

Tiling

This tutorial demonstrates how to use tiling within Asanti.

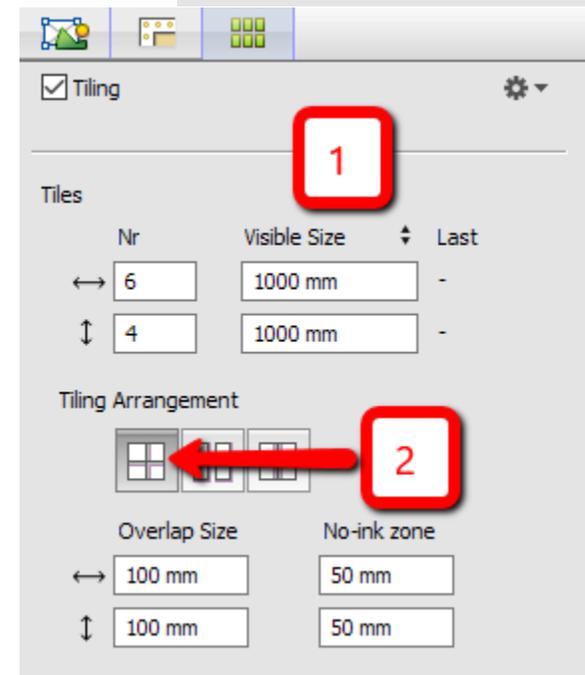
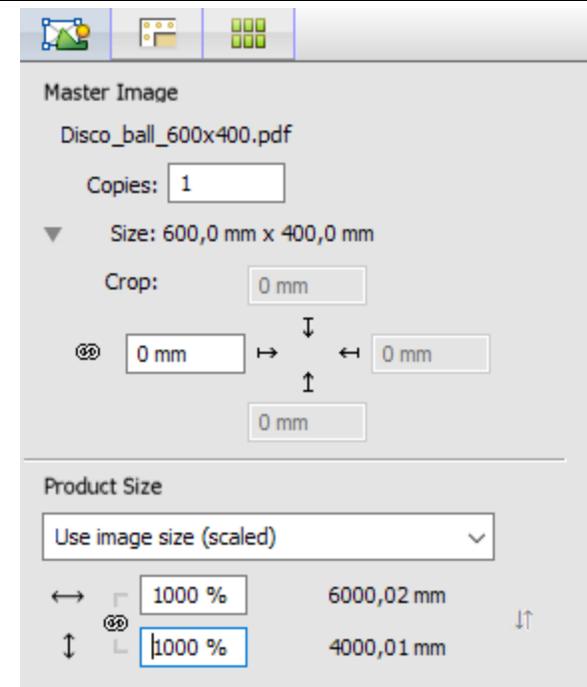
Download the Asanti Sample Files via the Asanti Client (Help > Asanti Online > Download Sample Files).

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 and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. The Image inspector is selected, showing the settings for the image and the final product size.
4. Change the "Product Size" to 1000%.

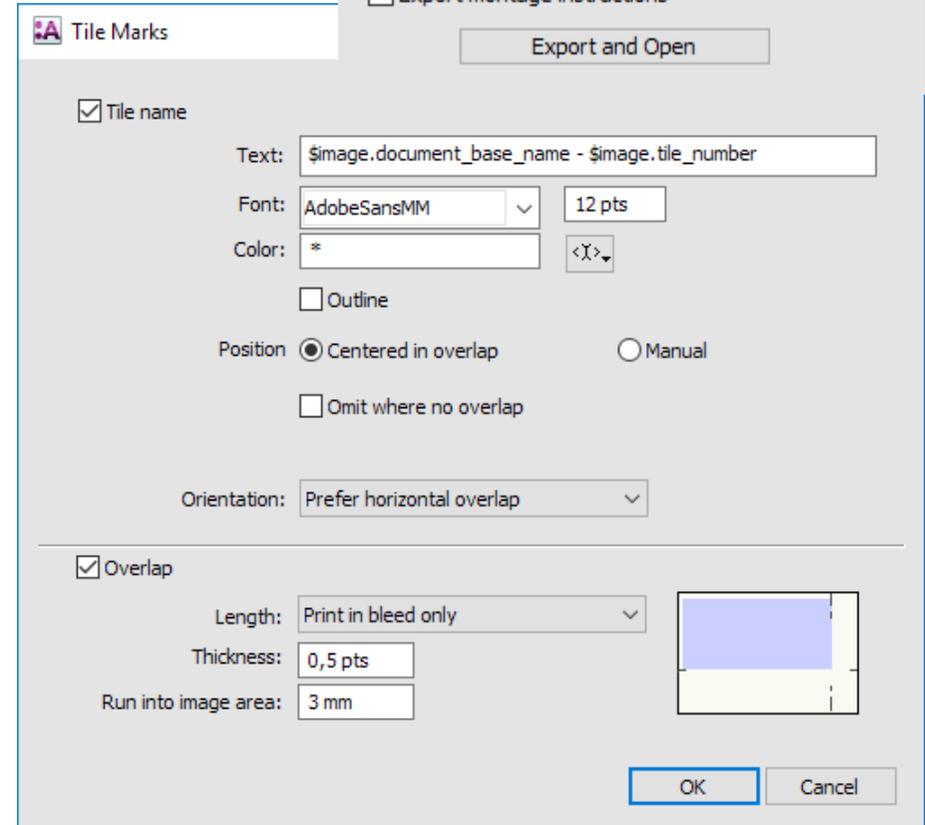
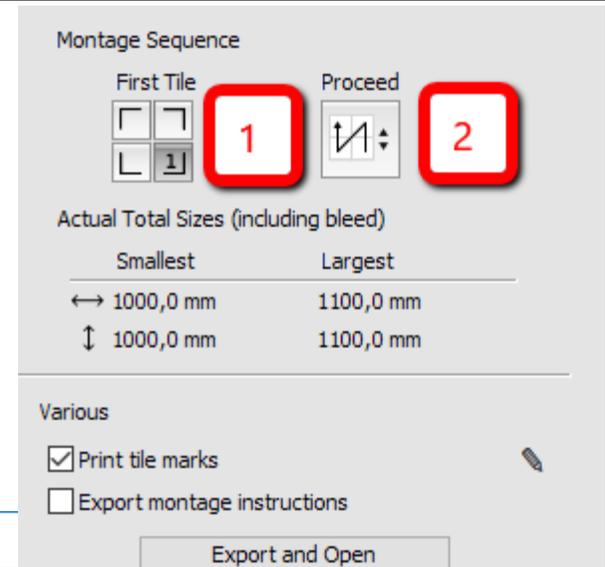
5. Select the Tiling inspector.
6. Enable Tiling and set the number of tiles to 6 x 4.
7. Choose "Visible Size" from the drop-down list (1).
The 'visible size' is the part of the tile that is visible after the tiles have been assembled. The 'total size' is the sum of the visible size and the overlaps or extensions.
8. Choose the "Overlapping tiles" arrangement (2).
9. Set the overlap size to 100 mm (horizontal & vertical).
10. Set the no-ink zone to 50 mm (horizontal & vertical).
The image will be updated.



