

When working with custom media (meaning non-hp branded media) you maybe wondering how to properly use it in your HP Designjet Z2100 and Z3100 Photo Printer series.

As there are many different papers from different brands available in the market, the best is to know what is behind of your selections when following the process to create a "custom paper".

As you know, you can add or modify papers through **the HP Color Center** (part of the HP Easy Printer Care –Windows- or HP Printer Utility – Mac -).

Configuration Settings Create and Install ICC Profile Create and Install ICC Profile Create and Install a new ICC profile for the best color result applications with your paper. Printer Usage HP Color Center Calibrate Your Printer Calibrate Your Display	s printing from
<ul> <li>Printer Status</li> <li>Job Accounting</li> <li>Printer Usage</li> <li>HP Color Center</li> <li>Calibrate Your Printer</li> <li>Calibrate Your Display</li> </ul>	s printing from
<ul> <li>job Accounting</li> <li>applications with your paper.</li> <li>Printer Usage</li> <li>HP Color Center</li> <li>Calibrate Your Printer</li> <li>Calibrate Your Display</li> </ul>	
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HP Color Center	
Calibrate Your Printer	
Calibrate Your Display	
Create and Install ICC Profile Create	
Install ICC Profile	
🥂 Manage Papers	
HP Printing	
Printer Name: HP Designjet Z3100 44in Photo	

Screenshot from Windows XP version – HP Print Utility



Screenshot for Windows XP version - HP Easy Printer Care

Creating a custom paper type is a very easy and straightforward process. In a nutshell follow the next steps:

1. Go and select "Create and Install ICC profile". In there, you will find the following options



Screenshot from HP Print Utility - MAC OS X version

- 2. Then, press "Add New Paper". You can also work with an already created paper by choosing "Current Papers". In that case, you won't be able to change the name next step and you should jump to step #4
- 3. Next step will be to give a name for your paper (which will appear both in the driver and in the front panel) and to select a paper category which is related to your paper type.

	Add Custom Pa	aper	
<ul> <li>Select Paper</li> <li>Add Custom Paper</li> <li>Select Action</li> <li>Choose ICC Profile Settings</li> <li>Calibrate Your Printer (~10 min)</li> <li>Create ICC Profile (~20 min)</li> <li>Install ICC Profile</li> <li>Finished</li> </ul>	Enter the name a Continue to add Paper Name: Paper Type:	and select the type of the new cus the new custom paper to the list Special Instant-Dry Photo G Photo Closs Paper	stom paper. Click of custom papers. loss
	?	Cancel Go B	ack Continue

Screenshot from HP Print Utility - MAC OS X version

- 4. Next step is **selecting the according Paper Preset**, which **is the most important step**, since, in doing so; you are in fact determining a number of basic printing parameters for printer-paper interaction. Among others, they are Ink limiting, Maximum density and linearity goals for each in and Carriage height and others
- 5. Next steps it will perform color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) that ensures the best possible output quality.

6. The HP Color Center will automatically install the profile in the computer that launches the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. Process is finished

## Selecting the right Paper Preset that best matches your needs

As you have seen, the key step is to select the most appropriate paper type that matches your needs/your custom paper. In general the paper category to use will be easily identified, but some experimentation may be necessary to obtain the best possible result. To help you to choose the right category we have assembled the following tables.

Paper Type	Name that appears in driver & front panel (English version). Some of these papers								
ruper type	are available through "Custom Paper", others through "Add new paper"								
Glass Enhancer	Yes (Y)/ No(N): Whether HP Gloss Enhancer can be used or not(Glossy & Semi-								
	gloss/satin finishing)								
Borderless	Yes (Y)/ No(N): Whether you can print on without margins								
	High (H)/Low (L): Carriage height has 2 positions. It is recommended that for								
Carriage Height	paper weights over 250gr, you select a paper type with "High" to avoid print								
	head crashed with paper								
	Photo Black (P)/ Matte Black (M)/ HP Quad-black (Q): Let you know which inks								
Printing Black	are used when printing black. It could be the photo black + grays inks, matte								
	black + grays inks or the whole HP Quad-black system								
	Total amount of ink that the papers can absorb without image quality problems.								
I.a.I.a. I.S	Expressed in pico-liters (or nano-grams) per 1/600 <sup>th</sup> x 1/600 <sup>th</sup> inch paper area								
	(divide by 4 for 1/	1200 <sup>th</sup> by 1/1200 <sup>th</sup> inch area). As higher the number as							
	higher gamut.								
	Rendering	At which resolution the image is rasterized/processed (in							
	resolution (RR)	pixels per printed inch, or <i>pppi</i> )							
Print mode	Printing Resolution	At which resolution the image is printed (in dots per inch, or							
	(PR)	dpi)							
Best Quality <sup>1</sup> or	<del>_</del>	Higher number of passes typically give better IQ but at less							
olider in the right	O # passes	speed. Also, papers like glossies that need more dry time will							
	of	in general require a higher number of passes.							
position	.=	Whether printing from right to left only (Unidirectional) or							
	🛓 Bidirectional	also left to right (Bi-directional). Unidirectional modes							
	0	typically give better IQ but at less speed.							
Automatic Cuttor	Yes (Y) / No (N):	When cutting is going to be performed. Even if Yes, the user							
Automatic Coner	can still disable actual cutting through driver, but not the other way around.								

