

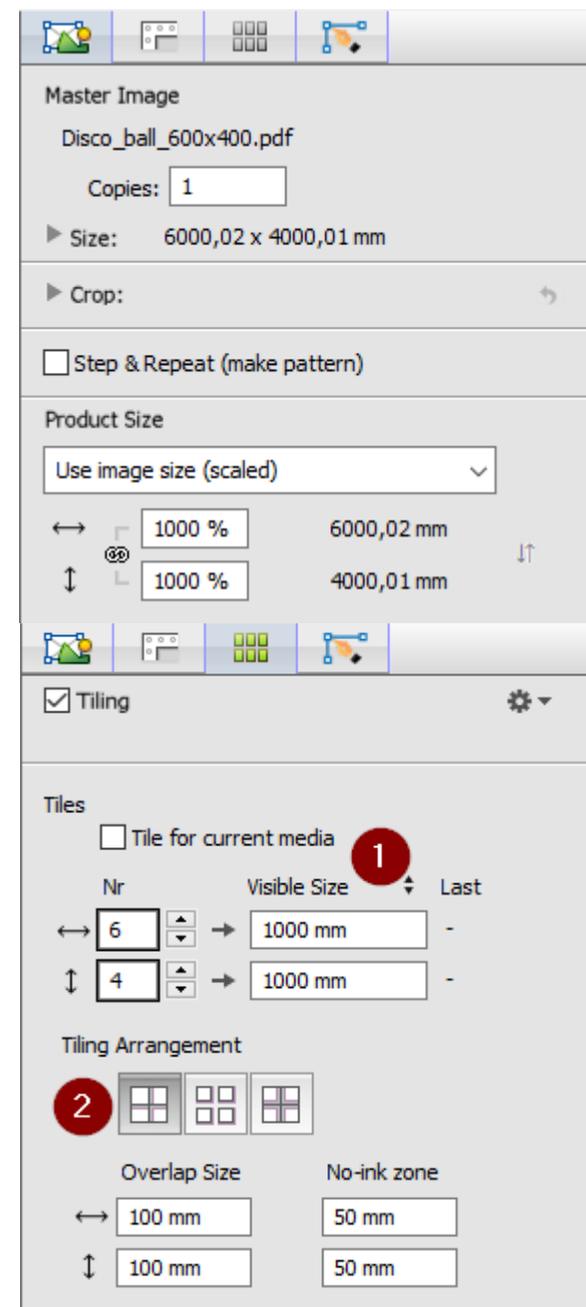
This tutorial demonstrates how to use tiling within Asanti.

Download the Asanti Sample Files via the Asanti Client (Help > Asanti Online > Download Sample Files).

1. Overlapping tiles with fixed number of tiles

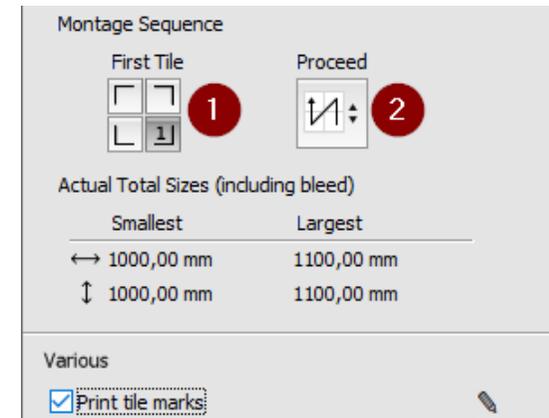
We will create a poster of 6 x 4 m, composed of a fixed number of tiles.

1. Create a new layout job.
2. Select your printer (e.g Anapurna 2500).
3. Set the Size to 1130 x 1130 mm.
4. Select the Finishing inspector.
Set the Cutter to “Zünd” and the Finishing Margins to “iCut Corner Marks, between 10”.
5. Click File > Save as Template...
6. Create a new category “Tiling”.
7. Enter the template name “Tutorial” and click Save.
8. Add the “Disco_ball_600x400.pdf” file from the Sample Files.
9. Open the file in the Image Editor.
10. The Image inspector is selected, showing the settings for the image and the final product size.
11. Change the “Product Size” to 1000%.
12. Select the Tiling inspector.
13. Enable Tiling and set the number of tiles to 6 x 4.
14. Choose “Visible Size” from the drop-down list (1).
‘Visible Size’ is the part of the tile that is visible after the tiles have been assembled.
‘Total Size’ is the sum of the visible size and the overlaps or extensions.
15. Choose the “Overlapping tiles” arrangement (2).
16. Set the overlap size to 100 mm (horizontal & vertical).
17. Set the no-ink zone to 50 mm (horizontal & vertical).
The image will be updated if the view options are enabled.

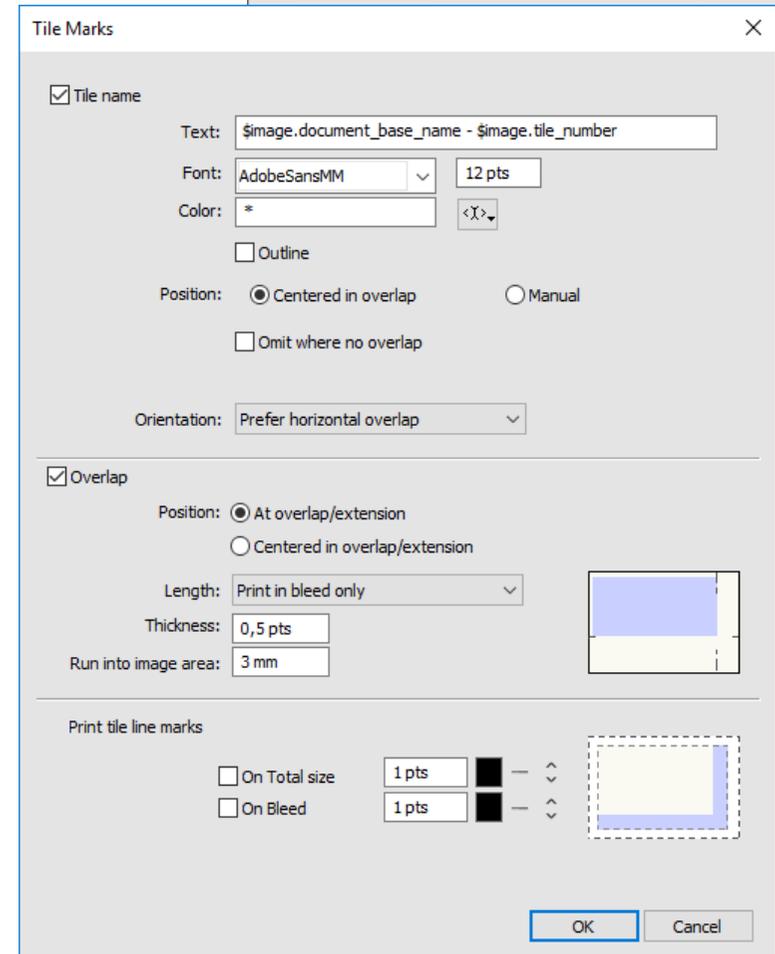


18. Click on the lower right tile in the 'First tile' option (1) and click the proceed order drop-down and select the second option (2). You will see that the anchor point (and overlaps) of the tile and the tile numbering is changed on the image.
19. The "Actual Total Sizes" show the smallest and largest total widths and heights of the tiles.

