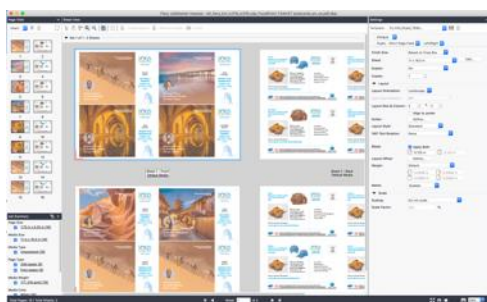


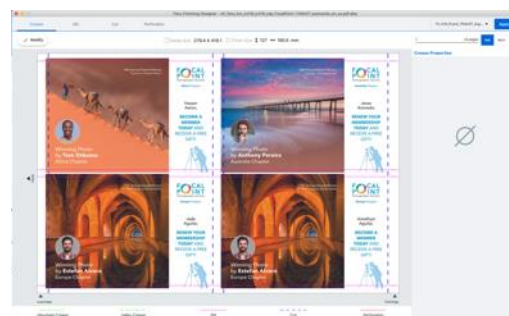
How-To: Impose and trim postcards using a Konica Minolta TU-510 Trimmer Unit, Fiery Impose, and Fiery Finishing Designer



Fiery Impose for gangup layouts



Fiery Finishing Designer to create TU-510 finisher templates



How-to: Impose and trim postcards using the Konica Minolta TU-510 with Fiery Impose, and Fiery Finishing Designer

Feature Overview

The new Konica Minolta TU-510 trimmer unit is the first in-line, and real-time cutter, slitter, creaser and perforation unit made for digital printers. The TU-510 requires a programming interface to control where and when to apply the finishing options to the printed sheets. EFI has designed an easy-to-use and WYSIWYG programming interface that simplified print job finishing setup for the TU-510, called Fiery Finishing Designer. Fiery Finishing Designer is a free utility, but it is highly advisable to include the Fiery Impose option with any system configured with a Fiery server and TU-510.

Using Fiery Impose and Fiery Finishing Designer with your Konica Minolta TU-510 will allow you to easily produce a variety of VDP applications including business cards, postcards, booklets, paper pads, full bleed tri-fold brochures, flyers and more.

Objectives

- Create a Fiery Impose template for postcards
- Set the appropriate settings to print the job (media, quantity, plex, color settings etc.).
- Create a Fiery Finishing Designer template to automatically trim the postcards on the TU-510.
- Create a Hot Folder to utilize and reuse the Fiery Impose and Fiery Finishing Designer templates on future postcard jobs.

Additional resources

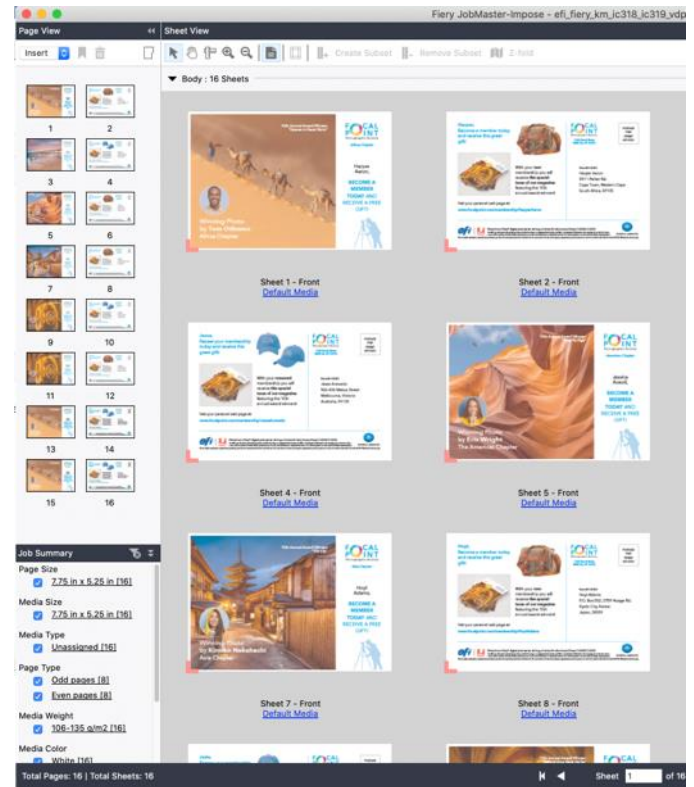
For additional software downloads, training and more go to [Fiery Online Resources](#).

Before you begin

- You have access to a Konica Minolta AccurioPress configured with a TU-510 Trimmer Unit. Applicable models include: AccurioPress C14000, C12000, C7100, C7090, C4080, C4070 or C4065.
Firmware 20 or 30.
- Your TU-510 Trimmer Unit is configured with the optional Gutter Slit **TU-504** option.
- You have access to a FS400 Konica Minolta Fiery for the printers previously listed. Applicable models include:
 - IC-319 or IC-318 for AccurioPress C14000 & C12000
 - IC-319 or IC-318L for AccurioPress C7100 & C7090
 - IC-317 or IC-419 for AccurioPress C4080, C4070, C4065.
- You should have Fiery Command WorkStation 6.6 or above open and connected to one of the Fiery servers listed in the previous requirement.
- You should have a **Fiery Impose license** activated on your Command WorkStation machine. *If you need a free 30-day trial license for Fiery Impose, go to: fiery.efi.com/impose/freetrial30.*
- Place the sample file **efi_fiery_km_ic318_ic319_vdp_postcards_en_us.pdf**, in the Fiery server Held queue. Drag the file to the Command WorkStation HELD list or use the Command WorkStation Import menu option.
- You will need (4) sheets of **11" x 16.5" paper** to complete this job on the TU-510 Trimmer Unit.

A few notes about this file:

1. This sample file has (16) 7.75" x 5.25" pages designed including 1/8 (.125)" bleed.
2. Because this file is a mail piece it is important to maintain the sort order of the output. The TU-510 is a 'sheet-fed' type trimmer so use the '**Duplo - Short Edge Feed**' Gangup layout Imposition option vs. a 'cut and stack' (guillotine cut) sort order.
3. The largest sheet size supported by this trim mode on the TU-510 is 13" x 19.2" but for this example to produce finished 7.5" wide x 5" high Postcards we will need **11" x 16.5" paper**.
4. It would be ideal to add an 11" x 16.5" media selection to the paper library on your printer before you proceed.

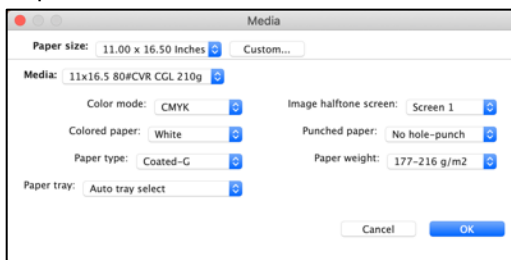


Step 1: Impose the sample document

First you will impose the sample document.

