



Caldera and the F-Series

Document history :

Rev 002

Publication date :

Release version

March 2016

first revision release

August 2019

Changes for current revision Caldera

Minimum revision of Caldera

This driver was introduced in version 12 build 190219 and did not set the correct file names for barcode jobs. It used HEX instead of decimal numbers. This was corrected in build 190408 and all builds since then can use the attached procedure for using the Summa GoProduce driver.

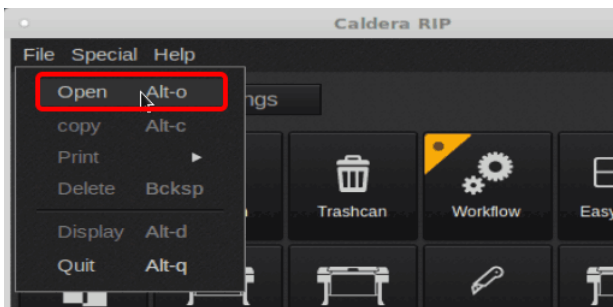
Installation and settings

The installation is same as standard cutter driver installation. The following steps will help you to add the driver for Summa GoProduce to your Caldera RIP. This operation has to be done only once. The installation will then be effective for all printers.

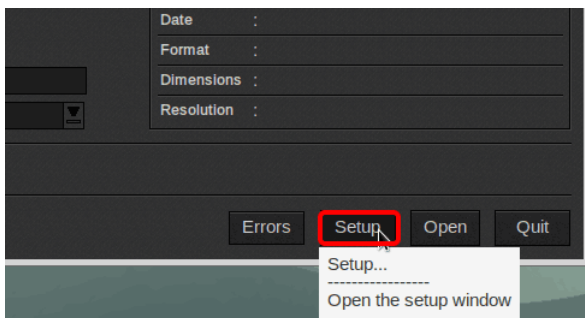
Adding Contour names

Caldera keeps a list of spot color names it will recognize as a line to cut and not to print. Summa provides a swatch library for Illustrator and color palette for Corel with following names: Draw, Score, Crease, Kiss-cut, Thru-cut, V-Cut45, V-Cut30, V-Cut22.5, V-Cut15, Bevel-Cut45, Bevel-Cut30, Bevel-Cut22.5, Bevel-Cut15 and Engrave. Add all these names (or just the ones that will be actually used) to the list of names that need to be recognized as contour lines in Caldera for any printer. Wildcard characters can be used for names that are similar. Be careful though, the names are case sensitive.

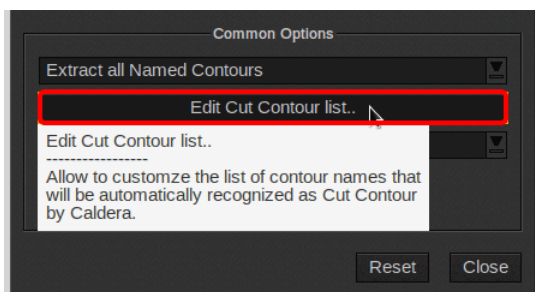
1. Launch Caldera if it is not running.
2. Click on File Open to open the file open dialogue window.



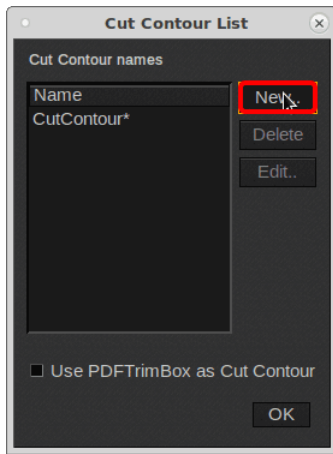
3. Click on the setup button at the bottom right of the just opened window.



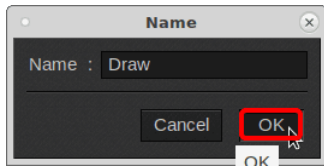
4. Then click on the Edit CutContour list at the bottom of the newly opened Setup window.



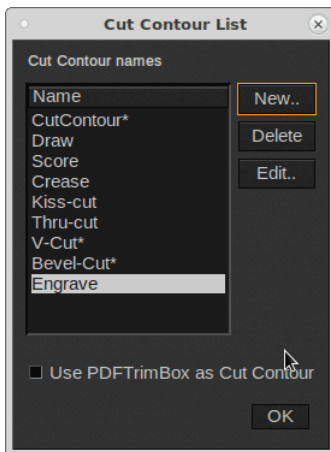
5. Click on new button in the Cut Contour list window to add a name to the list.