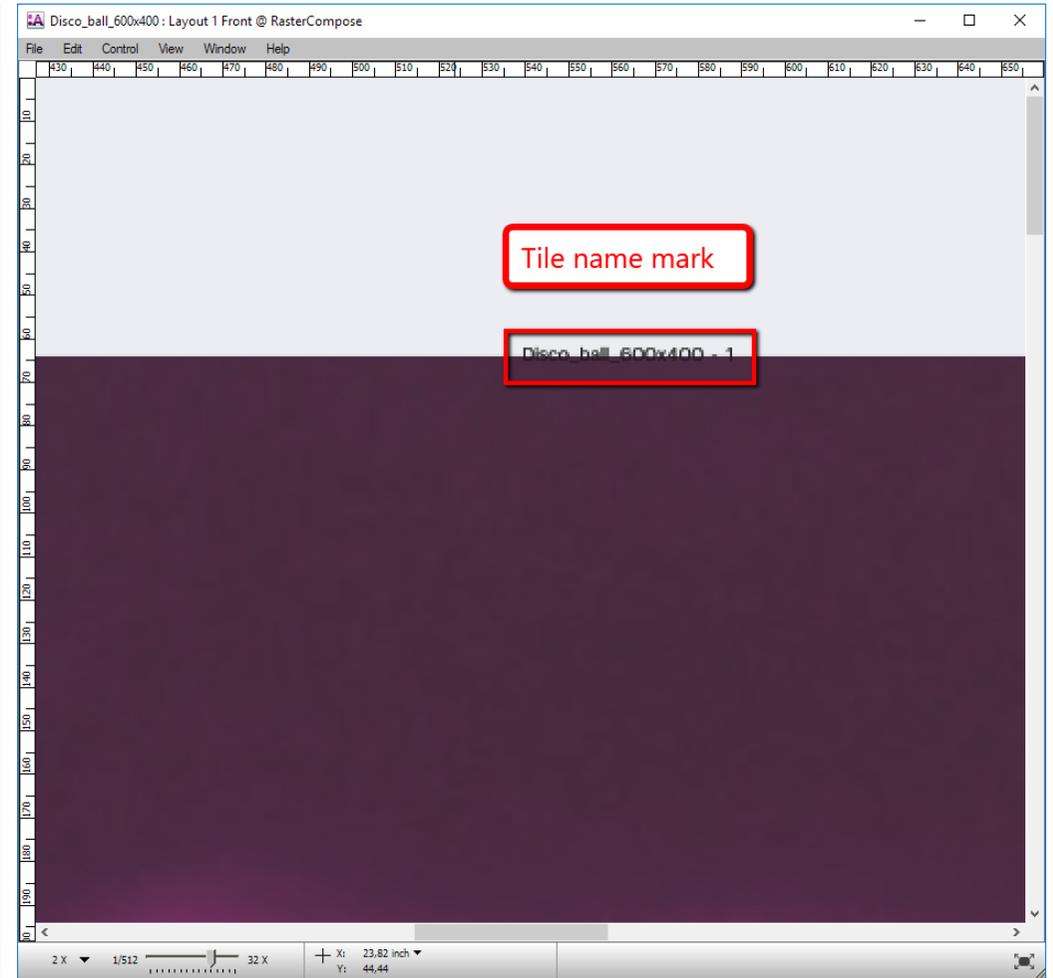
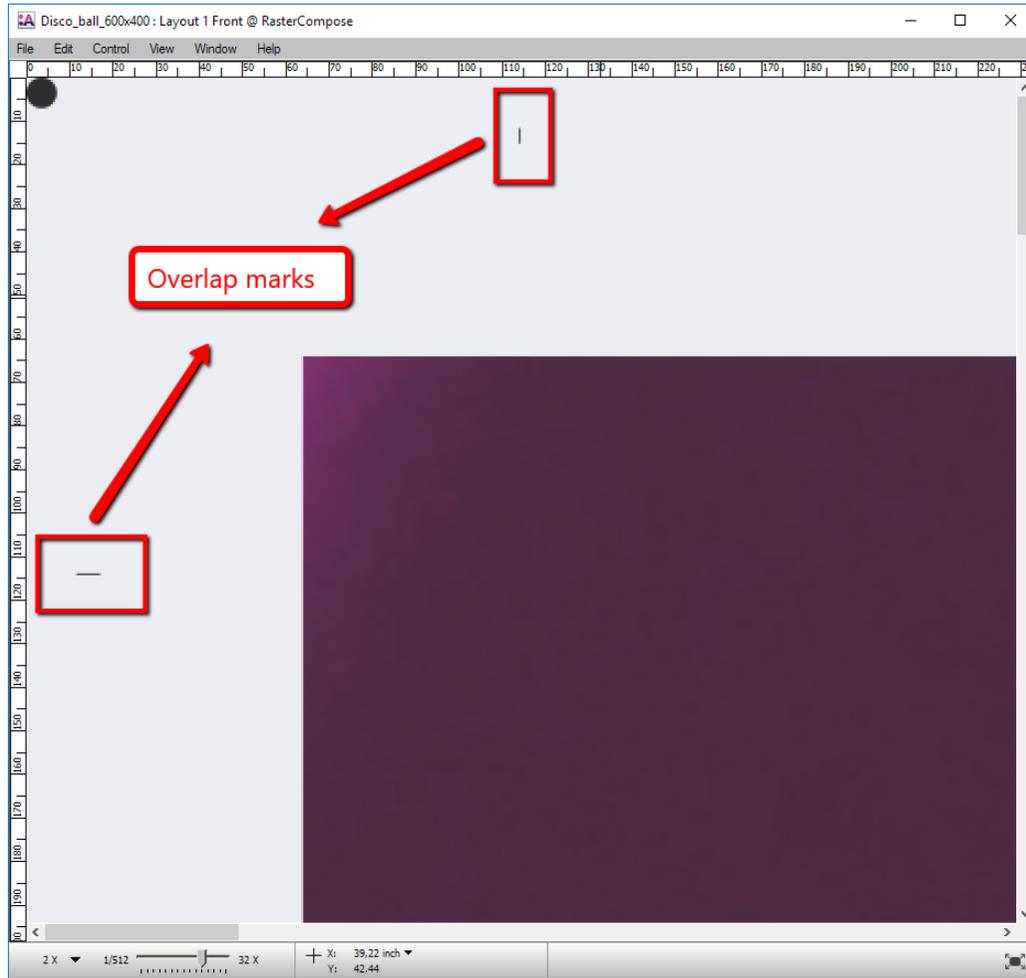
11. Click on the lower right tile in the “First Tile” option (1) and click the “Proceed” order drop-down and select the second option (2). You will see that the anchor point (and overlaps) of the tile and the tile numbering is changed on the image.
12. The “Actual Total Sizes” show the smallest and largest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

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

13. Enable “Print tile marks”.
14. Click on the pencil next to ‘Print tile marks’ to open the Tile Marks dialog. Here you can specify which marks (tile name – overlap mark) will be printed on the tiles. You can also specify where and how the mark should be printed.
15. Click OK to close the dialog.
16. Click the “Export and Open” button.
The Montage instructions PDF is opened, and on page 1 you will get a summary of the job and tiles, and page 2 shows the montage scheme.
17. Close the PDF.
18. Click the “Apply” button.
The Image editor is closed and the tiles are shown as individual images in the Layout editor.
19. Set the media to 1130 x 1130 mm. Select the “Zünd” cutter and the “iCut Corner Marks, between 10” finishing margins.
20. Select the first tile and drag it to the sheet.
21. Click “Submit Job”, select “Make and hold” for Print Files and “Hold” for Cut Files and click “Submit”.



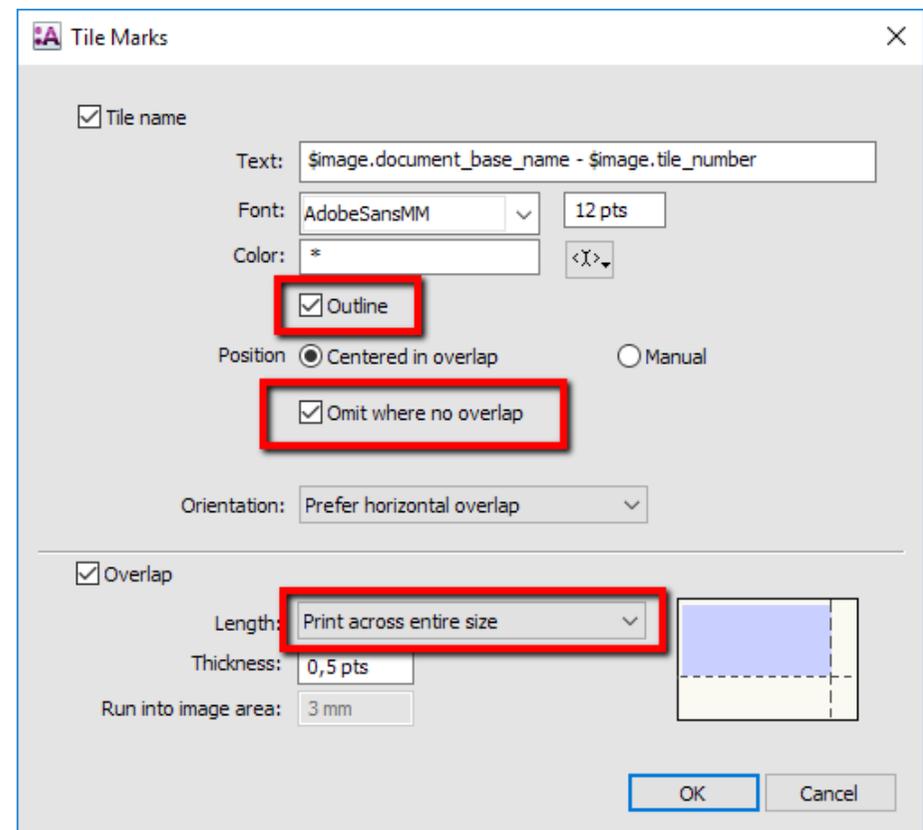
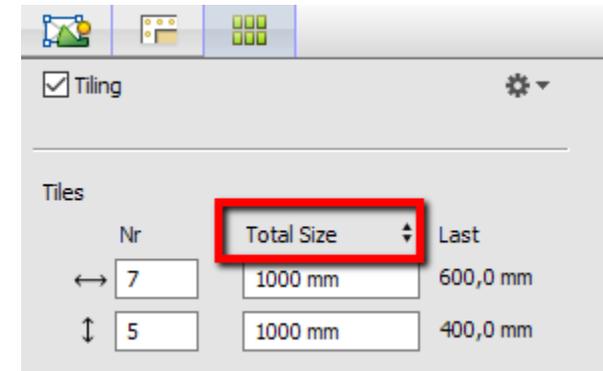
- 22. When the tile is rendered, open it in the raster preview.
- 23. Zoom in to the upper left corner and check that you see the overlap marks.
- 24. Move the preview horizontally to the middle of the window and check that you see the tile name mark.



