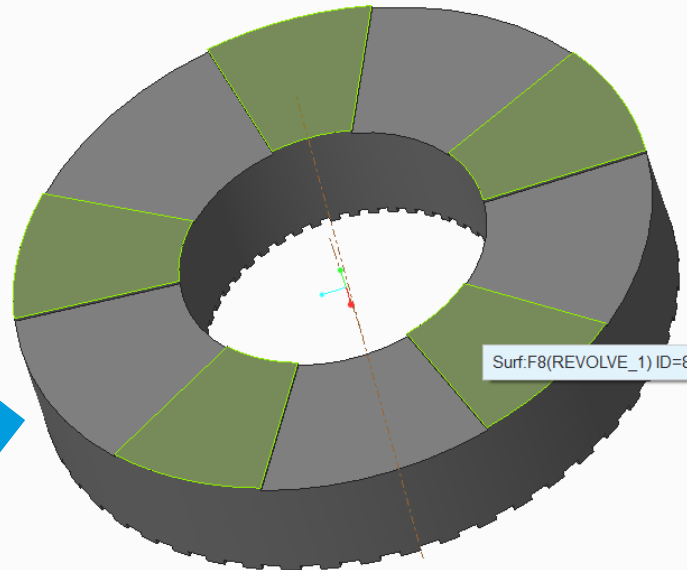
```

! Nord-Lock washers:
! Steel washers with zinc flake coating De
! NL3 | NL42 (standard sizes) and NL45 | NL
!
! Nord-Lock Keilsicherungsscheiben:
! Standard- Stahl mit Zinklamellenbeschicht
! NL3 | NL42 (Standard) und NL45 | NL130 (a
!
    
```

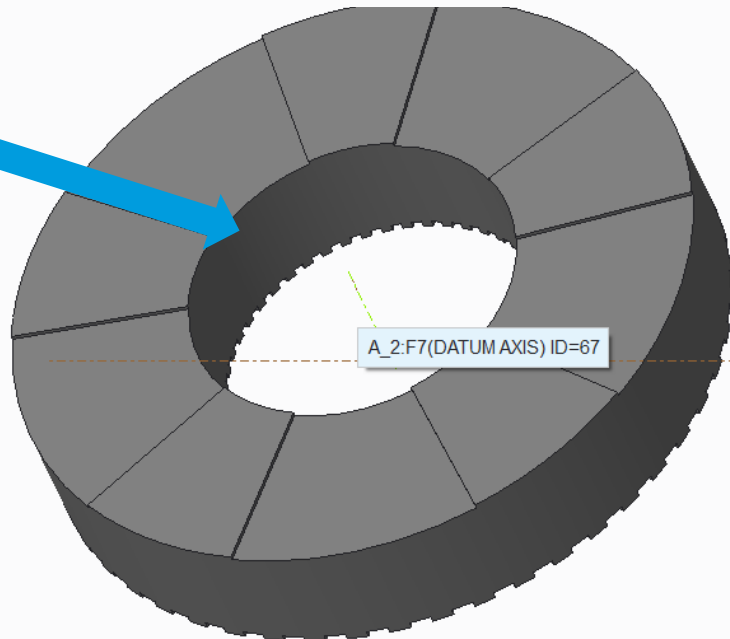
```

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

SYMBOL	DN	H
INSTANCE	DN	
w0_02_n001_0060_0000	6	1.8
w0_02_n001_0100_0000	10	2.5



glish),



9)
44)

Mapping of file content

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  
! NL3 | NL42 (Standard) und NL45 | NL130 (au
```

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

SYMBOL	DN	H	DN1	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)