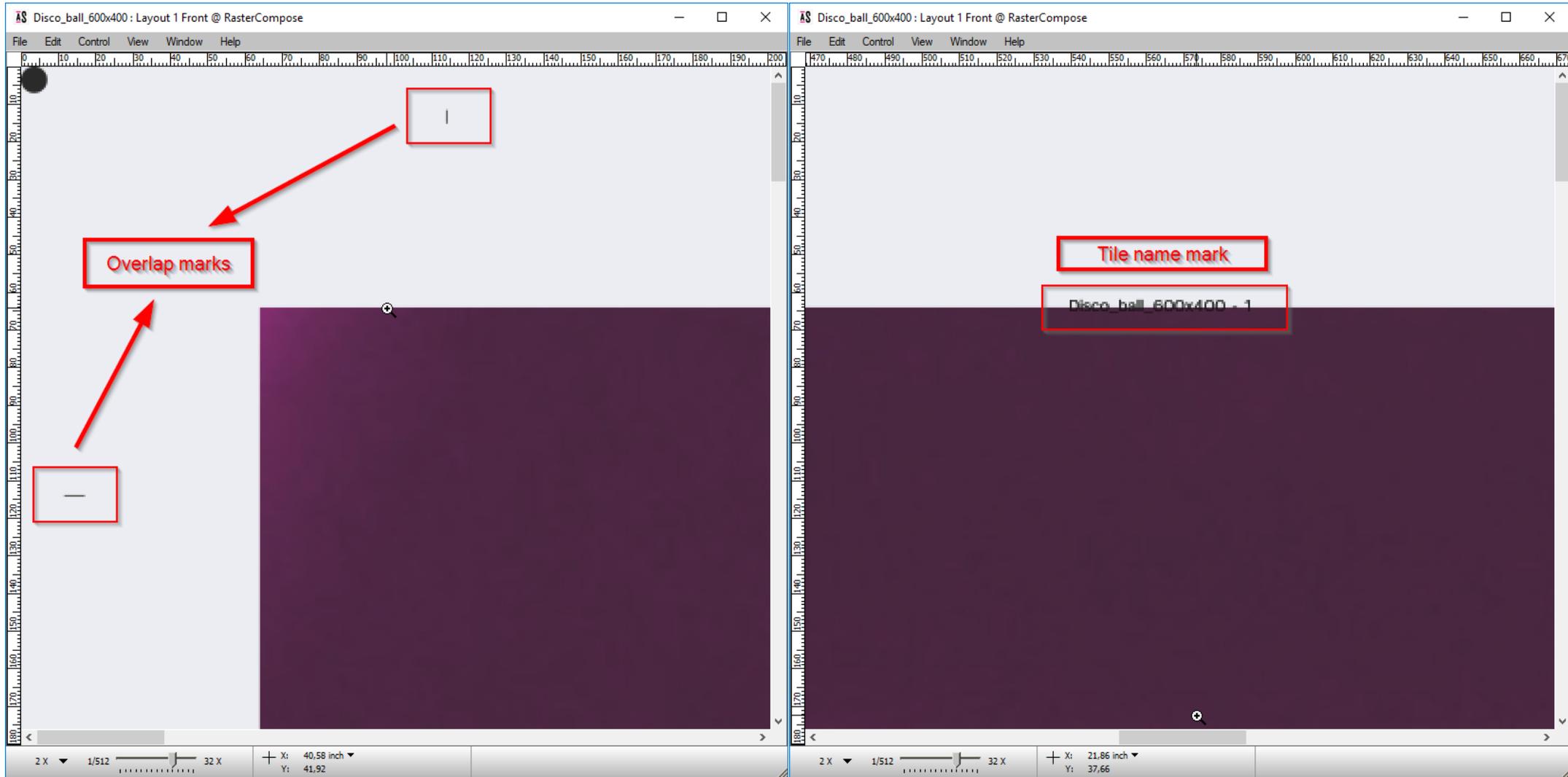
The smallest horizontal/vertical and the largest horizontal/vertical size are not necessarily from the same tile.



20. Enable "Print tile marks".
21. Click on the pencil next to 'Print tile marks' to open the Tile marks dialog. Here you can specify which marks need to be printed on the tiles. You can also specify where and how the mark should be printed.
22. Click OK to close the dialog.
23. Click the "Export and Open" button. The Montage instructions PDF is opened. On page 1 you will get a summary of the job and tiles, and page 2 shows the montage schema.
24. Close the PDF.
25. Click the "Apply" button. The Image Editor is closed and the tiles are shown as individual images in the Layout Editor.
26. Select the first tile and drag it to the sheet.
27. Submit Job > Change the job name > "Make and hold" for Print Files and "Hold" for Cut Files.



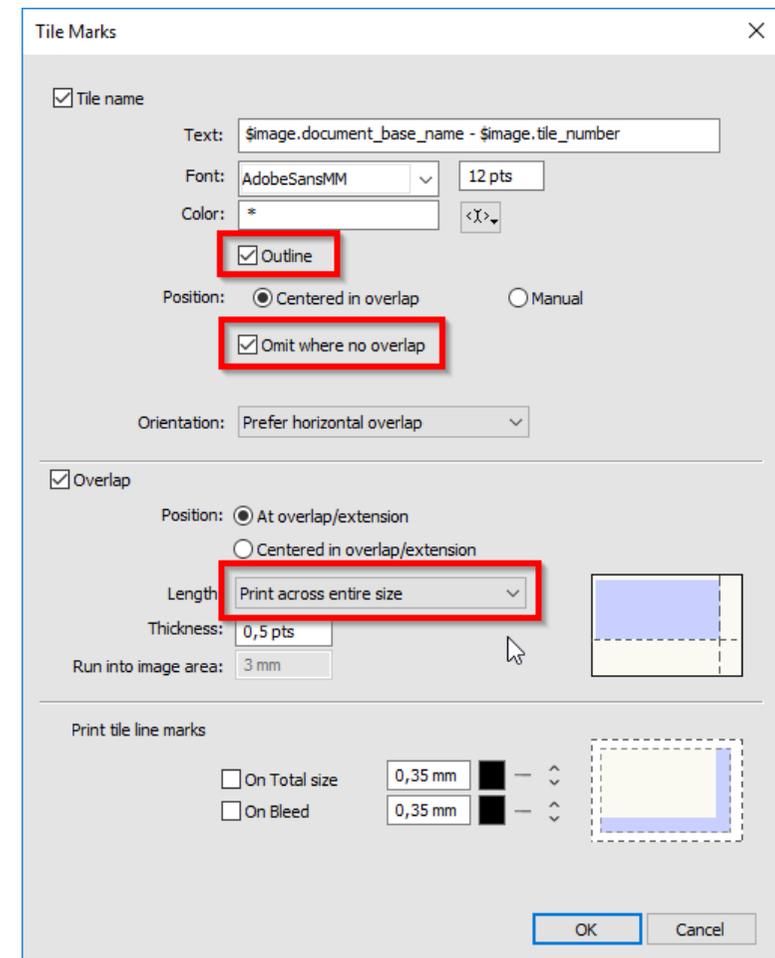
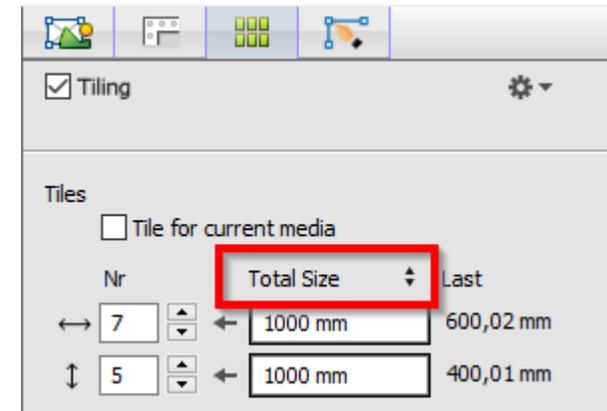
- 28. When the tile is rendered, open it in the raster preview.
- 29. Zoom in to the upper left corner and verify that you see the overlap marks.
- 30. Move the preview horizontally to the middle of the window and check that you see the 'Tile name' mark.



2. Overlapping tiles with a fixed tile size

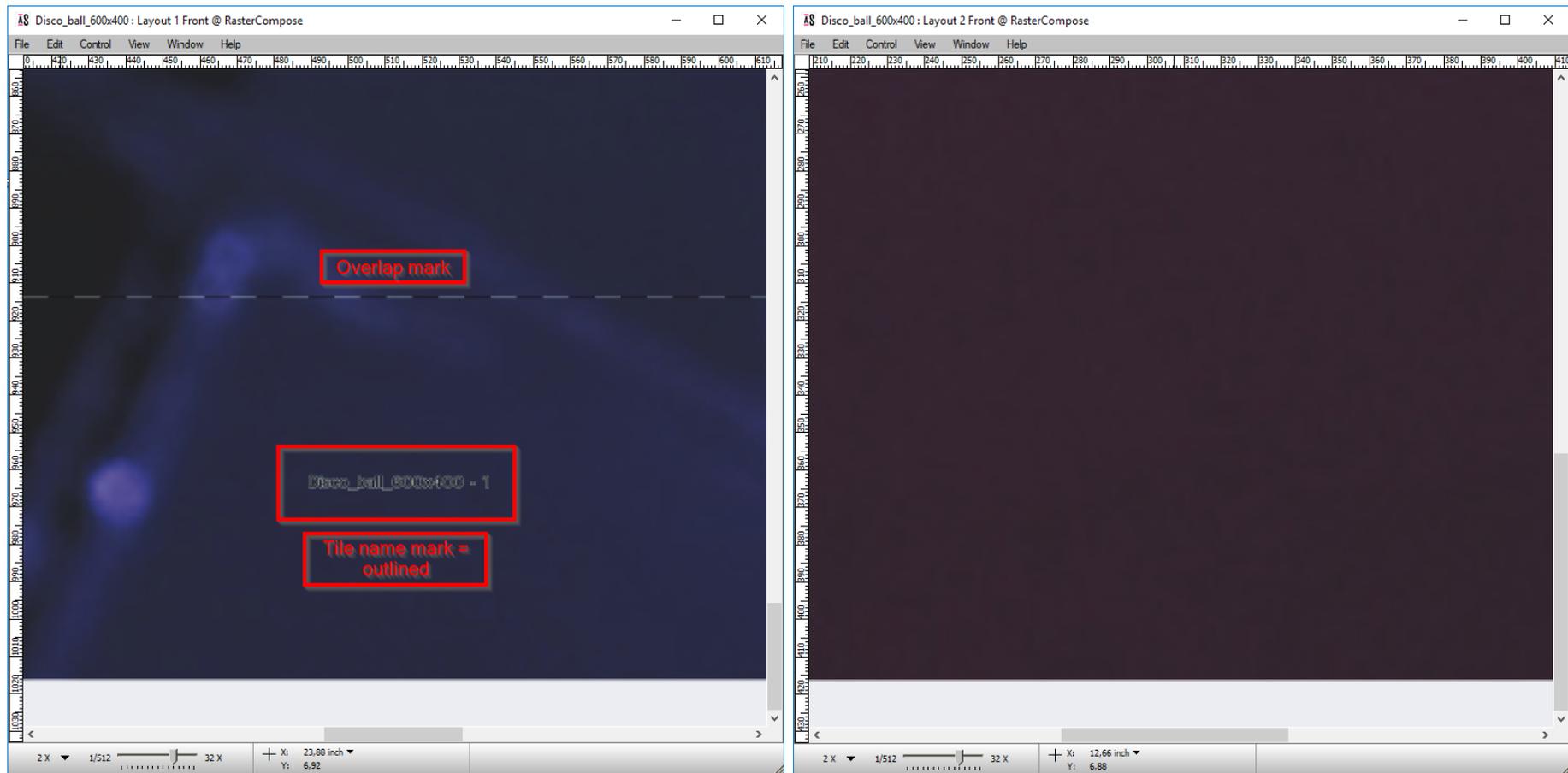
We will create a poster of 6 x 4 m, composed of tiles with a fixed size.