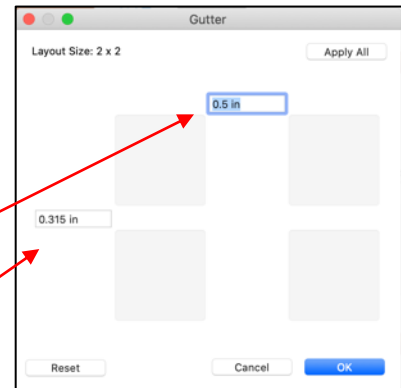
Note: If you receive jobs that are pre-imposed then you will not need to impose those jobs and can jump to step 2.

1. After importing the sample file into Command WorkStation, select the file in the HELD queue. Then right-click and select **Impose** from the pop-up menu. *The window above will open.*
2. In the Settings pane to the right set the following options:
 - a. Gangup
 - b. Below Gangup select Duplo – Short Edge Feed > Left/Right
 - c. Finish Size: Based on Crop Box.
 - d. For Sheet, select the **Edit** button and enter a **Custom** Paper size: of **11" x 16.5"**. Then in the Media: section either use the drop down to **Choose from paper catalog** (if you have created a 11" x 16.5" paper type in your printer paper catalog) or set all the appropriate paper properties for the media you are going to use. Details to come later on about selecting 11" x 16.5" size.
 - e. Duplex = **On**.

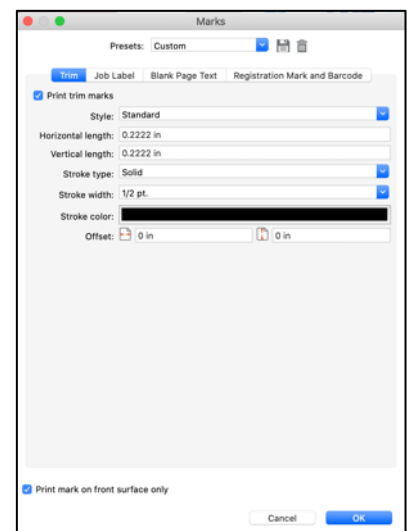


Record these values as they will be used in Fiery – Set Up Finisher app as the 'Vertical' and 'Horizontal' Gutter.

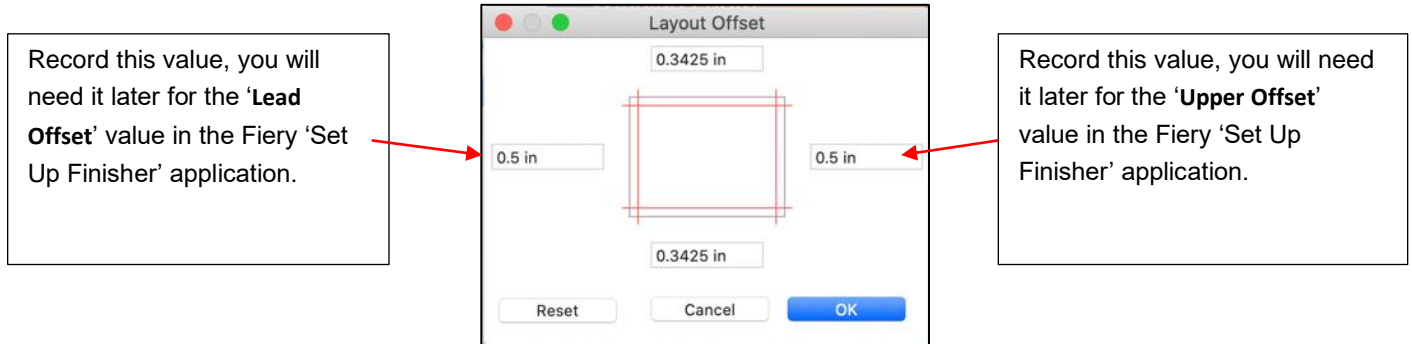
- f. Layout **Row & Column** should be: **2 x 2**
- g. Click on the **Define...** button to right of Gutter: and enter **.5"** as the vertical gutter (TU-510 fourth station 'Cut') and **.315"** (8mm fixed) as the center Gutter (TU-510 first station margin 'Slit').



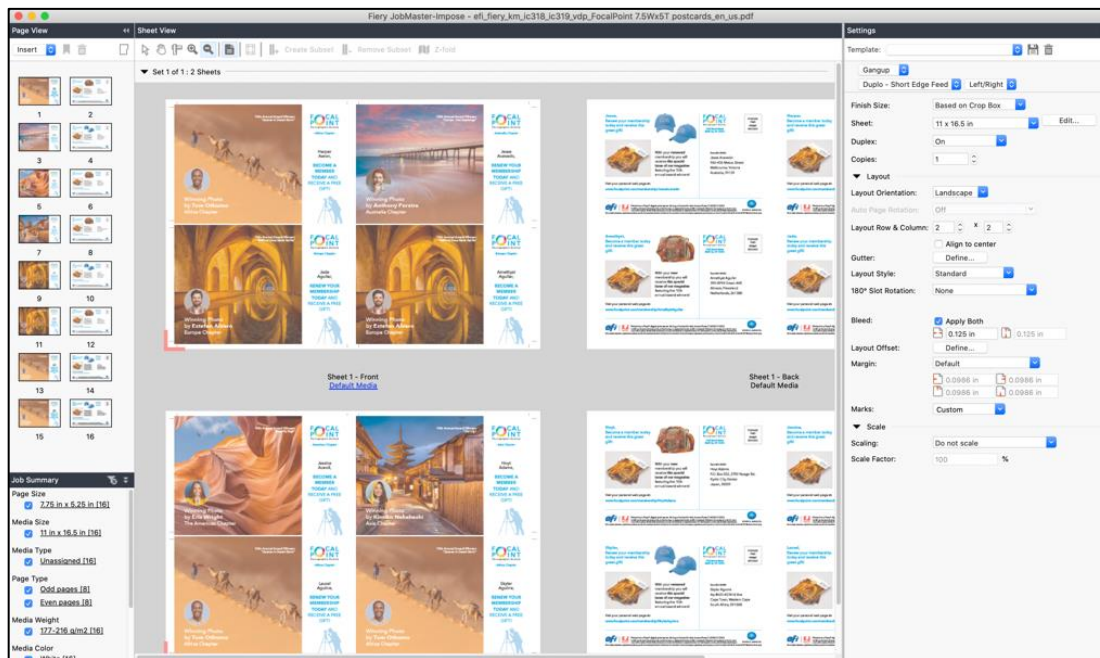
- h. For the 'Bleed:' setting enter **.125"**
- i. You do not need to enter Marks for the TU-510 or the Finishing Designer application but if you want to have a visual reference of the finished pieces in the Fiery Finishing Designer application, without having to print and finish, enter the following Marks:
 - i. 'Print trim marks' = $\sqrt{(\text{ON})}$, and
 - ii. 'Print mark on front surface only' = $\sqrt{(\text{ON})}$