Screw Fastener Definition

Catalog: jim

Screw: Jim ISO 4017
P: 1.500

Thread: M10 x 20.000

Side 1 Washers: Jim's Nord-Lock

Washers: Jim's Nord-Lock

English),

ZE

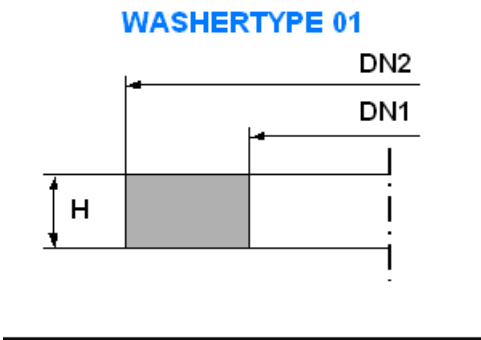
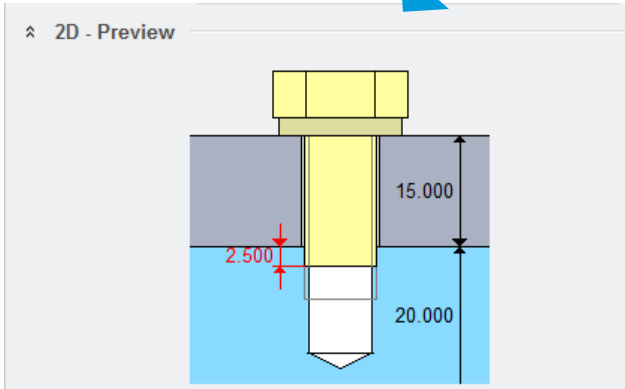
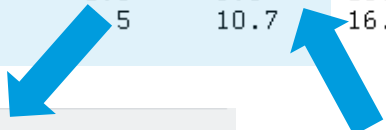
Mapping of file content

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	DN1	DN2	BUW_NAME	BUW_TYPE	BUW_SIZE
INSTANCE	DN	H	DN1	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	5	10.7	16.6	washer	Nord-Lock	NL10 (1244)



Mapping of file content

```
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      DN1     DN2
INSTANCE        DN      H      DN1     DN2
w0_02_n001_0060_0000  6      1.8   6.5     10.8
w0_02_n001_0100_0000 10      2.5   10.7    16.6

BUW_NAME        BUW_TYPE      BUW_SIZE
name            type              size
washer         Nord-Lock         NL6 (1219)
washer         Nord-Lock         NL10 (1244)
```

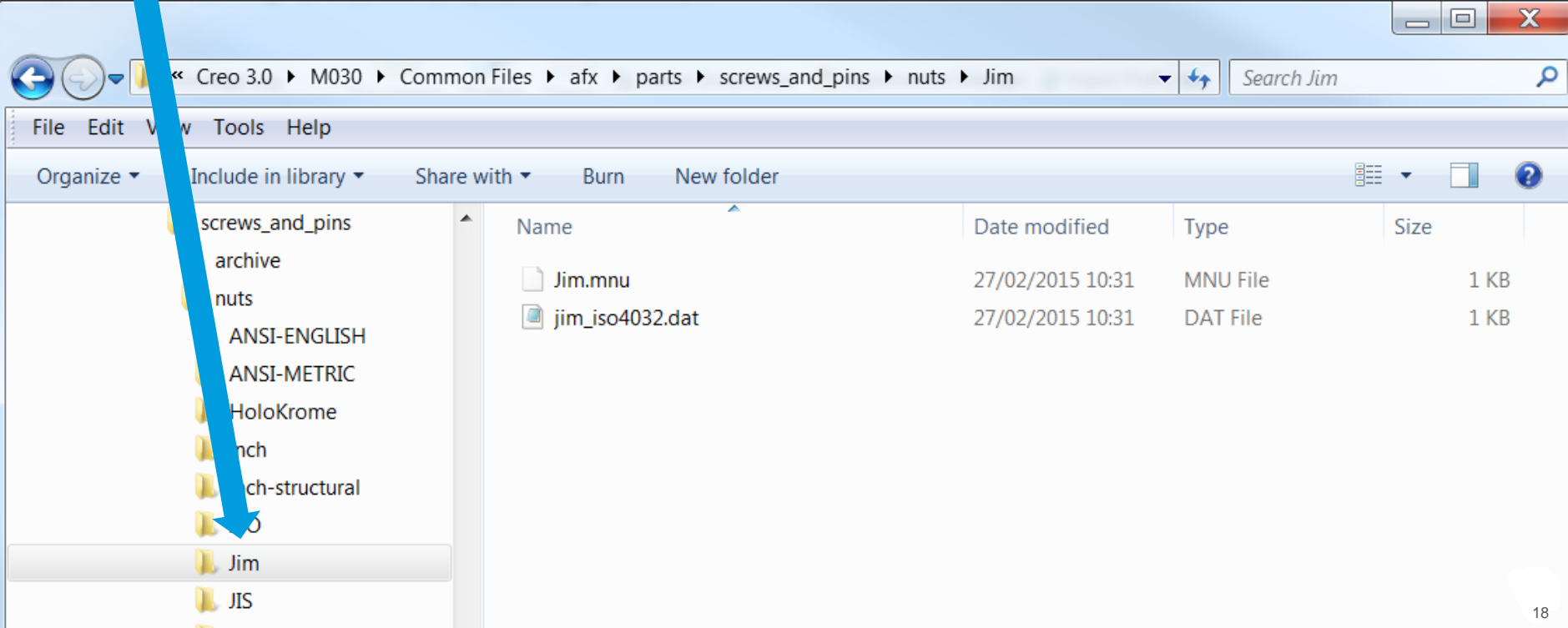


Can be deleted for custom fasteners

Located in Nuts folder

```
nuts.mnu  
/Jim  
Jim's custom fasteners  
Jim's custom fasteners
```

