SCREEN

Idealliance®

SCREEN Truepress Jet520HD+

SCREEN EQUIOS

Note: Certification is in accordance with Idealliance Digital Press Certification Program v2.3 (Increment version number as necessary)

The Idealliance Print Properties Digital Print Working Group has established a certification process for digital production presses (xerographic/inkjet). The following information is intended to assist printers and customers in understanding the printing conditions and how they were achieved and/or to replicate these results on a similar system.

I. Manufacturer

SCREEN Graphic Solutions Co., Ltd.

Tenjinkita-machi 1-1, Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto

II. Product Name

Print engine model: Truepress Jet520HD+

Ink: Truepress Ink SC+

DFE: EQUIOS Version 3.50

Substrate details: BILLERUD STERLING ULTRA WEB Gloss Offset Text 100 148gsm.

III. Overview

The Truepress Jet520HD series delivers outstanding expressive power rivaling offset printing with Max. 1,200 × 1,200 dpi resolution. This includes the speed and reliability to easily handle high-volume needs. Media width Max. 20.4"(520mm), Media thickness is up to 157gsm at a speed of 150mpm, and Max. Printing Speed is 492fpm(150mpm) with option. The EQUIOS is the workflow automation system built into input file normalization, Imposition, Ripping, and integrated Job management for the transaction, commercial, and publish printing market.

IV. System Components and Printing Procedure

1. Load the Substrate onto the Truepress Jet520HD+.

2. Set up the necessary printing conditions following the instruction manual distributed by SCREEN.
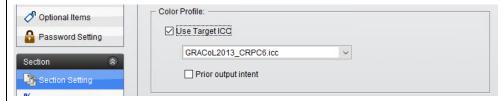
   Details of printing conditions are below:

   2-1. Print Head Nozzle check (Optimize the jetting of each print head)

   2-2. Print Head Alignment (Optimize the position between print heads)

   2-3. Print Head Uniformity Alignment (Optimize the color density between print heads)

   2-4. Print Density Adjustment (Set the Target color density and create an original Linearize curve using the SCREEN Linearize tool)

3. In Profile Setting step, set "AIA (Advanced Ink Amount*)" to 140 and print the "ICC Profile chart" on the DFE.

Advanced Ink Amount (AIA) is a unique technology developed by SCREEN.

4. Generate the Printer Profile with the i1Profiler.

4-1. Set the i1Profiler mode to "Advanced".

4-2. Select" CMYK printer" at Device selection and press "Profiling".

4-3. In the "measurement tab", select the reference data that matches the printed "ICC profile" chart (Step 3).

4-4. Measure results using i1 io3 with i1Pro3 spectrophotometer.

4-5. In the "Profile Setting", set "Total Ink Coverage" to 330.

4-6. Input Profile name, create and save the printer profile in ICM format.

5. Register the created printer profile in DFE using the EQUIOS media management tool.

6. Input the print image data and link it with the created "Printer Profile".

Specify the target color profile as GRACoL2013 CRPC6.

7. Create the print image by ripping the Test charts and print them on Truepress Jet520HD+.

Advanced Ink Amount (AIA): Unique technology developed by SCREEN for the printing ink amount control including color management capabilities. Provide the suitable ink amount for the Truepress Jet520HD Series and achieve maximum color gamut of the Truepress Ink SC+. It can achieve vivid color shade, in addition to it, avoiding the excessive ink jetting and then make the very good shadow tone reproduction possible.

V. Finishing Procedures (Optional)

Roll to sheet cut for testing.

VI. Additional Data (Optional)

N/A