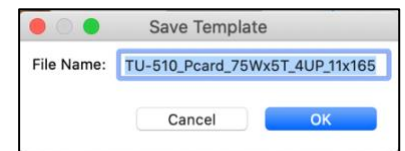
If you have set everything correctly your Layout Offset values will be:



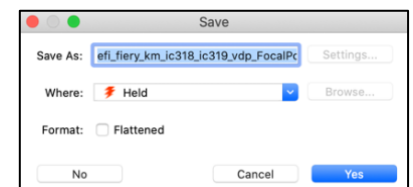
The Fiery Impose settings and job should look like this:



- j. Finally, if you might use these same dimensions for another job then save these settings as an Impose Template. Click the save icon to the right of the Template drop down window in the upper right of the 'Settings' screen. Provide a template file name and save your settings as an Impose Template.



- k. Close the Impose window and save your job as a new file.



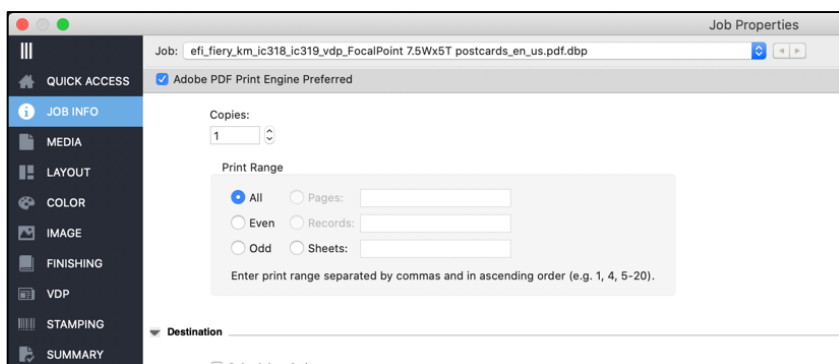
Step 2: Set the appropriate print properties

For this job set:

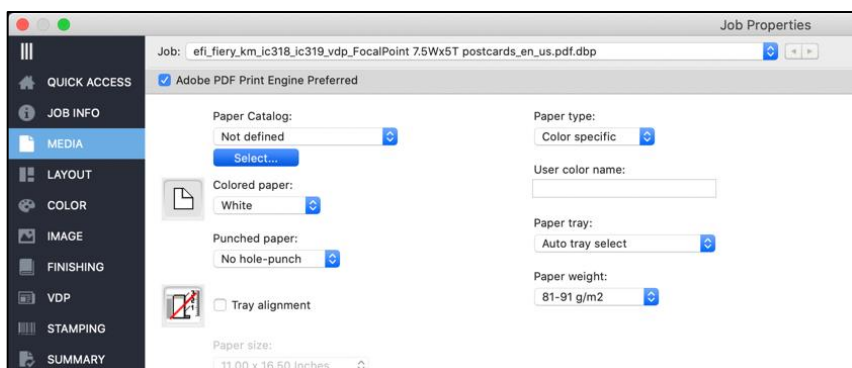
- Quantity = 1
- Media = 11 x 16.5 Paper Catalog entry
- Set the Duplex setting if you import jobs that are already pre-imposed.

Select the job in Fiery Command WorkStation and choose **Properties**:

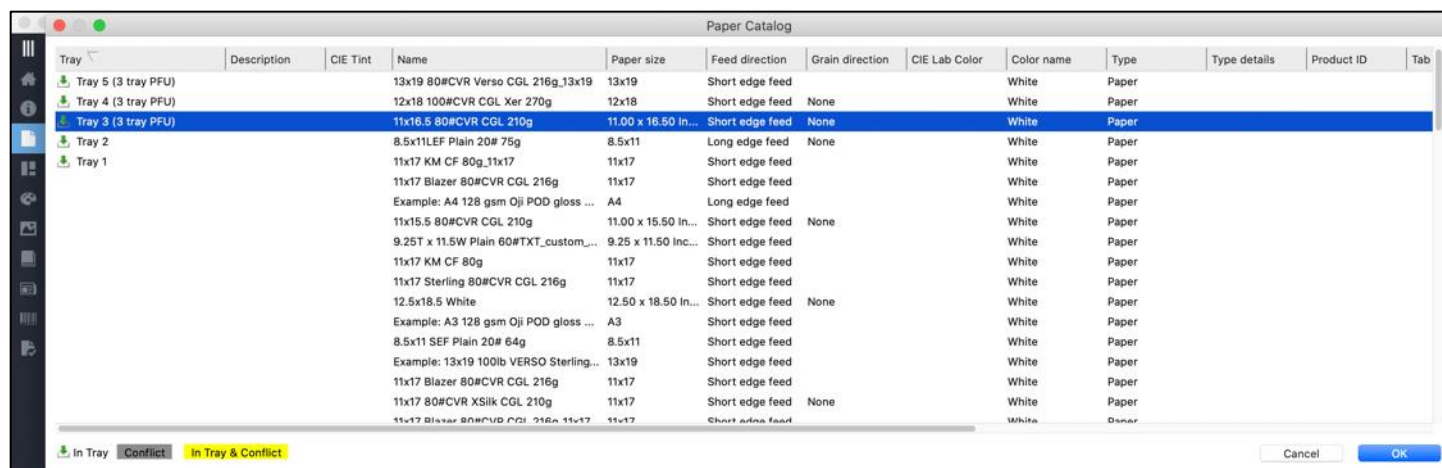
When the Job Properties window opens click on the **JOB INFO** menu option in the left panel and enter '1' for Copies:



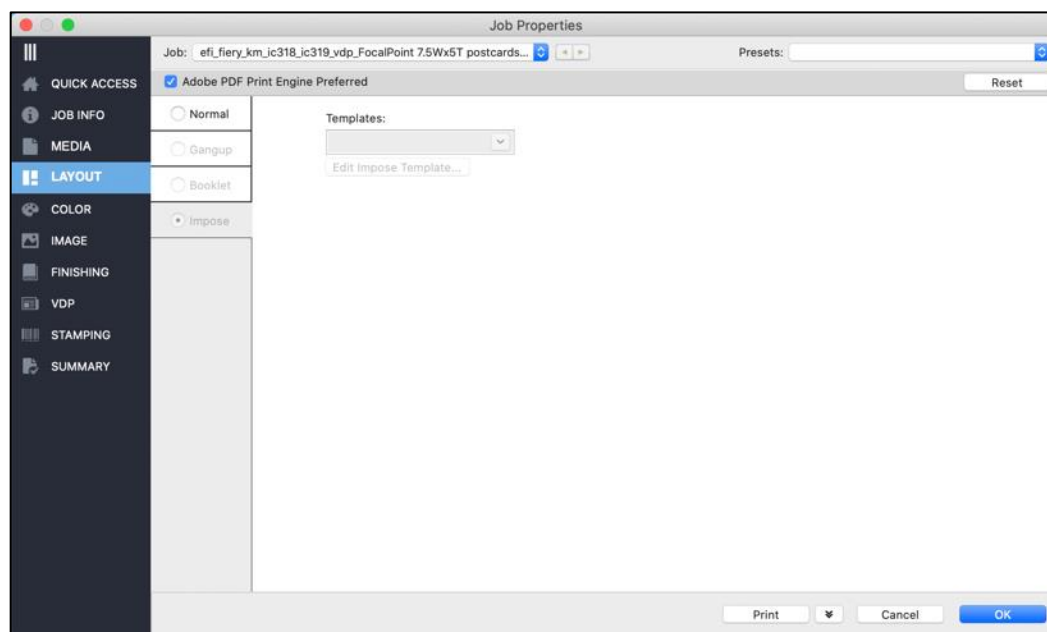
Next, click on the **MEDIA** option in the left panel and click on the **Select...** button below the **Paper Catalog** drop down selection window:



From the pop-up Paper Catalog window, select 11" x 16.5" paper catalog entry that you created on the printer.

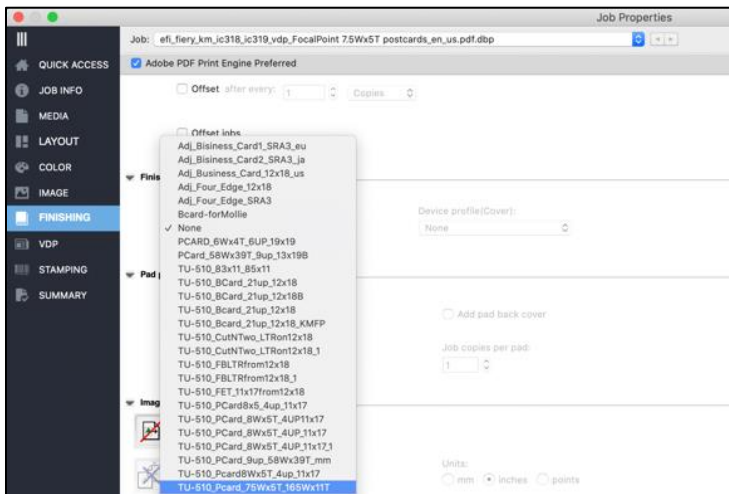


Finally, for this job we are controlling the Duplex (**two-sided printing**) or Simplex (**one-side printing**) setting from the Impose template we setup in Step#1 so we do not need to use the **LAYOUT** settings to set the **Duplex** property. For live jobs however, that are not imposed, you should apply the **Duplex** setting from the **LAYOUT** job properties when necessary.

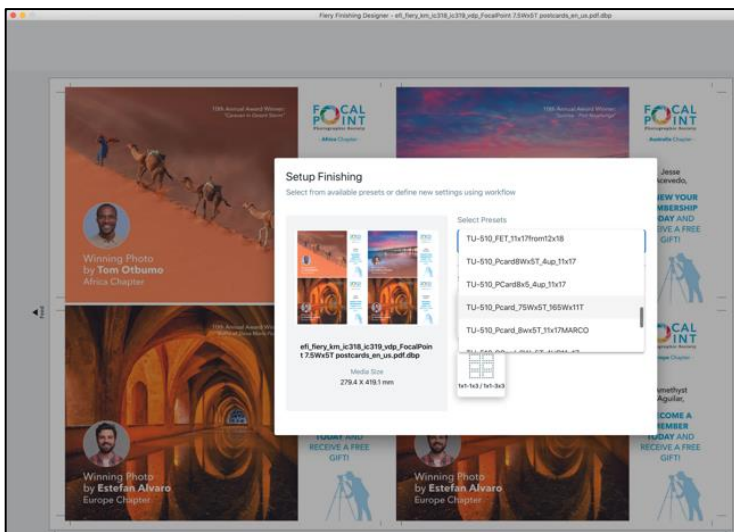


Step 3: Create the TU-510 Finisher Profile for the job

TU-510 Finisher Profiles can be created using the **Finisher Profile** function built into the print engine or by using the **Set Up Finisher** application in Command WorkStation. Regardless of whether you use the **Finisher Profile** or **Set Up Finisher** application in the Fiery server you will be able to select Finisher Profiles dynamically either from the **Command WorkStation – Job Properties – Finishing – Finisher profile** drop down or from within the Fiery Command WorkStation **Set Up Finisher** application window.



Previously created TU-510 Finisher Profiles can be applied to jobs by selecting the **Finisher Profile** from the **FINISHING** job properties drop down window.

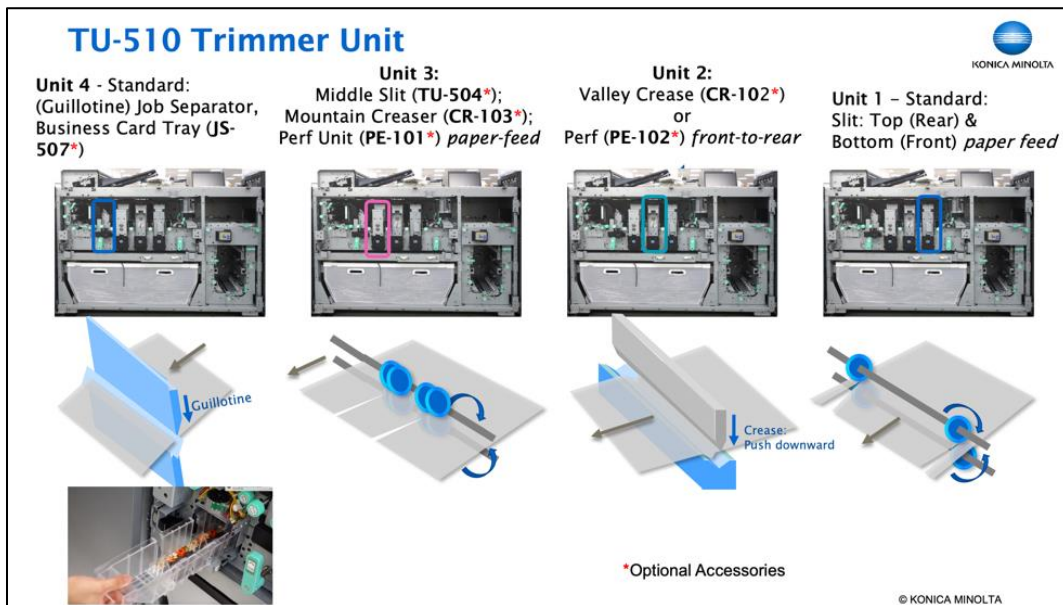


After performing the **Process and Hold** action on a job in Command WorkStation, you can open the **Set Up Finisher** from the right-click menu and either apply a pre-existing template to your job or you can create a new TU-510 Trimmer Profile. All profiles are saved on the hard drive of the connected press.