1. File > new from Templates...
2. Open template "Tutorial".
3. Import "Disco_ball_600x400.pdf".
4. Open the file in the Image Editor.
5. Set the "Product Size" to 1000%.
6. Select the Tiling inspector and enable 'Tiling'.
7. Change the size to "Total Size" and set it to 1000 x 1000 mm.
8. Set the overlap size to 100 mm (horizontal & vertical).
You will see that the tiles of the last column and the last row are smaller than the other tiles.
9. Enable "Print tile marks" and click the pencil.
10. For the 'Tile name' mark, enable the "Outline" and the "Omit where no overlap" option. For the 'Overlap' mark, set the length to "Print across entire size".
11. Click "OK".
12. Click the "Apply" button.
The Image Editor is closed and the tiles are shown as individual images in the Layout Editor.
13. Drag the first and the last tile to the sheet.
14. Submit Job > change the job name > "Make and hold" for Print Files and "Hold" for Cut Files.



15. When the first tile is rendered, open it in the raster preview. You will see that the overlap marks are placed across the entire size.
16. Zoom in to the 'Tile name' mark in the center at the bottom. The mark is rendered outlined.
17. Raster Preview the second tile. As there is no overlap on this tile, there are no overlap marks drawn and there is no 'Tile name' mark.

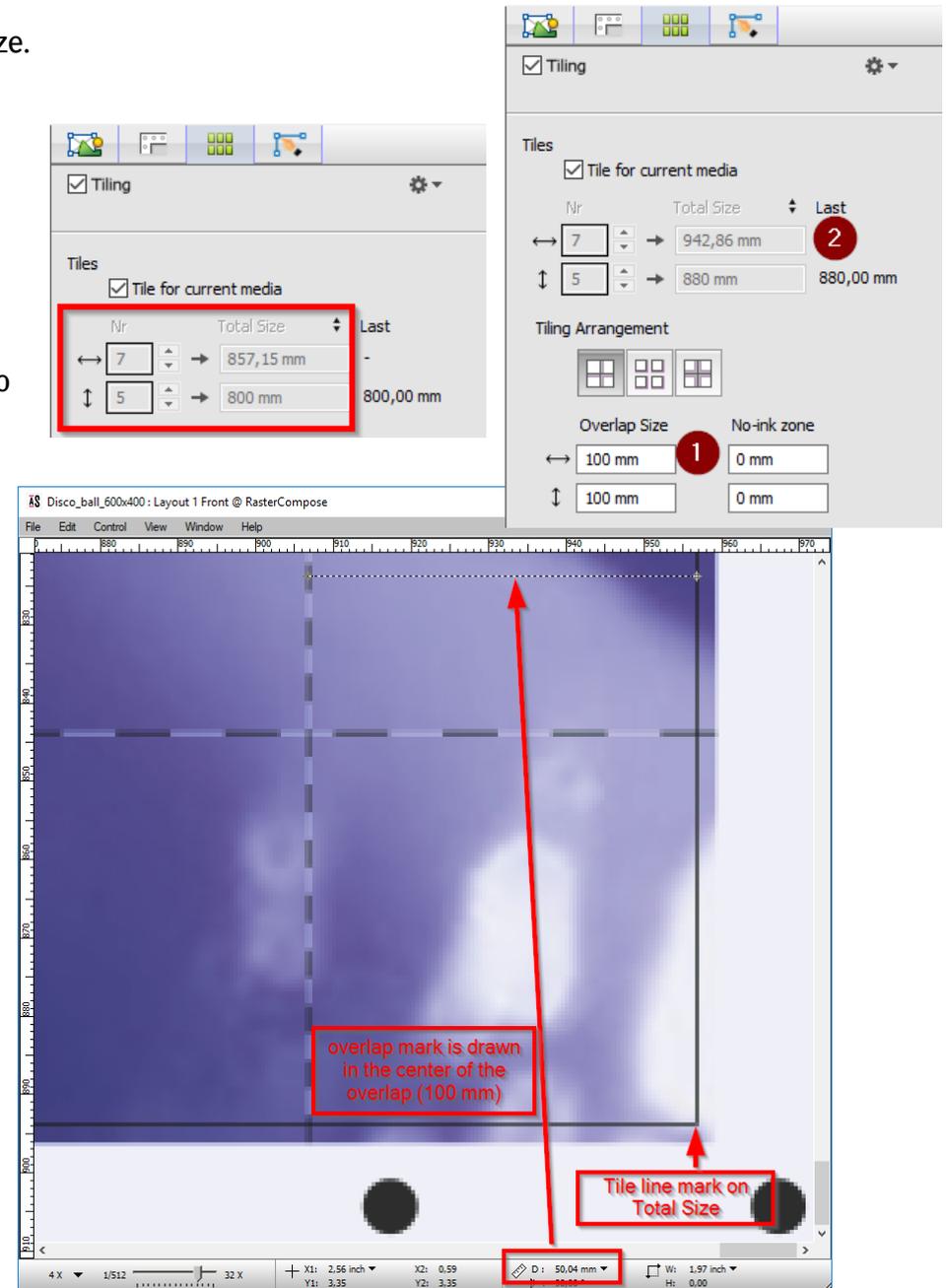
In some circumstances we position the 'Tile name' mark inside the image, e.g. when there is no overlap and the option "Omit where no overlap" is disabled, the 'Tile name' mark will be rendered in the image.



3. Overlapping tiles based on the media size

We will create a poster where the tile size will be depended on the media size.

1. File > new from Templates...
2. Open template "Tutorial".
3. Import "Disco_ball_600x400.pdf".
4. Open the file in the Image Editor.
5. Set the "Product Size" to 1000%.
6. Select the Tiling inspector and enable 'Tiling'.
7. Enable "Tile for current media".
You will see that 'Total Size' is selected and that it is not possible to edit the number of tiles. All tiles will have an equal size.
8. Set the overlap size to 100 mm (horizontal & vertical) (1).
You will see that the size of the tiles is re-calculated (2).
9. Enable "Print tile marks" and click the pencil.
10. For the 'Overlap mark', select "Centered in overlap/extension" and set the length to "Print across entire size".
11. Enable "On Total Size" for the 'Print tile line marks'.
12. Click "OK".
13. Click the "Apply" button.
The Image Editor is closed and the tiles are shown as individual images in the Layout Editor.
14. Drag the first tile to the sheet.
15. Submit Job > change the job name > "Make and hold" for Print Files and "Hold" for Cut Files.
16. When the first tile is rendered, open it in the raster preview.
17. Zoom in to the lower right corner. You will see that the Tile line mark is drawn on the Total Size and that there is some bleed.
18. The overlap mark is drawn in the center of the overlap. We specified 100 mm overlap, and the line is drawn at 50 mm.



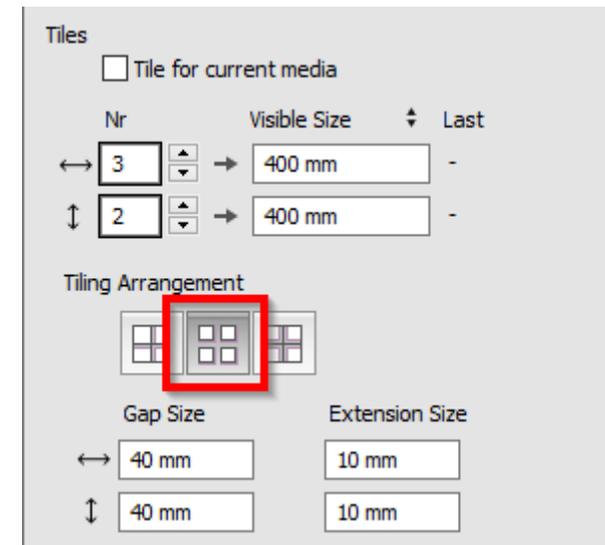
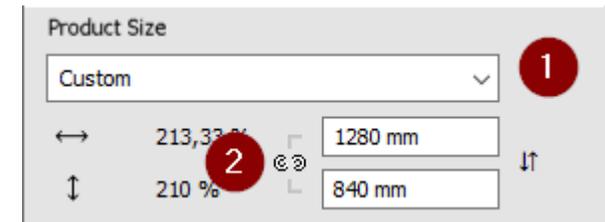
4. Non-overlapping tiles

There are 2 different tiling arrangements for non-overlapping tiles:

1. Non-overlapping tiles with gaps between all tiles (e.g. self-adhesive tiles for window panes), with extra material to accommodate for size variations.
2. Non-overlapping tiles with optionally extra material for welding or framing at each side (e.g. painting canvas on frames).

