



**3DXpert™ for SOLIDWORKS®**

# **Adjust model for 3D Printing**

Add options for automatic positioning

13,0600,1489,1604(SP6)

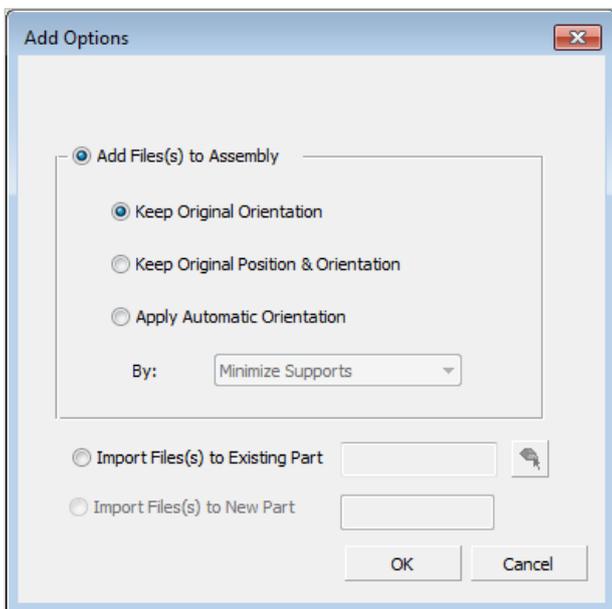
In this document, we will learn to use the **Add options for automatic positioning**.



While using the **Add 3DP component** it is possible to use some automatic options.

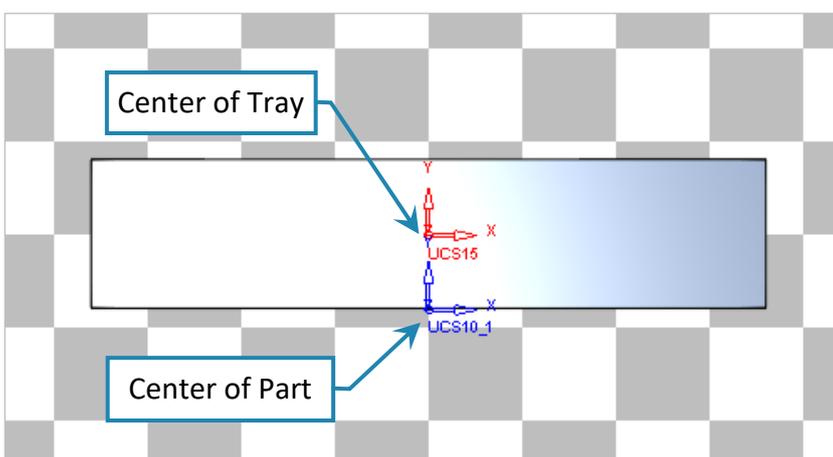
<p style="font-size: 2em; font-weight: bold; text-align: center;">!</p> <p>Notice/ Remember</p>		Left mouse button name is " <b>pick</b> "
		Middle mouse button name is " <b>Exit</b> "
		Right mouse button name is " <b>Click</b> "

After **picking** 3DP component from the **3DXpert for SOLIDWORKS Explorer** a new window will open:

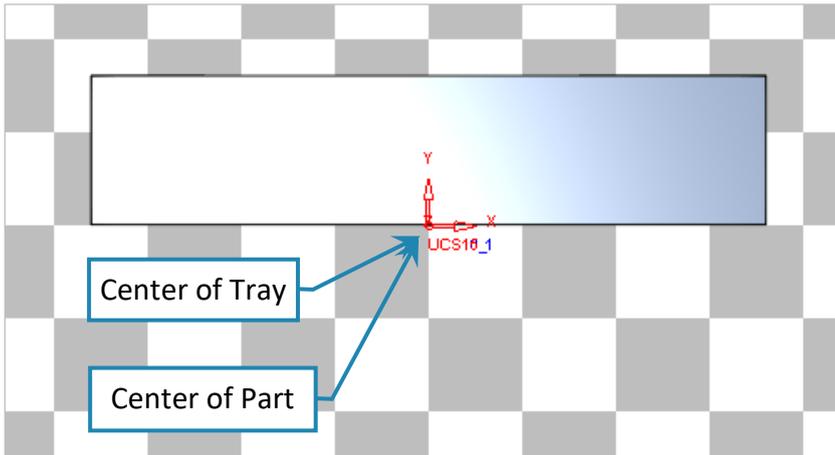


In this window we chose basic positioning Options or applying automatic Orientation of added component on the tray.

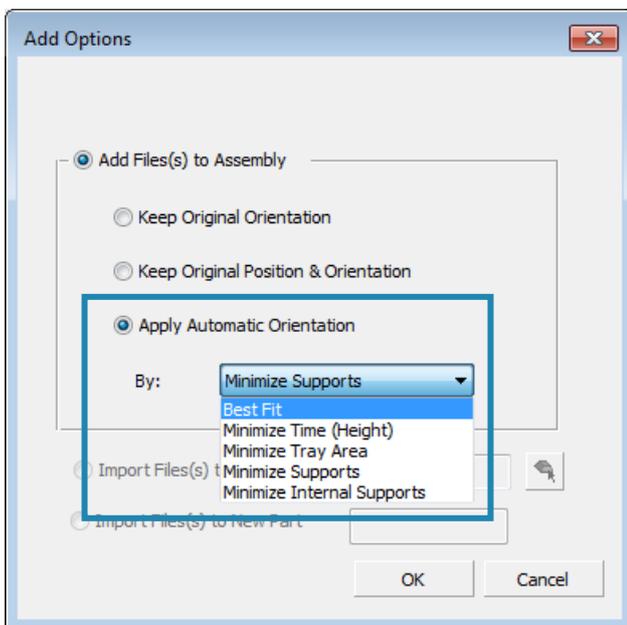
- **Keep Original Orientation** means that the part will not rotate to any direction - XYZ of the part will be parallel to the XYZ of the tray - but the center of the bounded silhouette will move to the center of tray.



- **Keep Original Position & Orientation** means that the part will not rotate to any direction - XYZ of the part will be parallel to the XYZ of the tray - but the center of the part (UCS 0,0) will move to the center of tray.



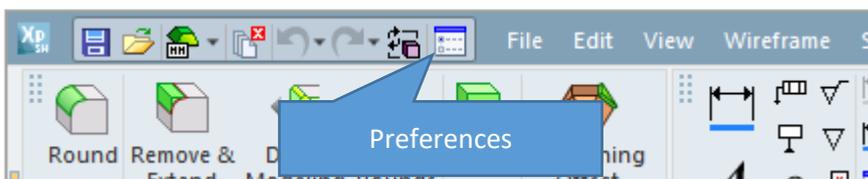
- **Apply Automatic Orientation** means that the part will rotate and move according to chosen analysis method:



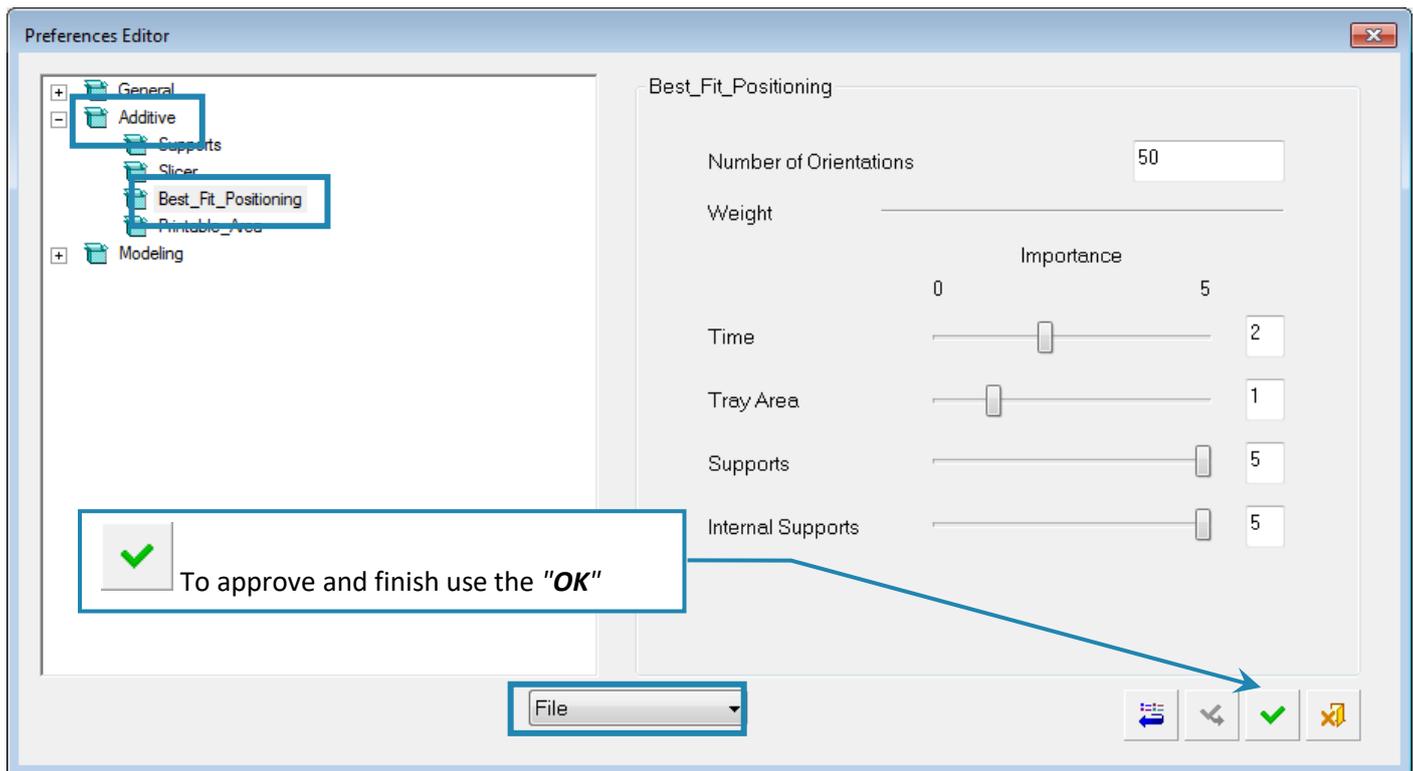
## Best Fit

**Best Fit** will analyze the position and orientation according to the user's settings in the Preferences. Time, tray area, supports and internal supports having weight of importance taken in considerations.

While a 3DP Project is open, **pick** from the Quick Accesses Toolbar the Preferences  command,



As the Preferences Editor window opens up, browse as shown here to get the appropriate window – Best\_Fit\_Positioning.



**!** *Please notice:*

if  is used, the changes will be applied only in this file,

if  is used, the changes will be applied in this file and all new documents.

Set parameters between 0 and 5 using the slider or edit box. The Best Fit analysis will run based on the Number of Orientations (50 is the default) and the best result will be displayed.

### Minimize Time

**Minimize Time** will analyze a position and orientation according to minimum z height.

### Minimize Tray Area

**Minimize Tray Area** will analyze a position and orientation according to a minimum tray area consumption.

### Minimize Supports

**Minimize Supports** will analyze a position and orientation based on minimum number of supports needed.

### Minimize Internal Supports

**Minimize Internal** Supports will analyze a position and orientation according to a minimum internal supports required (internal support may be hard to remove later).