Next, let's create a TU-510 Finisher Profile using the **Fiery Command WorkStation – Set Up Finisher** application that is unique to Konica Minolta and the TU-510 Trimmer Unit.

In order to see the option to **Set Up Finisher** in the right-click Job menu in Command WorkStation, you must be using **Command WorkStation version 6.6 or later** and the job must be **Processed and Held**. Before processing the file, it is a best practice to apply the other job properties that will allow your job to print such as: media selection, color settings, and sheet quantity. This was already completed in the second step on pages 6-7.

The **FIRST** and **FOURTH** Unit in the TU-510 are included with every TU-510. The **FIRST** unit applies slits to the margin edges of the paper. The **FOURTH** unit applies guillotine cuts to the sheet.



For this particular file, we will program the **FIRST** unit to **slit** the edges of the sheet, the **SECOND** unit will not be used; the **THIRD** unit should be configured with the Optional **TU-504** to apply a '**Gutter**' slit in the middle of the sheet and the **FOURTH** unit will apply **guillotine cuts**.

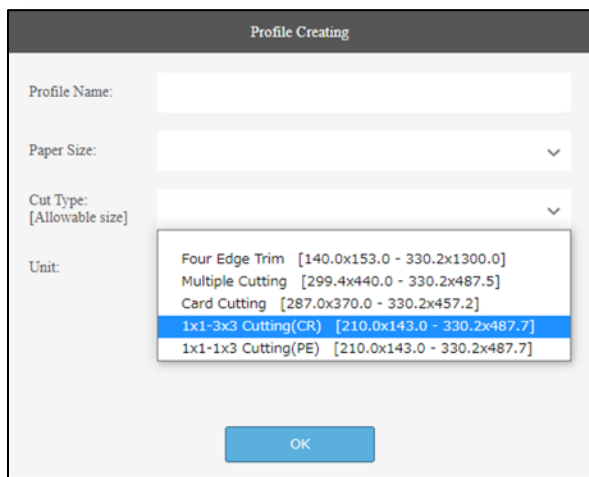
Note: This document is being written based on the tolerances of the TU-510 using Firmware version **AC3T0Y0-00E1-G00-20** and **AC3T0Y0-00E1-G00-30**. These tolerances may change with later versions of firmware for the TU-510. It is extremely important when designing TU-510 Finisher Profiles that you observe the gap tolerances for what the TU-510 supports. For example, the **FIRST** unit in the TU-510 applies margin (edge) slits to the sheets (ex. trimming a 12x18 sheet down to 11x18 by slitting .5" from the front 18" edge and .5" from the rear 18" edge of the sheet. The margin slit tolerances for the 1st unit by default is '0' (Off) or 10-26mm (.394"-1.02") from the edge of the paper. So you would not be able to slit any width greater than 26mm or 1.02".

The guillotine cut tolerances for the fourth unit by default are 0 or 10-13mm (.394-.5118"). A Service Technician can however increase the usable margin to '0' or 5-13mm (.196-.5118") by enabling DIP SW 88-7 in Service Mode.

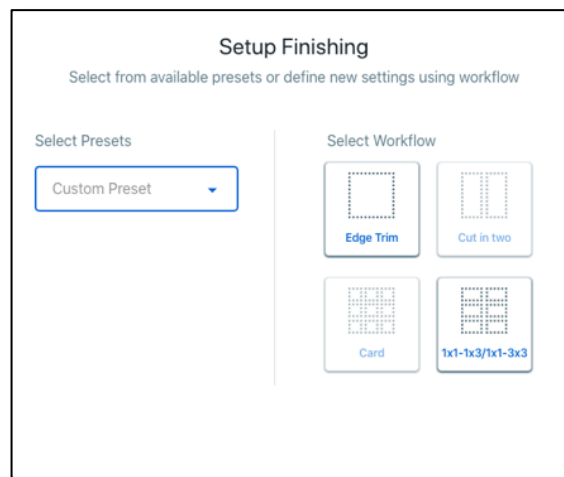
Each of the four units in the TU-510 have their individual tolerances. The EFI Engineers who developed the **Set Up Finisher** application have incorporated all the TU-510 allowable tolerances into the Set Up Finisher application for each of the four trimming/cutting/perforating/creasing stations in the TU-510. **Note:** Future firmware updates for the TU-510 may change these tolerances.

The TU-510 supports four or five different types of cutting ‘Profiles’ depending on whether you create the Trimming Profiles via the AccurioPress Trimmer Profile feature (five) or via the Fiery Command WorkStation (CWS) ‘Set Up Finisher’ application (four). The choices are:

- 1). **Four Edge Trim** (‘Edge Trim’ in CWS);
- 2). **Multiple Cutting** (‘Cut in Two’ in CWS);
- 3). **Card Cutting** (‘Card’ in CWS) for business cards;
- 4). **1x1-3x3 Cutting (CR)** (with Creases); and,
- 5). **1x1-1x3 Cutting (PE)** with Perforations.