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.

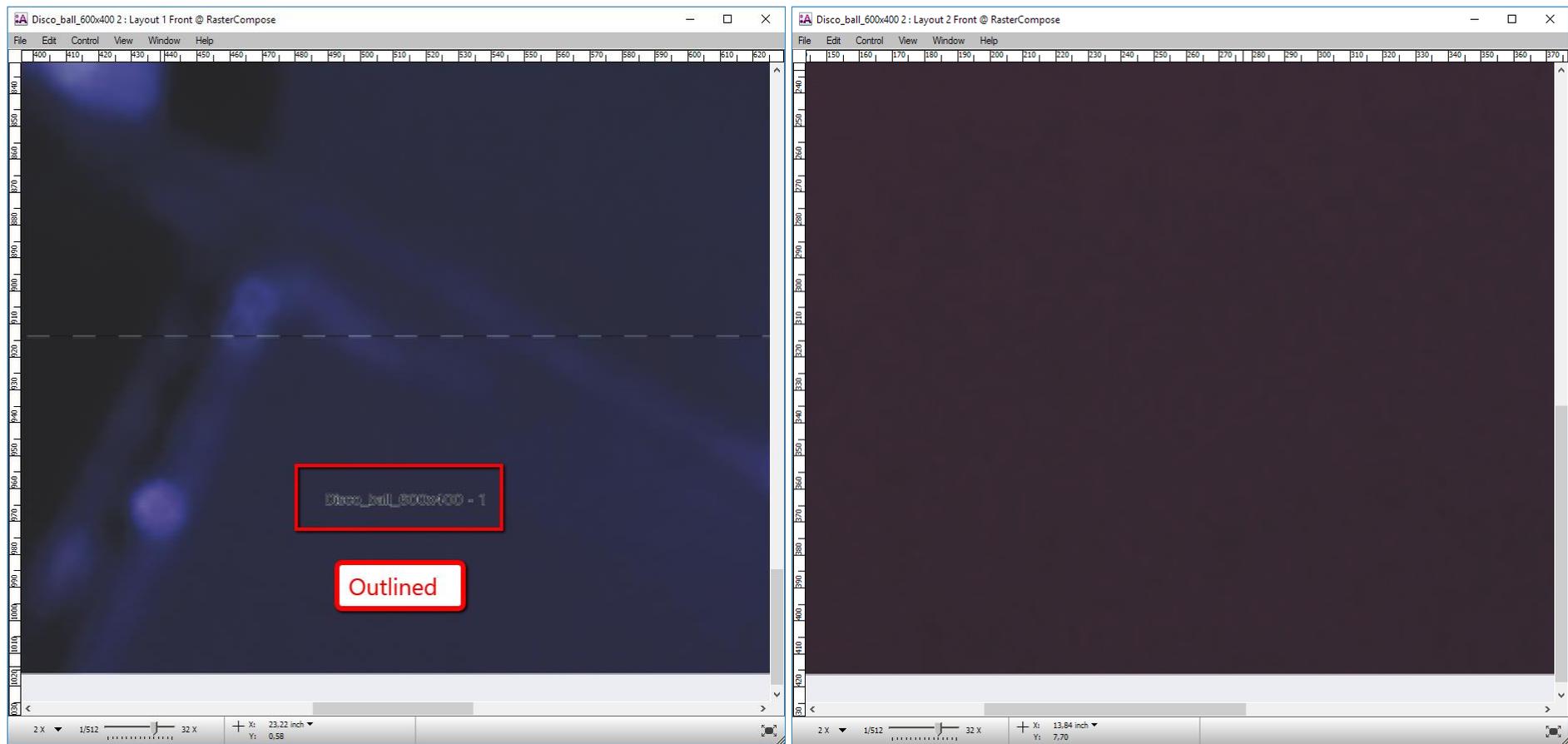
1. Create a new layout job and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the "Product Size" to 1000%.
4. Select the Tiling inspector and enable tiling.
5. Change the size to "Total Size" and set it to 1000 x 1000 mm.
6. Set the 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.
7. Enable "Print tile marks" and click the pencil.
8. Enable the "Outline" and the "Omit where no overlap" option and set the length of the overlap mark to "Print across entire size".
9. Click "OK".
10. Click the "Apply" button.
The Image editor is closed and the tiles are shown as individual images in the Layout editor.
11. Set the media to 1130 x 1130 mm.
12. Select the "Zünd" cutter and the "iCut Corner Marks, between 10" finishing margins.
13. Drag the first and the last tile to the sheet.
14. Click "Submit Job", select "Make and hold" for Print Files and "Hold" for Cut Files and click "Submit".



- 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 is no overlap mark drawn and there is no tile name mark.

Note 1: When there is no overlap and the option "Omit where no overlap" is not enabled, the tile name mark will be rendered in the image.

Note 2: The tile name marks are always placed in the same orientation, so if you selected for the orientation "Prefer horizontal overlap" and there is no horizontal overlap but there is vertical overlap, it will not be placed inside the vertical overlap, but it will be visible inside the image unless you selected "Omit where no overlap".



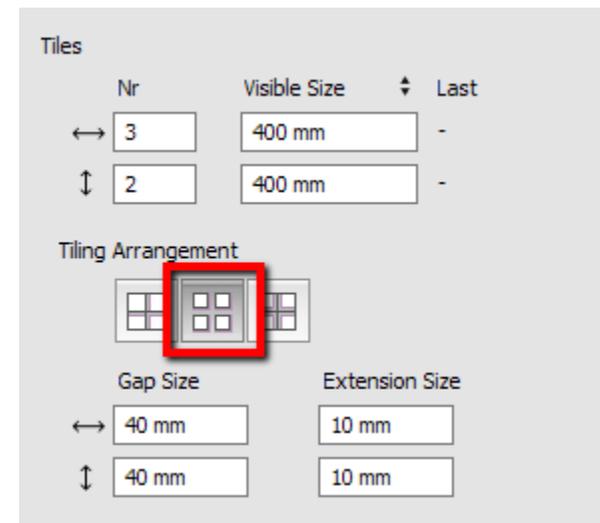
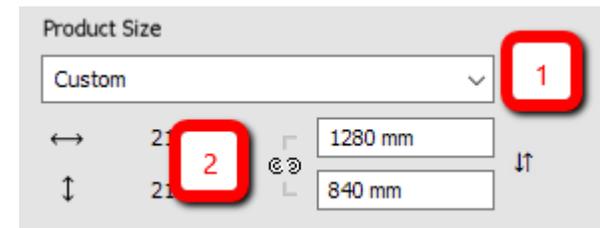
3. Non-overlapping tiles

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

1. Non-overlapping tiles with gaps between all tiles, with extra material to cater for size variations
 This arrangement will mostly be used if you need content gaps (e.g. self-adhesive tiles for window panes). Extensions can be added to create extra material with content to cater for size variations. These extensions are added to the sides opposite to the tile anchor, except along the outer edges of the image.
2. Non-overlapping tiles with optionally extra material for welding or framing at each side
 This arrangement is almost equal but here you can add extensions on all sides. This arrangement will mostly be used for tiles that must be welded or framed. The checkbox "Add to outer edges" must be enabled to add extensions to the tiles along the outer edges of the image.