<sup>&</sup>lt;sup>1</sup> For further information on print modes apart of Best quality, please refer to document "Print Modes for information HP Designjet Z3100" that you can find at HP Knowledge Center

	<b>Paper Type</b> (Generic name or HP name)		Borderless arriage Height		inting Black	Ink Limiting	Print Mode (Best)			
		9	Γ	Ů	P	Γ	RR	PR	OI	
Photo Paper	HP Premium Instant-Dry Photo Gloss	Y	Y	L	Р	46			16ps Bidi	Y
	HP Premium Instant-Dry Photo Satin	Y	Y	L	Р	46				Y
	HP Professional Satin Photo Paper	Y	Y	L	Р	46				Y
	HP Photo Matte	Ν	Ν	Н	М	30	600	1200x1200		Y
	Photo Gloss Paper	Y	Y	L	Р	36				Y
	Photo Semi-gloss/Satin paper	Y	Y	L	Р	36				Y
	Glossy Paper High Ink Capacity	Y	Y	L	Р	46				Y
	Photo Matte Paper	Ν	Ν	Η	М	30				Y
Proofing Paper	HP Professional High-Gloss Contract Proofing paper	Y	Y	L	Р	46	_		8ps Uni	Y
	HP Professional Semi-Gloss Contract Proofing paper	Y	Y	L	Р	46		1200×1200		Y
	HP Proofing Matte	Ν	Ν	Н	М	30	400			Υ
	Proofing gloss paper	Y	Y	Н	Р	36	- 600			Y
	Proofing Semi-Gloss/Satin Paper	Y	Y	Н	Р	36				Υ
	Glossy Paper High Ink Capacity <sup>2</sup>	Y	Y	L	Р	46				Y
	Proofing Matte Paper	Ν	Ν	Н	М	30				Y

<sup>&</sup>lt;sup>2</sup> New Paper type since firmware 4.2.0.2. You can download it from HP Knowledge Center

	<b>Paper Type</b> (Generic name or HP official name)	Gloss Enhancer	Borderless	Carriage Height	Black Usage	Ink Limiting	Print Mode (Best)		de Ol	Auto cutter
Fine Art paper	HP Collector Satin Canvas	Ν	Ν	Н	М	30	NN	IK	16ps Bidi	N
	HP Professional Matte Canvas	Ν	Ν	Н	М	42		1200x 1200		Ν
	HP Artists Matte Canvas	Ν	Ν	Н	М	42	600			Ν
	HP Hahnemühle Smooth Fine Art	Ν	Ν	Н	М	42				Y
	HP Matte Litho-Realistic paper	Ν	Ν	Н	М	42				Y
	HP Hahnemühle Textured Fine Art	Ν	Ν	Н	М	42				Y
	Canvas	Ν	Ν	Н	М	42				Ν
	Fine Art paper	Ν	Ν	Н	М	42				Y
	Fine Art paper >250 g/m <sup>2</sup>	Ν	Ν	Н	Q	60				Y
	Fine Art Media Pearl <sup>3</sup>	Y	Y	Н	Р	46				Y
Coated	Super Heavyweight Coated <sup>4</sup>	Ν	Ν	Н	Р	48		- - - - - -	8ps	Y
	Heavyweight Coated	Ν	Ν	Н	М	30	600	1200x		Y
	Coated	Ν	Ν	Н	М	22	000	1200	Uni	Y
	Plain	Ν	Ν	Н	М	20				Y

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<sup>&</sup>lt;sup>3</sup> New paper type since firmware 4.2.0.2. You can download it from HP Knowledge Center

<sup>&</sup>lt;sup>4</sup> From firmware version 4.2.0.2 we apply Photo black. Before that version, we used Matte black