6. In the new Window fill in the name of the spot color and click on OK.



7. Do this for all the spot color names needed, do not forget to use the wildcard character.
8. The complete list looks then like this:

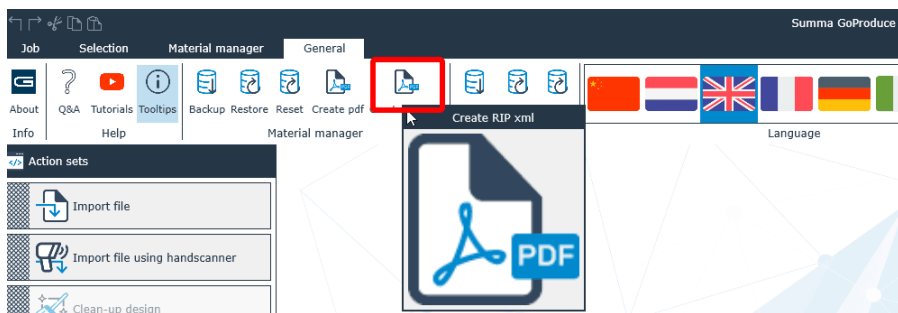


It is of course possible that other names from other installations are in the list. Now click on "OK" then on "Close" and finally on "Quit".

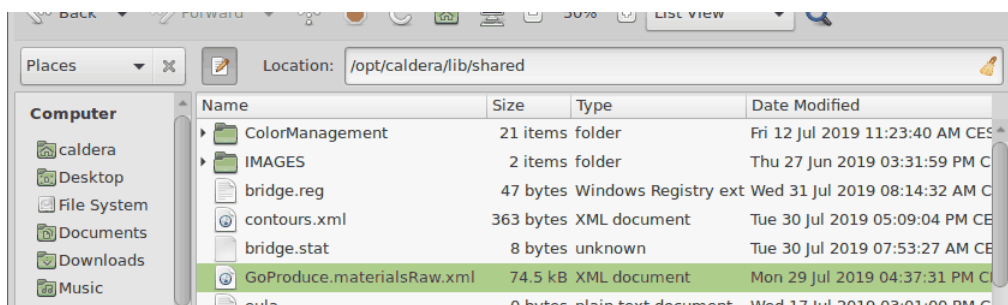
Installation of the driver.

First prepare the file with the data on the materials from GoProduce.

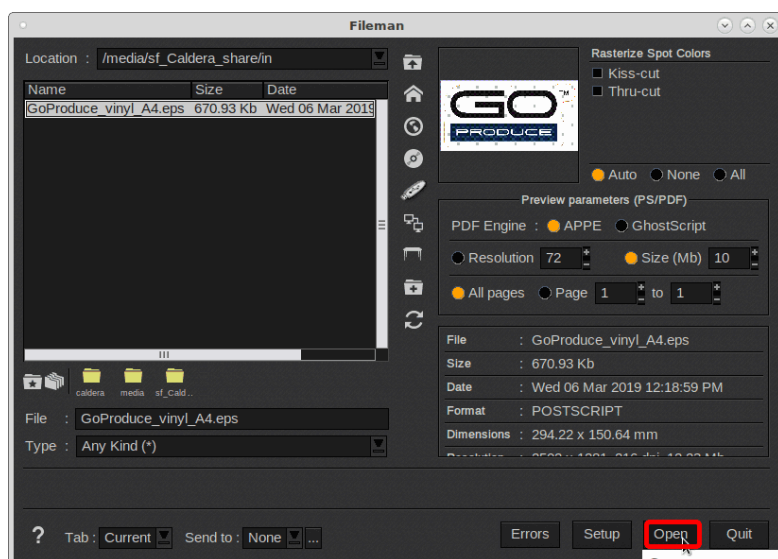
1. On the computer with GoProduce start the program and click on the General tab.
2. Then click on the Create Rip Xml button.