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

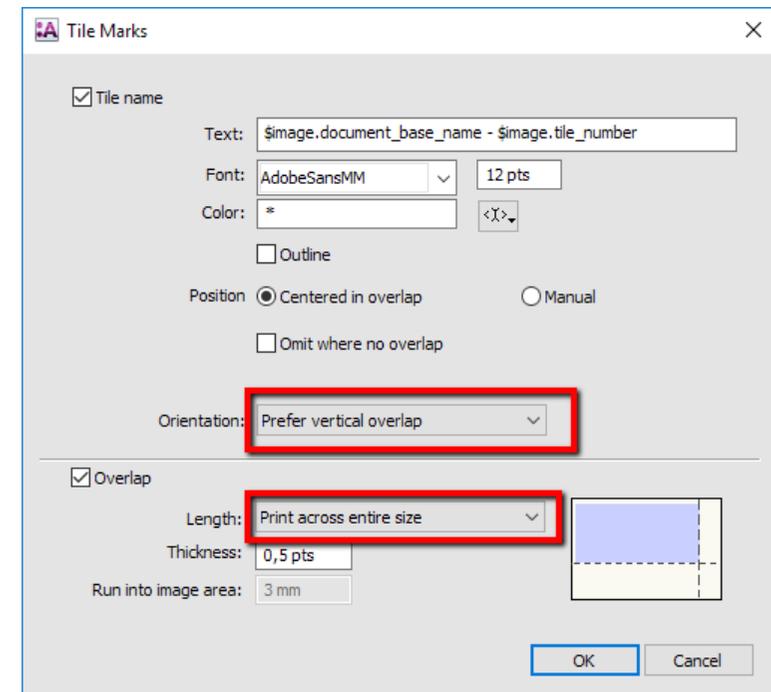
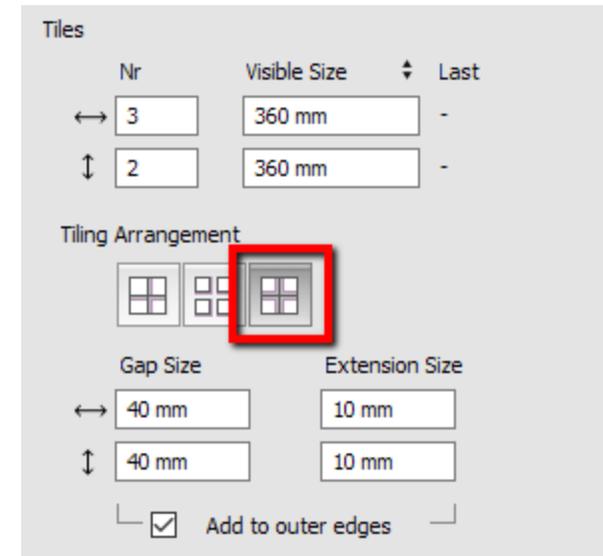
1. Create a new layout job and add the "Disco_ball_600x400.pdf" file.
2. Open the file in the Image Editor.
3. Select the Image inspector and set the "Product Size" to "Custom" (1), click the lock (2) and enter the values 1280 x 840 mm.
4. Select the Tiling inspector and enable tiling.
5. Set the number of tiles to 3 x 2.
6. Select the second tiling arrangement "Non-overlapping tiles with gaps...".
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 to the sides opposite of the anchor point, except for the outer tiles where no extensions are added.
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. Click "Submit Job", select "Make and hold" for Print Files and "Hold" for Cut Files and click "Submit".
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 third tiling arrangement "Non-overlapping tiles with optionally extra material...".
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.
"Add to outer edges" makes it possible to add overlaps/extensions on all sides of the tile.
9. Enable "Print tile marks" and click on the pencil.
10. Set the orientation to "Prefer vertical overlap" and 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. Click "Submit Job", select "Make and hold" for Print Files and "Hold" for Cut Files and click "Submit".
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.