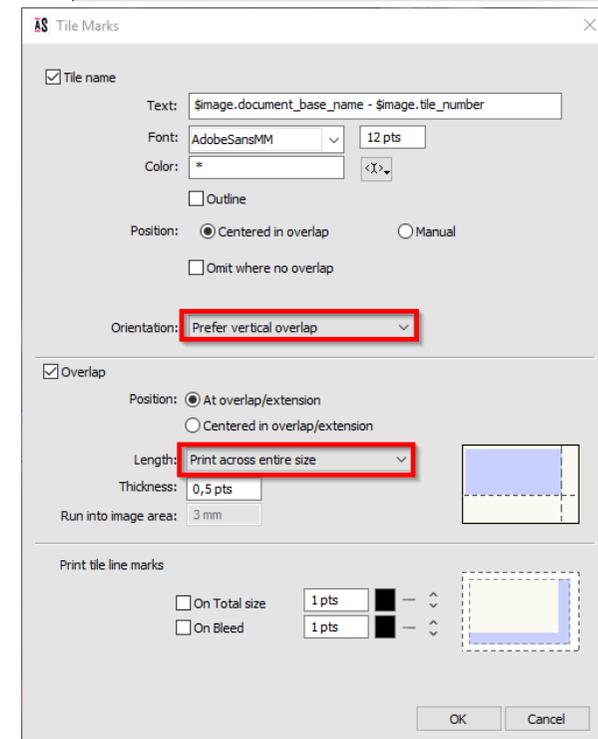
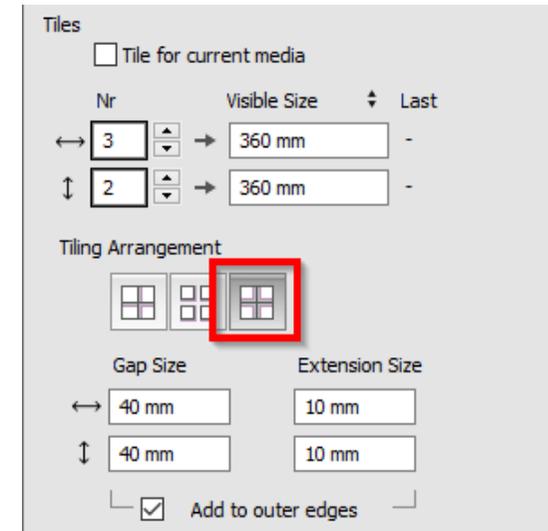
Non-overlapping tiles with gaps between all tiles, with extra material to accommodate for size variations

1. Create a new layout job and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the "Product Size" to "Custom" (1), click the lock (2) and enter the values 1280 x 840 mm.
4. Select the Tiling inspector and enable 'Tiling'.
5. Set the number of tiles to 3 x 2.
6. Select the "Non-overlapping tiles with gaps..." arrangement.
7. Set the gap size to 40 mm (horizontal & vertical).
8. Set the extensions size to 10 mm (horizontal & vertical).
The extensions are only added inside the gaps and to the sides opposite of the anchor point.
9. Enable "Print tile marks" and click the "Apply" button.
10. Set the media to 440 x 440 mm.
11. Select the "Zünd" cutter and the "iCut Corner Marks, between 10" finishing margins.
12. Drag the first and the last tile to the sheet.
13. Submit Job > change the job name > "Make and hold" for Print Files and "Hold" for Cut Files.
14. When the first tile is rendered, open it in the raster preview. Check that the overlap marks are visible in the lower right corner (10 mm extension).
15. Open the last tile and check that there are no overlap marks because this tile does not have extensions because it is on the outer edge of the image.



Non-overlapping tiles with optionally extra material for welding or framing at each side

1. Create a new layout job and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the "Product Size" to 200%.
4. Select the Tiling inspector and enable 'Tiling'.
5. Set the number of tiles to 3 x 2.
6. Select the "Non-overlapping tiles with optionally extra material..." arrangement.
7. Set the gap size to 40 mm (horizontal & vertical).
8. Set the extensions size to 10 mm (horizontal & vertical) and make sure "Add to outer edges" is selected which makes it possible to add overlaps/extensions on all sides of the tile.
9. Enable "Print tile marks" and click on the pencil.
10. For the 'Tile name' mark, set the orientation to "Prefer vertical overlap".
For the 'Overlap' mark, set the length to "Print across entire size".
11. Click "OK".
12. Click "Apply".
13. Set the media to 410 x 410 mm.
14. Select the "Zünd" cutter and the "iCut Corner Marks, between 10" finishing margins.
15. Drag the first tile to the sheet.
16. Submit Job > change the job name > "Make and hold" for Print Files and "Hold" for Cut Files.
17. When the tile is rendered, open it in the raster preview.
You will see the overlap marks on all sides of the tile.
18. Zoom in to the right side of the tile.
You will see that the 'Tile name' mark is printed in the vertical overlap.