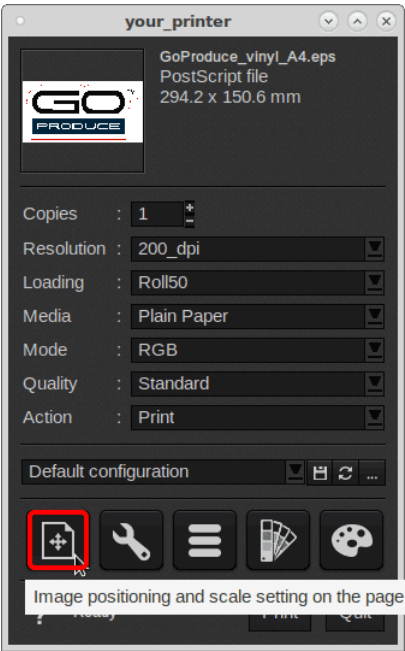
3. A file is now created in the directory `..\documents\Summa GoProduce`. This file has as name "MaterialManagerRIP.xml". This file must be renamed for Caldera. The name of the file depends of the name that is given to the driver of GoProduce when it is installed. In this procedure the name of the driver that will be used is "GoProduce". If that is the case, then the name of the file must be changed to "GoProduce.materialsRaw.xml" if another name is used when installing the driver, then the filename must be different. Be careful file names are case sensitive.
4. Place GoProduce.materialsRaw.xml and placed in the directory `../opt/caldera/lib/shared`.



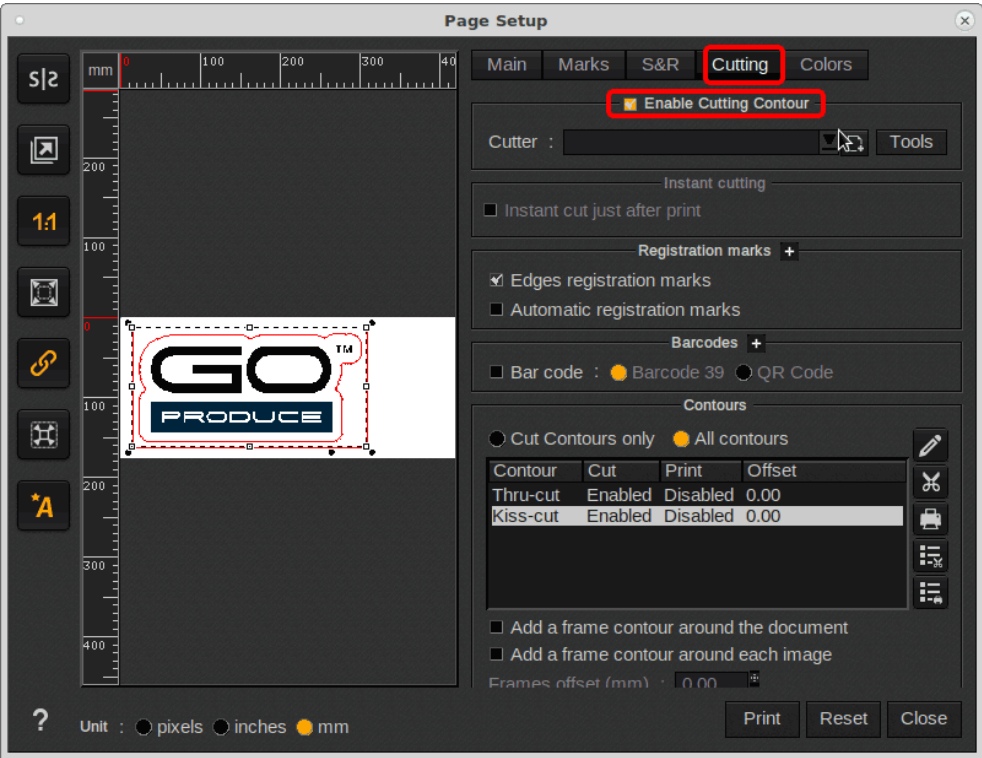
5. Launch Caldera. If it is not running yet.
6. Open a file with cut data in it.



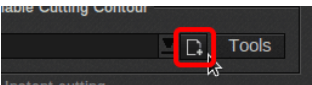
7. Double click on your printer's icon to open its print configuration. Drag the just opened file in the window. And click on the first button which opens the preview and advanced scale settings page.



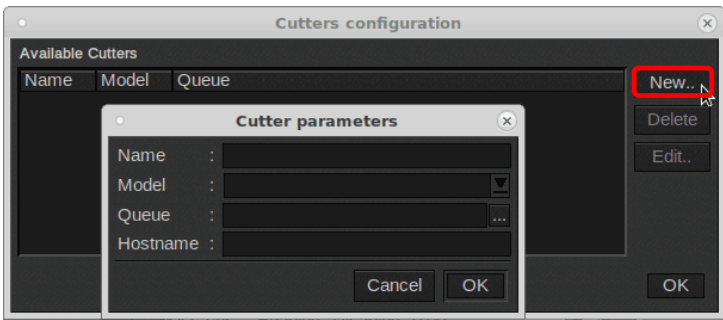
8. Click on the Cutting tab and click on the checkbox just in front of Enable Cutting Contour



