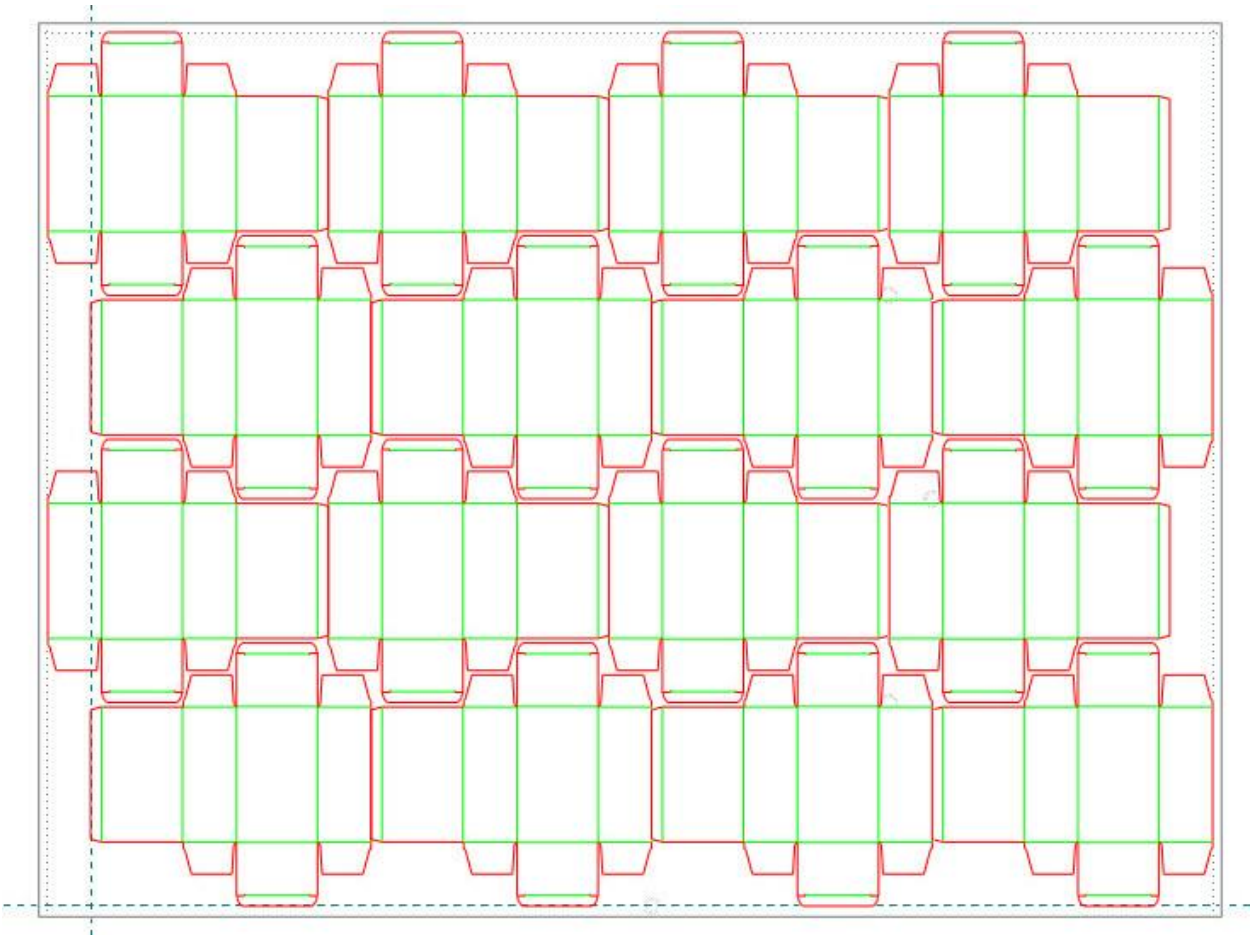
Creating and correcting a layout

Task

In this exercise you will learn how to make a sheet layout from a 1up with the help of a wizard. The sheet layout is then to be exported as a CFF2 file.

The complete layout



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Exercise description

In the first step we are going to create a layout from the 1up with the wizard.

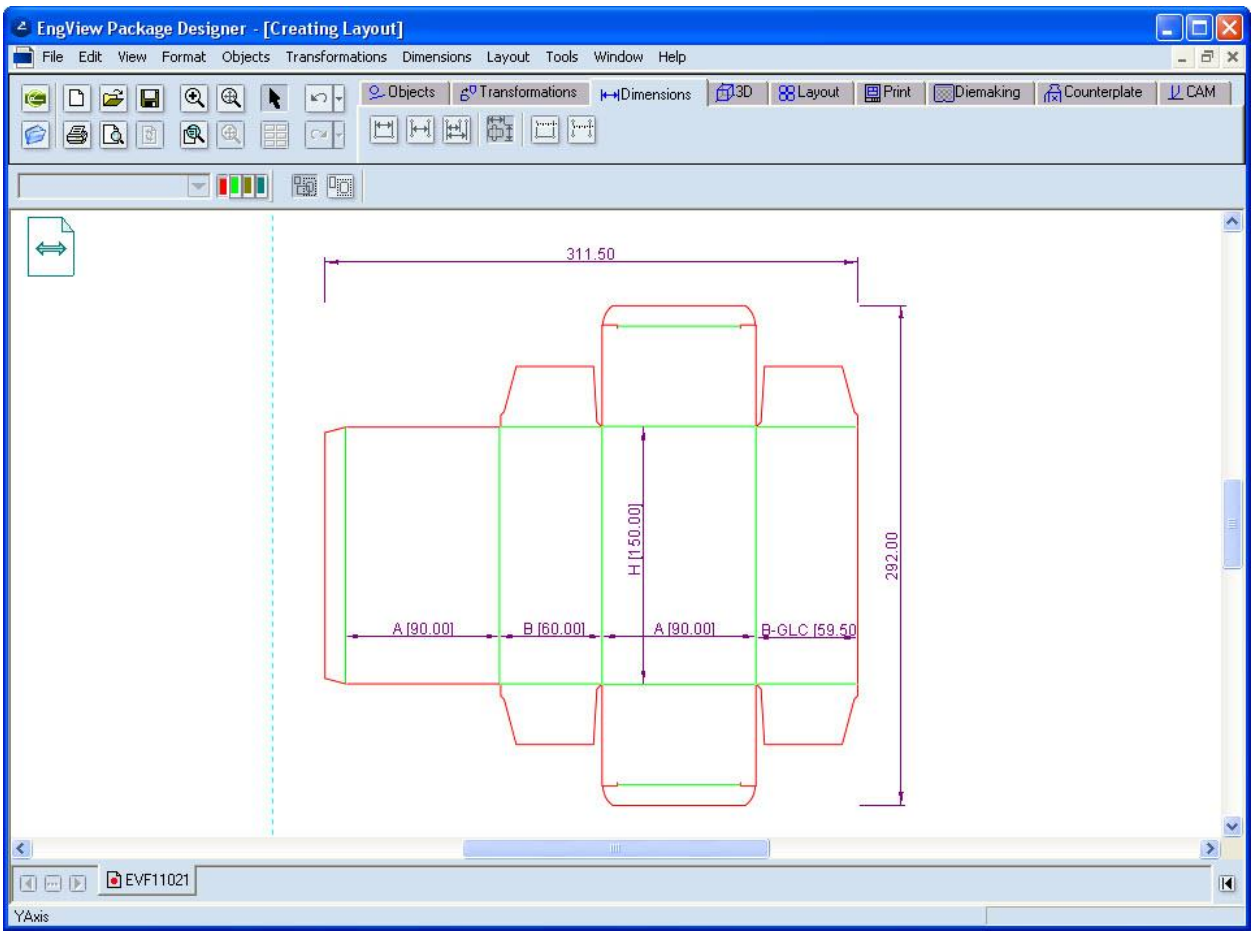
Creating layout

1. On the **File** menu, click **New**. In the wizard that appears, click **From Resizable Design**.

2. Browse to C:\EngViewWork7, and click **Toggle Flat Mode** .

3. Type EVF11021, and select the file. Then click **Finish**.

The design opens.



4. Go to the Layout tab to start creating a layout.

5. Do any of the following:

- On the Layout menu, click **New Layout Drawing**.
- On the Layout tab, click tool **New Layout Drawing** .

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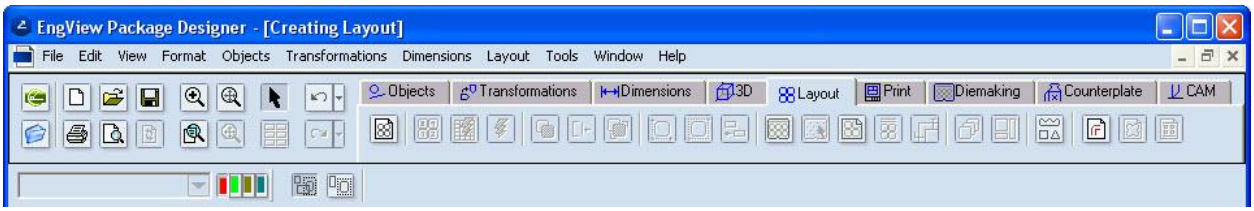
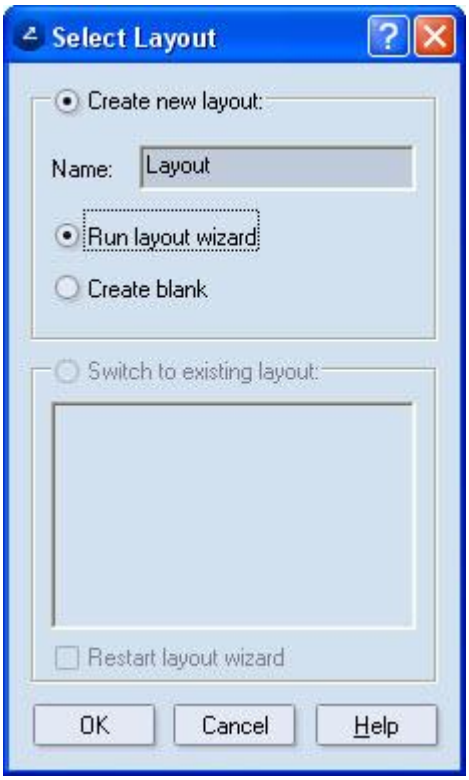


The **Select Layout** dialog box appears.



6. Click **Run layout wizard**, and then click **OK**.

7. To customize the layout, select the option *User template* from the pop-up menu *Predefined template* in the Select Template window.

NOTE: The layout wizard forms an array of four layout 1ups, which is then multiplied across the sheet. For more standard cases, the layout wizard offers predefined templates — 1x1; 2 rows, 2 columns, 2 parts in rows; 2 parts in columns.

NOTE: The buttons in the *Rotation* area let you rotate the layout 1up.

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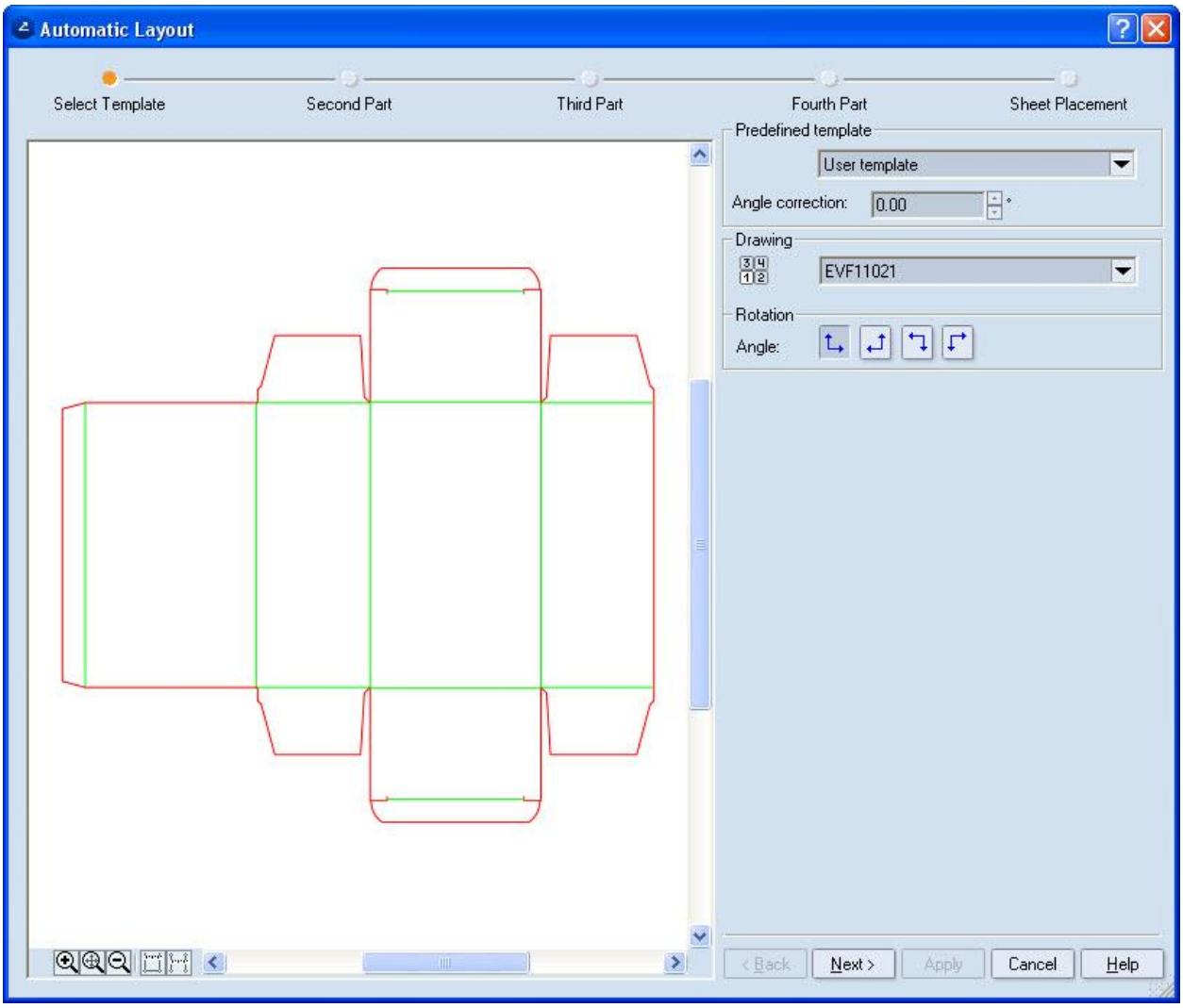

8. To go to the Second Part window, click **Next**.

The second part appears aligned with the first.

