

# HP Latex 500 series Printers: Tips and Tricks when printing on cellulose-based media

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## Scope of this document

Papers are hygroscopic materials. They can absorb or lose moisture depending on external humidity conditions. This can affect how the media behaves during printing. In this document you will find some tips & tricks to be able to print successfully on these types of media.

### Note:

- This document does not refer to all papers, but only to those that are cellulose based
- Non-woven or PVC based Wallpapers are not covered in this document

## About Cellulose-based media

Certain papers are greatly affected by temperature & humidity, as well as the storage method. Therefore, many media vendors recommend specific storage and printing conditions, as well as applying front tension to the media.

## Tips & Tricks for printing on the HP Latex 500 series

The 3<sup>rd</sup> generation of Latex can print on a wide variety of media, including papers. However, the lack of drying in the print zone can make printing a bit trickier since the water content in the ink is not fully evaporated until the curing area. However, following the recommendations below, you should be able to print successfully on papers:

### 1. HP Latex Certified media

Always check the media locator or the online search for media that have been **Certified for Latex printers**:

## SUBSTRATES

All Items (1689)

Media Name	Supplier	Classification
Jet 550	Dickson Coatings	Certified
MPI 2001	Avery Dennison	Certified
SBL-7 Universal Backlit Film	InteliCoat Technologies	Profiled only
IQ-IJ420 TruColor Flag	3P	Profiled only

- **Certified:** Certified compatibility with specified HP Latex printers and inks. Certified media testing is based on key areas such as print quality, printer-media interaction, and image processing and handling.
- **Profiled Only:** Material with a media preset available that is not Certified by HP.

In the media locator you can also find recommendations for specific media in the **Notes** section:

PrintOS  
Media Locator

Quick access  
Media locator

SUBSTRATES

Displaying media for HP Latex printers. Switch Print Equipment

All Items

Sort By: Type

Customize filter (18)

Classification	Supplier	Media Name	Type	Sub-type	Applications	Weight	Available widths	Notes
Profiled	Induman	Offset Paper 100g	Paper	Coated for waterbased and solvent inks	Building wraps , Display ...		76cm(30) 91cm(36) 107cm(42) 127cm(50) 137cm(54) 152cm(60) 181cm(71)	
Profiled	Sihl	3686 TriGolv PrimeArt Paper 200	Paper	Indoor	Displays , Billboards , W...			
Profiled Only	Ahlstrom	Chantaffiche 200 JE PET	Paper	Coated for waterbased and solvent inks	Displays , Posters , Ligh...		152cm(60) 204cm(81)	
Profiled	Felix Schoeller Digital Media	H99230 SLP in Satin 180	Paper	Indoor	Posters , Pop-up/Roll-up ...	180 g/m2	137cm(54)	
Profiled	Sihl	3686 TriGolv PostArt Paper satin 135	Paper	Outdoor Poster paper	Outdoor banners , Posters ...		61cm(24) 91cm(36) 107cm(42) 127cm(50) 137cm(54) 152cm(60)	
Profiled	Ahlstrom	Chantaffiche 200 JE	Paper	Coated paper for waterbased and solvent inks	Posters , General Commec...			
HP	HP	HP Blue Back Billboard Paper	Paper	Outdoor Wet Strength paper	POP and retail displays ...	123 g/m²	137cm(54) 180cm(69)	
HP	HP	HP Premium Poster Paper	Paper	Indoor Poster paper	Trade show and event disp...	200 g/m² per ISO 535 Test...	91cm(36) 137cm(54) 152cm(60)	
HP	HP	HP Super Heavyweight Plus Matte Paper	Paper	Indoor Poster paper	Trade show and event disp...	210 g/m² per ISO 535 Test...	36" 42" 54" 60"	
HP	HP	HP Universal Heavyweight Coated Paper	Paper	Bond / Technical paper	POP and retail displays ...	131 g/m2 per ISO 535 Tes...	24, 36 in, 42 in, 60 in	

m (197")

Take Up Reel mandatory for HP Latex 300 series and HP Latex 500 se

For example in this media it is recommended to use the Take-Up reel.