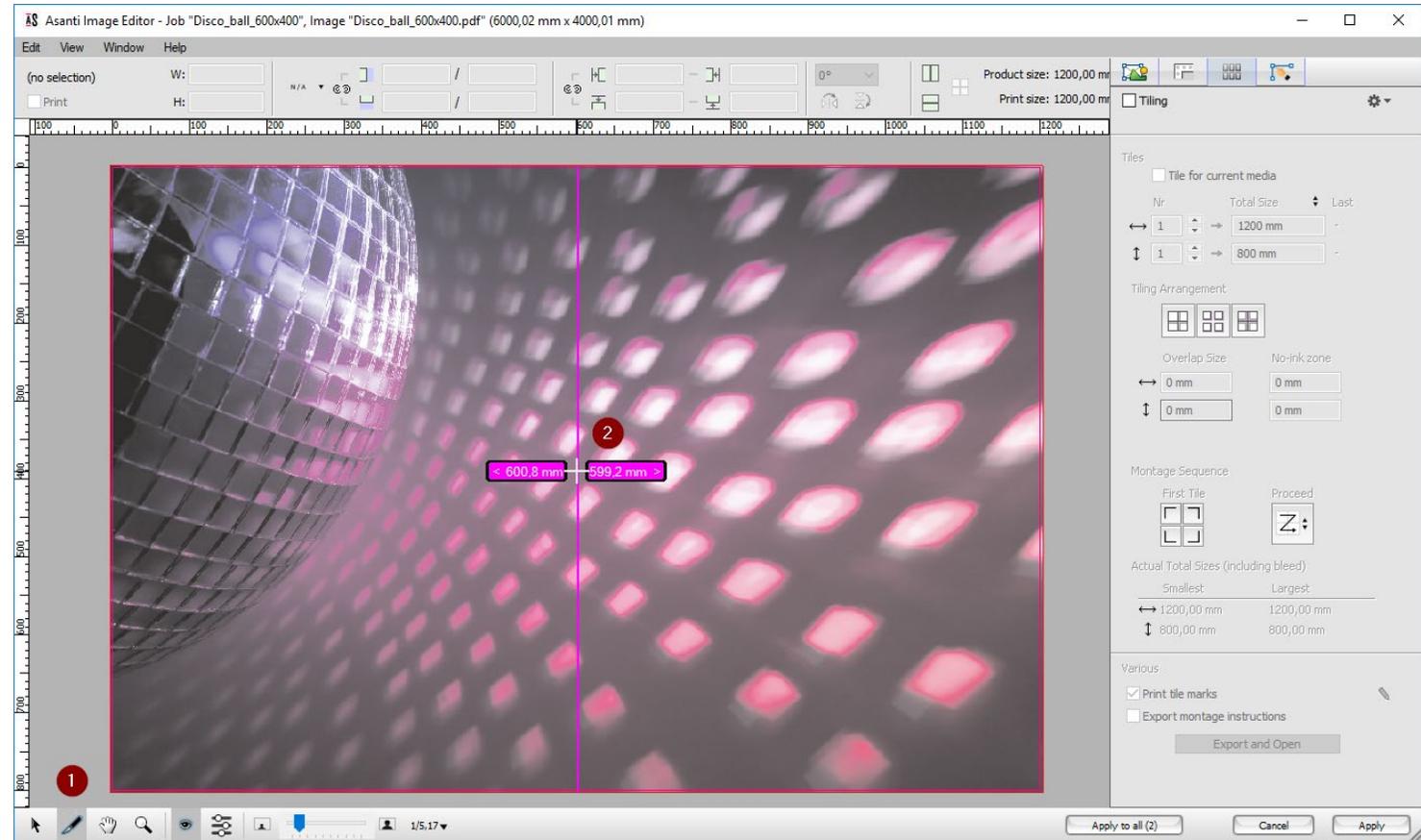


5. Interactive tiling

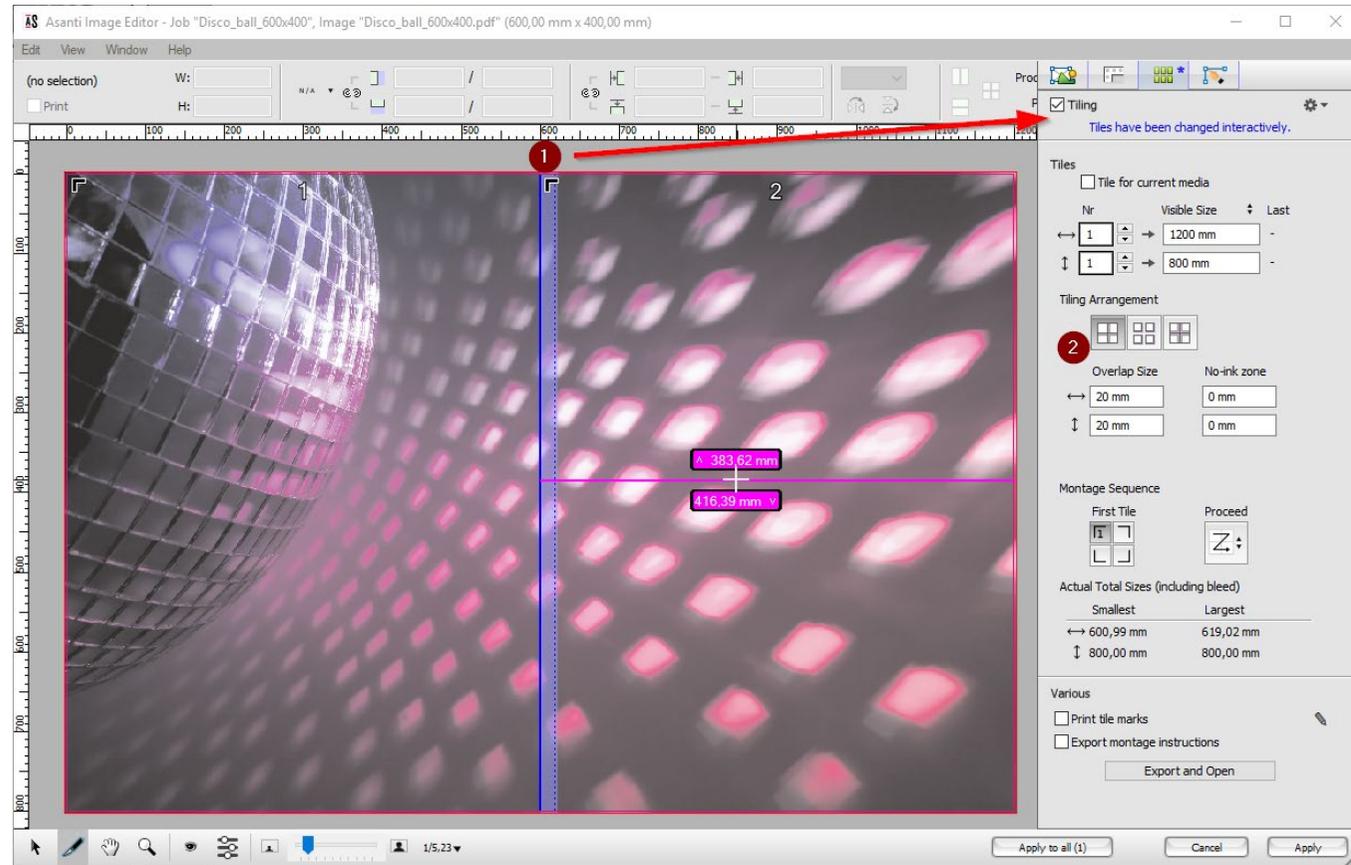
Automatic tiling uses the settings from the Tiling inspector where most of the tiles have the same size. However, you can use interactive tools to create a tiling arrangement or to modify the rows or columns of an existing arrangement.

Custom tiling arrangement

1. Create a new layout job and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the "Product Size" to 200%.
4. Select the Tiling inspector.
5. Select the Split tool (in the toolbar or by pressing the K key) (1).
6. Hoover the mouse over the image, the Split cursor appears with a magenta line parallel to the shortest side of the image, and showing the width of the tiles that will be created (2).
 - You can change the split orientation by pressing and releasing the space bar or the TAB key.



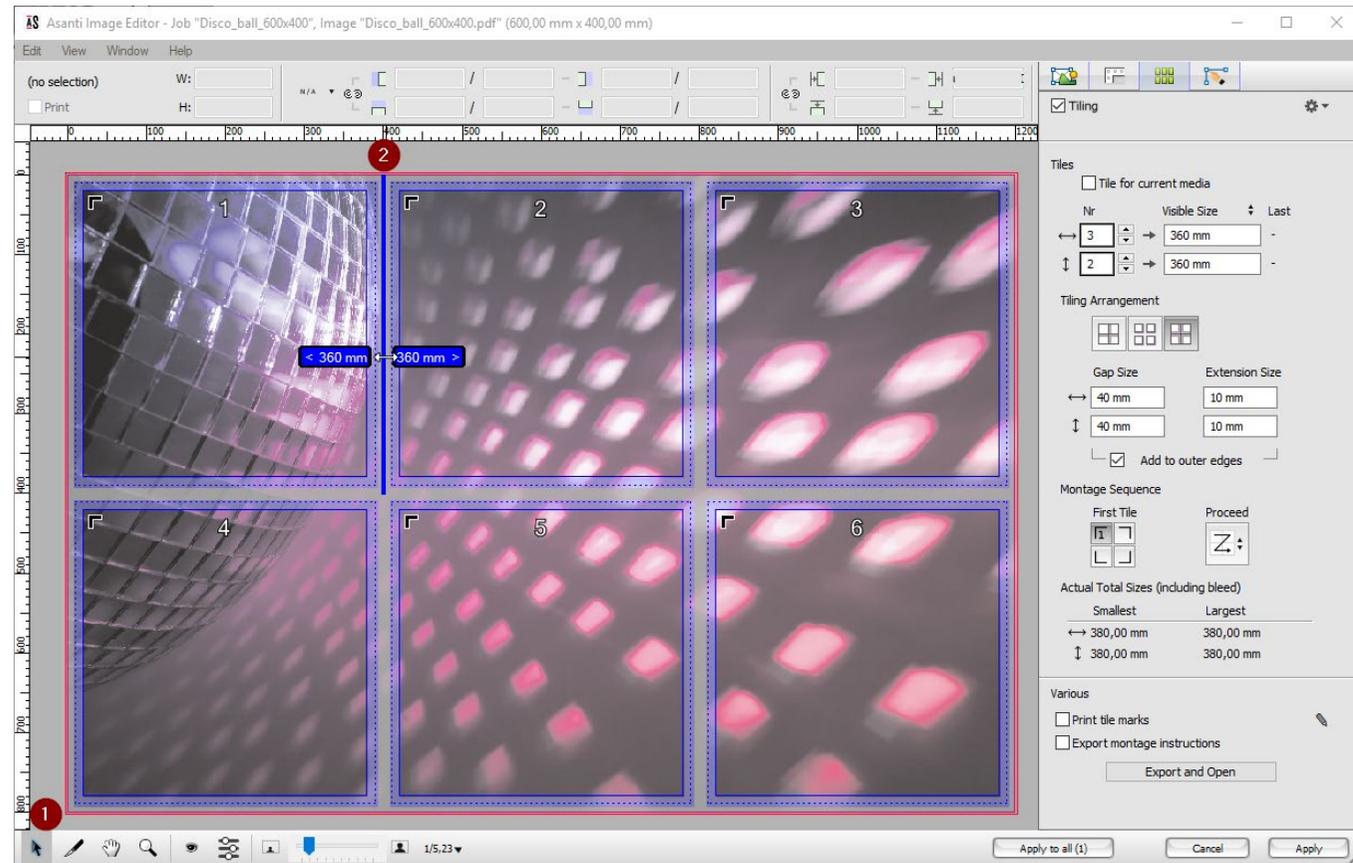
7. With a mouse click, 'Tiling' is enabled and the tiles are created. (1)
8. Now you can also choose a tiling arrangement, and change the corresponding settings (2).
9. When you have changed e.g the overlap size, new created custom tiles will also use these settings.
 - When you press the SHIFT key, you can extend the splitting across all the tiles.
 - To stop tiling, you can press the A key, to select the Selection Tool.
 - When interactive tiling is used, the blue text "Tiles have been changed interactively" is displayed.