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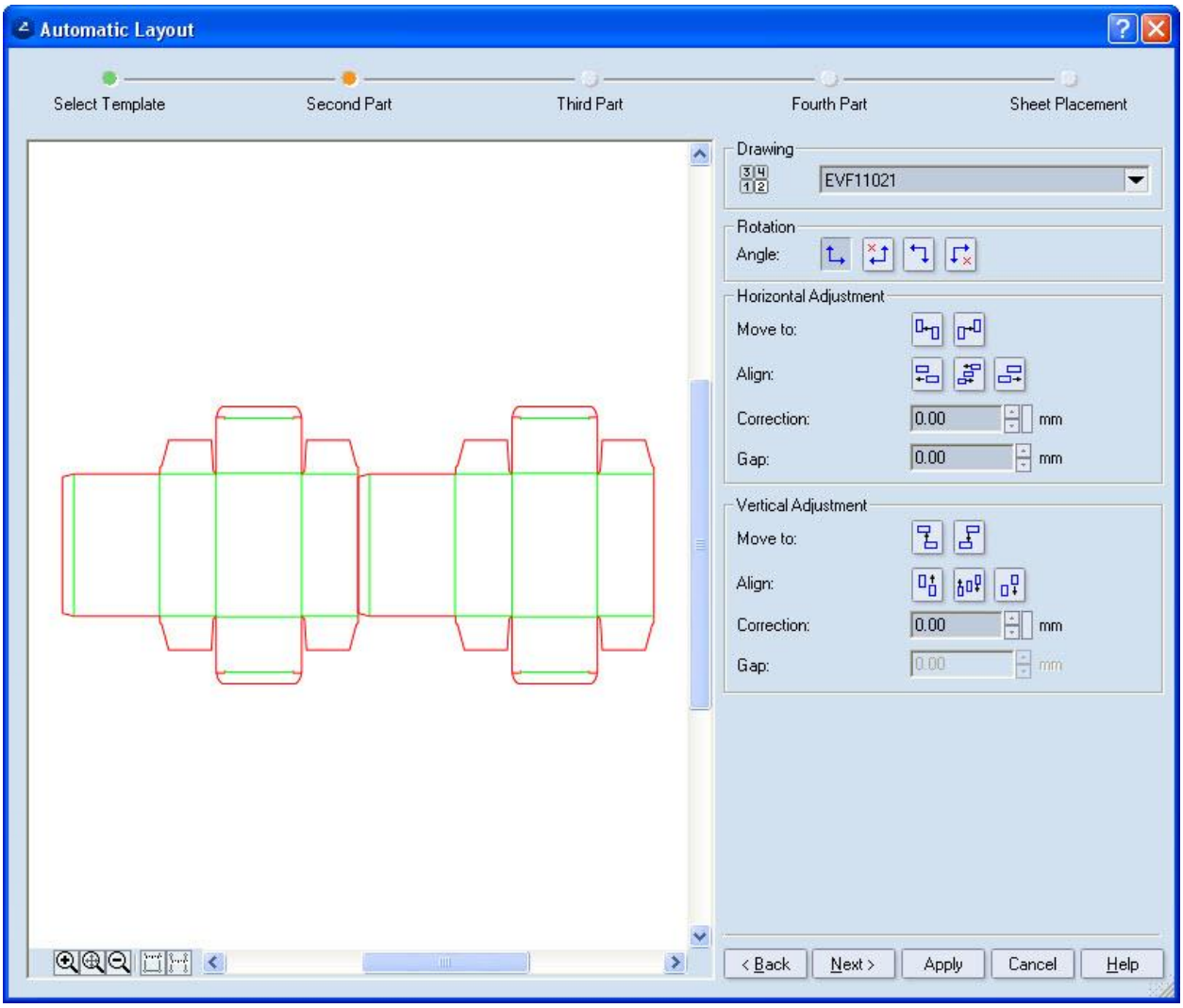

9. Click **Next** to go to the Third Part window. In this step you define the offset and the position of the next layout row.

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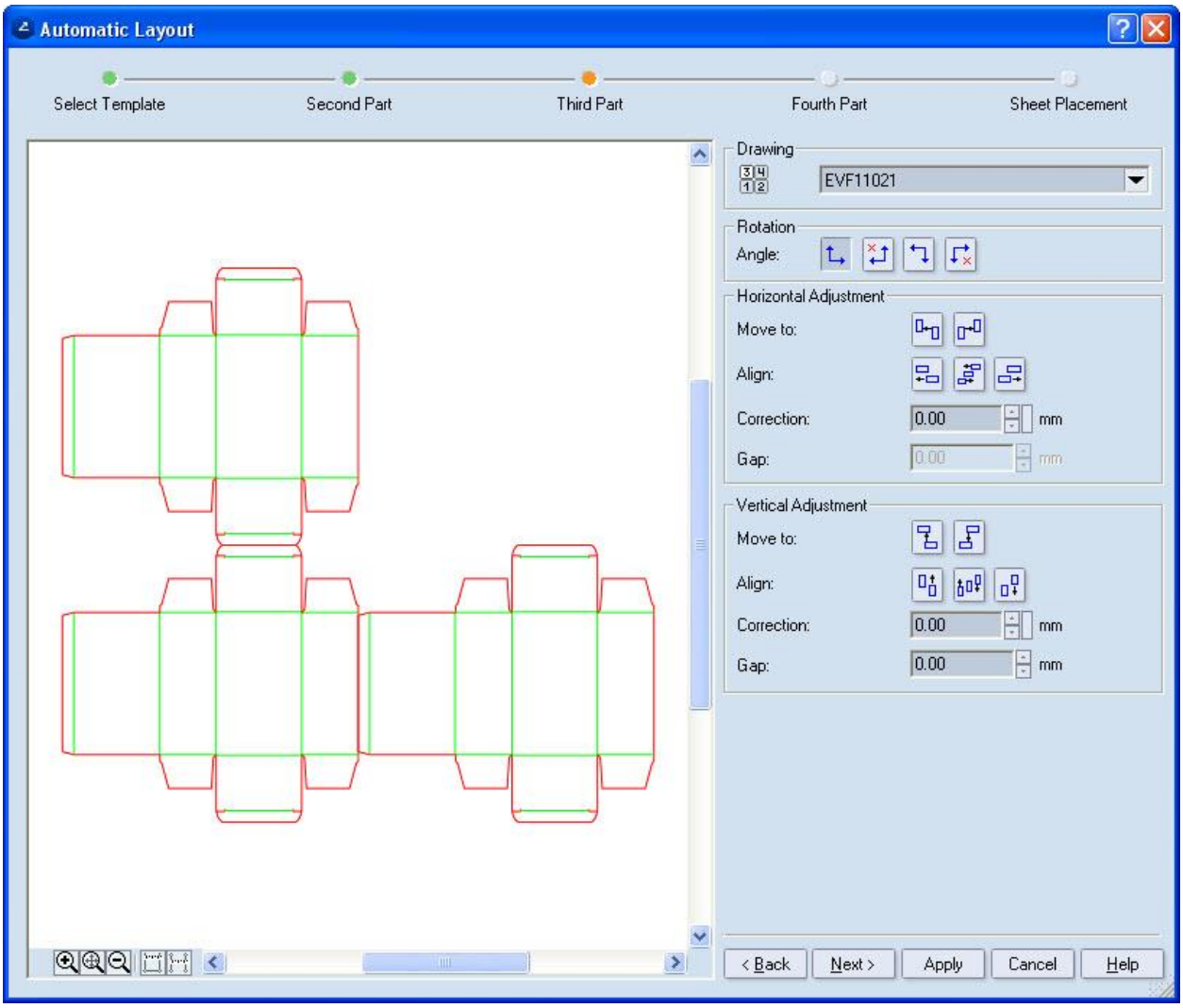

10. Rotate the third part at 180 degrees (highlighted).

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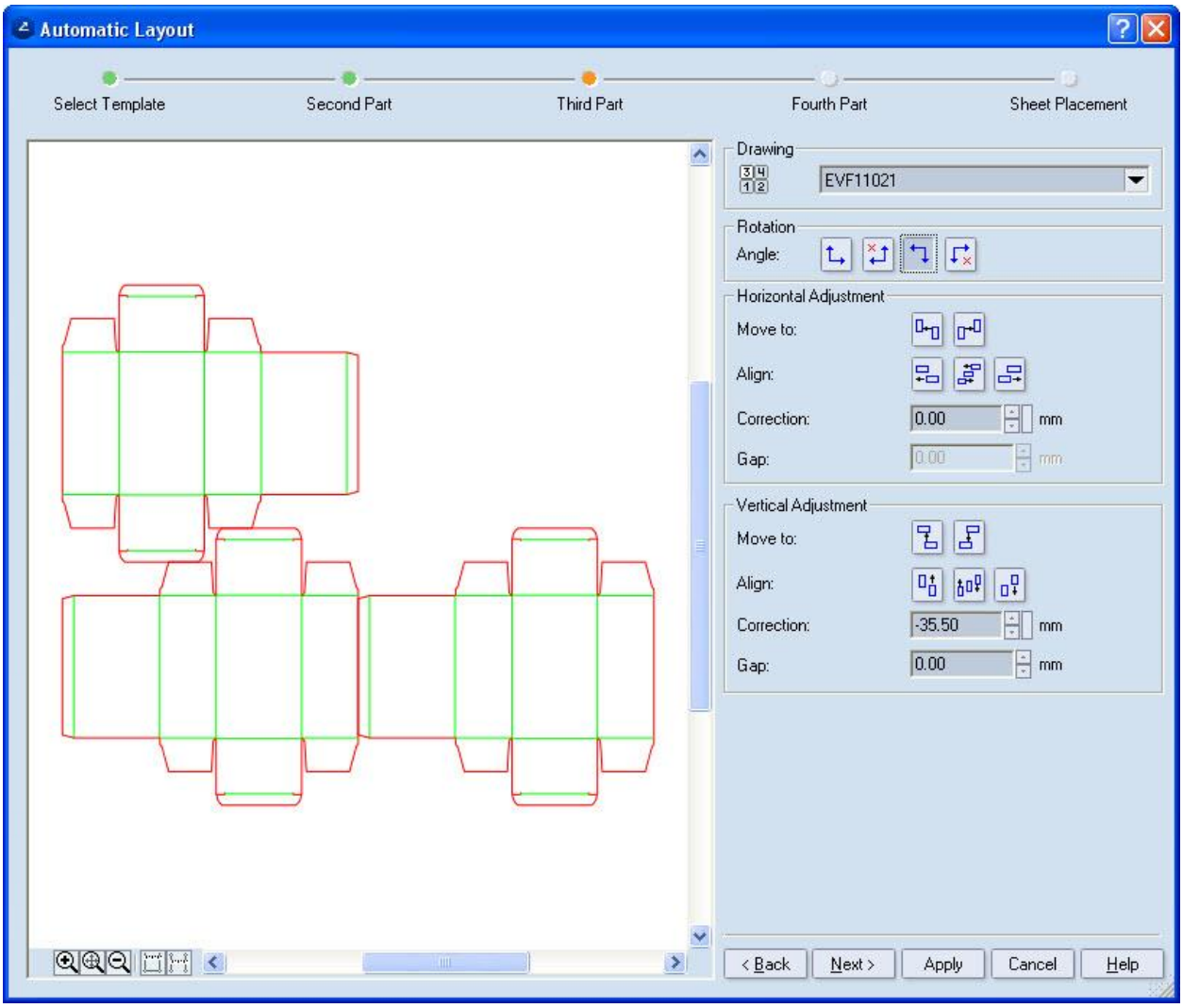

11. To align the third part horizontally to the first part, in the *Horizontal Alignment* area, click the Align Horizontal Center button (pictured). Then click the lines that will control the alignment: Line 1 and Line 2 (pictured). Upon clicking Line 2 the alignment is carried out.