9. Click on configuration button



10. Now, click on New... to add the driver for Summa GoProduce.



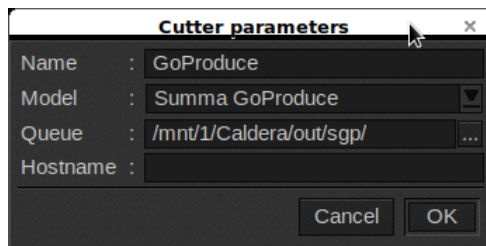
11. Fill in the pop-up as shown:

- Name: choose a name (will appear in the cutter list, use the same name as used for creating the file of the materials: GoProduce)
- Model: select your cutter model from the dropdown list (Summa GoProduce)
- Queue: choose a directory where your cutting files will be saved



Note: It is recommended to use a shared folder That can be used in Summa GoProduce, so you will not have to copy the cut files on the workstation with Summa GoProduce on.

- Hostname: Not required.



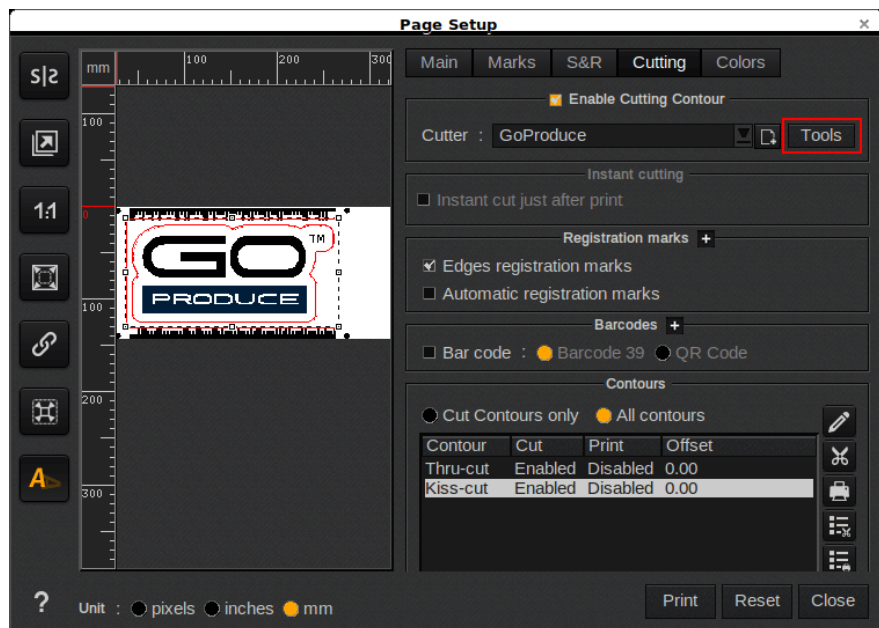
12. Click on OK, again OK, then Close. The driver for Summa GoProduce is now installed for all printers, however it is not configured yet.



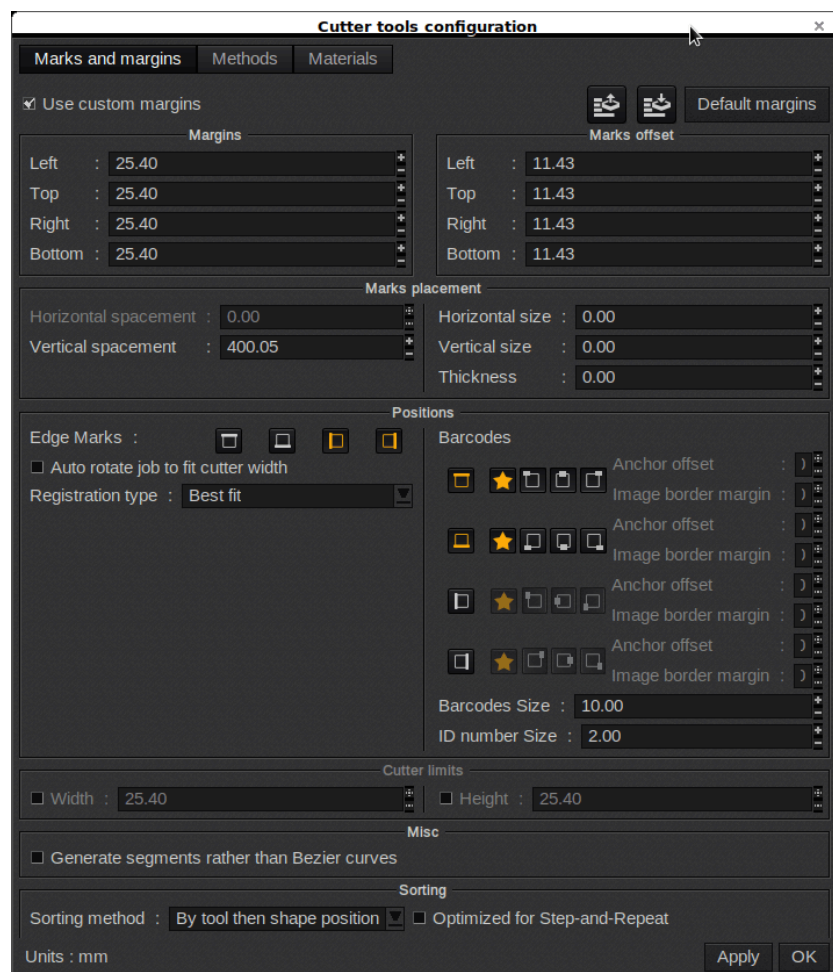
Note: Upon closing the page setup window some extra files will be created in a directory. These files are necessary for the further setup of the driver, so the window must be closed.

