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While the data is copied to the Arbortext IsoDraw window, the **Optimize** window appears on the screen and shows you how the conversion is progressing. The Arbortext IsoDraw window containing the illustration then appears as file **Untitled**. It is behind the window containing the file in 3D mode. Select **File ▶ Save** or **Save as** and save the illustration as an Arbortext IsoDraw file. The file is still open in 3D mode. This allows you to create further views of the drawing in 3D mode. Each time you click **OK** in the **3D projection** window, a new file window will be created containing a snapshot of the required situation.

### **Note**

*If you only want to create a 2D drawing, hold down the ALT key while clicking the camera button in the toolbar. The window containing the file in 3D mode is converted to a normal 2D window when you click **OK** in the **3D Projection** dialog box and appears with the name of the initial file. This option is particularly useful if you have little memory available.*

### **Fill Contour**

Select the **fill contour** check box under **remove hidden lines** to create a closed, filled Bézier path around the outer contour of the 3D set. To see the filled contour path in 2D mode after 3D projection, turn on **Preview**. (From the **Window** menu, point to **Preview** and then click **Preview**.)

The 3D set contour path is filled with a single color (white by default) and its outline is invisible. (The outline **Pen** attribute is set to **No pen**.)

To change the contour fill color for the 3D set you are projecting with **remove hidden lines** selected:

1. Verify that the **fill contour** check box under **remove hidden lines** is selected.

### **Note**

*If the **fill contour** check box is cleared, you will not be able to change the color.*

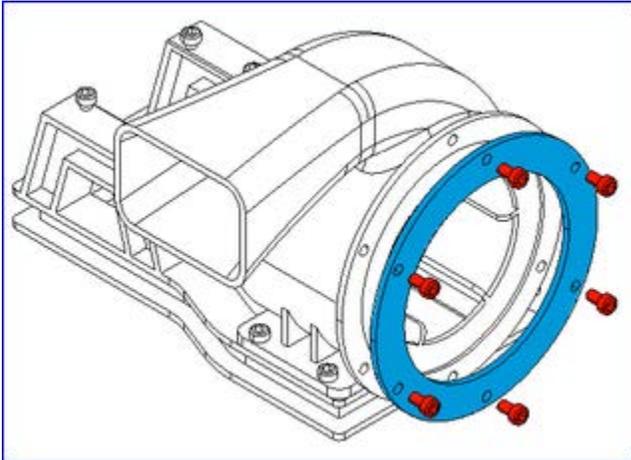
2. Click the **Options** button.
3. In the **Options - Set** dialog box, select a color under **Fill contour with color** and then click **OK**. (See the color selection instructions under **Fill contour with color** in [3D Projection Options – Remove Hidden Lines](#) on page 706.)

You can also change the 3D set contour fill color, and other 3D projection options, in the **3D Options** preferences panel. Like other **3D Options** preference settings for 3D projections, the scope of this contour fill color setting (specifically, which 3D set, or 3D sets, it applies to) depends on the state Arbortext IsoDraw CADprocess is in when you change the preference setting. (See [Setting Contour Fill Color as a 3D Options Preference for 3D Projections](#) on page 703.)

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## Example: 3D Set Contours with Different Colors

The example **remove hidden lines** illustration below has 3D set contours that are filled with different colors. This section describes how it was created.



Three 3D sets were used to create this illustration: One for the blower assembly, one for the flange (blue), and one for the six flange bolts (red).

The blower assembly 3D set was projected first without a filled contour. Next, the flange 3D set was projected with a blue-filled contour. Last, the 3D set containing the six bolts was projected with a red-filled contour.

The detailed steps used to create this example illustration are listed below for reference. Substitute your assemblies and parts for the blower assembly, flange, and bolts in these steps to create similar illustrations with color-filled 3D set contours.

1. **Open** (or **Place**) the 3D CAD file for the assembly in Arbortext IsoDraw CADprocess.
2. Prepare the view for 3D projection. In this example:
  - a. On the **3D Tools** toolbar, click the **Isometric view top**  button.
  - b. Right-click the flange and click **Move**. Move the flange +10 mm in the Z-axis direction.
  - c. Select the flange bolts.
  - d. Right-click one of the selected bolts and click **Move**. Move the bolts +20 mm in the Z-axis direction.
3. On the **3D Tools** toolbar, click the **Convert to 2D illustration**  button.
4. In the **3D Projection - Set** dialog box, click **remove hidden lines** and clear the **fill contour** check box.