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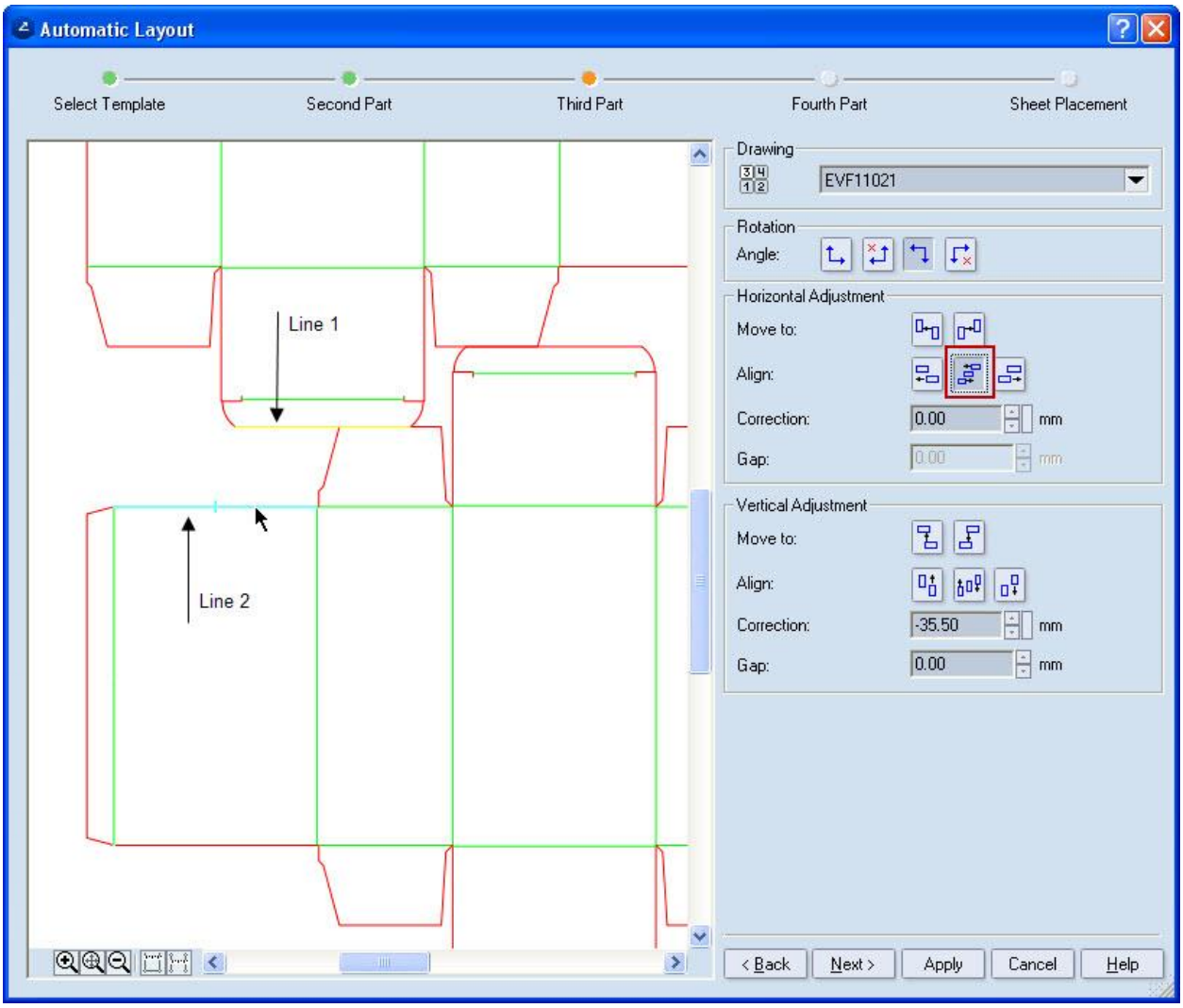

Note that in **Correction**, the distance of the alignment (–47.50) is displayed automatically.

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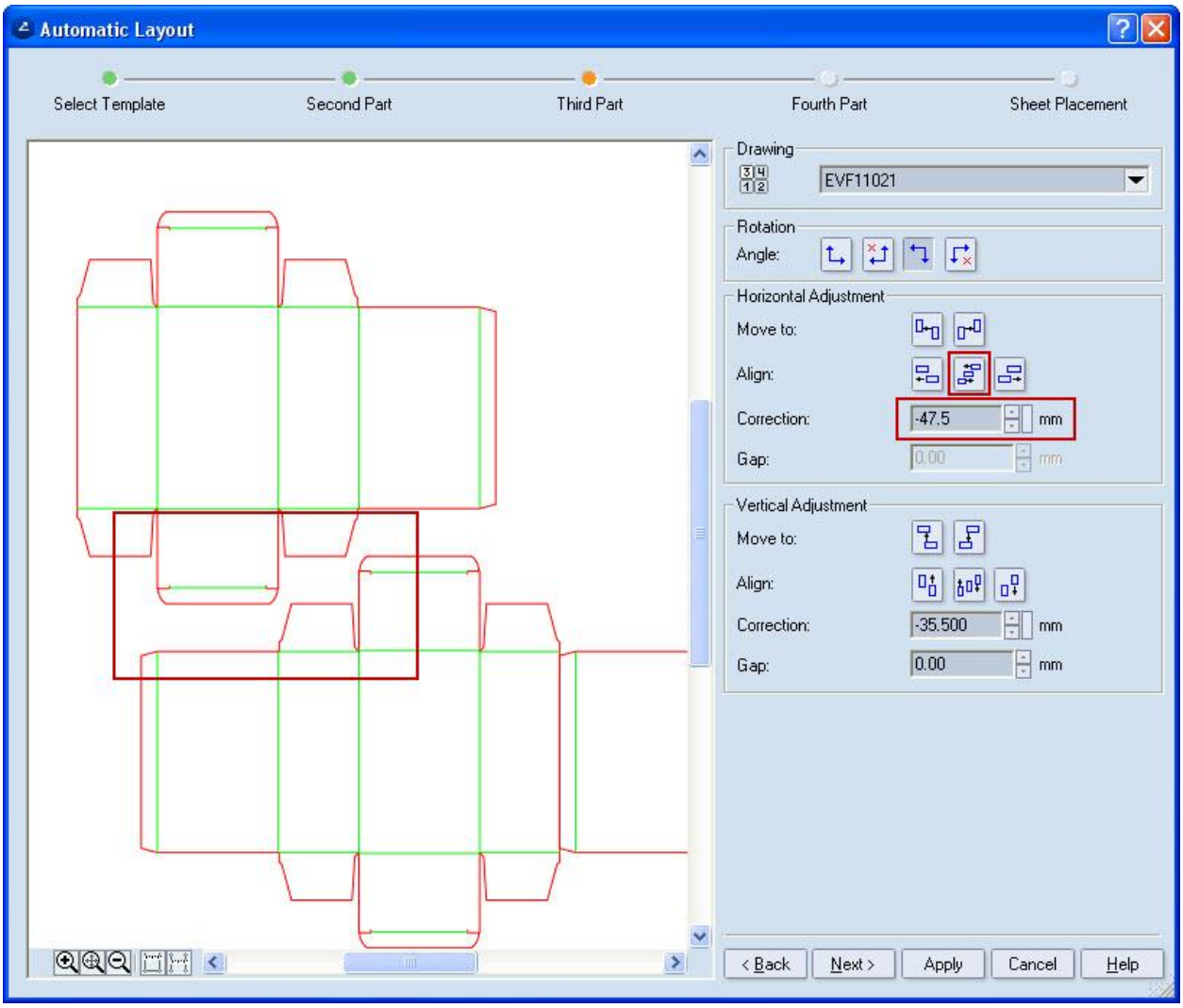

12. Now we'll align the third part vertically up to the first part. In the *Vertical Adjustment* area, click the **Move Down** button.

The third part attaches automatically to the first. In **Correction**, the value of the alignment (–71.00) is displayed automatically.

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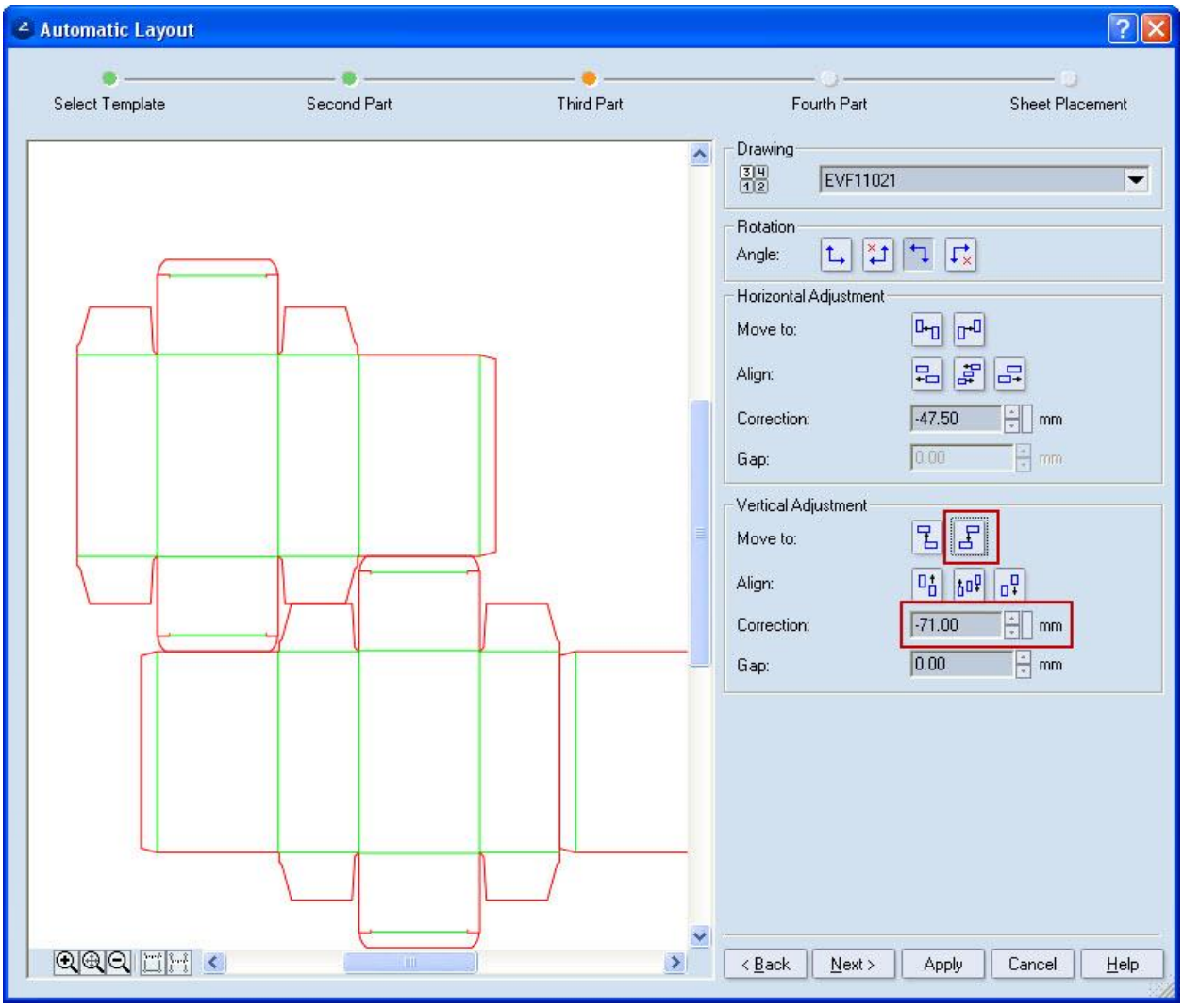