Settings

The Tools button can be found on the cutter selection line from the Page Setup window. With this the settings for the driver can be done. Click on it



The cutter tool window is opened



There are three tabs first tab sets parameters for Marks and Margins. The second tab sets the link between the spot color used in the design program and the method. The third tab sets the link between the media used in the rip (with its color profiles) and the material (in GoProduce to be able to link the correct tool to the method and use the predefined settings for that tool).

Marks and Margins.

Although there are a lot of settings possible, it is recommended not to change some of them. Mostly because they have no influence but sometimes because they can mess up the printout. *Margins*

☒ Use custom margins

Margins

Left : 25.40

Top : 25.40

Right : 25.40

Bottom : 25.40

Marks offset

Left : 11.43

Top : 11.43

Right : 11.43

Bottom : 11.43

Marks placement

Horizontal spacement : 0.00

Vertical spacement : 400.05

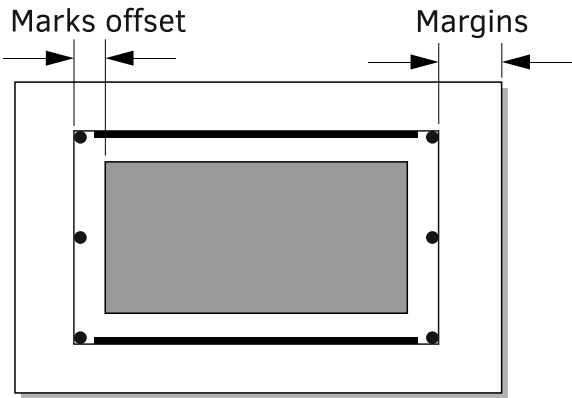
Horizontal size : 0.00

Vertical size : 0.00

Thickness : 0.00

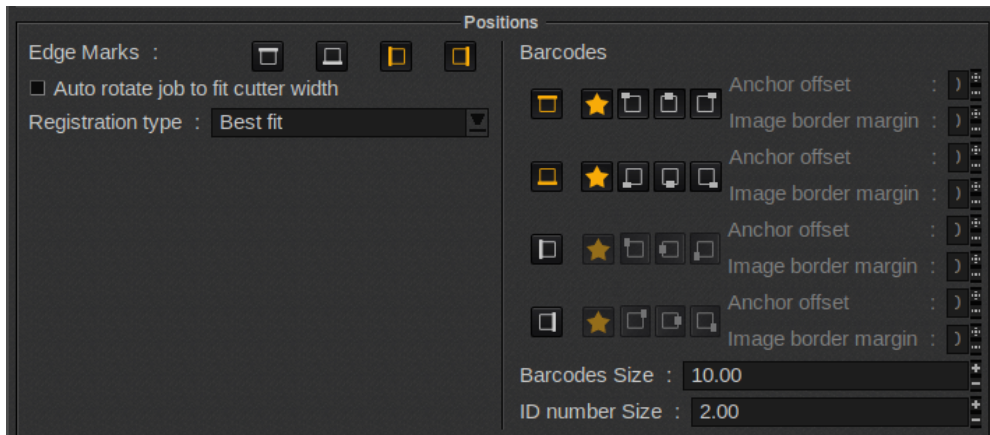
Default margins

This area is divided into three sections: Margins, Marks offset and Marks placement. Enable them by checking Use custom margins. Use the Default margins button to reset the margins to the default ones. The Marks offset allows you to define the space around the image that will contain the cutting marks. If you define the Left, Top, Right and Bottom margins at 0, the marks will be placed inside the image. With the margins the distance between the frame created by the Marks offset and the roll or page border. You can set Left, Top, Right and Bottom margins.



