Equipment

Product Information

Prinect Automatic Paper Stretch Compensation 2021.10

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Content

Summary

Version 2021.10 – More possibilities for easy compensation

- Library of standard curves for paper enlarged: Compensate XL75 sheets, as well as front and back sheets with 3 clicks. See chapter 1.1.
- Adaptation of standard curves with more possibilities: Adapt individually (i.e. only 1 printing unit) or automatically (using measuring results). See chapter 1.2.

Prinect Automatic Paper Stretch Compensation

1. The Latest Features for Users in Prinect APSC 2021.10

1.1. Additional Standard Curves for Compensation by 3 clicks

Some more standard curves for paper were added to Prinect APSC – available as of version Prinect 2021.10:

- For printing on front and back
- For XL 75

Image: Test prints with varying characteristics for generating additional standard curves.

New standard curves guarantee comfortable use of compensation - compared to the effort which has to be done to generate print shop specific characteristic curves.

- If Prinect Production Manager is used in prepress for generating TIFF-B files the standard curves can be used by 3 clicks.
- If the prepress workflow is a 3rd party workflow (i.e. Esko or Kodak) then first Prinect APSC standalone has to be installed using hotfolders. After this step the standard curves can be used with only 3 more steps.

Benefits:

→ Quick apply – standard curves are ready to use after 3 clicks

→ Register accuracy will be at least 50% better than without compensation

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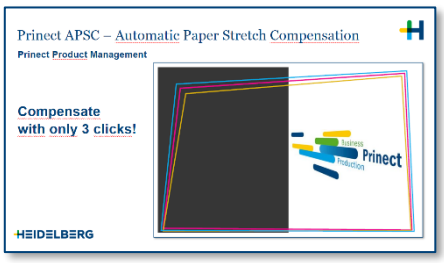
Conditions: Can be used for

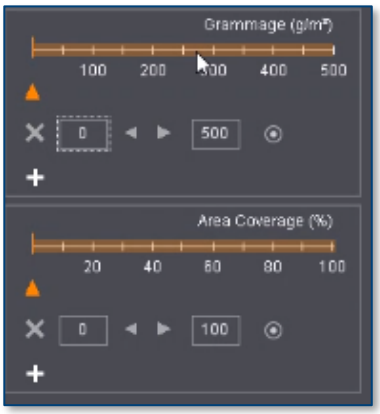
- Presses **XL75,** XL 106, CX 102, SX 102
- With print sequence BCMY (+ subsequent spot colors)
- Standard curves available for coated **paper (!)**, front **and back**, both grain directions, all ink coverages

The video (English / German) and the corresponding product presentation (English / German) show the benefits of compensating with 3 clicks. Please find also a training video for using standard curves (English / German).



1.2. Improved User Dialogue for Adaptation of Characteristic Curves

Let's assume you print using the standard compensation curve and you realize that for a certain grammage the results could be better. Then you can simply start adapting this standard curve:



a) Simple entry to curve adaptation
Choose grammage as the first characteristic for adaptation. In the user dialogue then draw the red contour lines of the sheet to the desired position. (The range of area coverage can be chosen later if necessary.)

Image: Start of curve adaptation using the paper grammage as characteristics.

b) Expert mode for adaptation
If you do not want to only correct in the graphical mode you can insert deviation values as seen on the sheet. The correction is done by + - buttons for some or all of the 9 possible areas (by contrast the above mentioned simple mode offers only to adapt the 4 corners of the sheet). Corrections can be inserted for each mark and each color and therefore be very detailed.

