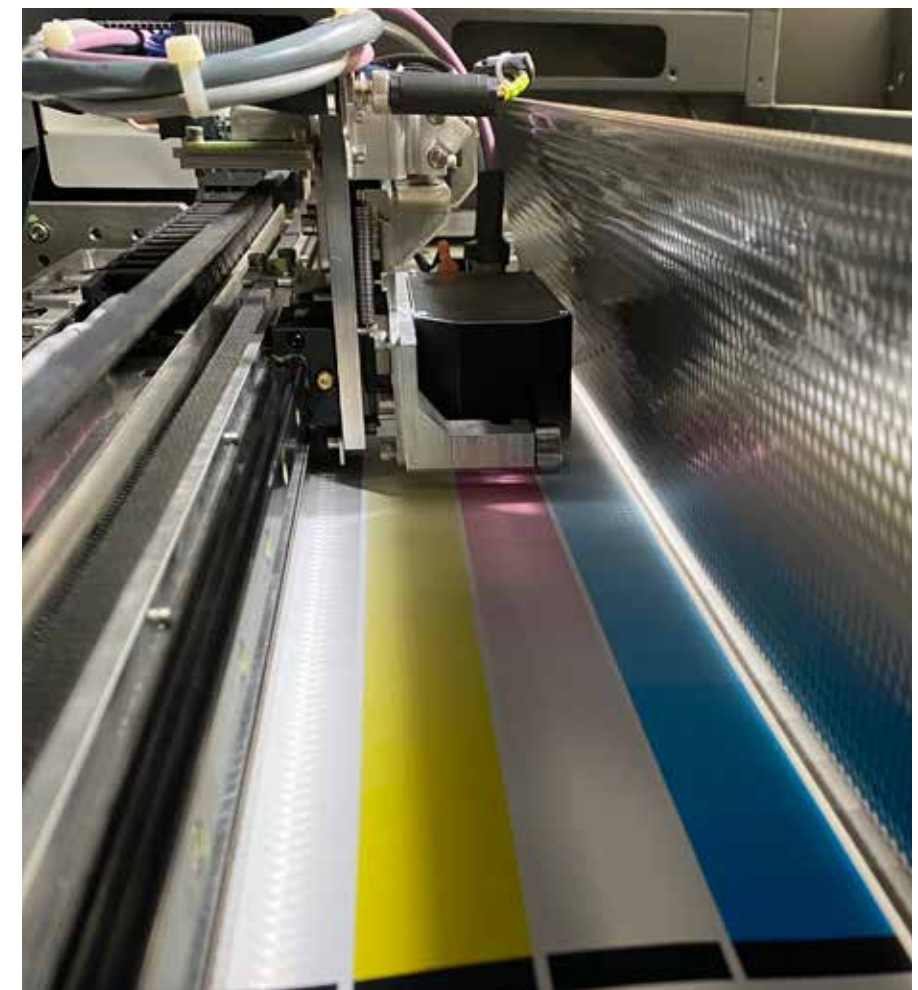
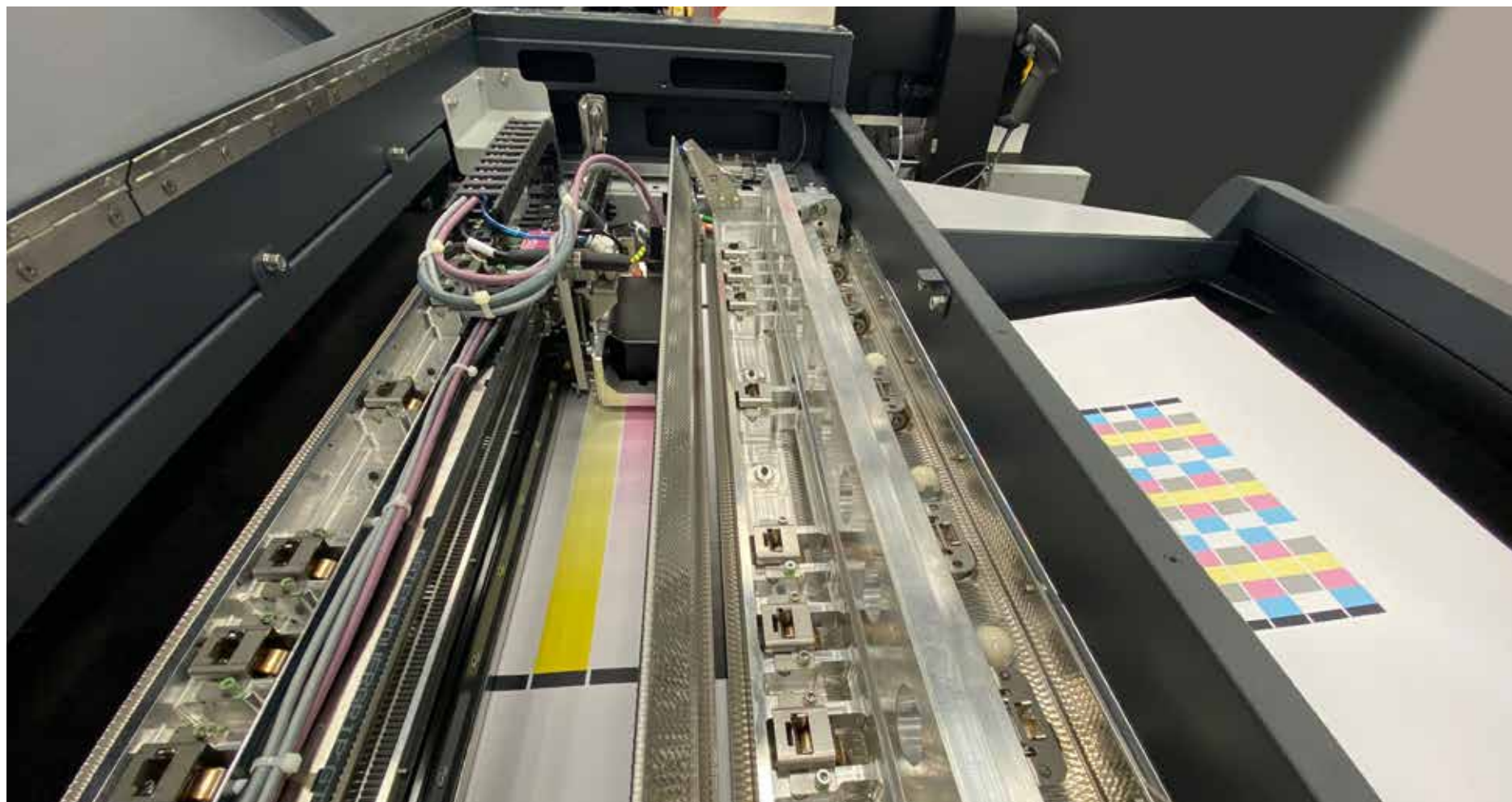