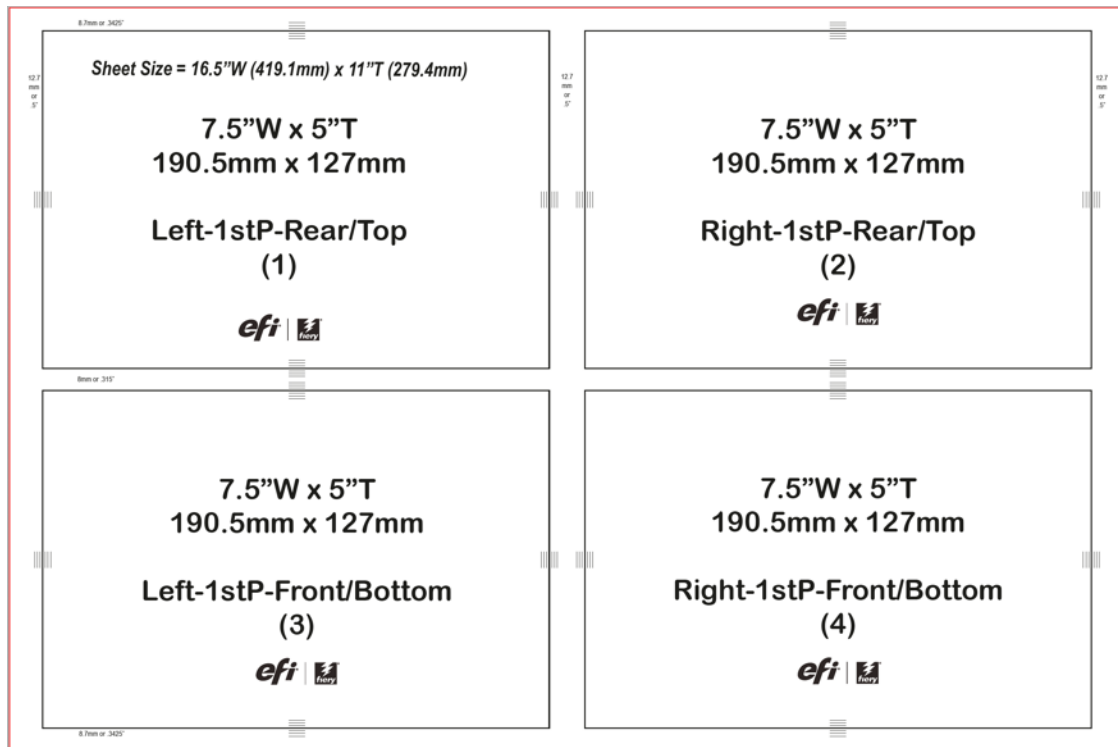
AccurioPress Trimmer Profile Options



Fiery CWS Set Up Finisher Profile Options

For this post card print sample, we are going to use the **1x1-3x3 Cutting (CR)** (CWS=‘1x1-1x3/1x1-3x3’) mode. The first consideration when programming a job to print and cut using the TU-510 is what is the maximum amount of finished size pieces you can print on a supported media size. In this case, we want to print 2x2 or 4UP of the 7.75” x 5.25” full bleed post cards on 11” x 16.5” sheets. We will print and program the job to feed short-edge feed 11” x 16.5” paper into the TU-510 and have the TU-510 eject the post cards to the top exit tray of the TU-510. Normally it would be ideal to use a common paper size of 11” x 17” as the input sheet paper size, but as described above there are inherent ranges of allowable margin slits (0 or 8-26mm) and leading and trailing edge cuts (0 or 5-13mm). In other words, 11” x 17” would not be an allowable sheet size to produce this 4UP project.

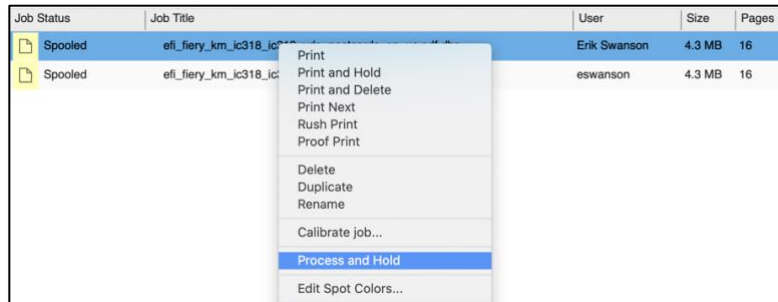
The layout will look like this (this is an Adjustment Template available from EFI):



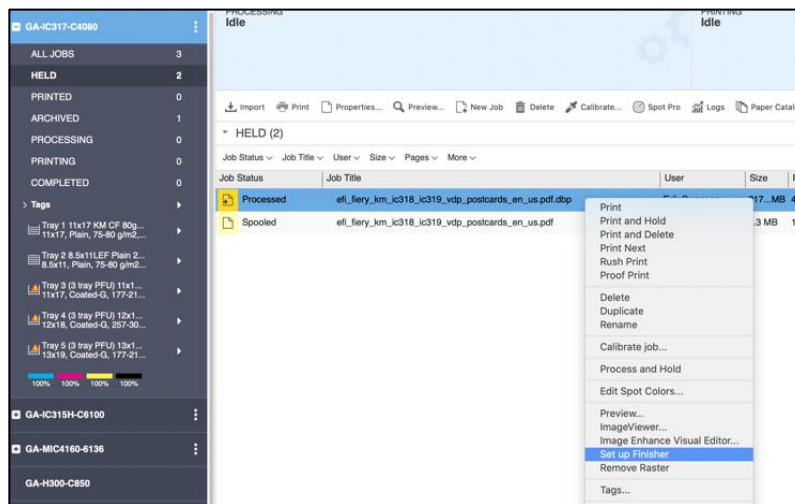
Paper Path through printer

Now that you understand what our objective is let's get started.

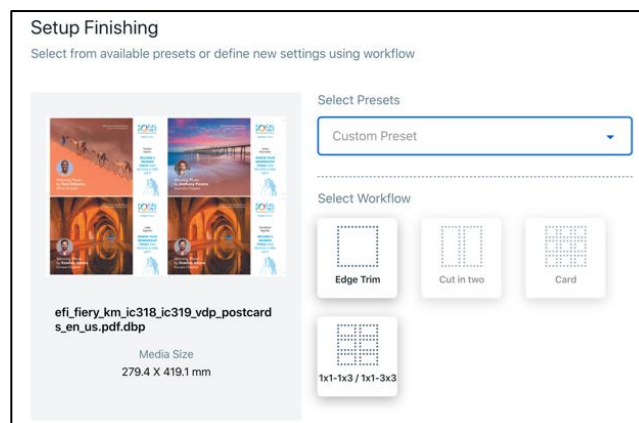
To open the job in the Fiery Finishing Designer application you must **Process and Hold** your job first. Right-click on the job in Command WorkStation and choose **Process and Hold** from the pop-up menu.



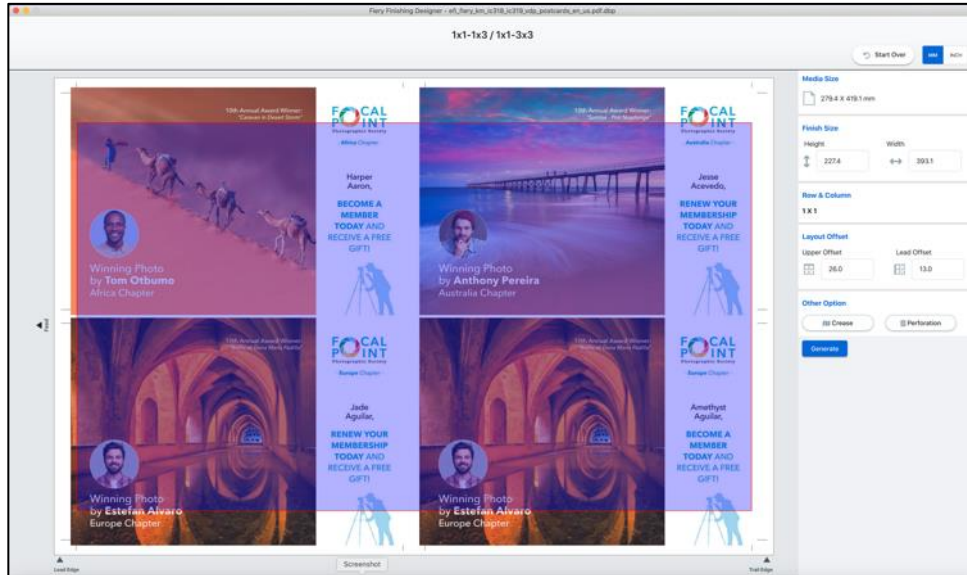
After you **Process and Hold** the job, you will then see a new option when you right-click on the job called **Set up Finisher**. Select **Set up Finisher** to open the job with the Fiery Finishing Designer application that will allow you to create TU-510 Finisher Profiles, and allow you to see the Finisher Profiles applied to your job.