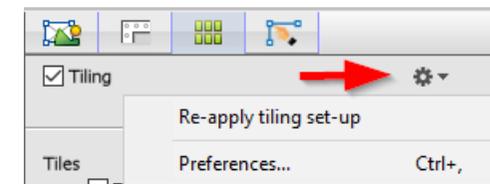
Modify an automatic tiling arrangement

1. Select the Selection Tool in the toolbar and disable 'Tiling'.
2. Enable 'Tiling' again.
The previous interactive changes are removed.
3. Set the number of tiles to 3 x 2.
4. Select the "Non-overlapping tiles with optionally extra material..." arrangement.

5. Set the gap size to 40 mm (horizontal & vertical).
6. Set the extensions size to 10 mm (horizontal & vertical) and make sure "Add to outer edges" is selected.
7. Disable 'Tiling'.
8. Enable 'Tiling' again.
The previous settings are re-applied since they are kept as long as you do not close the Image Editor.
9. With the Selection tool (1) selected, you can drag the seam of a tile (2) to change the size of the tile.
10. Drag the seam from tile 1 over the seam tile 2, the tiles will be merged together.
 - You can also merge 2 or more tiles, by selecting the tiles and clicking "Merge tiles" in the position toolbar  or by pressing CTRL-G.



11. When you have changed some settings interactively, you can always undo them. Click the cogwheel and select "Re-apply tiling setup".



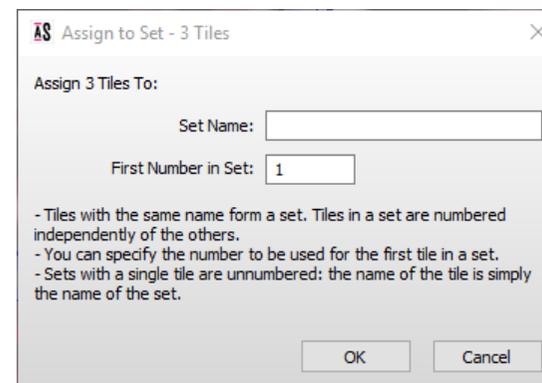
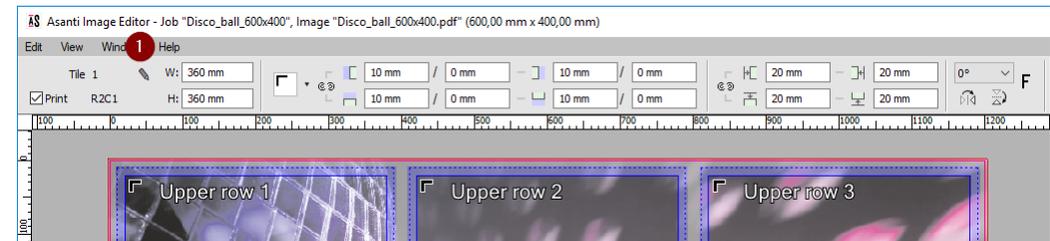
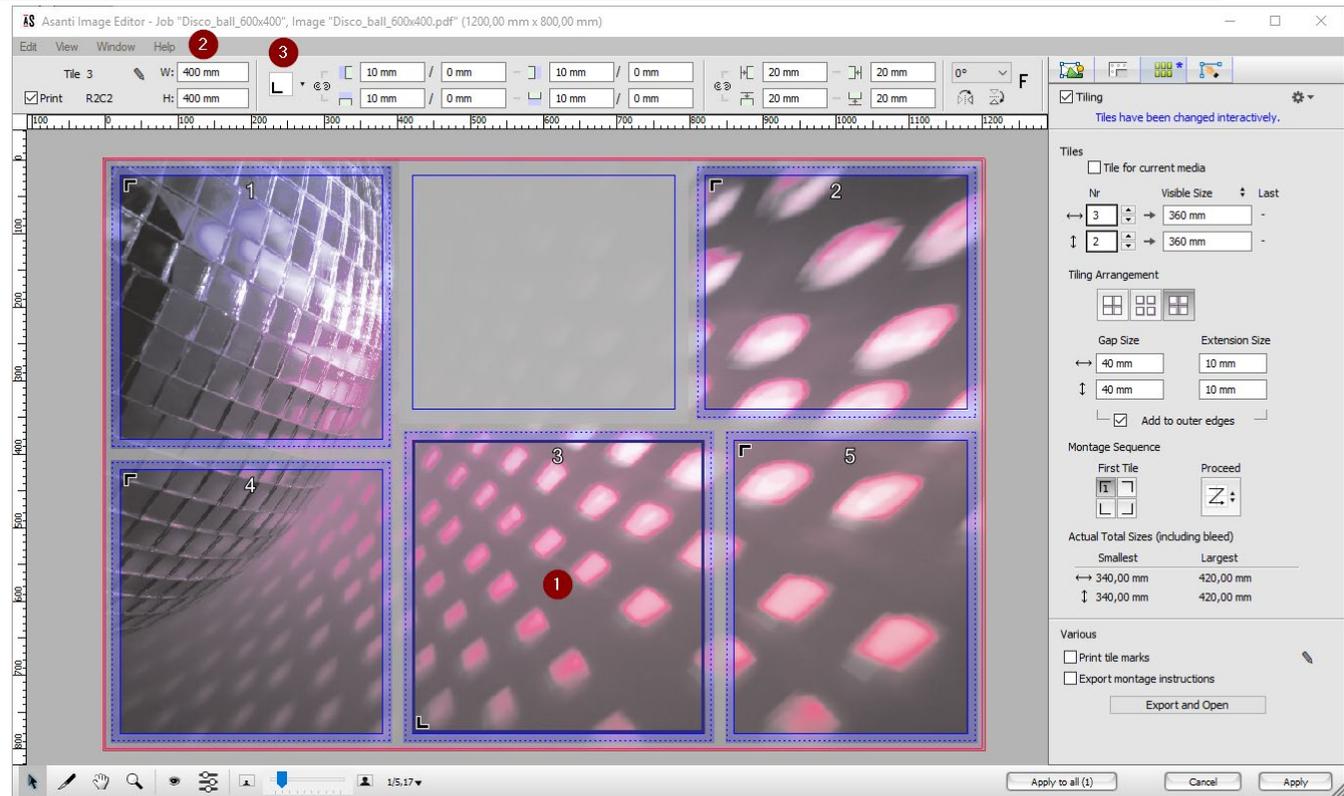
12. When a tile doesn't have to be printed, you can disable the tile. Select tile 2 and uncheck the "Print" check box. You will see that the tile will be grayed out. The tile numbering and the total number of tiles is modified accordingly.
- You can also achieve this by pressing the Delete key.

13. Select tile 4 (1) and change the width and height to 400 mm (2). You will see that the size of tiles 2 and 5 is changed as well.