# HP INDIGO 100K DIGITAL PRESS AUTOMATED COLOR MEASUREMENT SYSTEM



The HP Indigo 100K Digital Press' automated color measurement system effectively eliminates valuable color calibration time and boosts press utilization by printing in parallel to calibrating. It employs an advanced color calibration system that monitors and auto corrects color on-the-fly while printing non-stop, and assures accurate and consistent color across all prints, sheet-to-sheet, job-to-job, press-to-press, day-to-day. Matching offset colors, while complying with industry color standards, is achieved easily with the HP Indigo 100K Digital Press' set of automated color tools.



## TECHNICAL DESCRIPTION

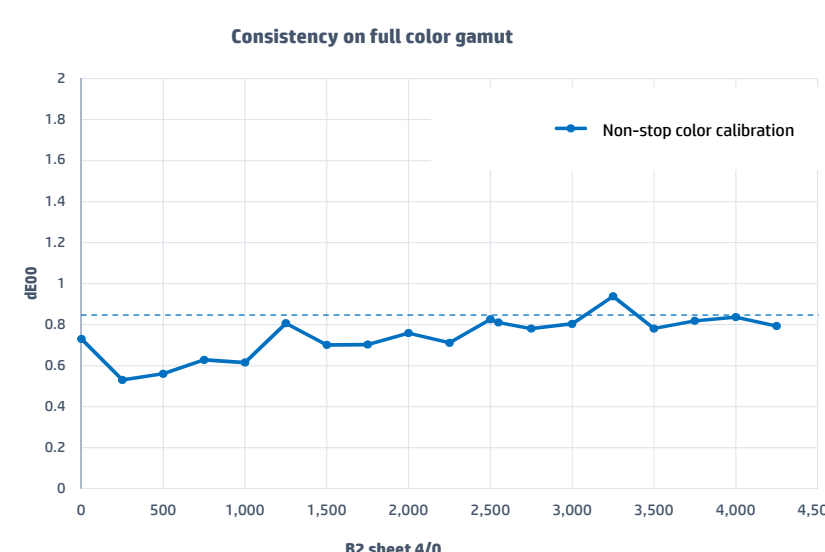
### Color measurement system

- The color measurement system uses a built-in X-Rite ILS18 spectrophotometer to obtain color data derived from patches printed on a sheet and delivered to the measurement module. The ILS18 spectrophotometer supports M0, M1 and M2 measurement modes enabling compliance to the latest color standards.
- The new design of the color measurement system combines coverage of the full format of the B2 sheet along with squeezing up to 810 small patches ordered in stripes to reduce paper waste.
- The spectrophotometer scans all patches and sends back spectral data to the calibration algorithms, based on the specific color calibration type required.



### Non-stop color calibration in parallel to printing

- The HP Indigo100K color measurement system allows measuring and calibrating color in parallel to printing. The press prints a given job while calibrating the next one, thus saving precious time and boosting system utilization.
- The parallel technology enables non-stop color calibration process (that is, frequent calibrations in small steps). The system sends a color tracking sheet full of patches to the measurement system every 1500 impressions, while continuously printing. The spectral data is then measured and analyzed, and small corrections are immediately implemented to the printing process. This assures perfect color consistency along the run.



### Offset color matching

- Matching color to offset is simple and automatic. A Media Fingerprint (MFP) file is created per substrate. This data is saved in the Digital Front End (DFE) which automatically generates an emulation to standard device link using the MFP data to create an output profile and the selected offset standard (e.g. Fogra, GRACoL, the Japan color standard) as an input profile. From that point the press is setup to print according to the selected standard.
- This method can be implemented to match color between different presses to assure perfect press-to-press color consistency.