13. In **Gap**, enter a 5 mm for the gap between the first and the third parts.

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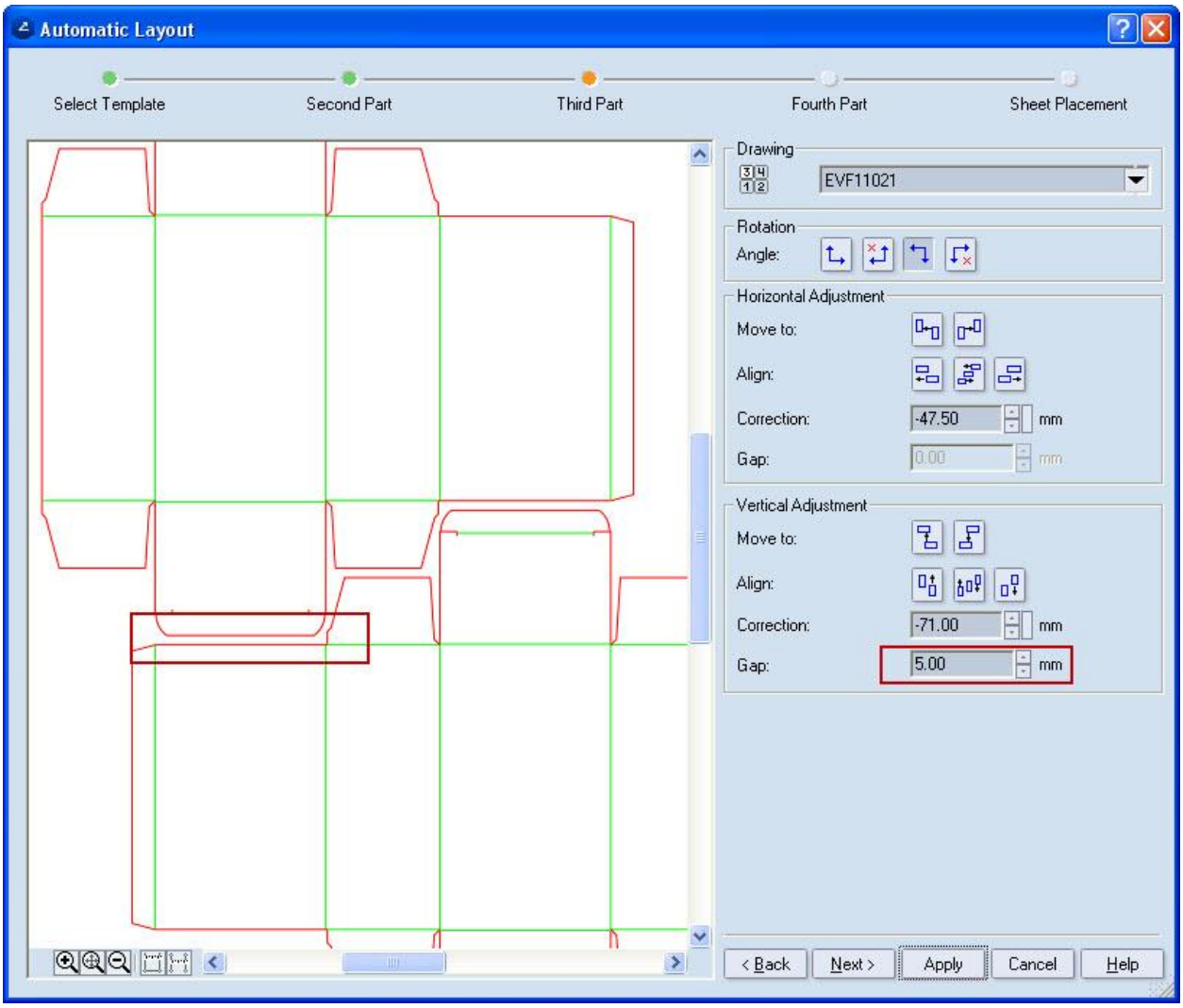

14. Click **Next**.

The Fourth Part step appears.

In this window you can check how the rows and columns are arranged in relation to each other. You also can correct the position and the alignment.

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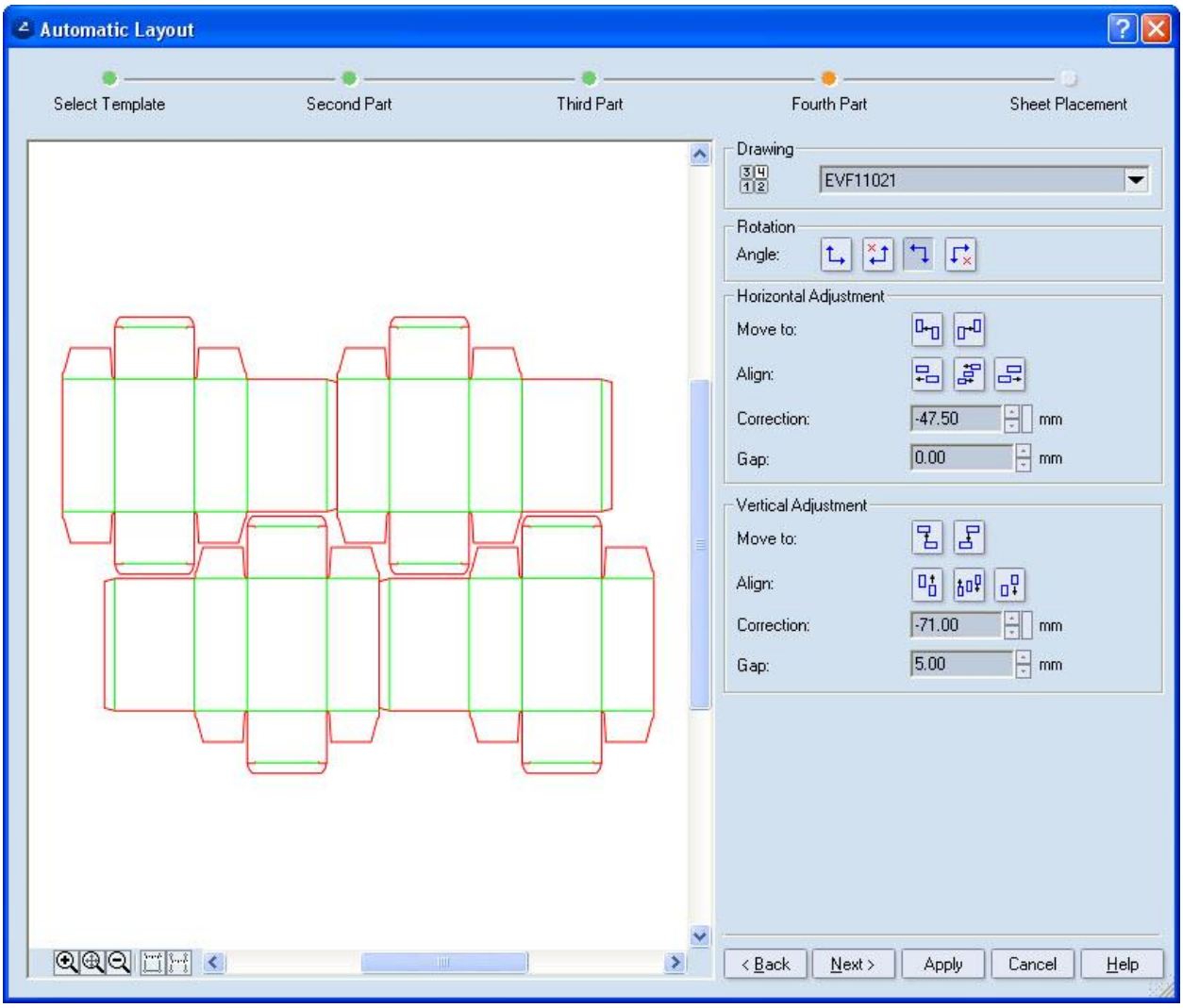

15. Click **Next** to go to the Sheet Placement step.

Sheet definition

In the second step we will define the sheet. There are three methods for this: (1) by fitting 1ups to a predefined sheet; (2) by choosing an optimal sheet; (3) by calculating the sheet size according the number of 1ups.

METHOD 1: Fitting 1ups to a predefined sheet size

A layout you create will be based on a custom sheet format *User Defined*. In the table you can check the width, the height and the margins of the sheet and of the layout. The last column indicates a value that you must add to the sheet format if you want to place another column or row.

You can enter your own values for the sheet

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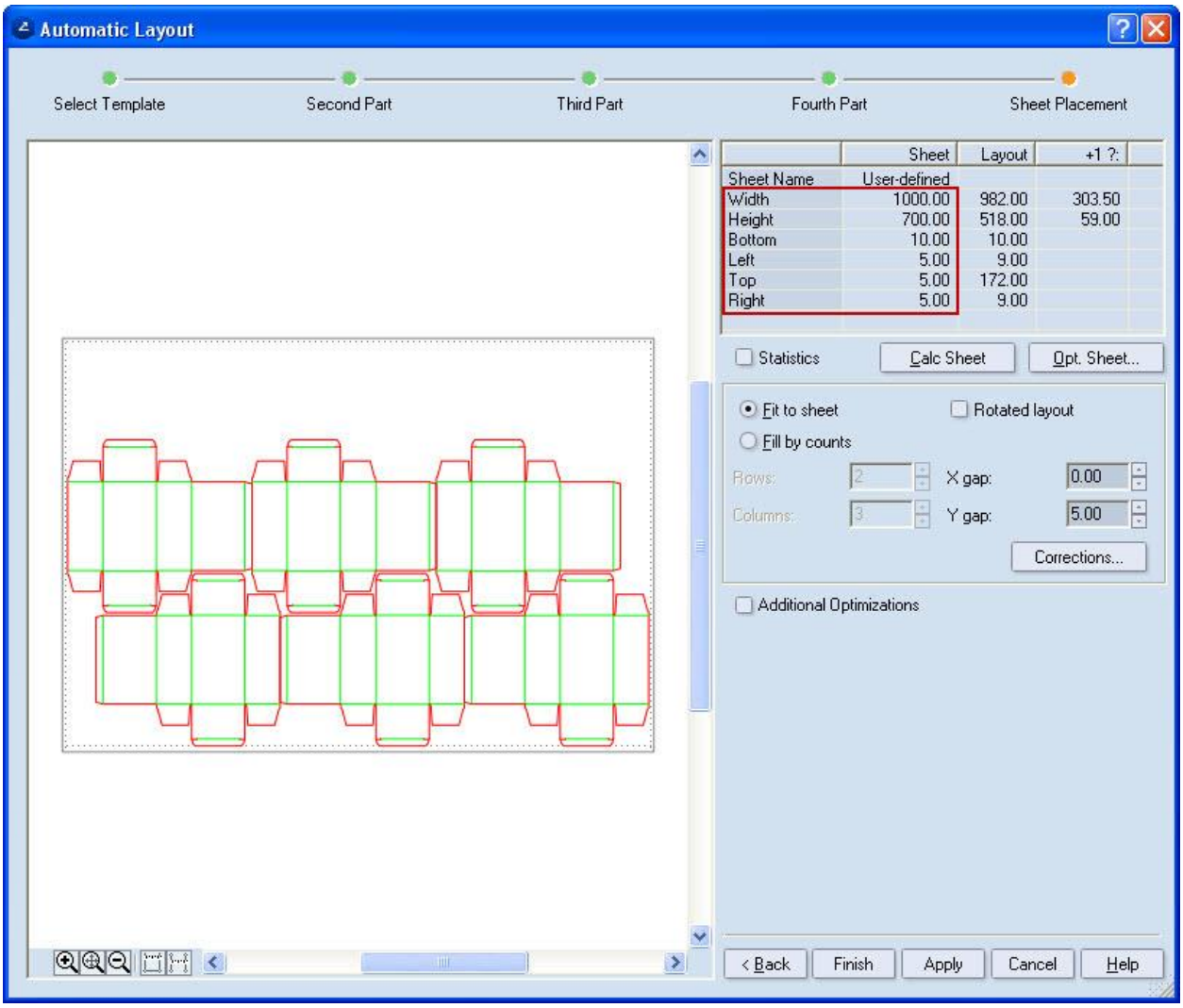
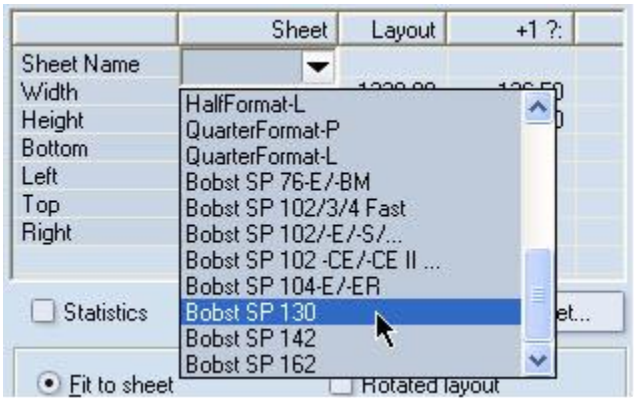


or click the **Sheet** column in the table to select the sheet format (pictured).



When you select a different sheet format, the number of columns and rows will be recalculated automatically and the 1ups will be positioned according to the selection.

