



**SMARTHolechart**

## Creation of hole charts



# SMARTHolechart

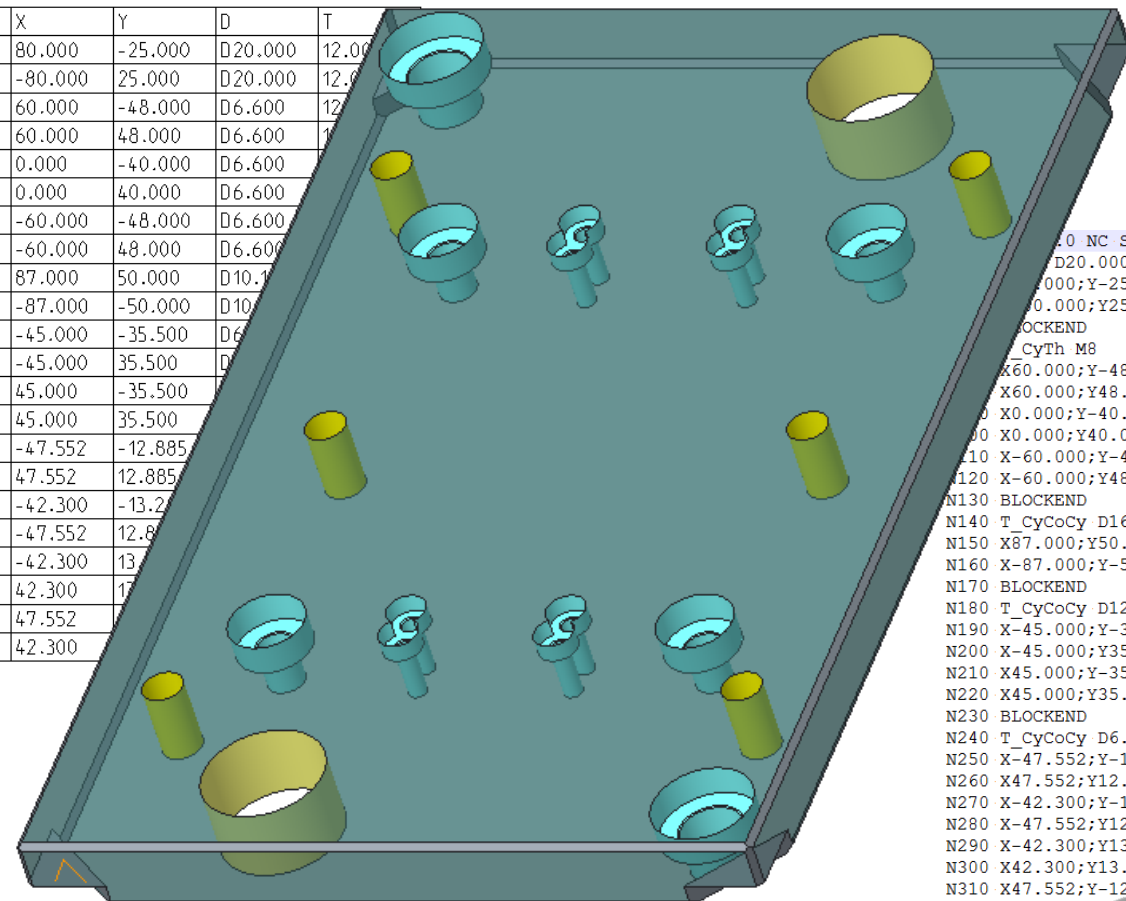
1 Recognize holes, UDF and groups

2 Output to drawing or file

3 Colorize holes

4 Adjust to your needs

NR	TYPE	X	Y	D	T
001	T_Cy	80.000	-25.000	D20.000	12.000
002	T_Cy	-80.000	25.000	D20.000	12.000
003	T_CyTh	60.000	-48.000	D6.600	12.000
004	T_CyTh	60.000	48.000	D6.600	12.000
005	T_CyTh	0.000	-40.000	D6.600	12.000
006	T_CyTh	0.000	40.000	D6.600	12.000
007	T_CyTh	-60.000	-48.000	D6.600	12.000
008	T_CyTh	-60.000	48.000	D6.600	12.000
009	T_CyCoCy	87.000	50.000	D10.100	12.000
010	T_CyCoCy	-87.000	-50.000	D10.100	12.000
011	T_CyCoCy	-45.000	-35.500	D6.600	12.000
012	T_CyCoCy	-45.000	35.500	D6.600	12.000
013	T_CyCoCy	45.000	-35.500	D6.600	12.000
014	T_CyCoCy	45.000	35.500	D6.600	12.000
015	T_CyCoCy	-47.552	-12.885	D6.600	12.000
016	T_CyCoCy	47.552	12.885	D6.600	12.000
017	T_CyCoCy	-42.300	-13.245	D6.600	12.000
018	T_CyCoCy	-47.552	12.885	D6.600	12.000
019	T_CyCoCy	-42.300	13.245	D6.600	12.000
020	T_CyCoCy	42.300	-13.245	D6.600	12.000
021	T_CyCoCy	47.552	-12.885	D6.600	12.000
022	T_CyCoCy	42.300	13.245	D6.600	12.000



```
... NC START
D20.000
...0.000;Y-25.000
...0.000;Y25.000
BLOCKEND
...CyTh M8
...60.000;Y-48.000
...60.000;Y48.000
...X0.000;Y-40.000
...X0.000;Y40.000
...10 X-60.000;Y-48.000
...120 X-60.000;Y48.000
N130 BLOCKEND
N140 T_CyCoCy D16.500/D10.100 5.030/12.000
N150 X87.000;Y50.000
N160 X-87.000;Y-50.000
N170 BLOCKEND
N180 T_CyCoCy D12.500/D6.100 5.030/12.000
N190 X-45.000;Y-35.500
N200 X-45.000;Y35.500
N210 X45.000;Y-35.500
N220 X45.000;Y35.500
N230 BLOCKEND
N240 T_CyCoCy D6.500/D3.100 3.030/12.000
N250 X-47.552;Y-12.885
N260 X47.552;Y12.885
N270 X-42.300;Y-13.245
N280 X-47.552;Y12.885
N290 X-42.300;Y13.245
N300 X42.300;Y13.245
N310 X47.552;Y-12.885
N320 X42.300;Y-13.245
N330 BLOCKEND
N940 SHC 8.0 NC END
```

## Feature

- 1 Clearly arranged ribbon
- 2 Create hole chart
- 3 Update hole chart