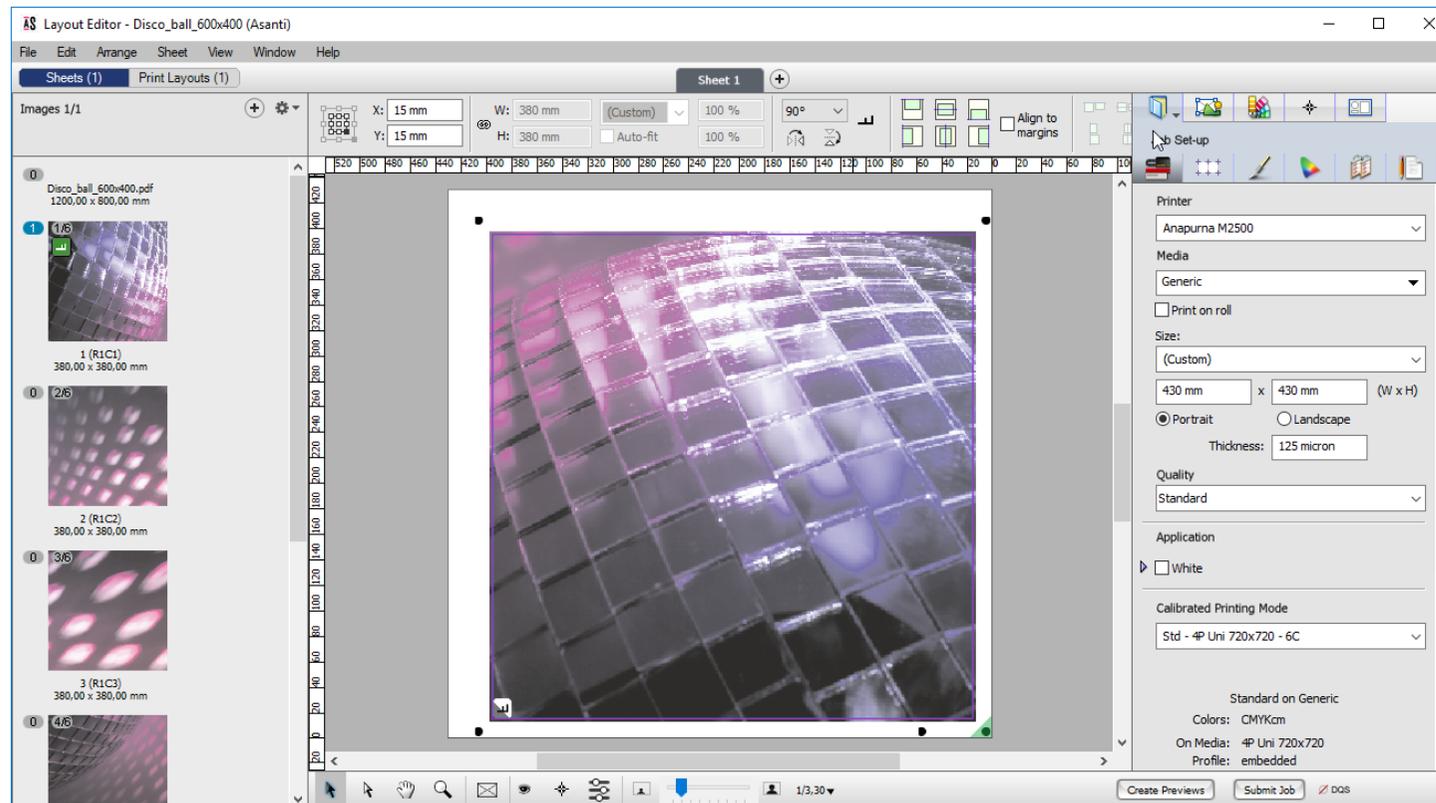
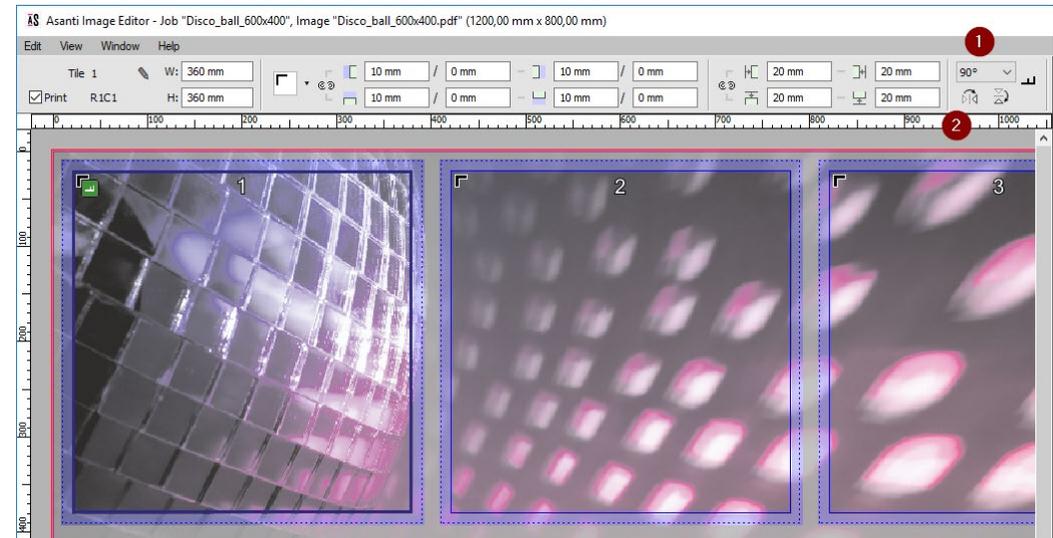
14. For self-adhesive tiles, it might be easier to start sticking at the left side for the first tile and at the right side for the last tile. Therefore you need to select the right anchor point. Click on the anchor point drop down (3) and select another corner. Note that this is only possible when tiles are not overlapping.

15. Select the cogwheel and click "Re-apply the tiling setup".

16. You can give a name to a specific tile or to a group of tiles. Select tiles 1, 2 & 3 and click on the pencil (1) in the position bar. You can now enter a "Set Name" the first number in the set. Enter 'Upper row' and click OK. The tiles are renamed and renumbered.



17. Select the cogwheel and click “Re-apply the tiling setup”.
18. You can change the rotation or mirroring of a tile. Rotation and mirroring only affects the positioning of the tile on the sheet.
19. Select tile 1 and change the orientation to 90 degrees (1), and click the “Print tile mirrored horizontally” icon (2).
20. You will see that a ‘F’ is drawn on the tile.
21. Click “Apply”.
22. Set the media to 430 x 430 mm. Select the “Zünd” cutter and the “iCut Corner Marks, between 10” finishing margins.
23. Drag the first tile to the sheet.
24. Check that the tile is placed with the applied orientation.
25. Submit Job > change the job name > “Hold” for Print Files and “Hold” for Cut Files.

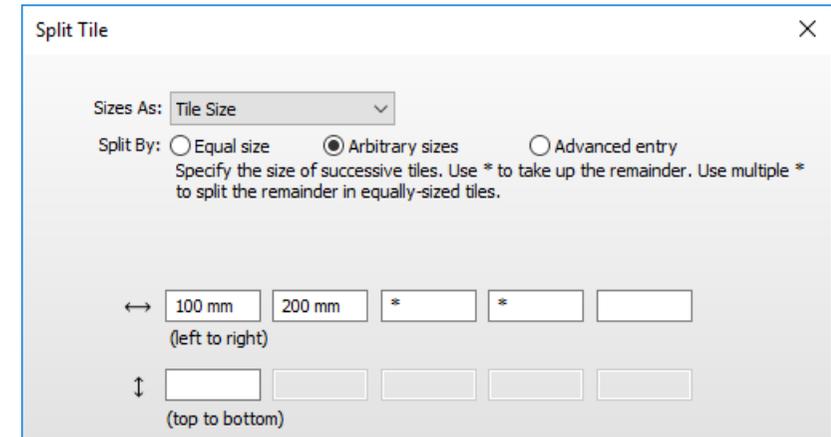


6. Split Tile dialog

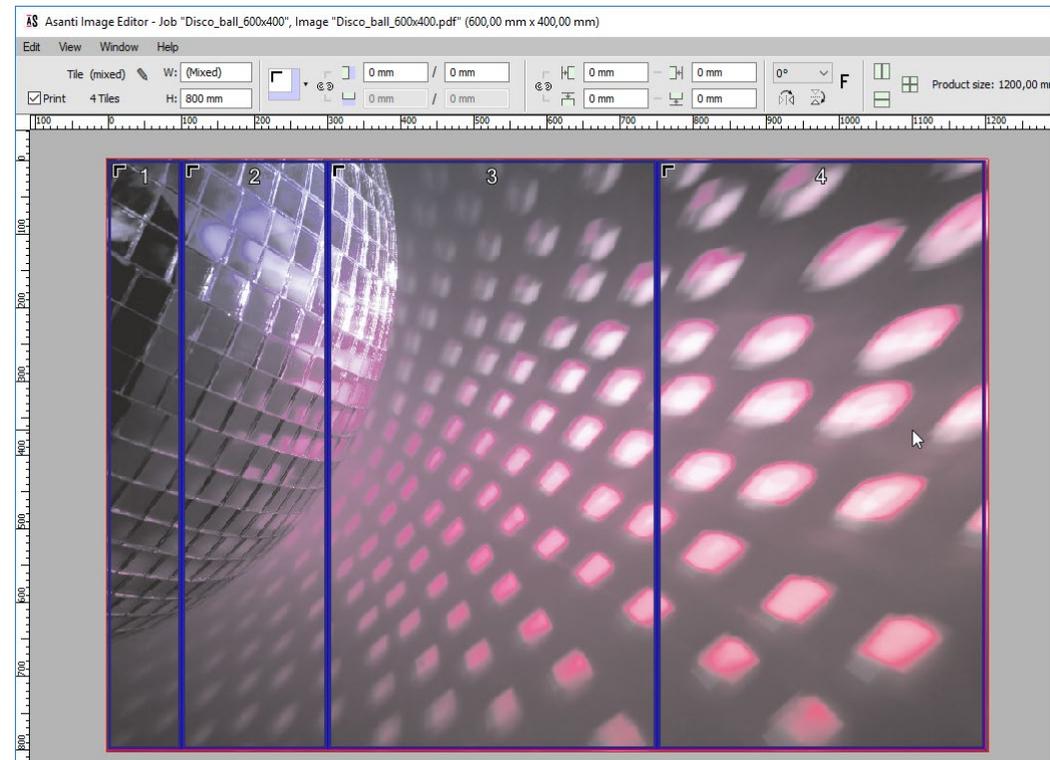
Tiles can be split interactively as described above. Another way to split the image or a tile in tiles, is splitting by numbers via the “Split Tile” dialog.

1. Create a new layout job and add the “Disco_ball_600x400.pdf” file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the “Product Size” to 200%.
4. Select the Tiling inspector and enable ‘Tiling’. Select the “Non overlapping tiles...” arrangement and set the gap size to 40 mm (horizontal & vertical).
5. Right click on the image and select “Split Tiles” (CTRL + U) to open the “Split Tile” dialog.
6. In the “Sizes As” drop-down you choose between ‘Visible Size (Tile Size)’ or ‘Total Size (Print Size)’.