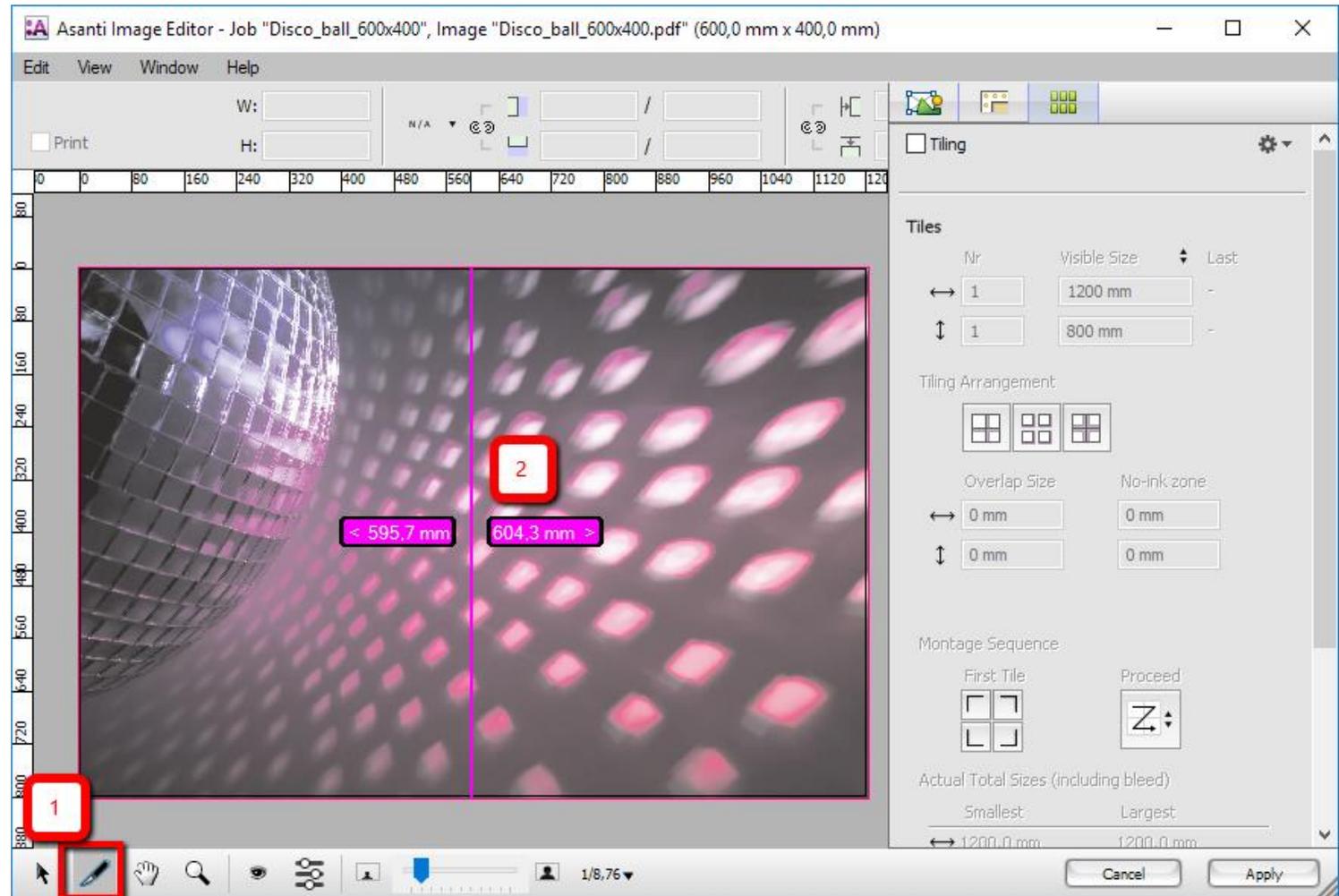


4. Interactive tiling

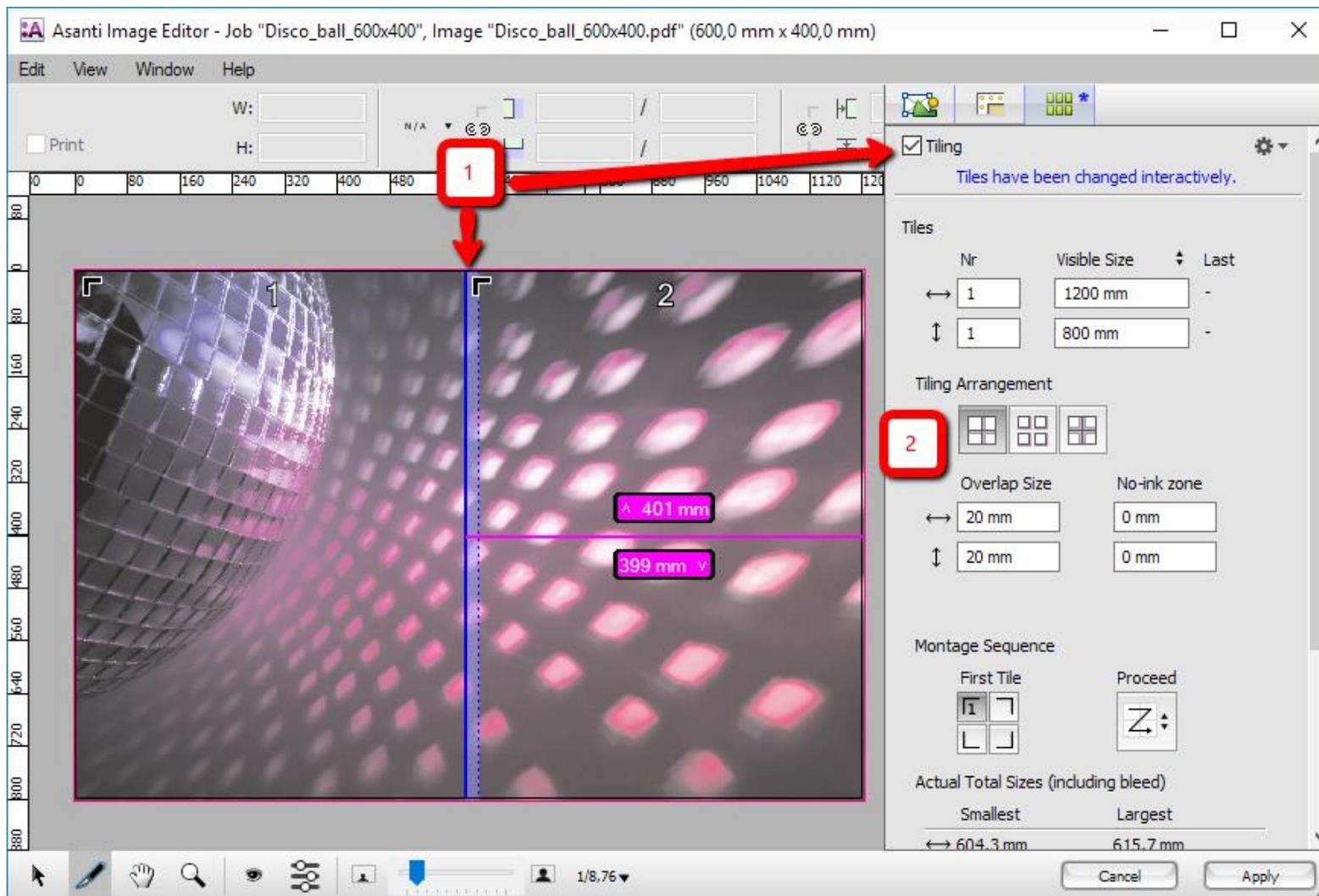
Automatic tiling uses the settings from the Tiling inspector to create a grid where most of the tiles have the same size. However, you can use interactive tools to create a non-grid tiling arrangement from scratch or to modify the rows or columns of an existing arrangement.

Start from scratch

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 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.

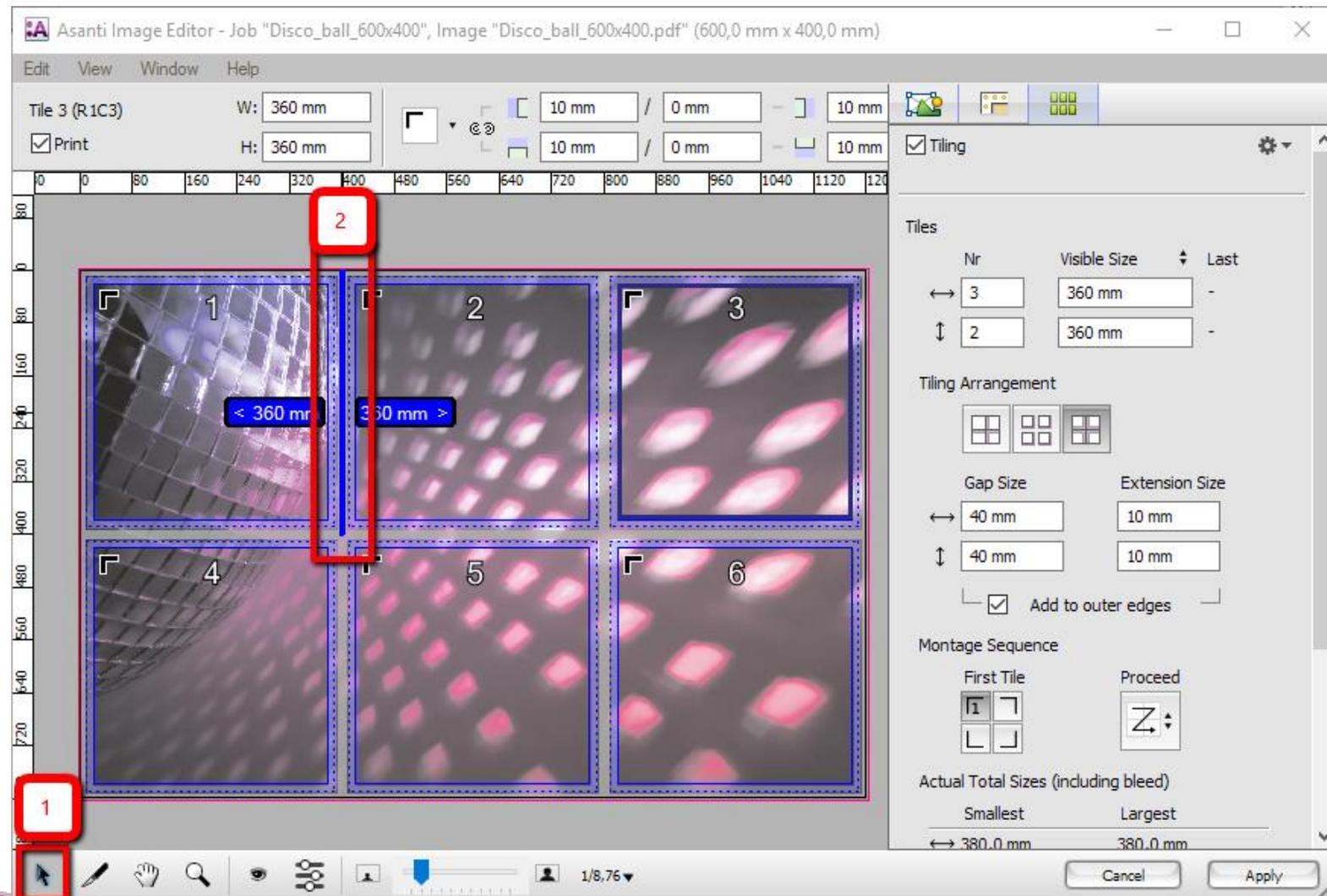


7. Click the mouse (1), tiling is enabled and the tile is created.
8. Now you can also specify the tiling arrangement, and the corresponding settings (2).
9. When you have changed e.g the overlap size and you create new tiles by clicking, the new tiles will also use these settings.
10. When you you press the SHIFT key, you can extend the splitting across all the tiles.
11. To stop tiling, you can press the A key, to select the Selection Tool.
12. When interactive tiling is used, the blue text "Tiles have been changed interactively" is displayed.

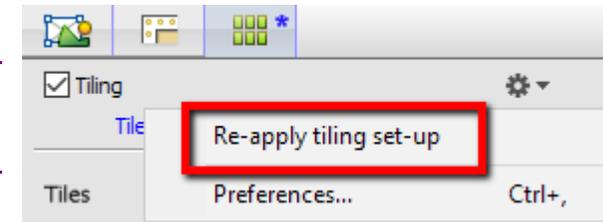


Modify an existing arrangement

1. Select the selection tool in the toolbar and disable tiling.
2. Enable tiling again.
The previous settings were not kept because you were doing interactive tiling.
3. Set the number of tiles to 3 x 2.
4. Select the third tiling arrangement "Non-overlapping tiles with optionally extra material...".
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. Make sure the Selection tool (1) is selected, and select the seam of a tile (2).
10. You can drag the seam to change the size of the tile.
When you drag the seam over the seam of another tile, the tiles will be merged together.