← Folder Name
← Tooltip Information
← Localization of tooltip



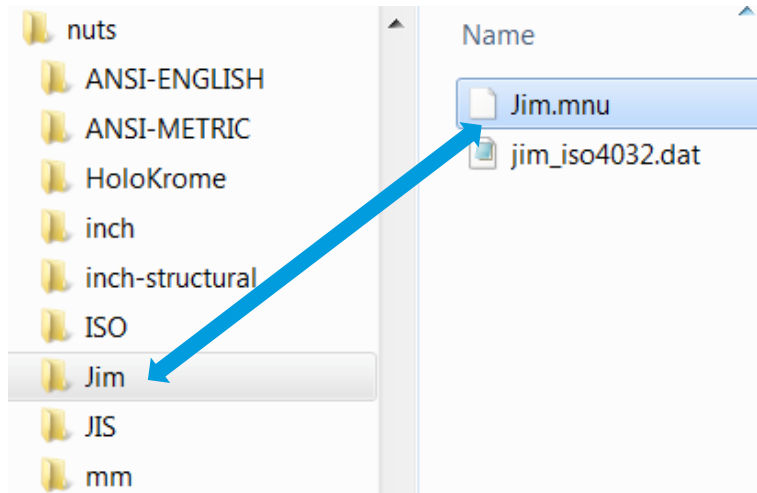
Mapping of file content

```
Jim.mnu
#
#
jim_iso4032.prt
Jim's ISO 4032 nut
Jim's ISO 4032 nut
```

← Name of dat file with .prt appended

← Tool Tip

← Localization of tooltip



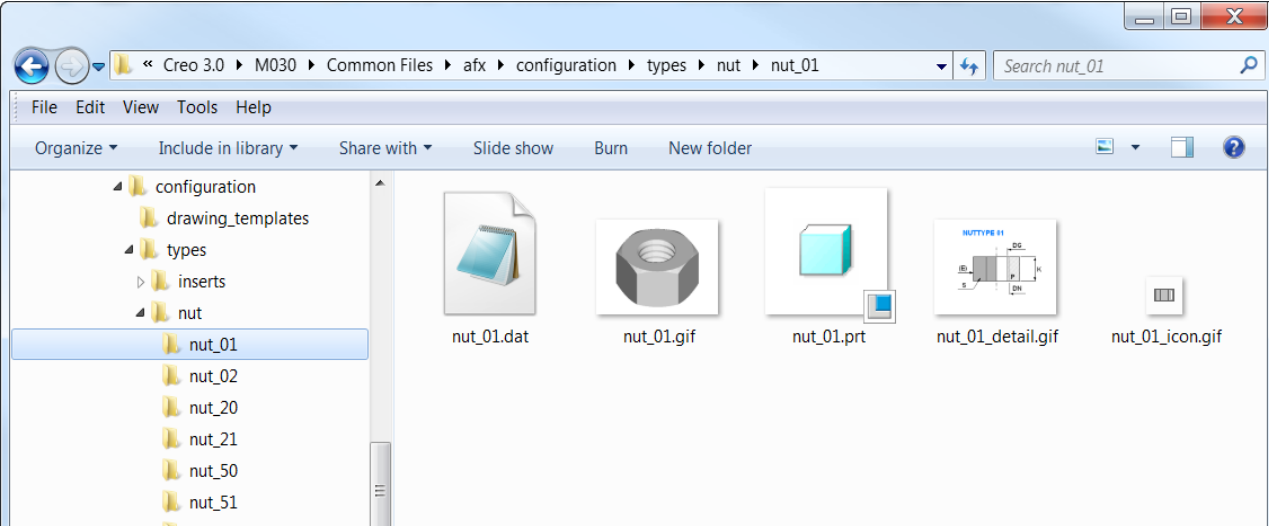
The *.mnu file name must be the same as the name of containing folder.