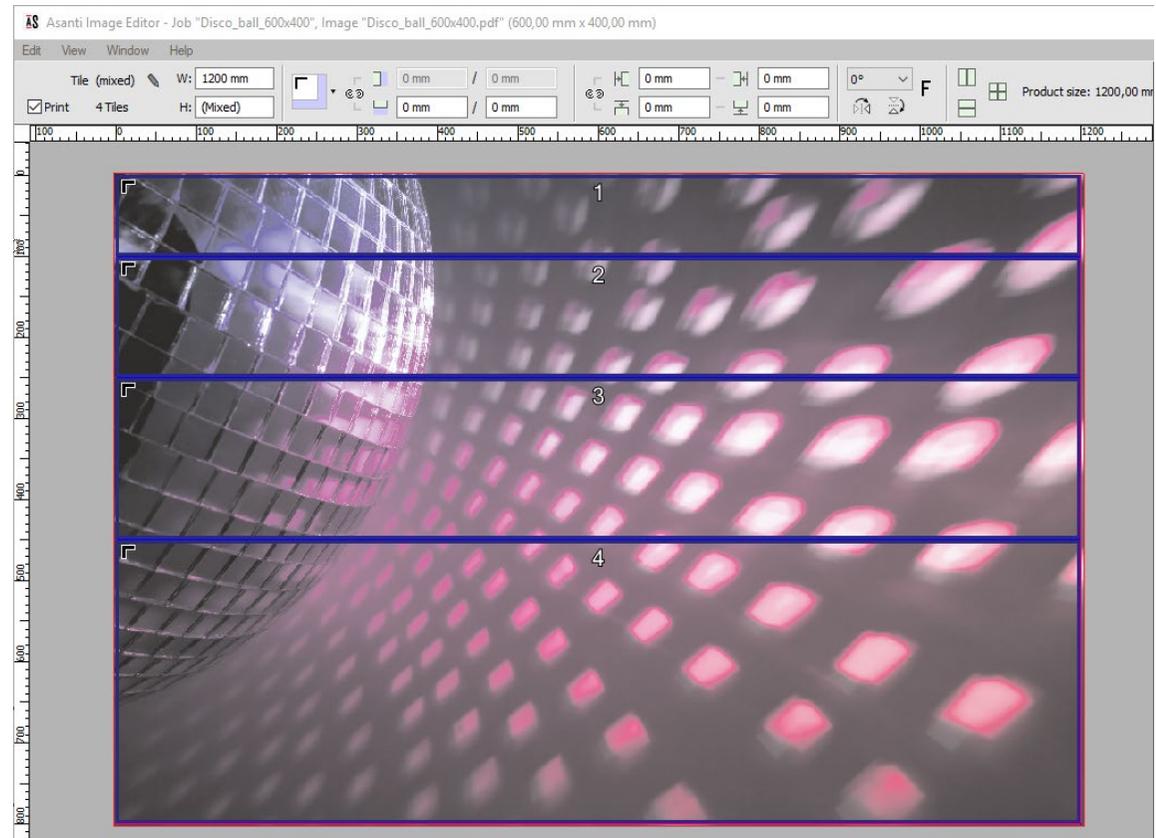
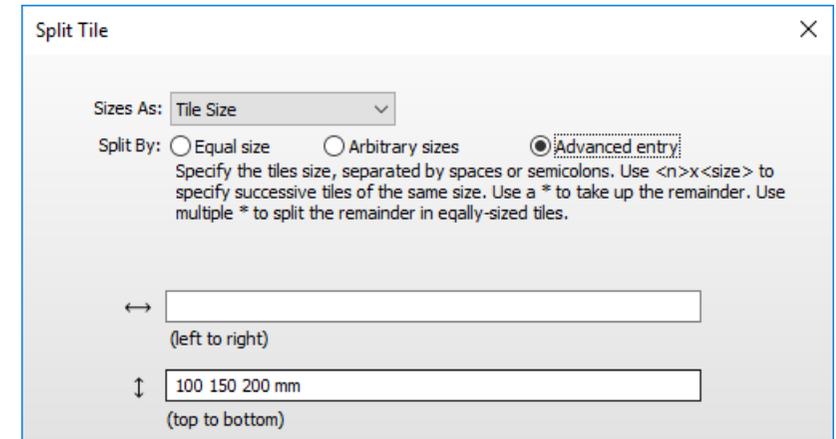
Then you can choose how the image or tile is split. By default, the “Equal size” option is selected. This option works the same as tiling via the Tiling inspector.



7. Select the second option “Arbitrary sizes”. This allows you to specify multiple horizontal and/or vertical sizes for the tile. The order of the fields defines the tile sizes from left to right (split horizontally) and from top to bottom (split vertically). You can enter values for up to 5 tiles or you can use an asterisk (*) if you want the system to split the remaining distance into equal tiles. If you enter a value of 100 mm in the first box and none in the second, you will get 1 tile of 100 mm and a tile with the remainder of the image.
8. Set the first field for horizontal splitting to 100 mm, the second to 200 mm and enter a * in the third and fourth field and click “Split”. The tile is split into 4 tiles, where the first is 100 mm, the second 200 mm and the rest is split into 2 equal parts.



9. Select the cogwheel and click “Re-apply the tiling setup”.
10. Open the “Split Tile” dialog again.
11. Select the third option “Advanced entry”.
This option enables the advanced entry mode for specifying arbitrary sizes. It provides a “Size list” where you can enter a list of tile sizes (one per direction).
12. In the “Size list” you can enter 1 or more tile sizes. These can be separated by a space or semicolon (;). You can set the size of multiple successive tiles by using the (n) ‘x’ (size) construct (e.g. 3x100 results in 3 tiles of 100 mm). You can also use the asterisk (*) to split the remainder as in the simple entry mode. You can combine the asterisk with the multiplier (3* = * * *). If there is no asterisk, a single tile at the end will take up the remainder. Enter 100 150 200 in the split vertical field, press TAB and click “Split”.
The tile is split into 4 tiles, where the first tile is 100 mm, the second 150 mm, the third 200 mm and the last one is the remainder.
13. Click “Apply”.
14. Submit Job > change the job name > “Hold”.



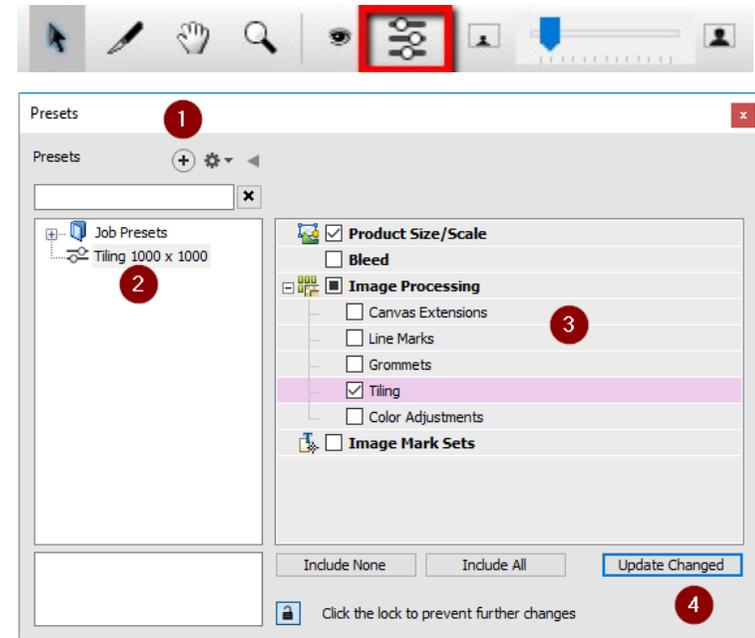
7. Presets

The Asanti Production license is required to work with Presets!

Presets let you apply the settings you defined for a particular image to other images of the same job or to other jobs.

Create a Preset

1. Edit the job you created in [chapter 2](#).
2. Open the image in the Image Editor.
3. Click the “Show/Hide Presets” button (CTRL + Shift + P) to open the Presets dialog.
4. Click the + button to add a new Preset (1).
5. Enter a name (2).
6. At the right-hand side, check the ‘Product Size/Scale’ and the ‘Tiling’ checkbox (3) and press the “Update Changed” button (4).
7. Close the Presets dialog.
8. Click “Apply” in the Image Editor.



Apply a Preset

9. Collapse the tiles in the Image panel and add the “Asanti Visual 390x250.pdf” file.
10. Select the file in the Images panel and open the Presets dialog (this can be done in the Image Editor as well).
11. Select the created Preset.
12. Double-click to apply the preset, or you can right-click on the preset and select “Apply Preset to...” or you can click on the cogwheel and select “Apply Preset to...”.
13. The settings from the Preset are now applied to the new image.
14. Close the Presets dialog.
15. Open “Asanti Visual 390x250.pdf” in the Image Editor and check that the image is scaled 1000% and tiles of 1000 x 1000 mm are generated.

8. Tiling Preferences

16. Click the cogwheel and open “Preferences...”.
17. The preferences contain the settings for the Montage Instructions, a PDF file with the montage instructions for the tiling arrangement. The PDF will be exported if you check ‘Export montage instructions’ when the tiles are generated, or when you click the ‘Export and Open’ button.
18. Keep the default settings and click “OK”.
19. Click “Apply” in the Image Editor.
20. Submit Job > change the job name > “Hold” for Print Files and “Hold” for Cut Files.