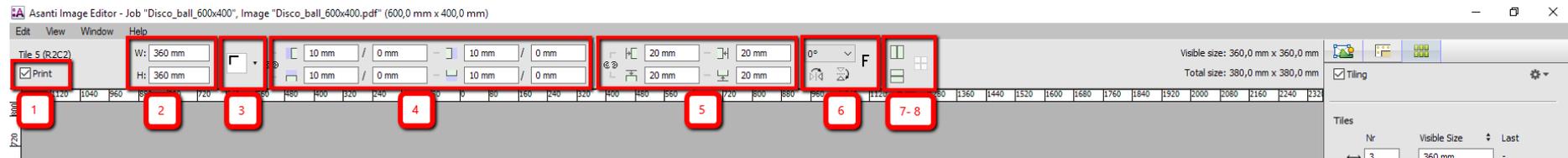


When you have changed some settings interactively, you can always undo them. Click the cogwheel and select "Re-apply tiling setup".



Options for interactive editing

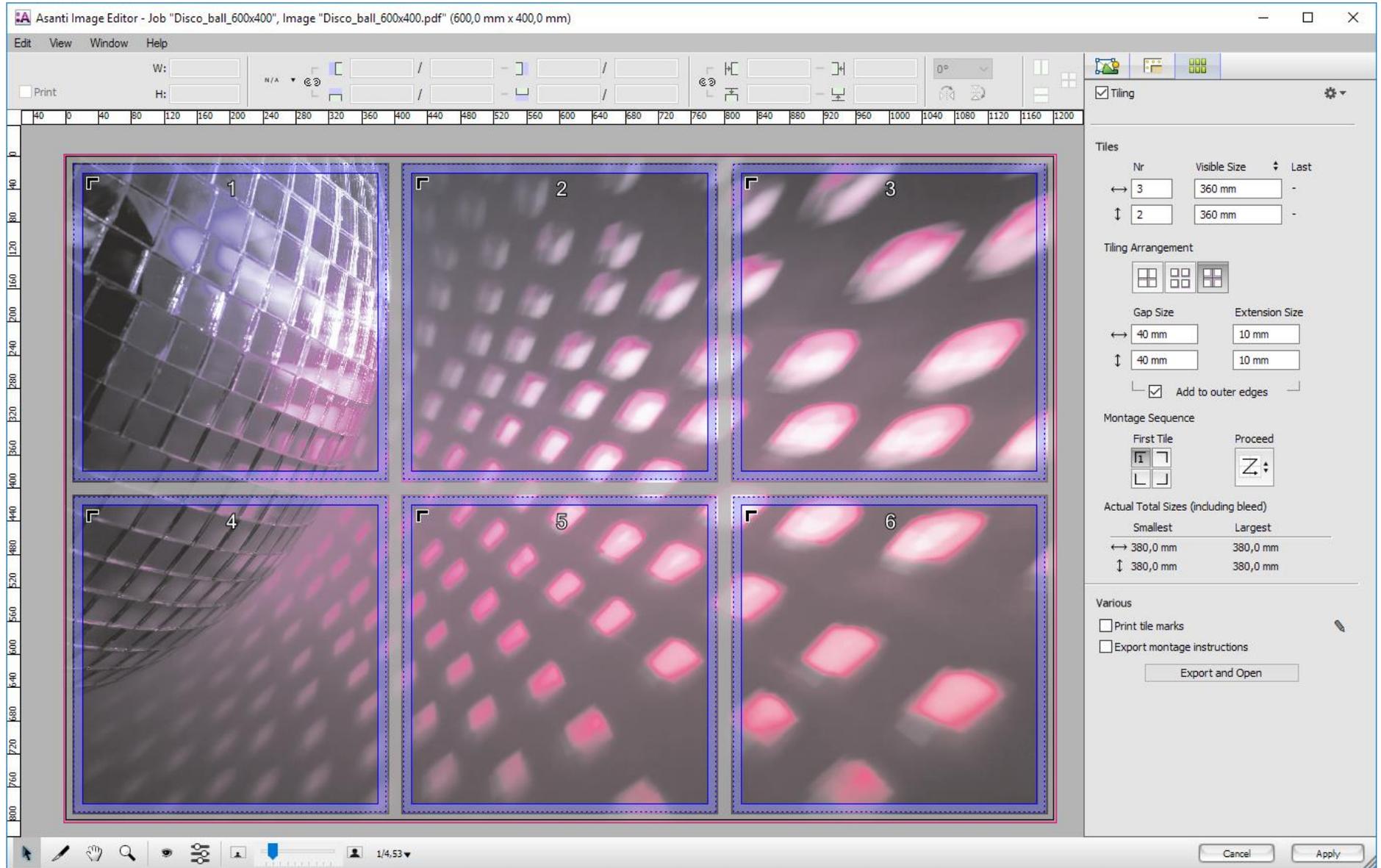
Tiles can also be changed interactively by modifying some settings in the position toolbar. These settings are described in this chapter.



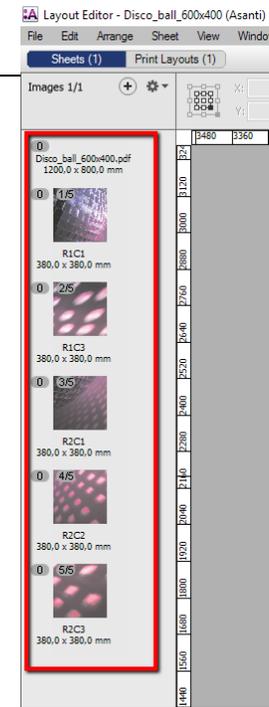
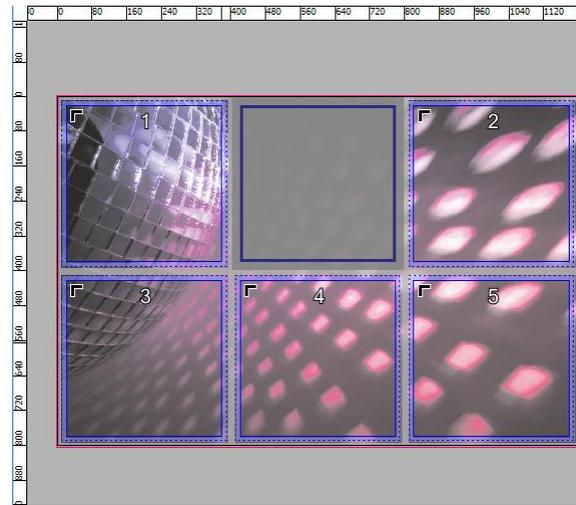
1. Omit tiles
When a particular tile does not need to be printed, you can select the tile with the Selection tool and clear the Print check box in the positioning toolbar or press the Delete key.
2. Width and height
3. Anchor point
When applicable, you can change the anchor direction for a specific tile.
4. Overlap/Extension size & No-ink zone in overlap/extension on the edges
5. Gap size on the edges
6. Print tiles rotated/mirrored
You can change the rotation or mirroring of a tile. This will be visualized as an overlay on the image, but the image will not be changed. Rotation and mirroring only affects the positioning of the tile on the sheet.
7. Split tiles horizontally or vertically
8. Merge tiles

We will continue with the previous job.