- 4 Drawing management
- 5 Configuration

The screenshot displays the software's ribbon interface with the following tools:

- Update all tables
- Move tables
- Arrange notes
- Select geometry
- Reset geometry
- Delete table
- Move table rows
- Show hole note
- Show geometry
- Change Hole ID
- Auto arrange notes
- User Guide

The drawing area shows a hole chart with 22 numbered holes. The data table below lists the hole specifications:

NR	TYPE	X	Y	D	T
001	T_Cy	80.000	-25.000	D20.000	12.000
002	T_Cy	-80.000	25.000	D20.000	12.000
003	T_CyTh	60.000	-48.000	D6.600	12.000
004	T_CyTh	60.000	48.000	D6.600	12.000
005	T_CyTh	0.000	-40.000	D6.600	12.000
006	T_CyTh	0.000	40.000	D6.600	12.000
007	T_CyTh	-60.000	-48.000	D6.600	12.000
008	T_CyTh	-60.000	48.000	D6.600	12.000
009	T_CyCoCy	87.000	50.000	D10.100	12.000
010	T_CyCoCy	-87.000	-50.000	D10.100	12.000
011	T_CyCoCy	-45.000	-35.500	D6.100	12.000
012	T_CyCoCy	-45.000	35.500	D6.100	12.000
013	T_CyCoCy	45.000	-35.500	D6.100	12.000
014	T_CyCoCy	45.000	35.500	D6.100	12.000
015	T_CyCoCy	-47.552	-12.885	D3.100	12.000
016	T_CyCoCy	47.552	12.885	D3.100	12.000
017	T_CyCoCy	-42.300	-13.245	D3.100	12.000
018	T_CyCoCy	-47.552	12.885	D3.100	12.000
019	T_CyCoCy	-42.300	13.245	D3.100	12.000
020	T_CyCoCy	42.300	13.245	D3.100	12.000
021	T_CyCoCy	47.552	-12.885	D3.100	12.000
022	T_CyCoCy	42.300	-13.245	D3.100	12.000

The 'Export tables' dialog box shows a list of holes with the following columns: NR, TYPE, DIR, X, Y, Z. The 'Tab +Z-Z' tab is selected. The list includes 16 holes, with hole 014 highlighted. Below the list, there are checkboxes for 'Show ignored holes' and 'Show holes with warnings'. The 'T\_CyCoCy (THRU)' section is expanded, showing details for hole 014:

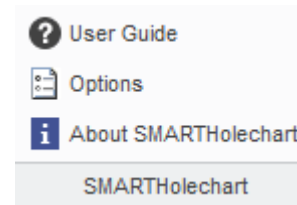
- CYLINDER D\_CB=12.500 T\_CB=5.030
- CONE W\_CS=45.000 T\_CS=5.230
- CYLINDER D=6.100 T=12.000
- ID: 5557

Buttons for 'OK' and 'Cancel' are at the bottom right.