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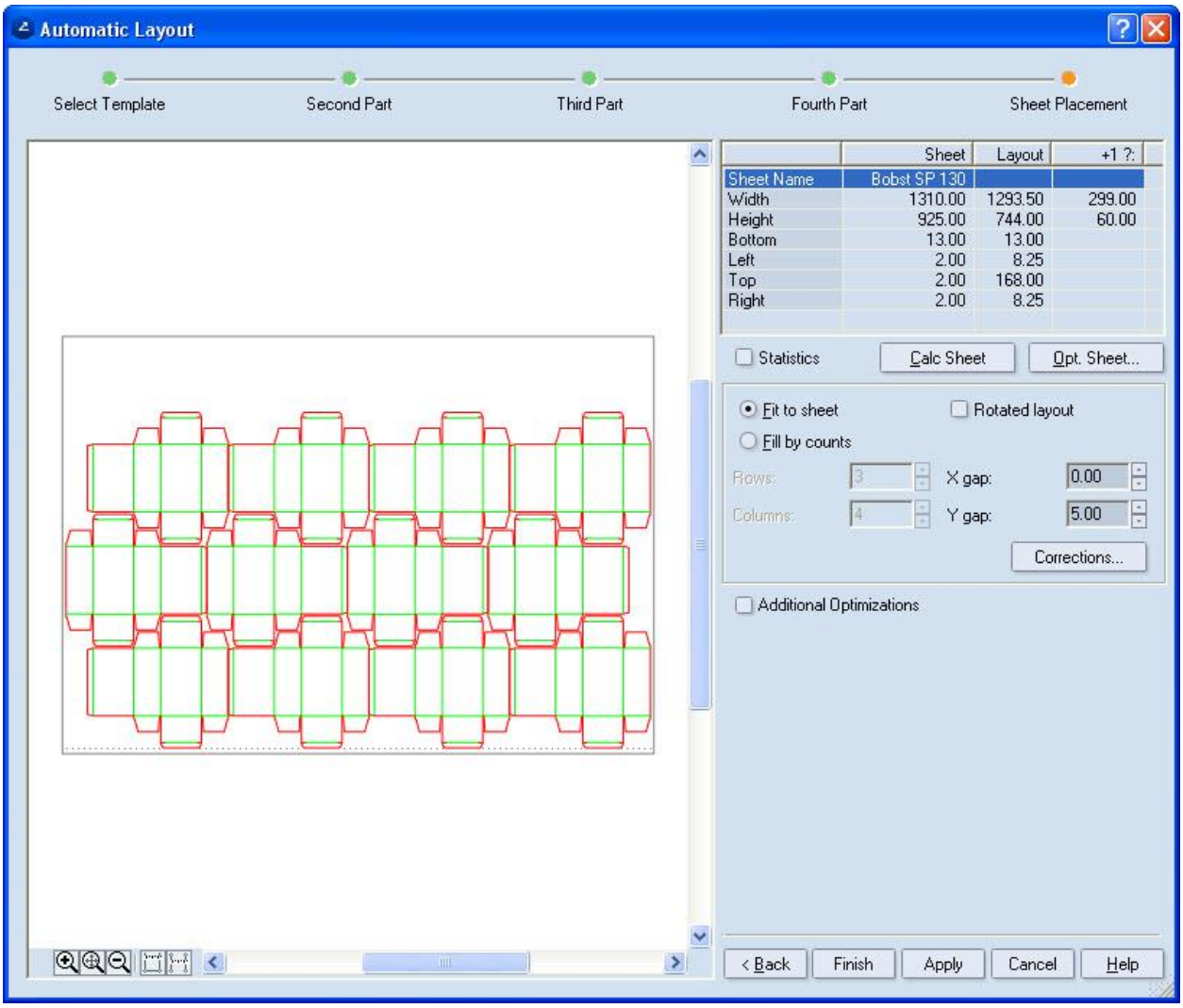

NOTE: To see an alternative layout array, rotated at 90 degrees counterclockwise, you can use the functionalities for displaying statistical information and then choose whether or not to use rotated layout. Select the **Statistics** check box. This changes the data in the table, displaying the alternatives in bold case (pictured).

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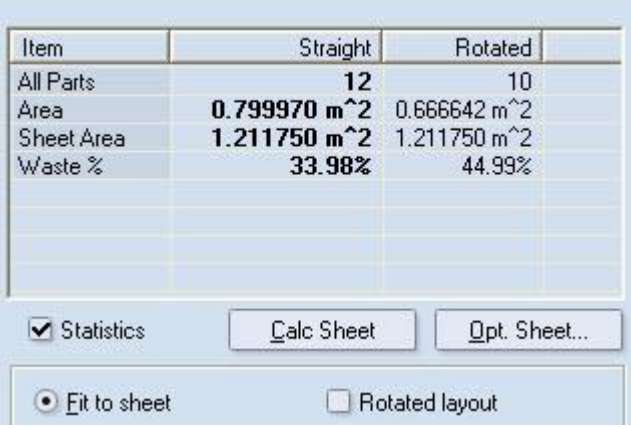
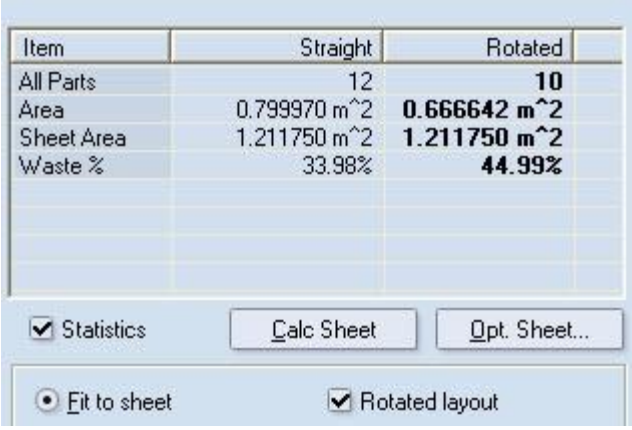


Straight layout settings



Settings for layout rotated at 90 degree.

METHOD 2: Defining sheet size by choosing an optimal sheet

1. Click the **Opt. Sheet** button below the table to run the wizard. This starts a method of sheet selection that offers the sheet with least waste.

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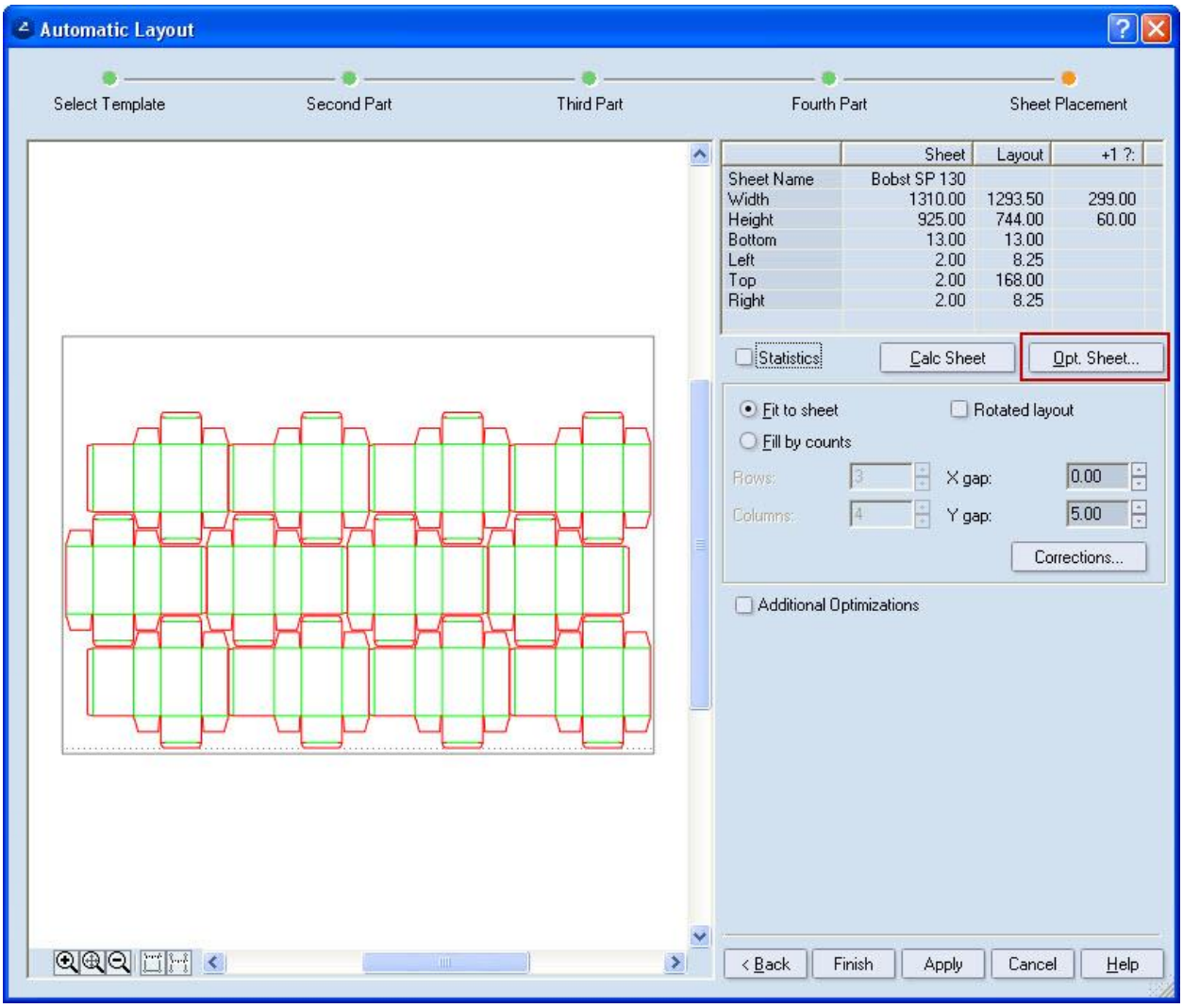

2. In **Optimal Sheet Selection: Input**, specify the total number in the *Number of pieces* box.

Available sheets lists the sheets that you have.

TIP: To edit the list, on the **Format** menu, click **Sheets**, and then remove unnecessary sheet formats or add new ones.

3. Select the respective sheets in the *Available sheets* list box and click the button to add them to the list of selected sheets. The selected sheets appear in the right list box.

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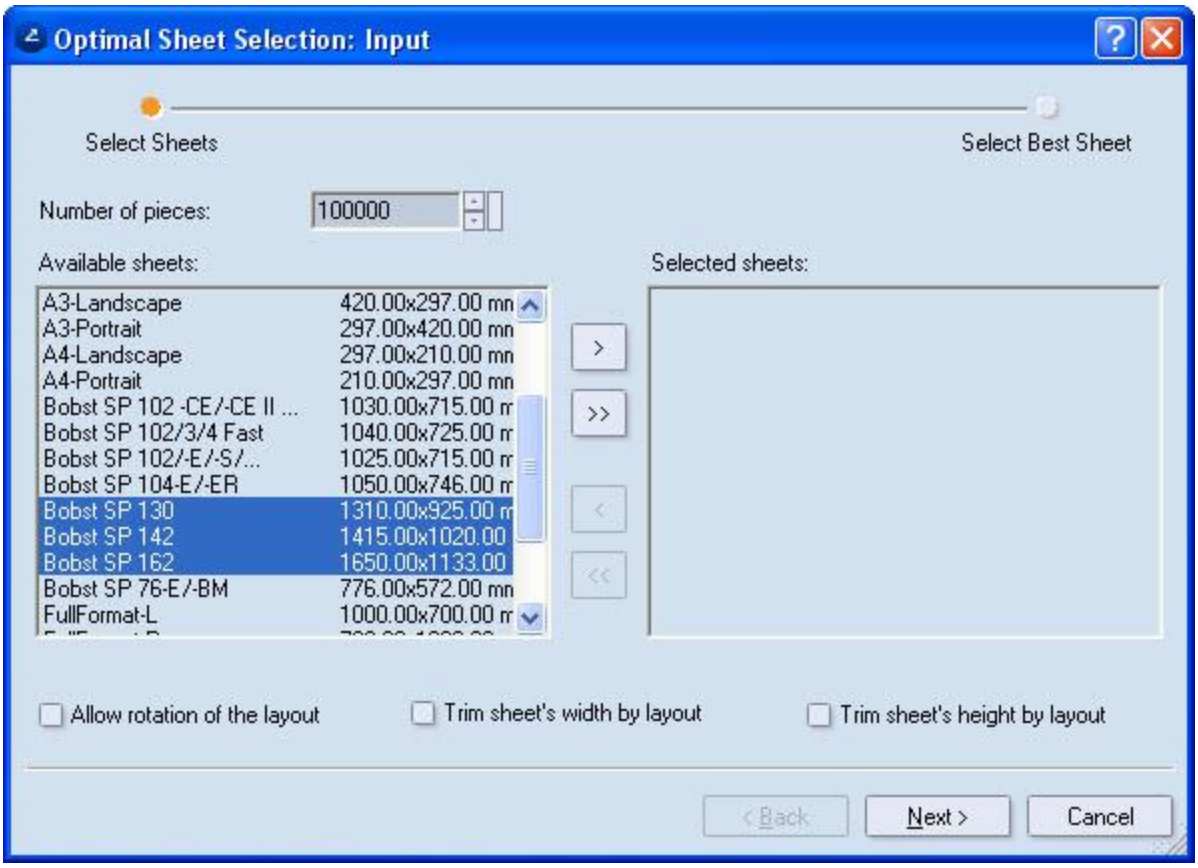