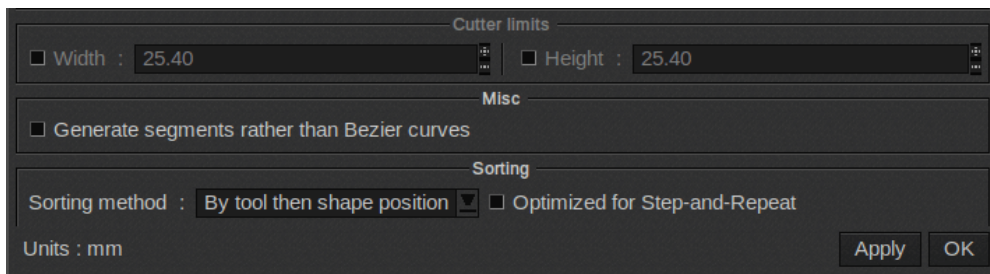
With vertical spacement, you can change the vertical distance between the marks Horizontal and Vertical size and Thickness are fields not used for table cutters.

Positions



Do not change any parameters here now. The current version of the driver does not set marks at the top and bottom of the design. Also changing the position of the code 39 barcode is dangerous since the POSTNET barcode is always printed if the code 39 barcode is printed and the POSTNET barcode has a fixed position. Also, the bottom line of the POSTNET barcode is not printed if a barcode is printed left and right, so the POSTNET barcode left and right is not usable.

Other parameters

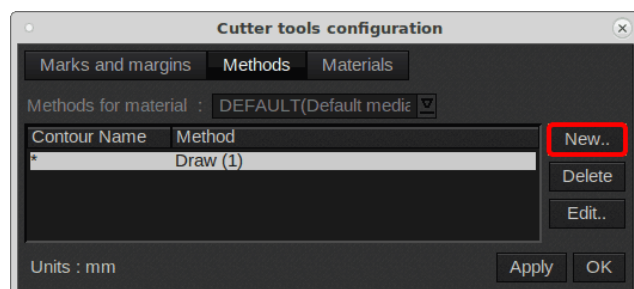


The cutter limits are parameters that are used if the print width is too large to fit in the cutter and it needs to be rotated. This is then used in combination with the autorotate function that can be activated in the group of position parameters for the marks.

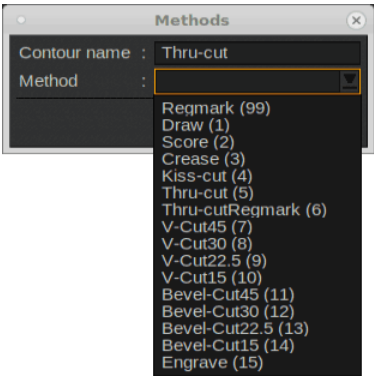
There is also the option to choose whether the cut data will be sent in curves (Bezier) or in vectors (segments). The sorting parameters have practically no influence since the program Summa GoProduce sorts automatically the cut data.

Methods

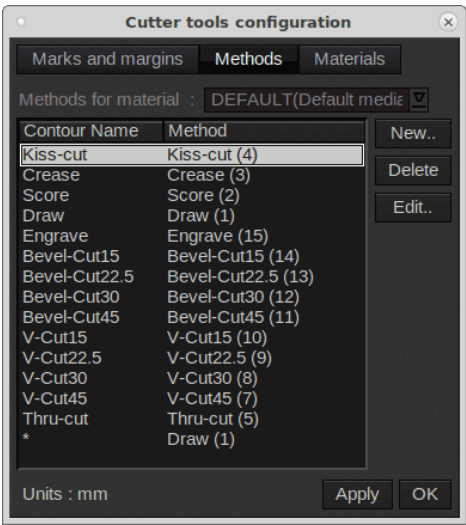
Click on the methods tab to set the links between the spot colors used in the design program and the method used in Summa GoProduce. In most cases the names will be the same since most designers will use a swatch library (or palette) with a spot colors the correct methods names. However, the links must be set and if other colors are used, then the link with those spot color names can also be set. One method can be linked with several spot colors, vice versa is not possible.