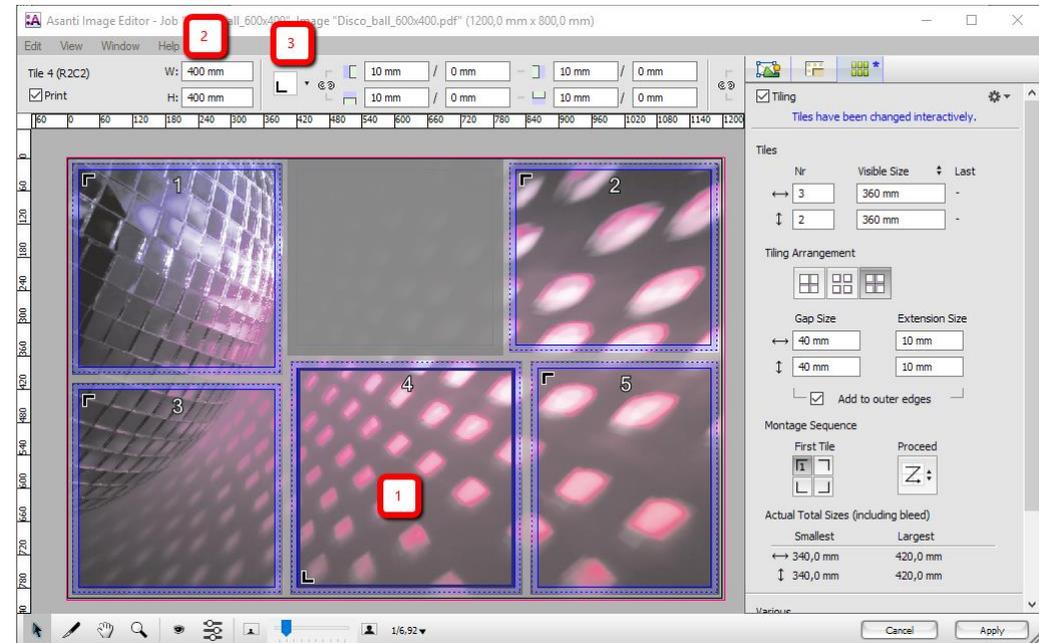
1. Click the cogwheel and select "Re-apply tiling setup".



2. 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.
3. Click “Apply”. You will see that there will be only 5 tiles in the images pane of the layout editor.

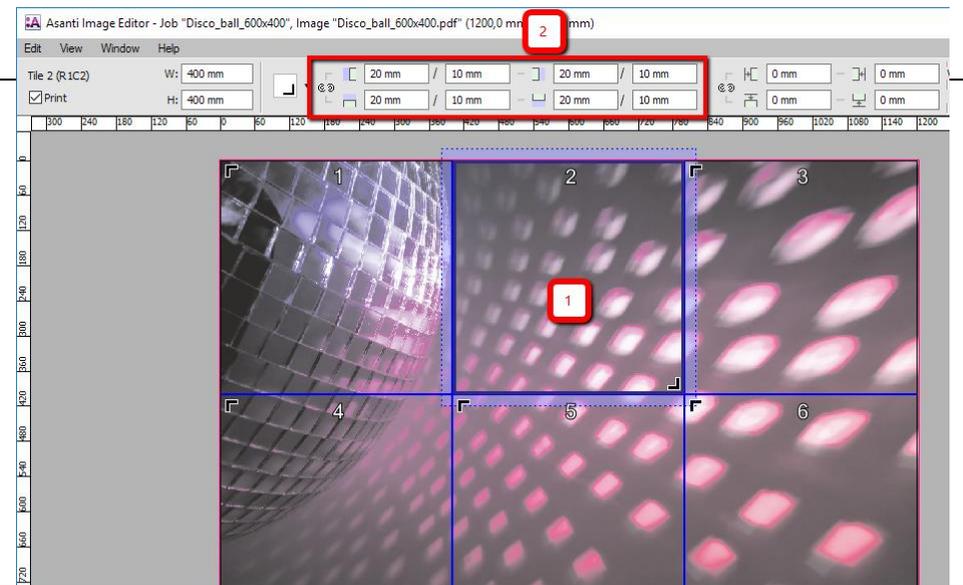


4. Double click the image to open it in the Image editor.
5. Select tile 4 (1) and change the width and height to 400 mm (2). You will see that the size of tiles 2 and 5 is changed as well.
6. Click on the anchor point drop down (3) and select another corner. You can change the anchor point for this tile and choose another corner. This is possible because the tiles are not overlapping. Note that it is not possible to change the anchor point when you have chosen the “overlapping tiles” arrangement. When tiles are overlapping, you have to follow a fixed order to assemble the tiles otherwise, the outcome will be wrong.



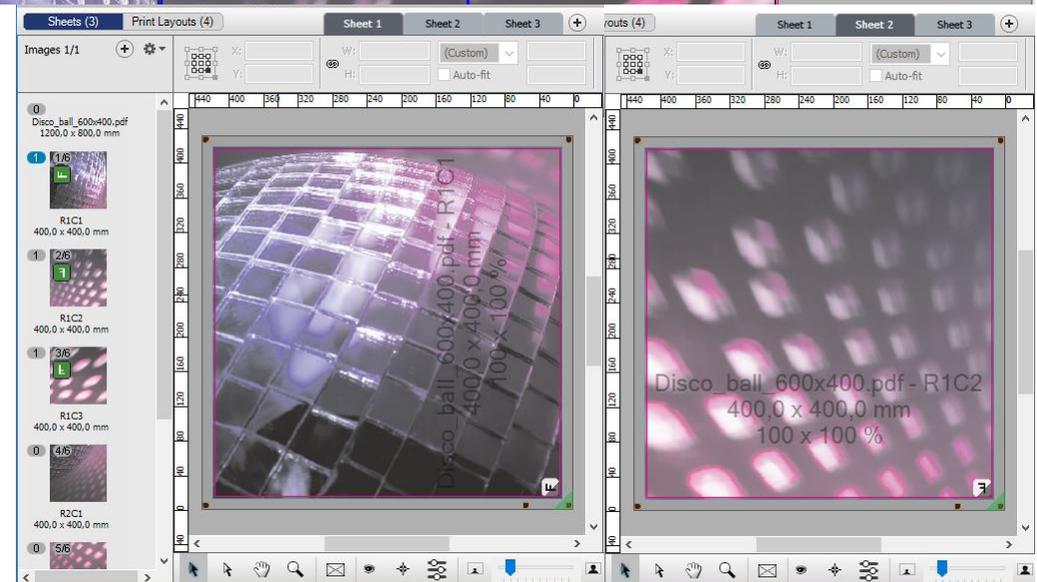
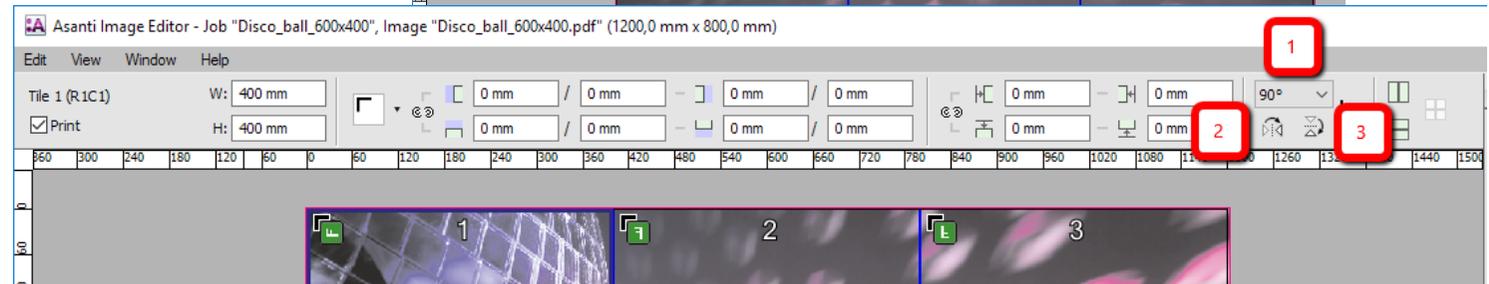
Tutorial Tiling

7. Disable tiling.
8. Enable tiling and set the gap and extension size to 0 mm.
9. Select tile 2 (1).
10. Now you can change the individual value for overlaps/no-ink zones on the edges of the tile. Set the overlap to 20 mm and the no-ink zone to 10 mm (2).
11. Select the cogwheel and click “Re-apply the tiling setup”.
12. Select tile 2.
13. You can change the individual value for the gap size on the edges. Set the gap size to 20 mm.
14. Select the cogwheel and click “Re-apply the tiling setup”.