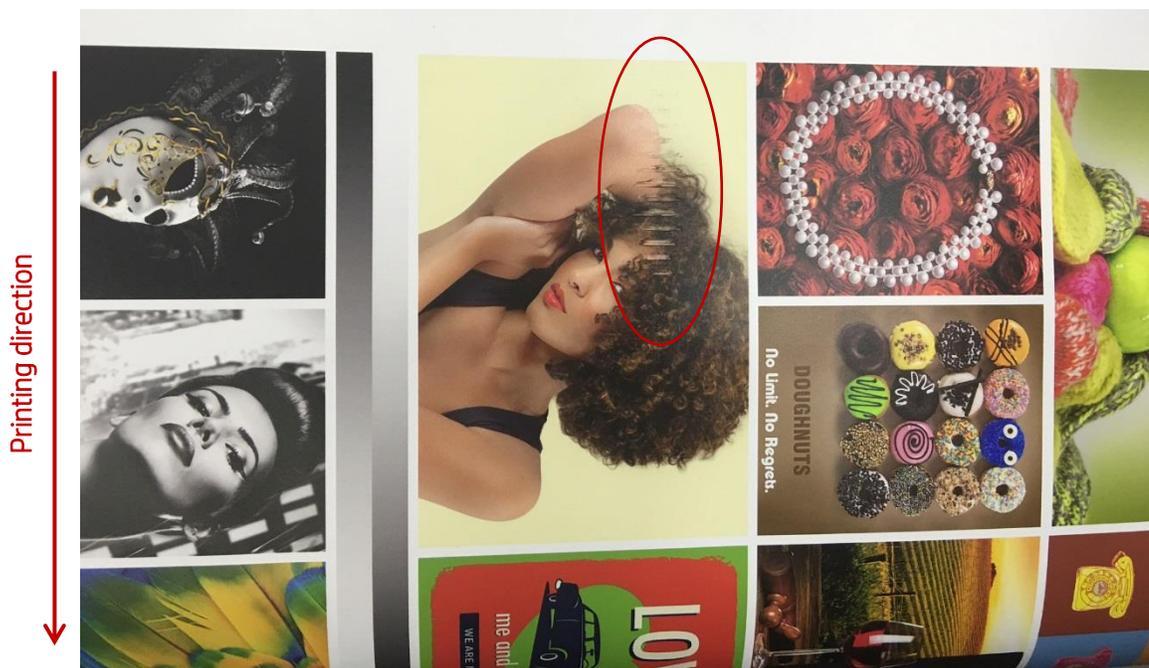
## 2. Control Relative humidity

A low level of substrate's moisture and external relative humidity is always recommended when printing on cellulose-based materials.

Although printer recommendations for best IQ are between 40% and 60% RH (relative humidity), for cellulose-based media, the recommended external RH (relative humidity) is between **25% and 50%**.

## 3. Use Take-Up reel to apply front tension

Smears and crashes on some papers (mainly thick and rigid media) can occur in the curing module, when not using the Take-Up reel:



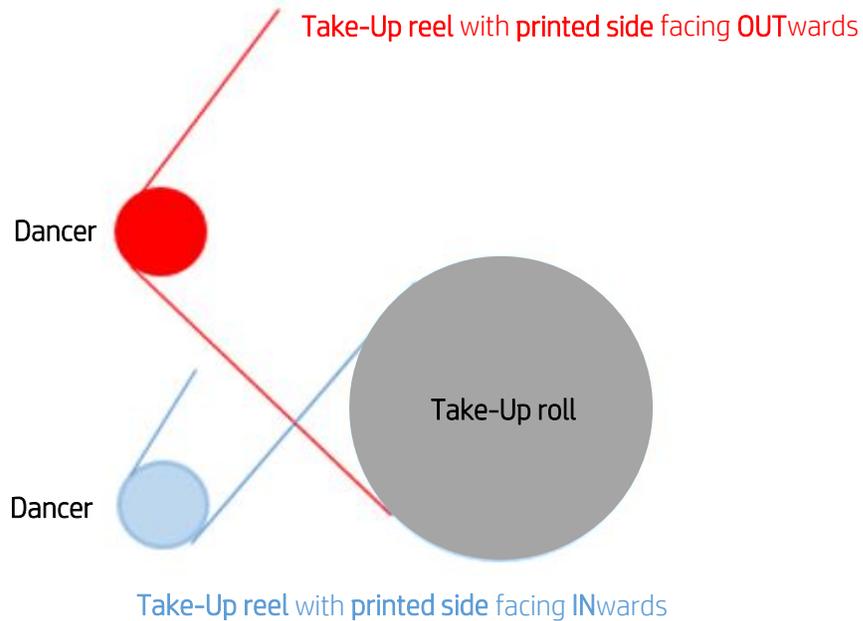
If you are experiencing smears or crashes due to humidity conditions try to use the Take-Up reel to apply front tension and control the media.

Please check the technical notes in the Media locator for recommendations for each specific media.

## 4. How to apply different front tensions?

Different front tension can be applied playing with the dancer positions:

- Using the take-up reel with the printed side outward, will provide more front tension
- Using the take-up reel with the printed side inward, will provide less front tension



## 5. Advance media at the beginning of the plot

In some very specific cases, where the media is extremely rigid (HP Premium Poster like), the behavior can be worse using the Take-Up reel.

In this case it is recommended to advance the media before starting to print until it is hanging outside of the curing module. Do not connect the Take-Up reel in these specific cases.

Please check the technical notes in the Media locator for recommendations for each specific media.