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5. Click **OK** to perform the 3D projection. In 2D mode, the assembly is shown with hidden lines removed and no filled contours.
  6. Next, **Place** the flange and project it into 2D with a blue-filled contour:
    - a. **Place** the 3D CAD file and prepare the view as described in Steps 1 and 2 above.
    - b. Delete all the objects in 3D mode except the flange object.
    - c. Click the **Convert to 2D illustration**  button in the **3D Tools** toolbar.
    - d. In the **3D Projection - Set** dialog box, click **remove hidden lines** and select the **fill contour** check box.
    - e. Click the **Options** button.
    - f. In the **Options - Set** dialog box, select a color for the contour fill (blue in this example) and then click **OK**. (See instructions under **Fill contour with color** in [3D Projection Options – Remove Hidden Lines](#) on page 706.)
    - g. Click **OK** to perform the 3D projection. In 2D mode, the blue flange is displayed in front of the assembly.
  7. To finish, **Place** the flange bolts and project them into 2D with their contours filled with red:
    - a. Repeats Steps 6(a.) through 6(g.) with these exceptions:
      - In Step 6(b.), delete all the objects except the flange bolt objects.
      - In Step 6(f.), select red for the contour fill color.
    - b. In the **3D Projection - Set** dialog box, click **OK** to perform the 3D projection. In 2D mode, the red bolts are displayed in front of both the assembly and the blue flange.

### Setting Contour Fill Color as a 3D Options Preference for 3D Projections

You can set the contour fill color (...and other 3D projection settings) on the **3D Options** preferences panel. Consider setting this preference for one or all 3D sets in the following cases:

You always use the same contour fill color for:

- Case 1: A particular 3D set you project in multiple illustrations during an Arbortext IsoDraw CADprocess application session.
- Case 2: All 3D sets you project in one illustration.
- Case 3: All 3D sets you project in all illustrations.

To make a contour fill color preference setting (...or any other 3D projection setting) the default in each case above:

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- Case 1: Set the preference in 3D mode with the 3D set active. This makes your setting the default whenever you project that particular 3D set during the current Arbortext IsoDraw CADprocess application session. If you exit and then restart the application, the default preference setting no longer applies to that particular 3D set.
  - Case 2: Open the illustration file and set the preference in 2D mode. This makes your setting the default for all 3D sets you project in that illustration file. The default setting persists for that illustration file when you close and reopen it, and when you exit and restart the application.
  - Case 3: Close all illustration files and then set the preference. This makes your setting the default for all 3D sets you project in all illustration files. The default setting persists for all illustration files when you close and reopen them, and when you exit and restart the application.

To set the contour fill color preference for one or all 3D sets (depending on the case above):

1. Select **Edit ► Preferences** and then select **3D Options...**
  - Case 1: ...in 3D mode with the 3D set active.
  - Case 2: ...with the illustration file open in 2D mode.
  - Case 3: ...with all illustration files closed.
2. In the **3D Options** preferences panel, click the **3D Options** button to open the **3D Projection** dialog box (or **3D Projection - Set** dialog box for Case 1.)
3. Click **remove hidden lines** and select the **fill contour** check box, and then click the **Options** button.
4. In the **Options** dialog box (or **Options - Set** dialog box for Case 1) under **Fill contour with color**, select the color. (See color selection instructions under **Fill contour with color** in [3D Projection Options – Remove Hidden Lines](#) on page 706.)
5. Click **OK** twice to close the dialog boxes, and then click **OK** to close the **Preferences** dialog box. The fill color preference setting is applied to the 3D set or 3D sets (depending on the case above).

### About Editing 3D Set Contour Paths in 2D Mode

In 2D mode, the filled contour path is grouped with the 3D set. Use the **Direct selection arrow cursor**  tool to select the contour path for editing while the 3D set is grouped. Or, you can ungroup the 3D set and then edit the path shape or fill color as you would any other filled Bézier path.

#### **Caution**

*Ungrouping a placed 3D set breaks the link to its source 3D data.*