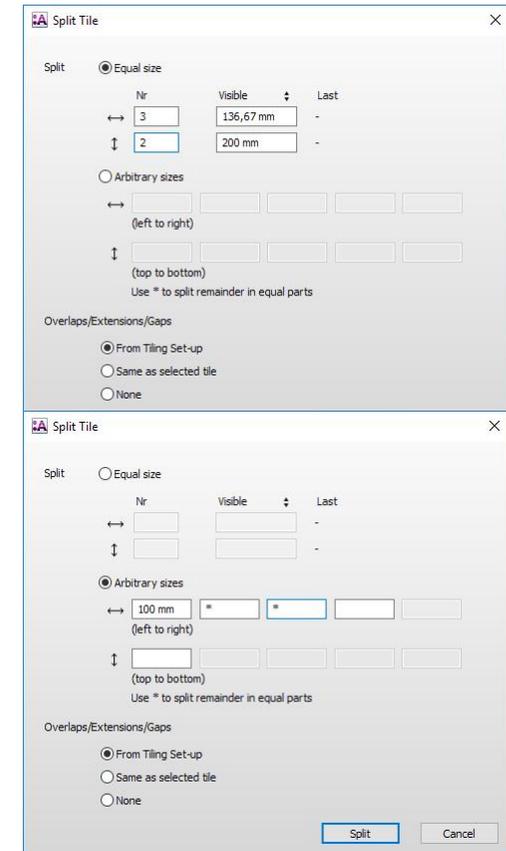


You can change the rotation or mirroring of a tile. This will be visualized as an overlay on the image, but the image will not be changed. Rotation and mirroring only affects the positioning of the tile on the sheet.

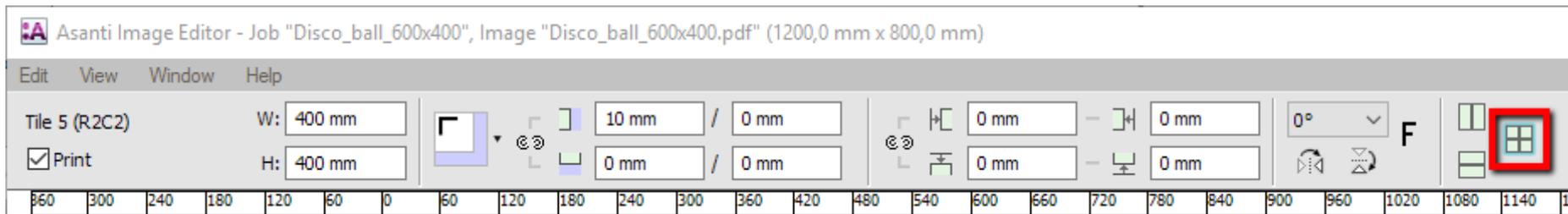
15. Select tile 1 and change the orientation to 90 degrees (1). You will see that a ‘F’ is drawn on the tile.
16. Select tile 2 and click the “Print tile mirrored horizontally” icon (2).
17. Select tile 3 and click the “Print tile mirrored vertically” icon (3).
18. Click “Apply”.
19. Set the media to 430 x 430 mm. Select the “Zünd” cutter and the “iCut Corner Marks, between 10” finishing margins.
20. Drag the first 3 tiles to the sheet.
21. Check that the tiles are placed with the applied orientation.



22. Double click the image to open it in the image editor.
23. Set the extension size to 10 mm.
24. Select tile 4 and click on the Split Tile button to split tiles using the Split Tile dialog. By default the “equal size” option is selected. Set the values to 3 & 2 and click “Split”. The tile is split into 6 equal tiles.
25. Select tile 10 and click on the Split Tile button.
26. The second option “Arbitrary sizes” allows you to specify multiple horizontal and/or vertical sizes for the tile. When you enter a size in the first box, this will be the size for the first tile starting from the anchor corner. 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. Select “Arbitrary sizes” and set the first field to 100 mm and enter a * in the second and third field. Click “Split”. The tile is split into 3 tiles, where the first is 100 mm and the rest of the tile is split into 2 equal parts.
27. Select the cogwheel and click “Re-apply the tiling setup”.
28. Select tile 4 and 5.



Now you can use the Merge Tiles button in the Positioning toolbar to merge the selected tiles. Or you can use the Selection tool and hover over the common split line between the tiles and drag the line to the opposite edge of the tile you want to append.



29. Click “Apply”.
30. Click “Submit Job” and select “Delete Job”.

5. Presets

The Asanti Production license is required to work with Presets!

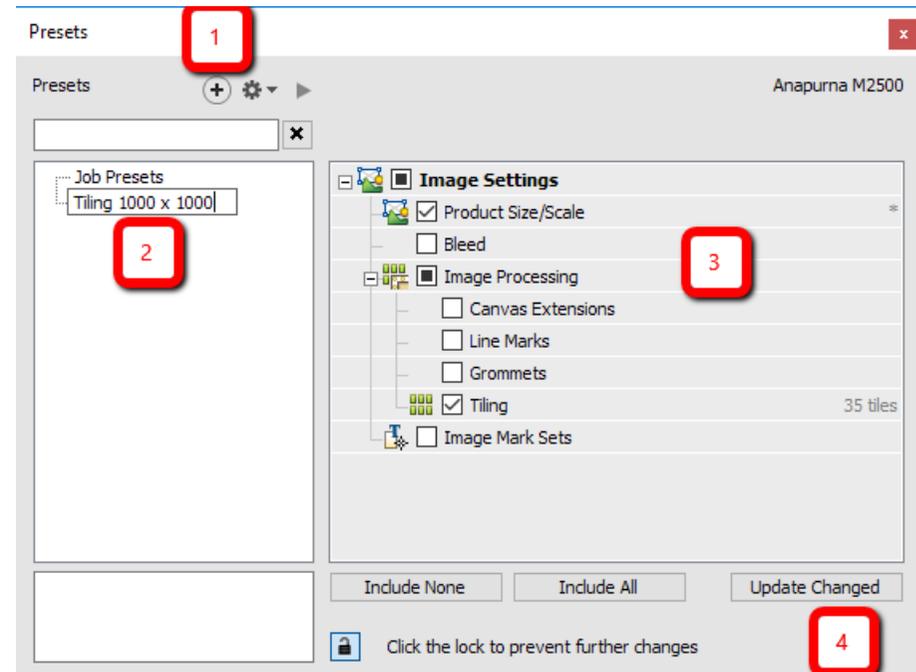
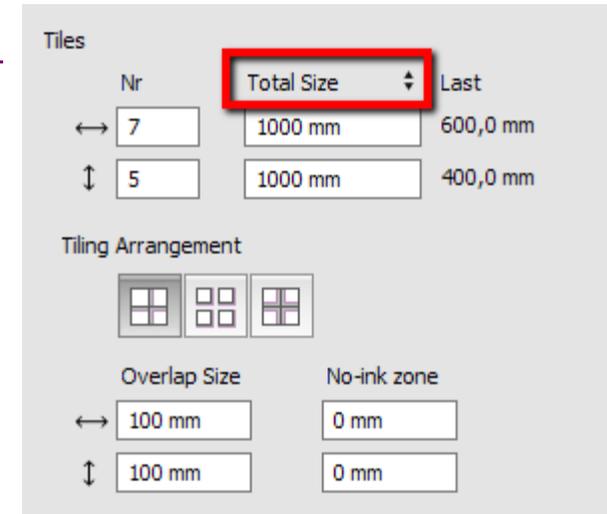
Presets let you apply the settings you defined for a particular image to other images of the same job or to other jobs.

Create a Preset

1. 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 1000%.
4. Select the Tiling inspector and enable tiling.
5. Change the size to “Total Size” and set it to 1000 x 1000 mm.
6. Set the overlap size to 100 mm (horizontal & vertical).
7. You will see that the tiles of the last column and the last row are smaller than the other tiles.
8. Enable “Print tile marks”.
9. Click the “Show/Hide Presets” button or press CTRL + Shift + P to open the Presets dialog.



10. Click the + button to add a new Preset (1).
11. Enter a name (2).
12. At the right-hand side, check the ‘Product Size/Scale’ and the ‘Tiling’ checkbox (3) and press the “Update Changed” button (4).
13. Close the Presets dialog.
14. Click “Apply”.



Apply a Preset

15. Collapse the tiles in the Image panel and add the “Asanti Visual 390x250.pdf” file.
16. Select the file in the Images panel and open the Presets dialog (this can also be done in the Image Editor).
17. Select the created Preset and right-click on it or click on the cogwheel. Select “Apply”.
18. The settings from the Preset are now applied to the new image.
19. Close the Presets dialog.
20. Open the image in the Image Editor and check that the image is scaled 1000% and tiles of 1000 x 1000 mm are generated.
21. Click “Apply”.
22. Click “Submit Job” and choose “Hold”.
23. Click “Submit”

6. Tiling Preferences

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 Tiling inspector and enable Tiling.
4. Click the cogwheel and open “Preferences...”.
5. 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.
6. Keep the default settings and close the dialog.
7. Click “Apply”.
8. Click “Submit Job” and select “Delete Job”.