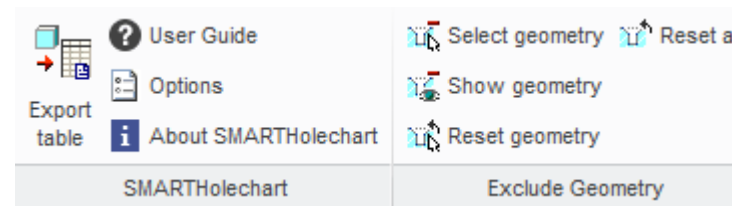
## Clearly arranged ribbon

- 3 Different ribbons for different modes  
The right commands at the right time
- SMARTHolechart  
Main commands
- Drawing Management  
Commands for use on Drawing to arrange notes and tables and so on
- Exclude Geometry  
Commands to exclude geometry which should not be used by SHC

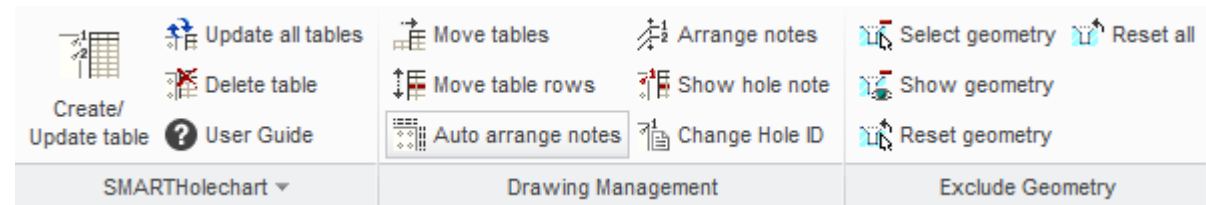
### Part or Assembly



### Part and Assembly

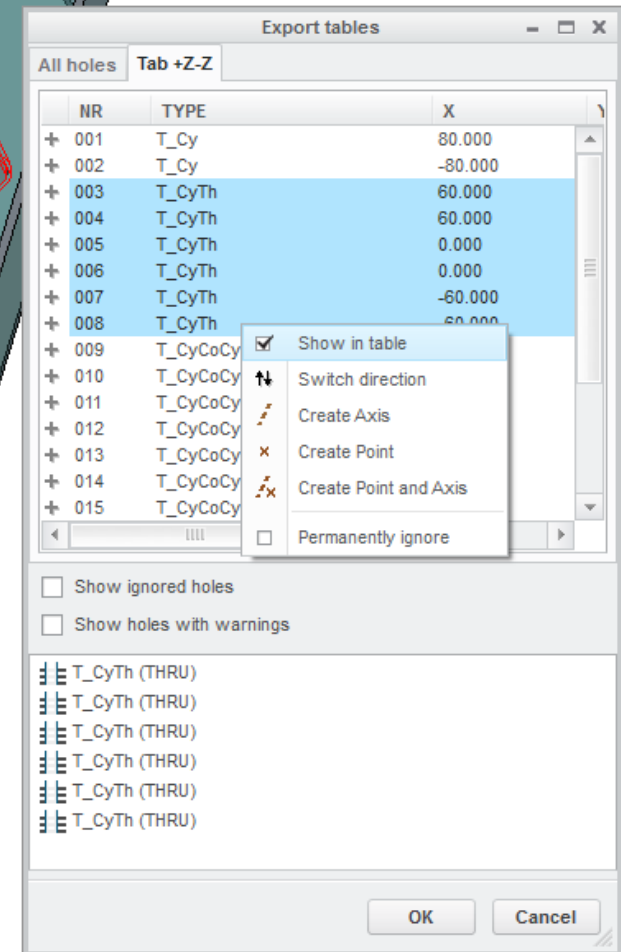


### Drawing



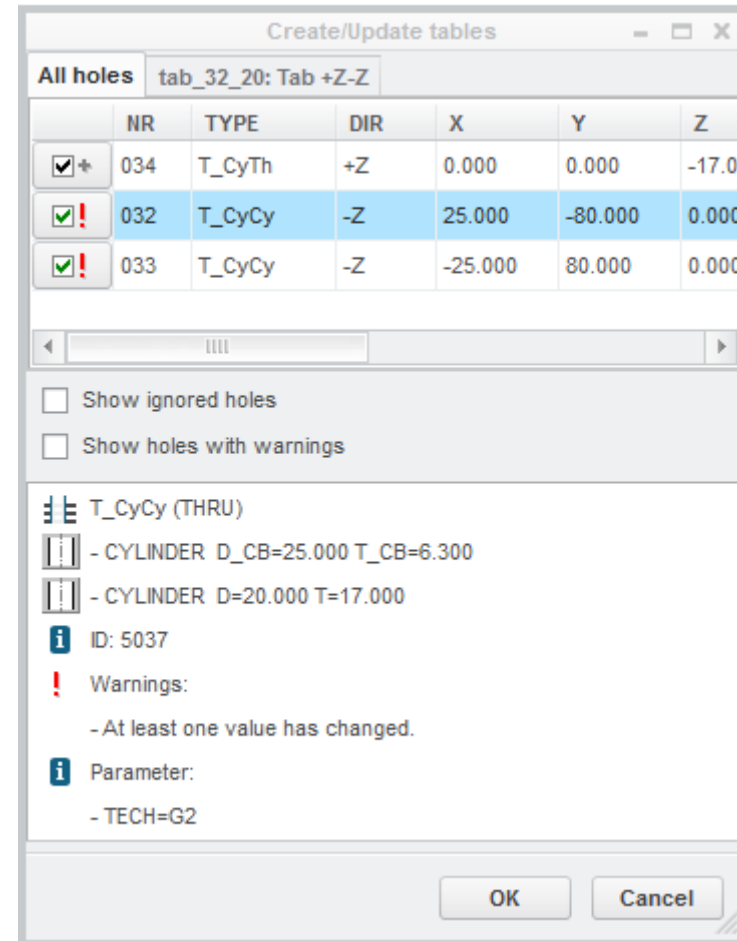
## Create hole chart

- Use the intuitively UI to review and control your output
- Select the holes you what to show in the table
- Switch the direction of thru holes if necessary
- Review output table before creation – WYSIWYG



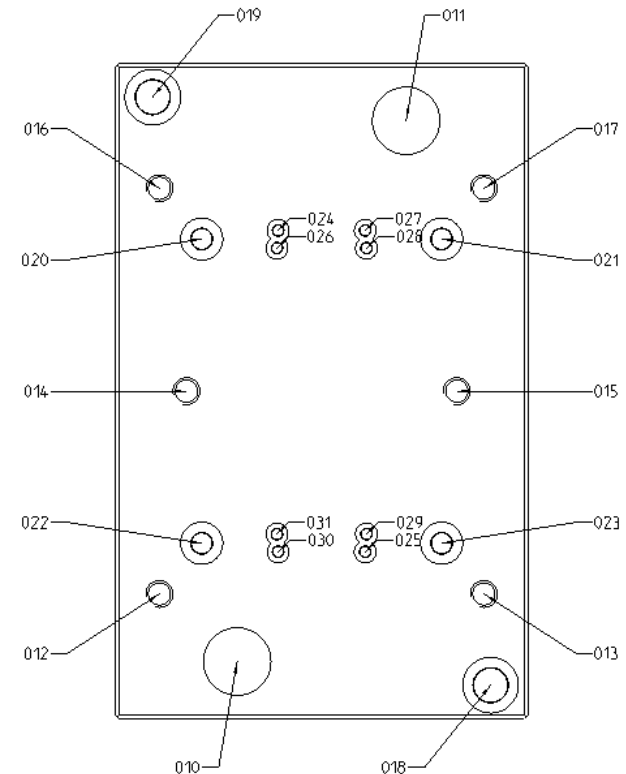