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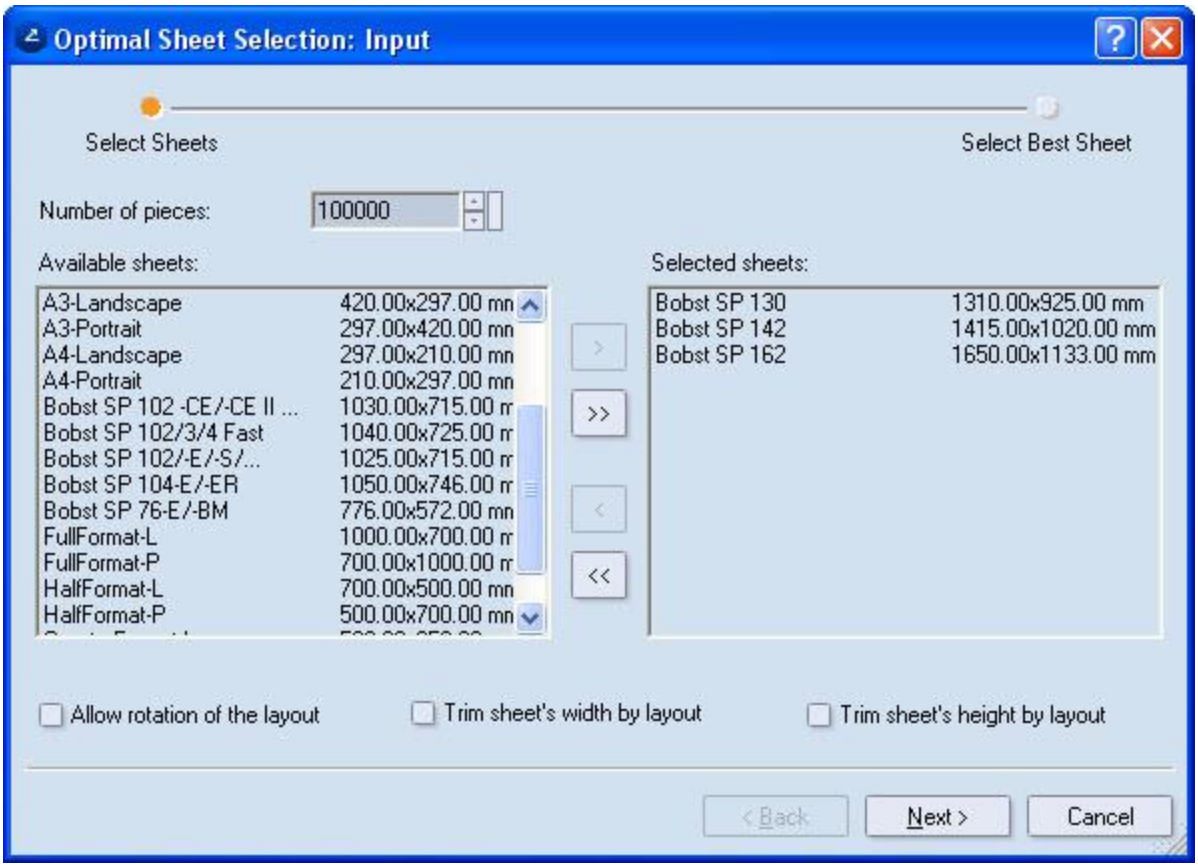

NOTE: To select all available sheets, press the button . This sets ups all the sheets as possible choices for the final sheet.

Allow rotation of the layout — the layout 1ups can be rotated to include optimization options.

Trim sheet's width by layout — trims the sheet according to the width of the used layout.

Trim sheet's height by layout — trims the sheet according to the height of the used layout.

4. Click **Next** to go to the Select Best Sheet window.

In this page the sheets are listed in descending order according to the percentage of waste area.

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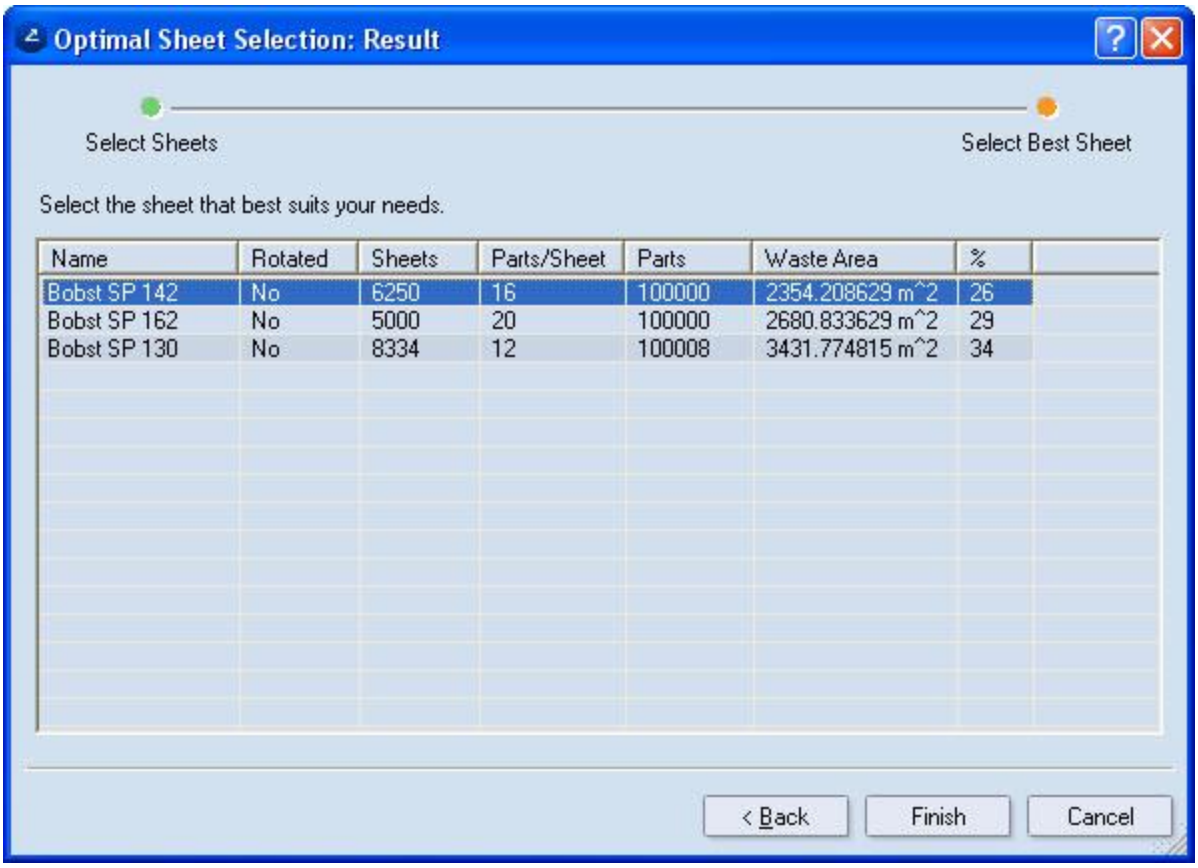


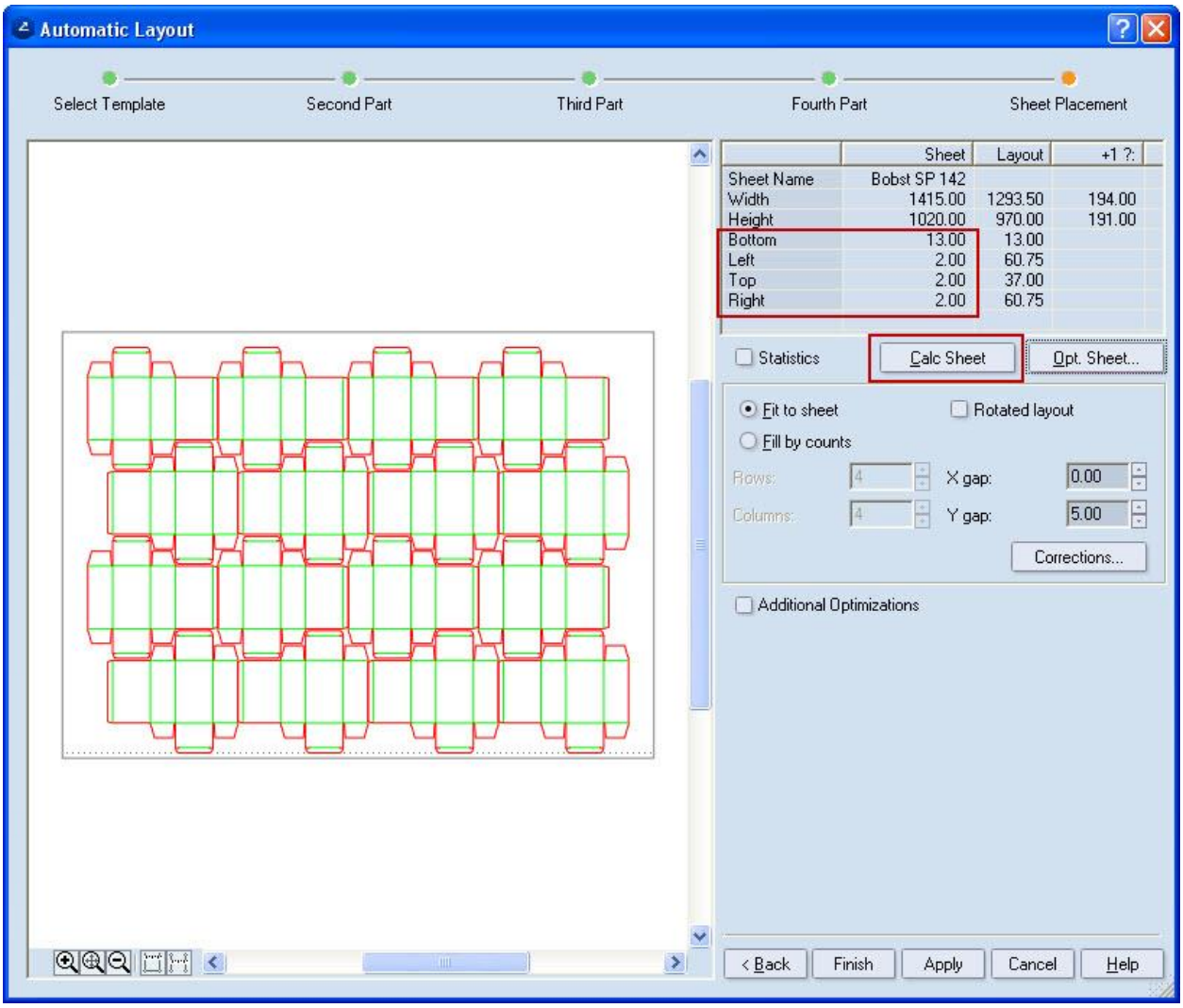
The list box provides information on the number of required sheets, the number of 1ups per sheet, the total number of pieces produced and the amount of waste for each selected sheet format.

5. Choose Bobst SP 142 list box, since this selection would result in the least waste; then click **Finish**.

In the selected sheet size, the program has fitted as many 1ups as possible.

METHOD 3: Calculating sheet size according the number of 1ups per sheet

In this method you enter the number of 1ups per sheet that you need. Then you use the **Calc Sheet** button. The program computes the sheet size. During the computation, also the margins get taken into account.



After you have chosen one of the three sheet size definition methods and have your final sheet size, click Finish to complete the procedure.

The finished layout appears in the drawing area.