Click on new to add a new link, on delete to delete one and on edit to change the link. Click on New...: Fill in the contour name and then choose the method to link it to Click OK.

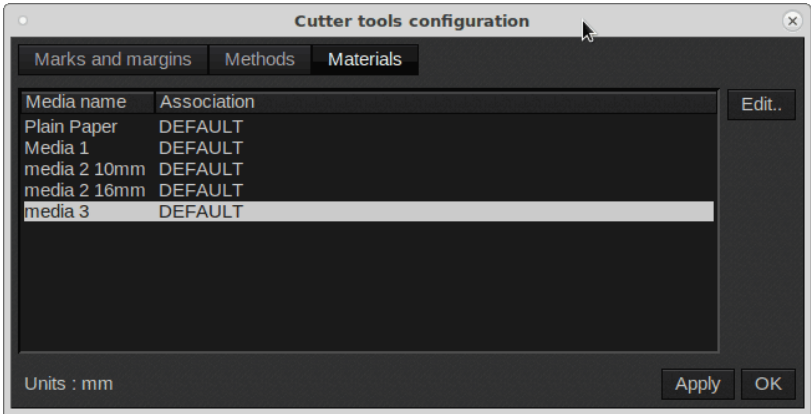


Do this for all methods or just those that will be used, if there is no link specified, then Draw will be the method.

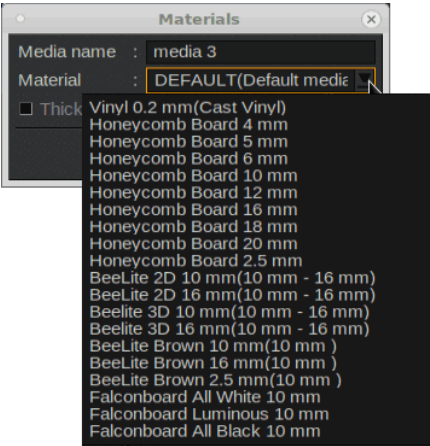


Materials

Analogue to linking spot colors to methods, media’s must be linked to materials. With media we mean the name of the media that is color calibrated for the printer. And wit material we mean the name of the material as it is used in Summa Go Produce. Click on the Materials tab



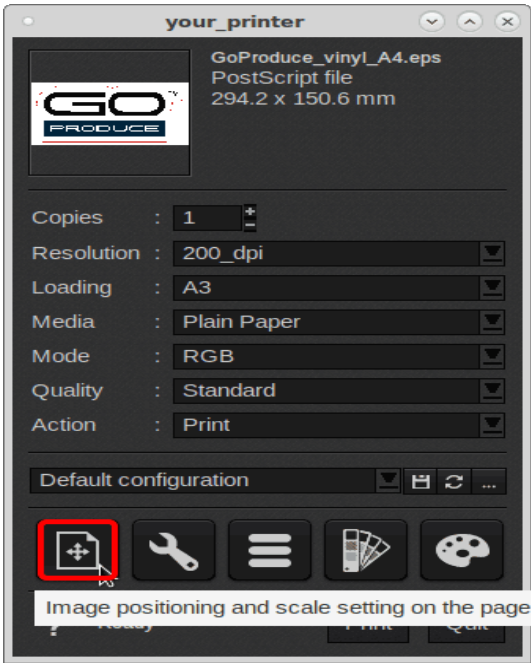
Left will be a list of the media's that have been calibrated for the selected printer. The right column is then for the material name that is used in Summa GoProduce. Select a media and click on Edit.. a window will open where the media name can be linked to the material name. A thickness does not have to be filled in separately since the name of the material includes also the thickness.