Image: The expert mode lets the user adapt the curve by help of x and y deviations for up to 9 places on the sheet.

c) Better choice for application of the just input adaptation
Decide whether and how the input values for the curve adaptation of the chosen printing unit should be applied to the other units:

- New: Adapt **only one** printing unit (e.g. only Cyan)
- Take over same values for all printing units
- Adapt printing unit 4 and spread (decreasing) values on preceding units

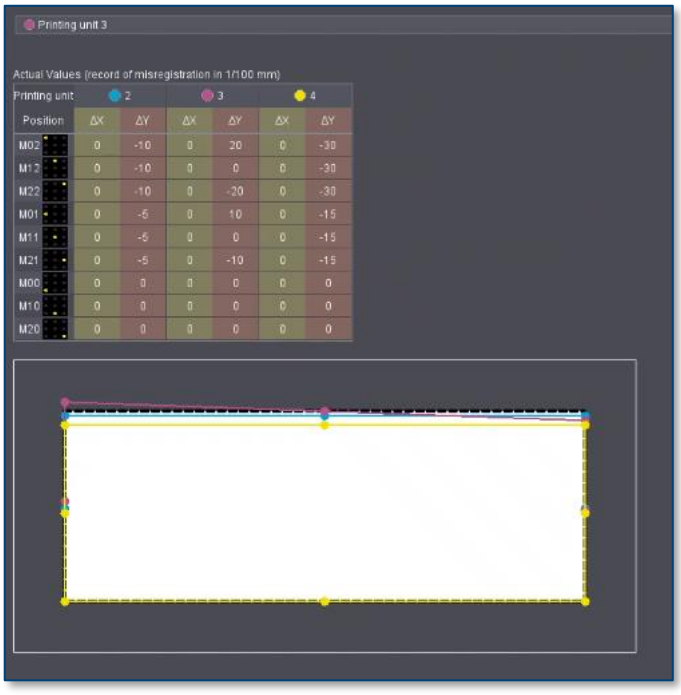
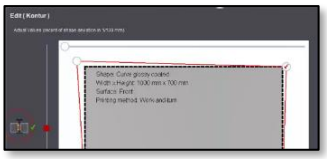


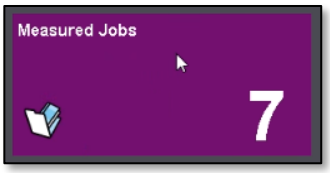
Image: New choice: The curve is only adapted for one printing unit – in this case for Magenta in printing unit 3

d) Production jobs can be used to improve curves

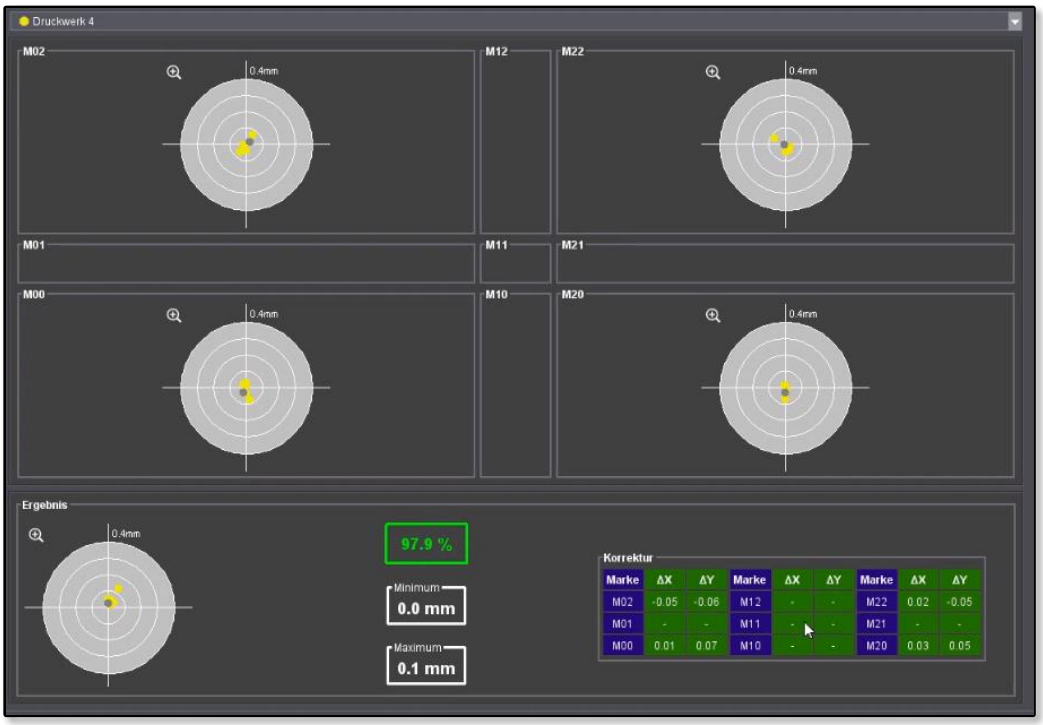
Adaptation of standard curves can be done graphically by drawing the contour of the sheet in the graphic of the user dialogue. This is already known since version 2021.0.