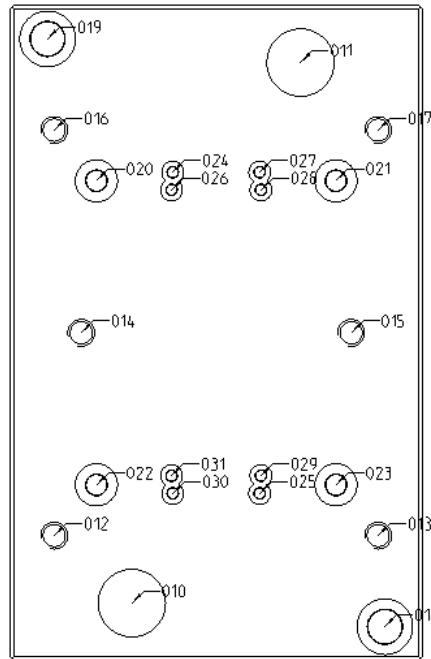
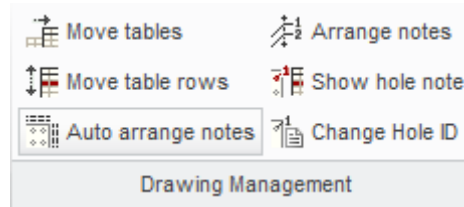
## Update hole chart

- Update your hole charts if the model has changed
- Holes with changes are marked



## Drawing management

- Move tables  
Select a number of tables to align them on your drawing
- Move table rows  
Reorder your rows in the table
- Arrange notes  
Use this commands to arrange the notes
- Show hole note
- Change Hole ID



## Configuration

- Setting**  
 There are more than 100 configuration options to fit SMARTHolechart to your needs.
- Hole types / UDF**  
 Define your set of hole types or UDFs with your specific color code
- Table formats**  
 Define the table output format with the values you need in the table.
- Thread names**  
 Replace the diameter of a thread by the value you want to see