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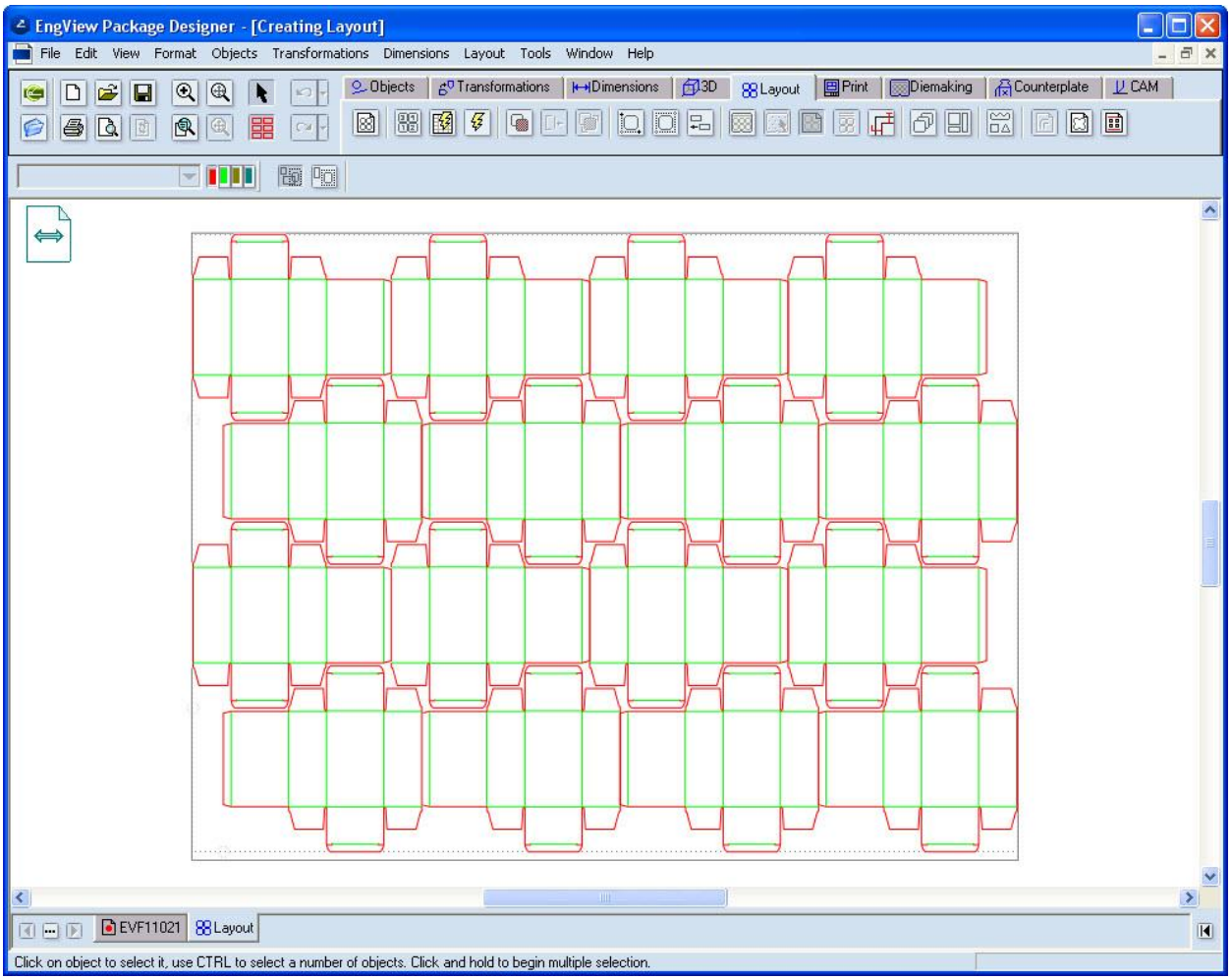

Recalculating a template

You may need to make corrections to the 1up to be able to fit more boxes into the layout. A standard correction is the editing of the glue flap width. In this case, we will edit the width from 12 to 10 mm. This affects the rule-to-rule width of the box (the overall horizontal dimension).

1. In the 1up drawing, change the expression of the GL parameter, which controls the width of the glue flap, to 10.

TIP: Normally, to save space not all parameter groups are shown in the tabular area. To view a particular group, right-click anywhere in the tabular area, point to **Groups**, and then on the context menu click the name of the parameter group that you want visualized.

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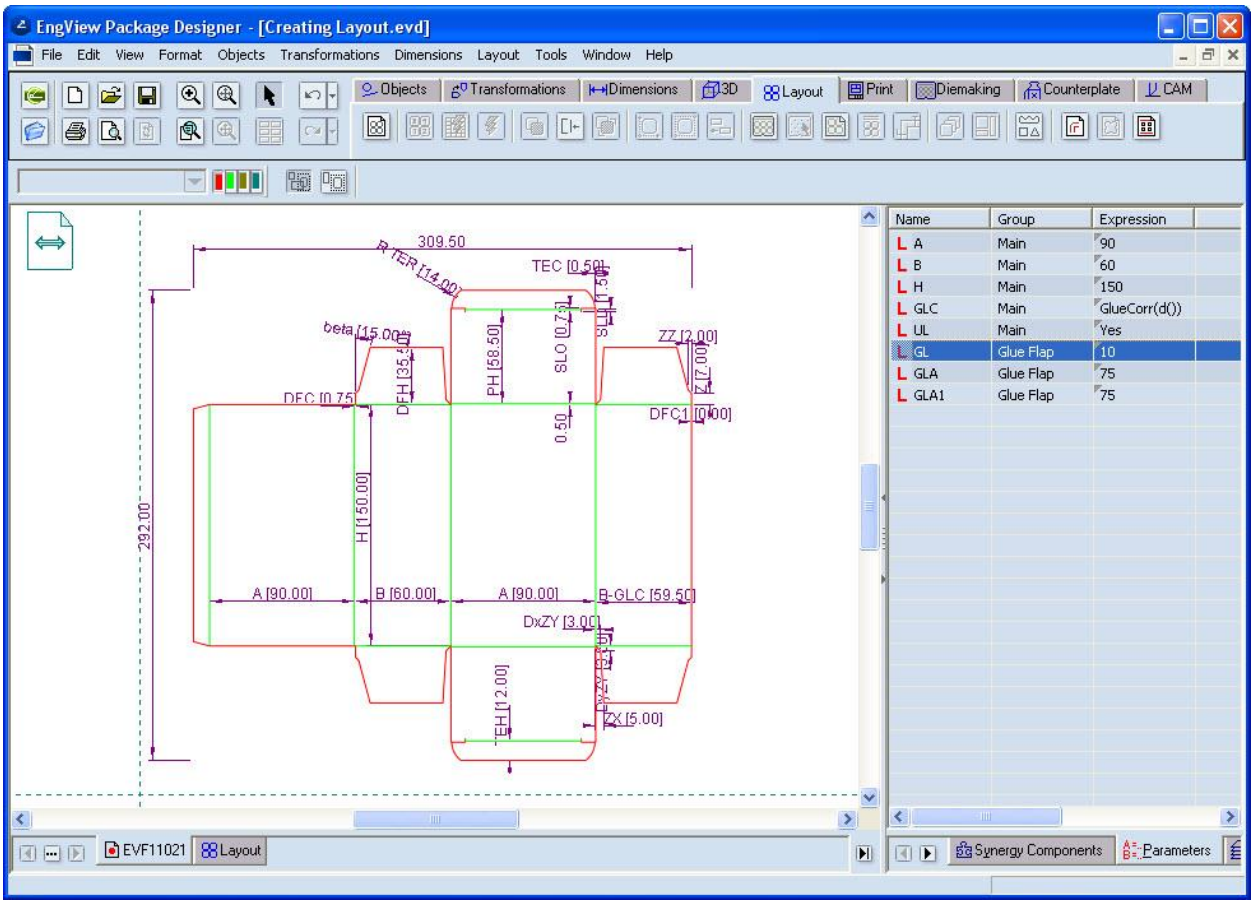

As a consequence of the editing a gap appears in the layout (pictured).

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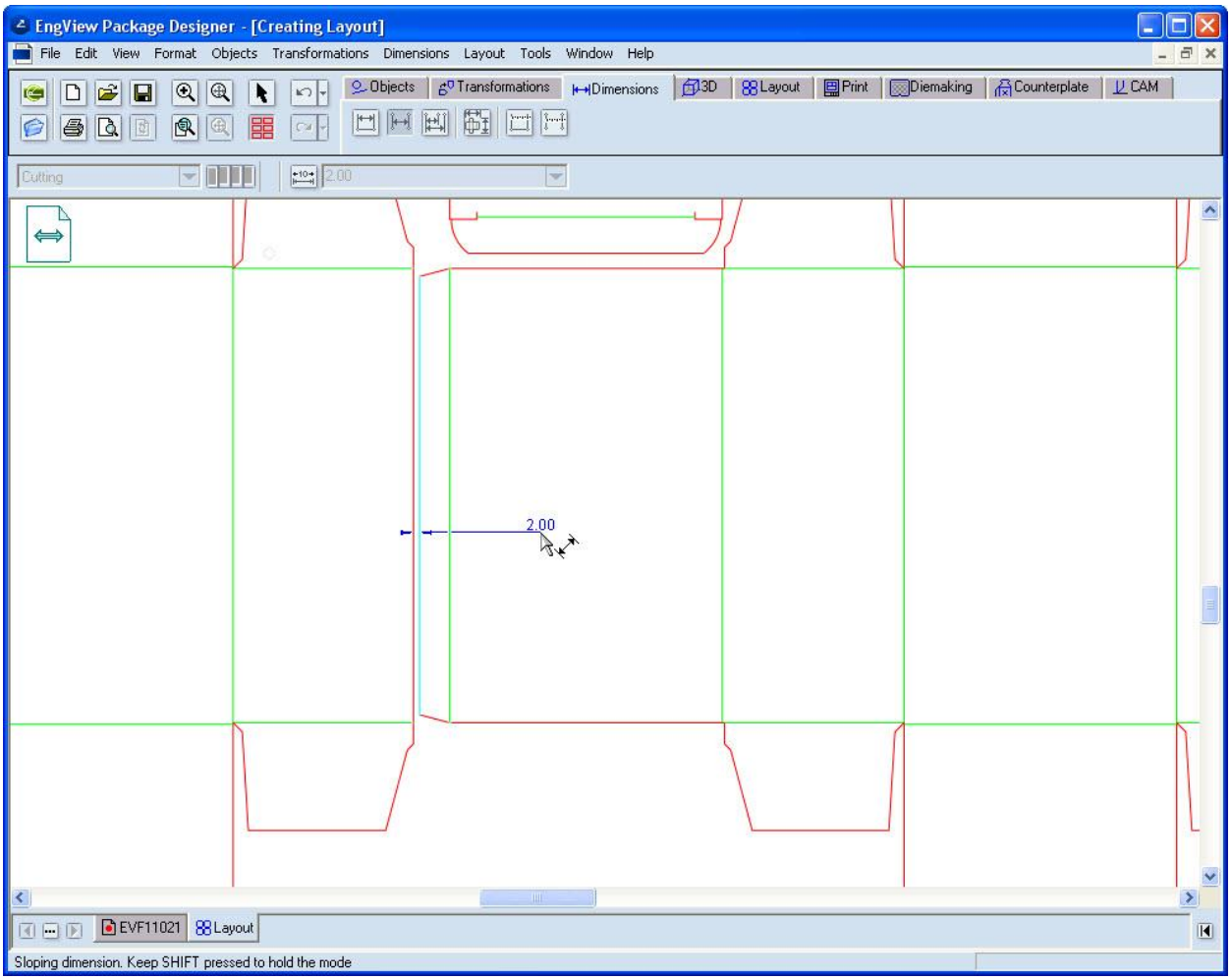

2. In the layout drawing, on the Layout toolbar, click **Recalculate Template** .

The program updates the array with the new size of the box. The gaps are eliminated.