Mapping of file content

```

jim_iso4032.dat *
-----
!      ISO 4032
!      Hexagon nut
!      nut_hex_std
!-----
NUTTYPE 1
UNIT    MM
SURFACE 9
AXIS    92
INFO    Jim's ISO 4032
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      DN      S      K      DG      P
INSTANCE    DN      S      K      DG      P
#FAMTAB     d5      d0      d1      d4      P

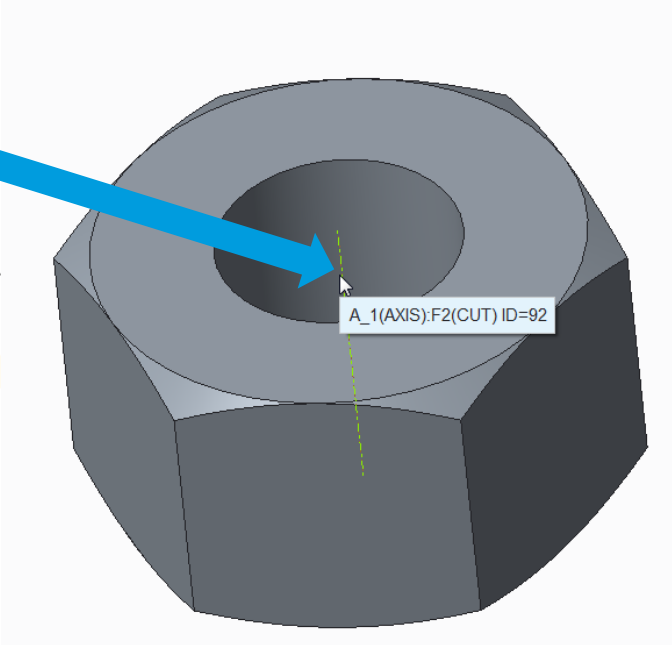
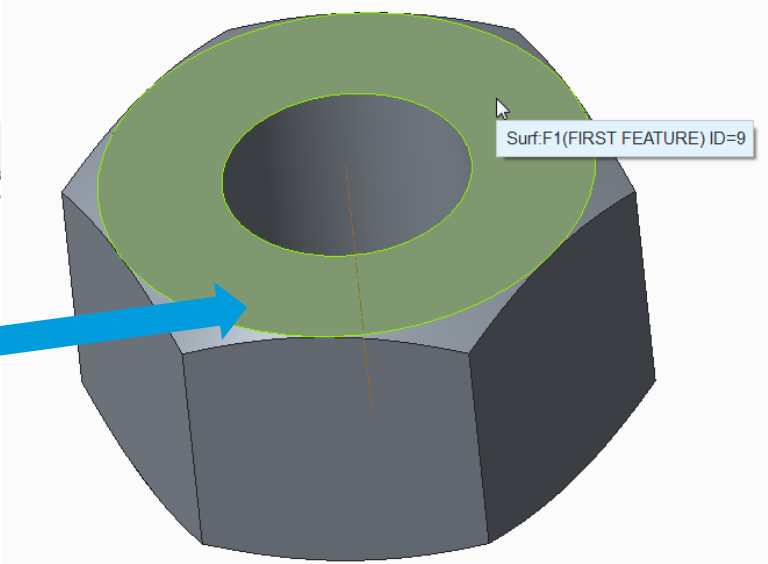
```

Mapping of file content

```
jim_iso4032.dat *
-----
!      ISO 4032
!      Hexagon nut
!      nut_hex_std
!
-----
NUTTYPE 1
UNIT    MM
SURFACE 9
AXIS    92
INFO    Jim's ISO 4032
CBNUT   DIN974-2 R1

!Enter the name of the Familytab
!
-----
FAMPRT  jim_iso4032

!SmartLibrary needs this values to paint the 2D-Preview
!and to fill the pulldowns in the dialog.
!
-----
SYMBOL      DN      S      K      DG      P
INSTANCE    DN      S      K      DG      P
#FAMTAB     d5      d0      d1      d4      P
```