For this example, we are going to create a new trimmer profile. Because the job we are opening is not 12" x 18", our options to create Trimmer Profiles are limited to one of two choices: **Edge Trim** or **1x1-1x3 / 1x1-3x3**. Select the **1x1-1x3 / 1x1-3x3** button.

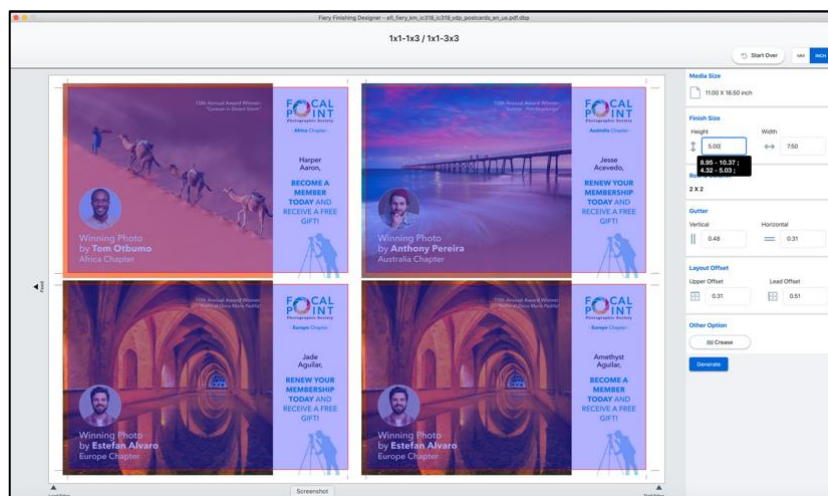


Your job will open in the Setup Finisher programming interface. Today, the application does not import the settings from Fiery Impose so it is important for you to know the relevant dimensions to create the TU-510 Finisher Profile.

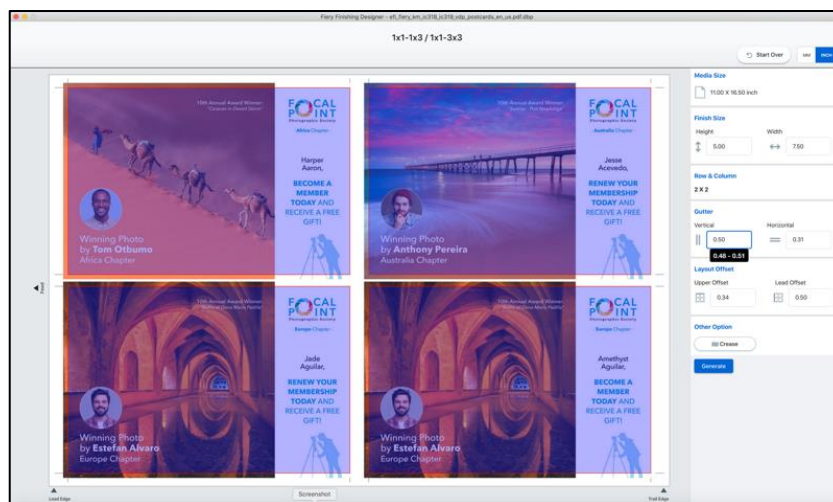


Note: The application opens by applying Metric defaults to the job. If you are more comfortable programming your Trimmer Profile using **Inch** dimensions, then click the **INCH** button in the upper right of the window.

Now we need to start programming using the **Finished Size** dimensions important for the job. Remember, the post card dimensions are 7.5" wide x 5" high, so let's start by entering those values. When you click on a window you will automatically see the dimensions that are within the acceptable range in each window.

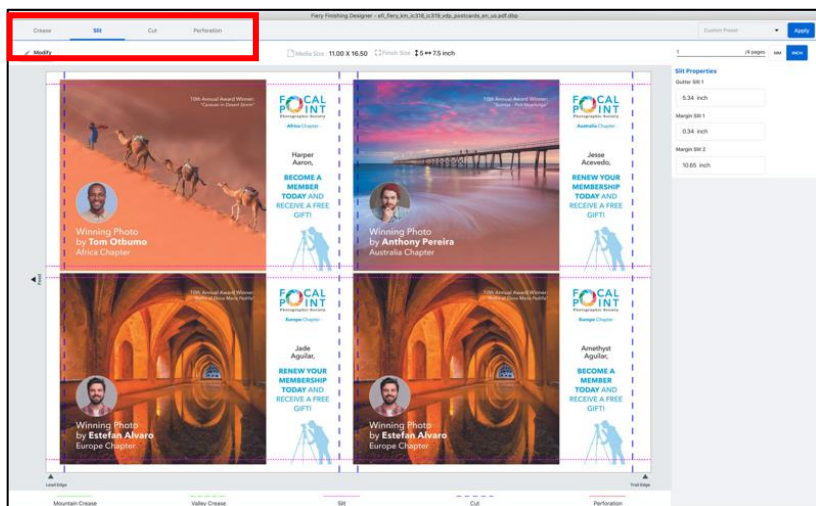


The screen will display red boxes to show how the finished products will be created. We need to finish programming the Gutter and Layout offset values relative to the job. Remember from our Impose settings, the **Vertical Gutter** is **.5"**. The **Horizontal Gutter** is always fixed by the TU-510 at **.315 or 8mm**. The **Lead Offset** value is **.5"** and the **Upper Offset** value is **.3425"**. Again, if you're not sure of these values then you can recover the values from Fiery Impose. Remember when you apply Gutter Slits, using the TU-504 (the third unit), they are always .315" or 8mm.



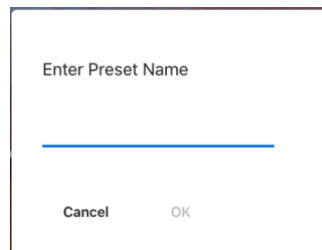
Hopefully what you will see is that the red trim boxes will overlay exactly on top of where you expect the finished pieces to be created. If they do, then click the **Generate** button. If they do not, then make the necessary adjustments.

