

Inline ColorPilot

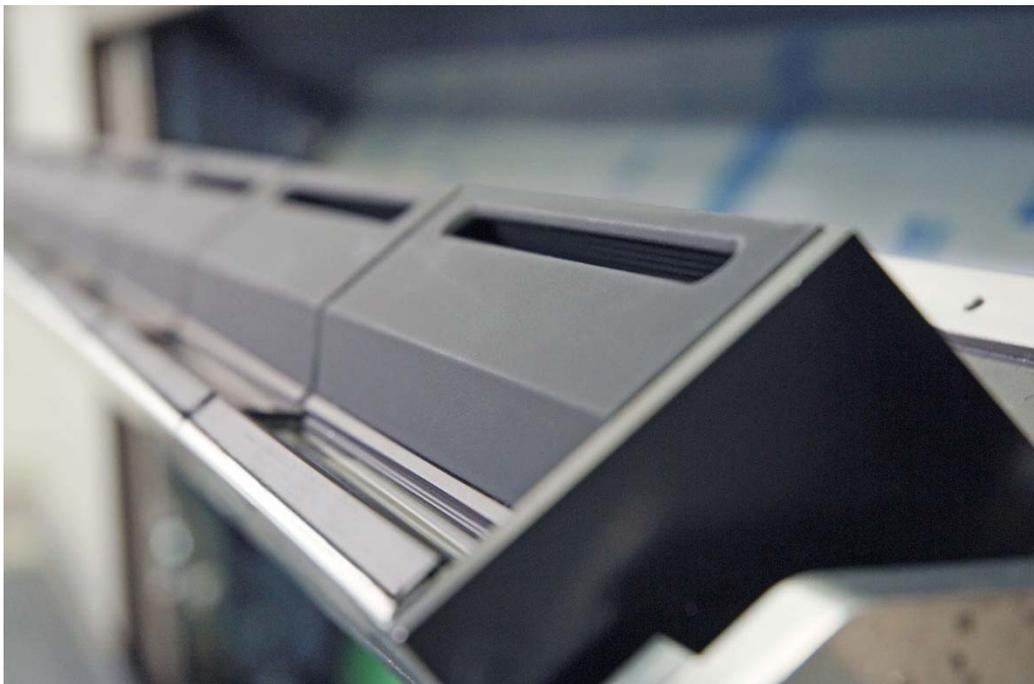
Color measuring and control in the printing press

Inline measuring and control without the need to pull sheets saves time, improves color stability, reduces waste, and offers complete documentation of the production run. The Inline ColorPilot measures ink density at full production speed without the need to pull sheets for inspection. The print control strip on the sheet is measured with the precision known from the ColorPilot.

Colored flash illumination enables the complete print control strip to be measured within three sheets—regardless of the number of colors printed. A high-resolution CCD sensor with polarizing filter which is insensitive to the influence of reflections from wet ink and scattered light is used for measuring. The RGB flash illumination corresponds with the color of the filters which are used for normal densitometrical measurements.

The familiar simple operation

The Inline ColorPilot reduces the printer's workload significantly and not only because it is not necessary to pull sheets. The continuous logging function can be used for quality control and also to analyze and resolve unjustified customer complaints. The system also impresses with the sturdy.



Inline Color Register for sheetfed printing

Inline ColorPilot integrates color register

The use of automation modules leads to a constant quality throughout the edition and savings on paper waste in the various operating modes, in bold printing as in start-up or changing the speed of the machine. Color register measuring system is defined as the accuracy of the overlay of the individual inks. Mark deviations are detected by ICP through the smallest measuring component, the printed register marks, and corrected via regulator using positioning devices. The smallest register marks are integrated in the color control bar and position measurements are carried out at the highest speed with the greatest accuracy. The ICP measures density and color register simultaneously. The positions of the register marks are determined automatically. The lateral, circumferential and diagonal registers are controlled directly from the press control console – fully automatically and simultaneously for all printing units.



Technical specification

Densitometric measurement

45°/0° –geometry

Polarizationfilters

LED-Illumination (RGB)

Density range 0.00 – 2.50

White reference: rel. paper white

Measuring patch (min. width x height): 3 mm x 2 mm

Speed range: up to 20.000 sheets/h