Version 2021.10 offers an additional and smooth way. Recorded measuring results of produced jobs can be used to adapt curves instead of manually inserted deviations: Simply measure one or more jobs which base on the same compensation curve. The measuring results are stored automatically and permanently in Prinect APSC. The results can be used to recalculate compensation curves by only 2 clicks in order to improve the curve.



(More details to be seen in Prinect Lounge Online Help EN integrated / EN standalone / DE integrated / DE standalone).



The quality of the curve is shown by the quality figure. The color of the quality figure represents how good the curve matches the requirements for register accuracy (green, yellow, red). Red quality figures indicate that the curve should be divided in several areas for grammage or ink coverage and only measuring results of similar jobs of this area should be used. Each area of the curve then can be adapted in the same simple and automatic manner.

Image above: The dots show the register deviations for yellow measured in the 4 corners of the sheet. These measurements are added by 2 clicks to an existing compensation curve improving it.

Images: The quality figure helps deciding whether the measurings can improve the curve (above: green) or not (right: red).

Benefits:

→ Adaptation of curves made easy for better compensation results!
→ New possibility of correction of only one dedicated printing unit – for adequate use cases.
→ Choice between simple adaptation by drawing contour lines or expert mode with use of measured jobs for improving curves
→ Quality figure: Prinect APSC recommends whether an improvement of the curve can be achieved or not.

1.3. Easier Creation of Mark Profile with New Prinect APSC Mark “Universal”

A mark profile is needed when measuring with a USB microscope camera. It contains data about where the measure points of the mark are located and which color value they have.
The new mark “Universal” economizes picking the colors and merging them with the scheme. Picking is no longer necessary because Prinect APSC catches the dots in the picture as grey scale values and assigns them to the scheme of the mark.
You need no longer create different mark profiles for different color combinations. This universal mark works for all mark profiles for one camera no matter which colors are used.

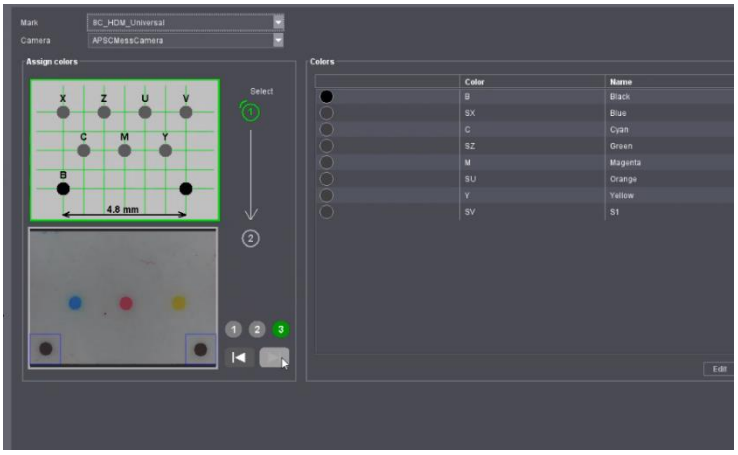


Image: Form of the Universal mark. Prinect APSC automatically fills in the colors – taken by the camera on the register mark - to the dot positions on the mark profile.

Benefits:

→ One single mark profile (“Universal”) can be used for all measurings – independent of which colors are used.
→ The dialogue is easier to operate and therefore quicker and safer.

1.4. Support of Asiatic Fonts

Prinect APSC now supports Asiatic Fonts. It can read Unicode and therefore identify color names written with Asiatic fonts.

Image: Japanese letters (like other Asiatic Fonts) being part of the job name now can be read by Prinect APSC.