After clicking on the **Generate** button the Fiery Finishing Designer application will display a legend for the way the Creases, Slits, Cuts and Perforations will impact the printed sheet. There is a legend at the bottom of this windows that explains the different markings displayed on the screen. You can click across the tabs at the top to see how the settings will be applied to your job.



Finally, if the Cuts and Slits display correctly on the screen then click the **Apply** button in the upper right to save the Trimmer Profile to the AccurioPress. The **Enter Preset Name** window will pop-up. This is your opportunity to create a meaningful name for your Trimmer Profile. Below are some recommendations to help promote consistency and transparency with the staff that uses your digital press:

Type of finished product	Dimensions of finished piece	How many per sheet	Sheet size	Example
PCARD	75Wx5T	4UP	11x165	PCARD_75Wx5T_4UP_11x165
BCARD	35Wx2	21UP	12x18	BCARD_35Wx2T_21UP_12x18
FET (Four Edge Trim)	SD51311x18	1	12x18	FET_SD51311x18_12x18
Cn2 (Cut in Two)	FBLTR	2UP	12x18	Cn2_FBLTR_2UP_12x18
TRI (Trifold)	TriFBLTR	1	9x12	FET_TriFBLTR_9x12

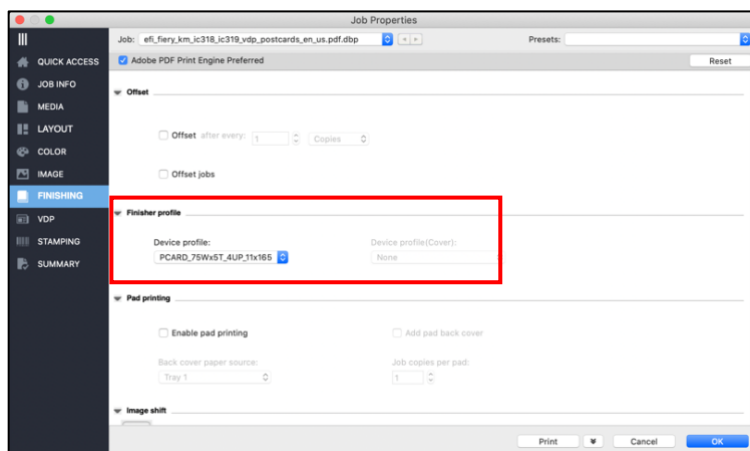


Enter Preset Name

Cancel OK

After entering a preset name, the profile will be written to the printer and automatically assigned to this job and listed in the drop-down window in the upper right of the Fiery Finishing Designer application window. You can now close the application.

After closing the Fiery Finishing Designer application, the next step is to print the job. First, confirm that the TU-510 Trimmer Profile you created is properly applied to the job. Select the job in Command WorkStation and open the Job Properties window. Click on the **FINISHING** tab in the left side of the Job Properties screen and scroll down to the **Finisher Profile** section. You should see your **new** TU-510 Trimmer Profile listed in the drop-down window.

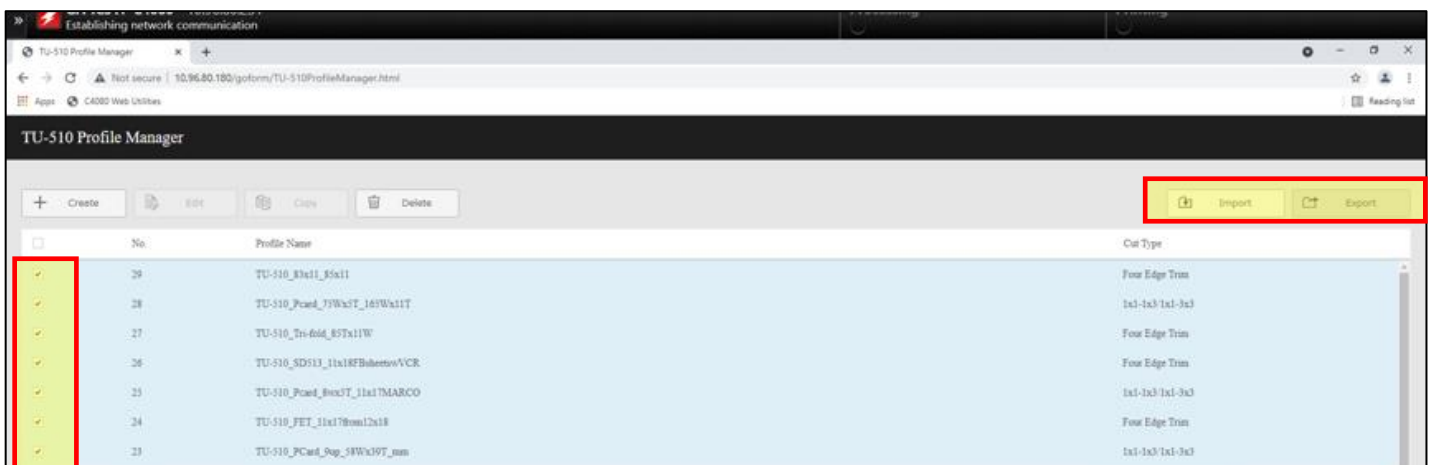


In addition, if you want to automate the process of printing and trimming, the Finisher Profiles can be assigned to **Fiery Presets**, **Fiery Hot Folders** or **Fiery JobFlow** workflows.

Finally, once you have created all of your Finisher Profiles, they can be exported to a CSV file using the Engine Web Utilities – **Finisher Manager – TU-510 Profile Manager** interface. This would require that you configure the Printer NIC and then use the IP address as the URL. Once you hit the landing page of the engine click on **Finisher Manager**.



After selecting the Profile Templates you want to export, by checking the boxes to the left of the TU-510 Profile Names, click the **Export** button. A CSV file will be created that can be imported into the same device (ex. hard drive replacement), or another TU-510.



Note: It is important to acknowledge that settings may result in an imperfect result. You should consult with the service team that services your printer to learn how to make **Finisher Adjustments** (global for the four cut modes) or how to make **Paper Catalog – TU Offset Profile** adjustments (media specific adjustments for specific Trimmer Profiles).

Microsoft Excel interface showing a spreadsheet titled "Profile.xlsx (1)". The spreadsheet displays a table with columns labeled A1 through Z1, representing various features or attributes. The table contains data for multiple rows, with the first row labeled "ITHRIM_PROFILE" and the second row labeled "ITHRIM_PROFILE_1". The data is organized into groups of columns, each with a header row. The first group of columns is labeled "ITHRIM_PROFILE" and the second group is labeled "ITHRIM_PROFILE_1". The data is organized into groups of columns, each with a header row. The first group of columns is labeled "ITHRIM_PROFILE" and the second group is labeled "ITHRIM_PROFILE_1".

This completes the setup.

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