Mapping of file content

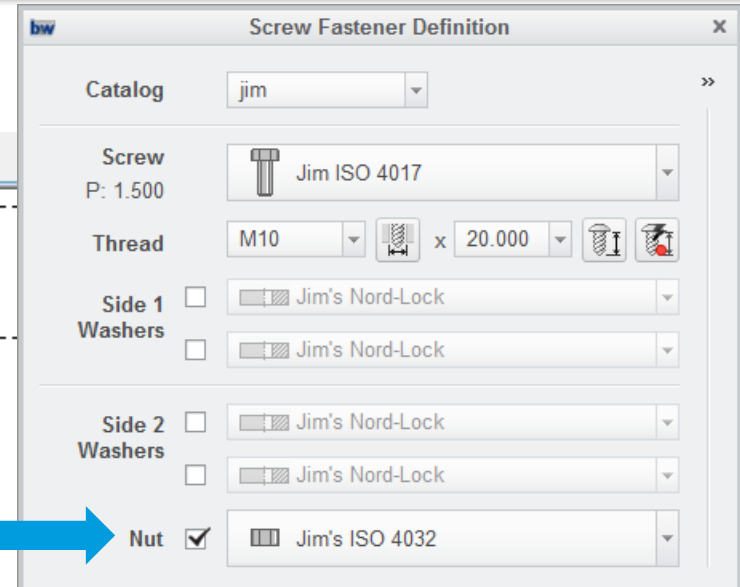
```

jim_iso4032.dat *
-----
!      ISO 4032
!      Hexagon nut
!      nut_hex_std
!-----

NUTTYPE 1
UNIT    MM
SURFACE 9
AXIS    92
INFO    Jim's ISO 4032
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      DN      S      K      DG      P
INSTANCE    DN      S      K      DG      P
#FAMTAB     d5      d0      d1      d4      P
    
```



CBNUT mapped to \afx\configuration \sl_data.cfg

```

jim_iso4032.dat *
-----
!      ISO 4032
!      Hexagon nut
!      nut_hex_std
!-----
NUTTYPE 1
UNIT    MM
SURFACE 9
AXIS    92
INFO    Jim's ISO 4032
CBNUT   DIN974-2 R1
!-----
!Enter the name of the Familytablepart
!-----
FAMPRT  jim_iso4032

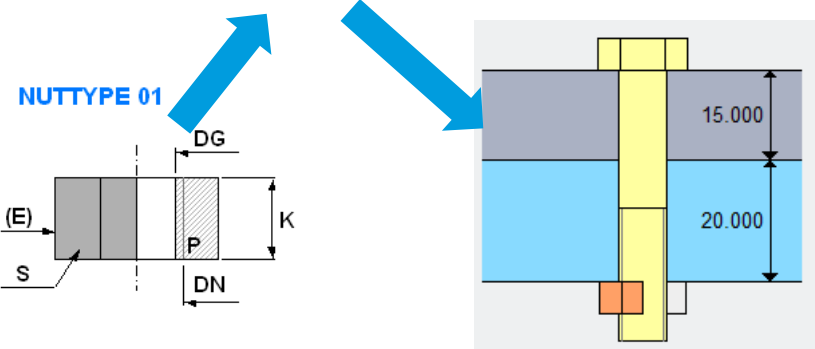
!SmartLibrary needs this values to paint the 2D-Preview in the dialog
!and to fill the pull downs in the dialog.
!-----
SYMBOL      DN      S      K      DG      P
INSTANCE    DN      S      K      DG      P
#FAMTAB     d5      d0      d1      d4      P
    
```

COUNTERBOREDIAMETERS FOR NUT'S				
INCH - ROW1 for Socket Head Cap Screws				
#CBNUT	DN	DIN974-2 R1	DIN974-2 R2	DIN974-2 R3
MM	4	13	15	18
MM	5	15	18	11
MM	6	18	20	13
MM	8	24	26	18
MM	10	28	33	22
MM	12	33	36	26
MM	14	36	43	30
MM	16	40	46	33
MM	20	46	54	40
MM	24	58	73	48
MM	27	61	76	54
MM	30	73	82	61
MM	33	76	89	69
MM	36	82	93	73
MM	42	98	107	82



Mapping of file content – Family table

```
jim_iso4032.dat *  
-----  
|      ISO 4032  
|      Hexagon nut  
|      nut_hex_std  
|-----  
  
NUTTYPE 1  
UNIT     MM  
SURFACE  9  
AXIS     92  
INFO     Jim's ISO 4032  
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   DN      S      K      DG      P  
INSTANCE DN      S      K      DG      P  
#FAMTAB  d5     d0     d1     d4     P
```



Mapping of file content – Family table

```
jim_iso4032.dat *
```

```
-----  
|      ISO 4032  
|      Hexagon nut  
|      nut_hex_std  
|-----
```

```
NUTTYPE 1  
UNIT MM  
SURFACE 9  
AXIS 92  
INFO Jim's ISO 4032  
CBNUT DIN974-2 R1
```

```
!Enter the name of the Familytablepart  
|-----  
FAMPRT jim_iso4032
```

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

```
!-----  
SYMBOL      DN      S      K      DG      P  
INSTANCE    DN      S      K      DG      P  
#FAMTAB     d5      d0      d1      d4      P
```

Instance Name	Common Na...	d0 S	d1 K	d4 DG	d5 DN	P
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