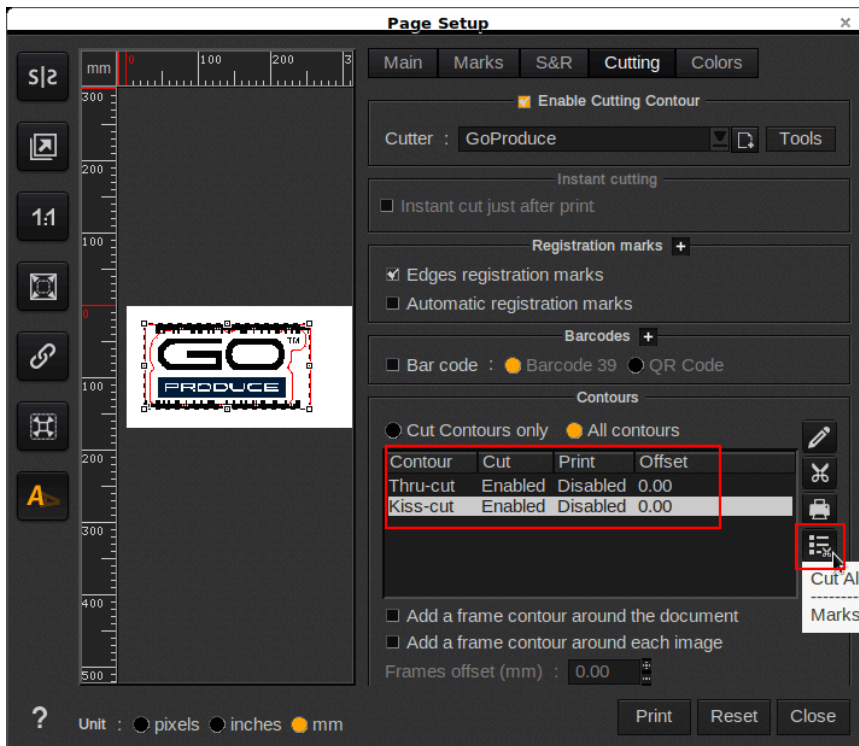
Do this for all the used media/materials.

Workflow

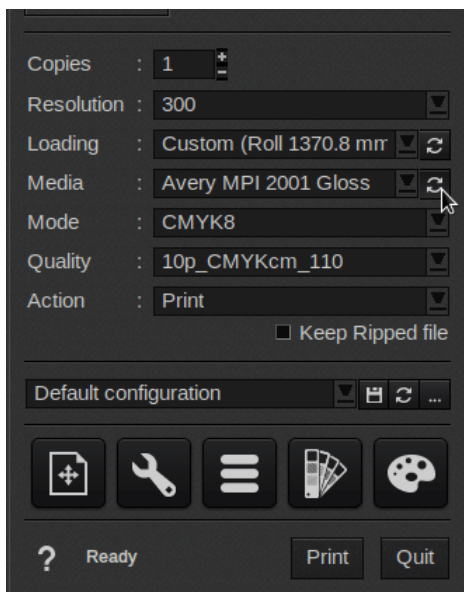
Open a file and then drag the preview from the default window to a printer.



Click on the page setup button and click on the cut tab.



Check if all the contours are cut and not printed. If not, then click on the Cut all button. Again, this has to be done only once. IN future those colors are now set to be cut and not printed. If no other parameters need to be changed click on Close.



Check if the media is set correct. Either change manually or request which media is loaded in the printer. Click on print.

The SGP file will be created and can be opened in Summa GoProduce. If everything is set up correct, then the job can be started immediately without having to change any parameters or setting anything up in GoProduce.

Remarks on current version of driver

Some tests have been done and all seems to work smoothly.
There are however a couple of minor flaws/bugs.

The major one is what can be called the 'definition of the markerset'. There is no possibility to set marks along the top and bottom of the design. This place is taken up by the line of the POSTNET barcode. It is described in the SDK that marks can be set at a distance of 5mm along the top and bottom line (inside towards the design) however Caldera seems not be able to do this. Changing this would be a major enhancement.
Caldera has the possibility to add automatically marks 'inside' a job. This is a very handy feature, but this is only for step and repeat nesting and compose. I refer to their documentation on that for a more detailed explanation on how it works. So, for a single file not usable (if forced then the extra marks are only at one side).

The name of the files is not according to the SDK. In the SDK it is said that file name should be like this:
Then the filename can be **1234567890.SGP** or **1234567890_jobname.SGP**
Caldera sets the file name as jobname_xxx_1234567890.SGP where xxx is the original file extension of the job.
However, Summa GoProduce takes care of this.

The data itself: In the sgp file the LN command is still used. It should be LM. However, the current version of Summa GoProduce takes care of this. The syntax Caldera uses is like this:
SP4;LNKiss-cut;LMKiss-cut;LC255,0,0;
According to current SDK it should be :
SP4;LMKiss-cut;
However the current version of Summa GoProduce has no problems with this. Note that if both LN and LM are used in the same line, GoProduce will discard the LN command and use the LM.

With the current version of the driver it is necessary that the top and bottom Mark offset is set to minimum 23mm if the code 39 barcode will be printed as well as the POSTNET barcode. If the value is smaller, then the code 39 barcode will be printed either through the line of the POSTNET barcode or even worse, at the wrong side of it.

And if the program is asked to print the POSTNET barcodes at the sides, then there is no line printed under it.