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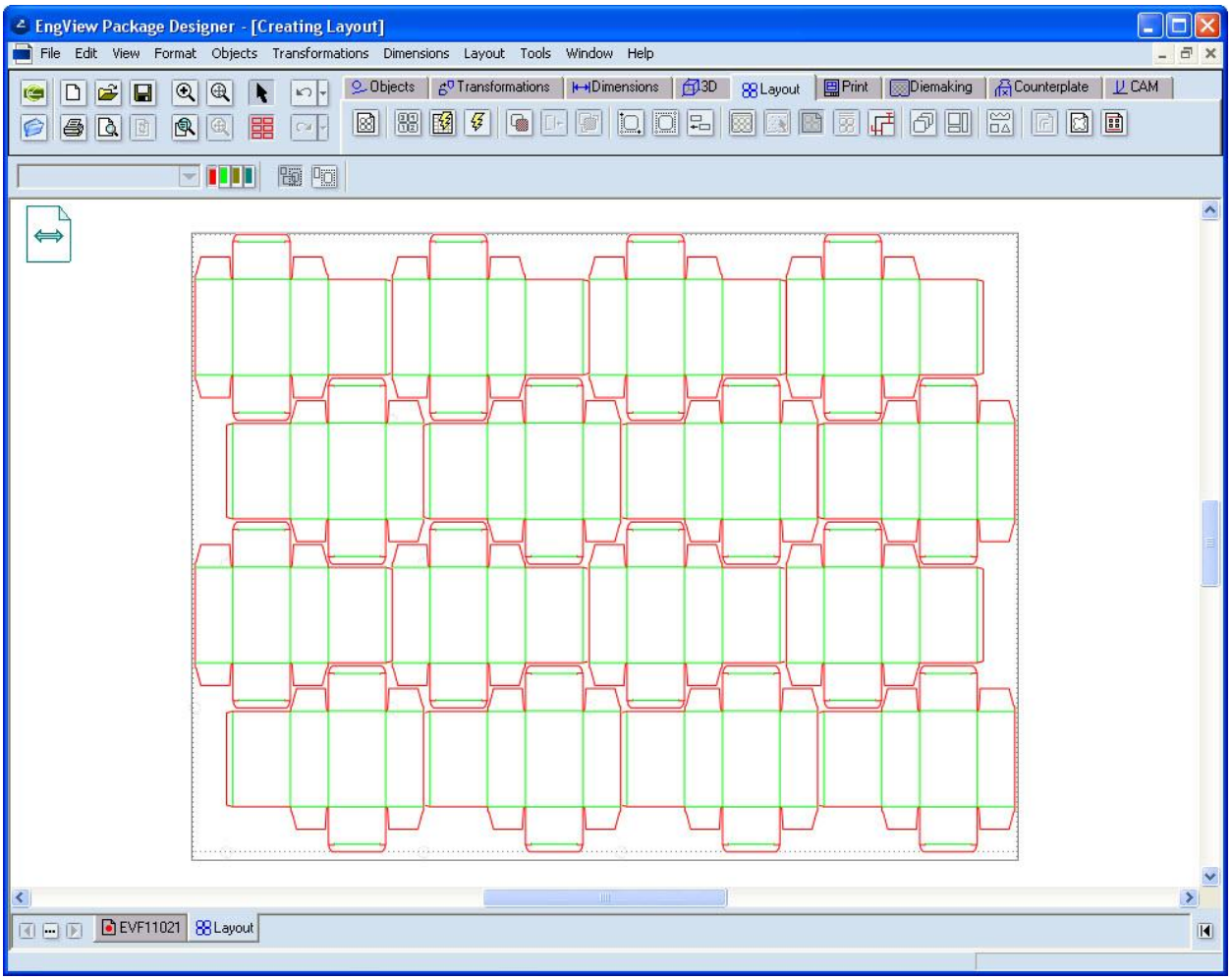

Applying layout to a new sheet

When you have a template-generated layout, you can later apply a new sheet to the already-defined array of the boxes. To do so, on the Layout toolbar, click **Apply Layout Template to New Sheet** , and then, in the dialog that appears, proceed with the definition of the sheet.

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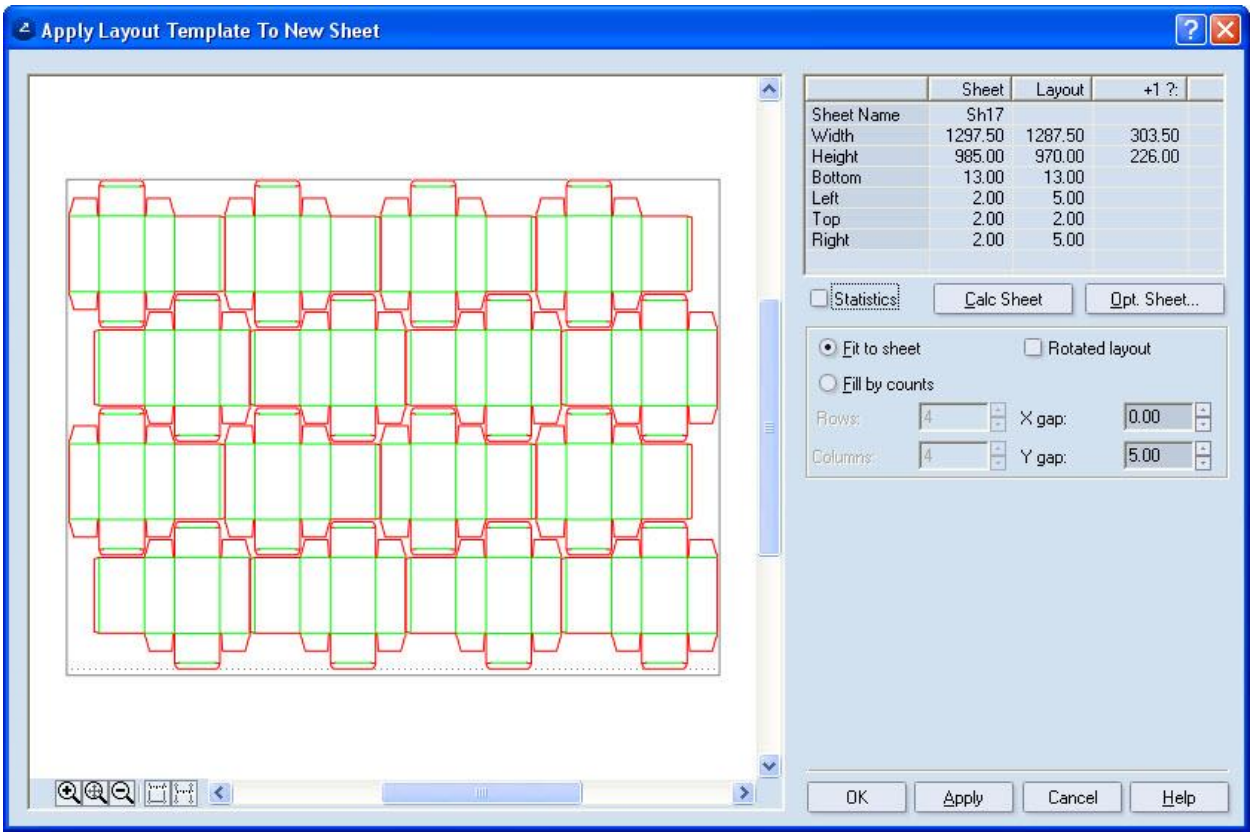

The application of the new template can be carried out by using any of the three sheet definition methods described above.

Exporting layout in the CFF2 file format

The layout drawing can be exported as an CFF2 file.

1. Make sure the Layout window is shown.

2. Choose File > Export.

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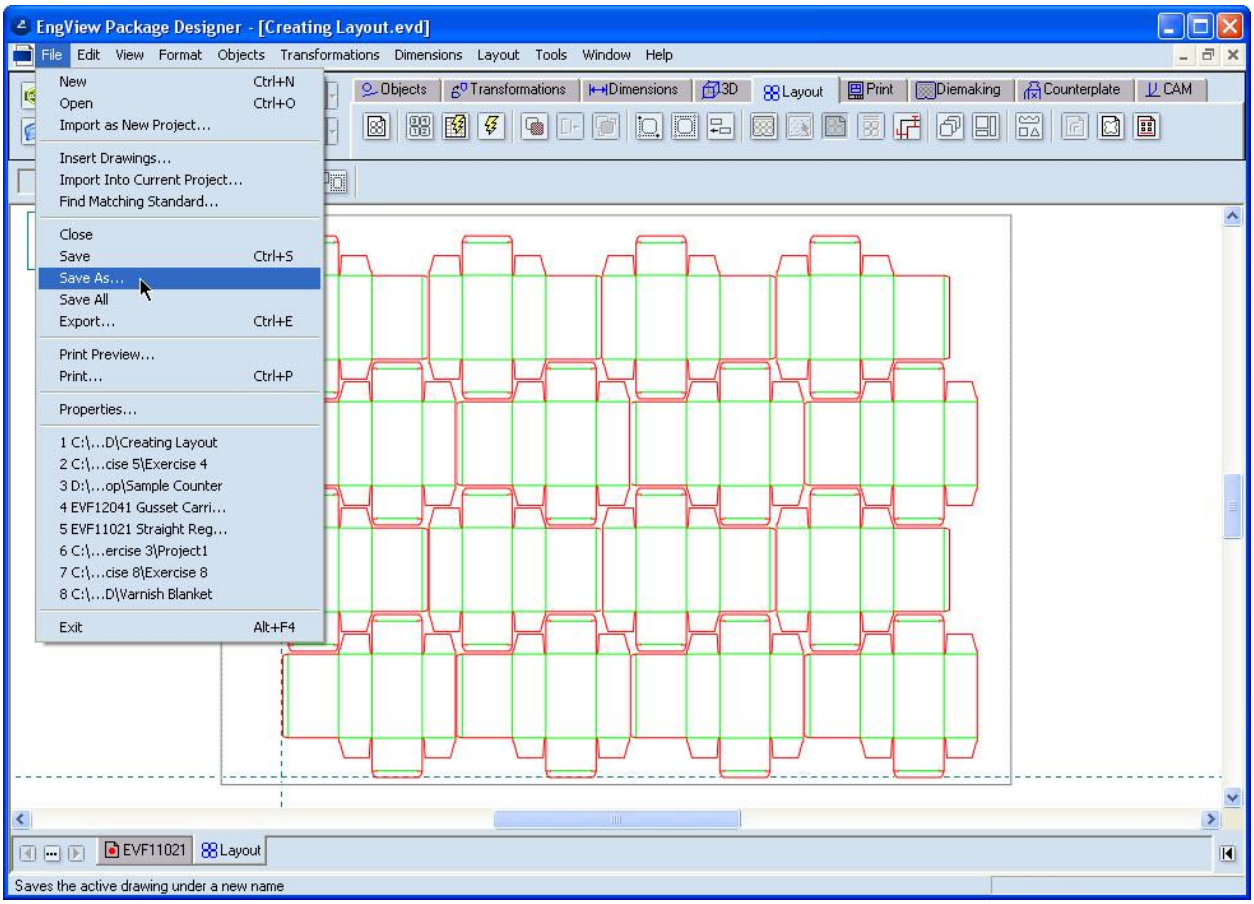
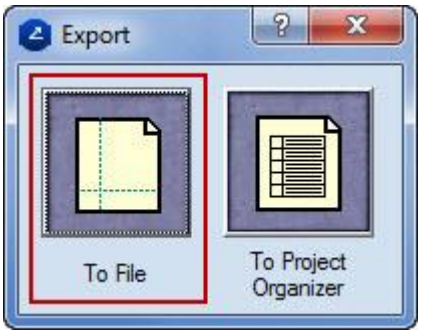


The **Export** dialog box appears.



3. Choose the option Common File Format CFF2 in the pop-up menu *File of type* and save the file to the proposed folder.

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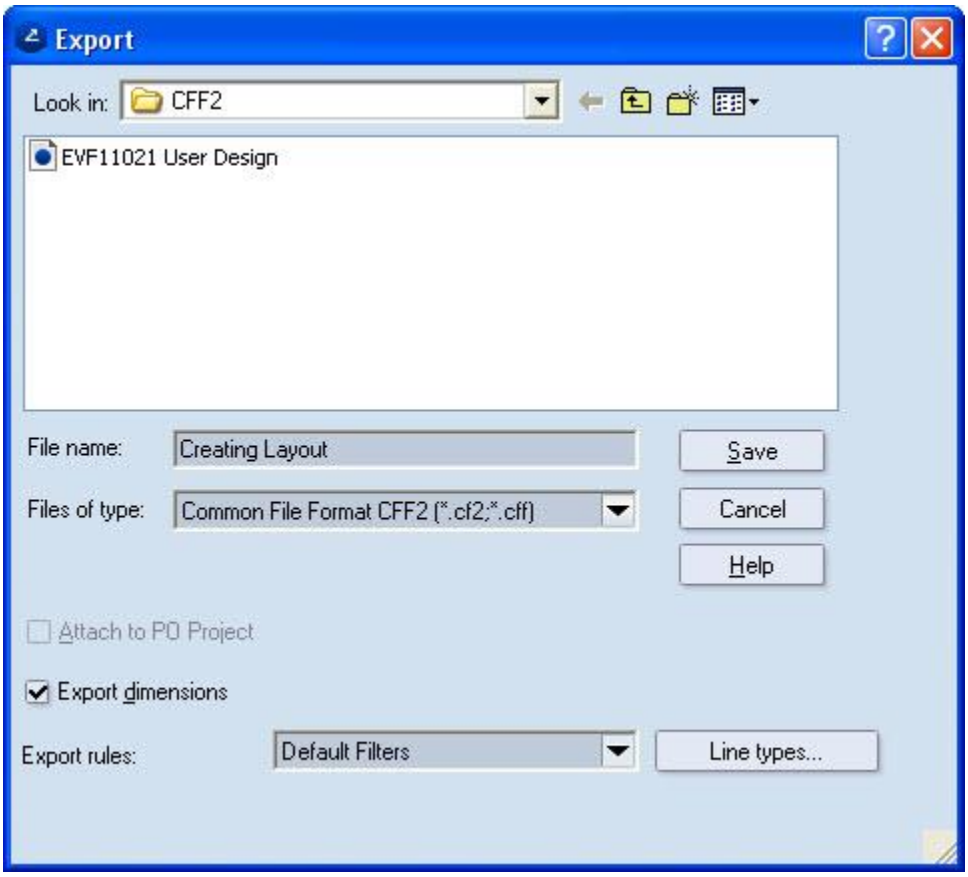

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