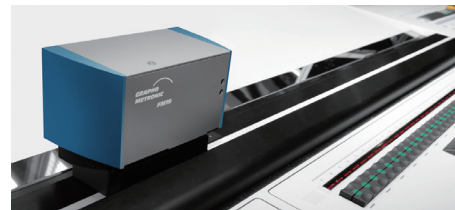


Quality Management – Achieve the highest printing quality

Why do you need Quality Management?

Economic production of proofs and good sheets presupposes standardization in all areas of the printing workflow: not only the right setting of the press but also the alignment of ink feed, printing substrate, ink and the consistency of prepress-systems to the printing quality standards are some decisive factors. This avoids misunderstandings, increases efficiency and saves time and money.

As a significant part of the comprehensive quality management system, the Manroland printnetwork color measuring and control systems support the control, regulation and documentation of the compliance with standards at maximum accuracy and speed. They increase effectiveness and efficiency of the high performance presses with previously unattainable precision. Furthermore, the inline sheet inspection detects every faulty sheet before the delivery and makes life easier for the press operators.



ROLAND ColorPilot, the precise color control for highest quality standards.



The ROLAND InlineColorPilot provides a high level of convenience through the automatic measuring process.



Zero-fault delivery pile will definitely enhance print buyer's satisfaction.

Color control products for sheetfed offset printing

The proven ColorPilot high-speed measuring and control systems score points for you on two counts: as standard equipment, colorimetry takes care of quality management, and densitometry takes care of production control. The systems quickly achieve good sheets after only a few measuring and regulation steps and ensure consistently high quality during the production run. Even particularly difficult subjects with low contrast can be easily regulated by the okBalance software module at the press of a button and kept stable over the entire run.

The ColorPilot is available in three versions:

- ColorPilot smart (the smart solution delivers the same measuring accuracy)
- ColorPilot
- ColorPilot plus (supplementary movement in y-direction)

Sustained production efficiency

The ROLAND InlineColorPilot measures ink density with the proven quality of the ColorPilot at full production speed without the need to pull sheets. Using a high-resolution CCD sensor, the InlineColorPilot measures the complete print control strip within three sheets. The RGB flash illumination corresponds with the color of the filters that are used for normal densitometrical measurements. Besides considerable make-ready time savings and constantly high product quality, the fastest system on the market provides a lot of other advantages: fewer waste sheets, lower energy costs, no ink-water balance disturbance, and the entire production run is logged. The system also impresses with its sturdy measuring technology and low maintenance requirements.

Zero fault production

As printing speeds increase, the challenge of keeping up print quality sheet-for-sheet increases as well. The ROLAND InLineInspector 2.0 detects the smallest hickeys, splashes, scratches, creases, streaks, scumming or smearing just as reliably as it detects color deviations or substrate defects. Spoiled sheets are marked or can be diverted fully automatically using the optional InLineSorter.

Alternatively, the system can be expanded with the new InLineNumbering option. Each sheet is printed with a serial number on the suction tapes feed board. This number is assigned to each defect and displayed graphically in the inspection report.



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Quality Management

Products and details

	Features and benefits	Availability		Features and benefits	Availability
ColorPilot	<ul style="list-style-type: none"> ■ Reproducible quality and stability in the production run ■ Fast make-ready ■ Substantial savings in material and time ■ Fast measuring with small measuring fields ■ Precise regulation 	ColorPilot smart ROLAND 50, ROLAND 200 ROLAND 500, ROLAND 700 ColorPilot ROLAND 500, ROLAND 700, ROLAND 900, ROLAND 900 XXL ColorPilot Plus ROLAND 500, ROLAND 700, ROLAND 900, ROLAND 900 XXL	ProcessMonitor	<ul style="list-style-type: none"> ■ Software-Package for ColorPilot smart, ColorPilot and InlineColorPilot ■ Clear and well-arranged display of the printing quality according to ISO or self-defined standards ■ Each sheet is measured and analyzed in real time ■ Wide range of analysis concerning density, colorimetry, grey balance, trapping, dot gain and more ■ Display, if the substrate is within the tolerance ■ Logging of each analysis 	ROLAND 500 ROLAND 700, ROLAND 900, ROLAND 900 XXL
InlineColorPilot	<ul style="list-style-type: none"> ■ Significant time savings in every make-ready phase ■ Faster regulation reduces the number of waste sheets ■ Fewer interruptions to production means reduced energy costs ■ Constant quality because the ink-water balance is not disturbed (press is not stopped for measurements) ■ Continuous logging over the entire run ■ The fastest system on the market: only 3 sheets needed for a measurement ■ Self-cleaning mechanism means low maintenance and cleaning requirements ■ InlineRegister control as an option 	ROLAND 700, ROLAND 900, ROLAND 900 XXL	InlineInspector 2.0	<ul style="list-style-type: none"> ■ Marking of faulty sheets ■ Reduces percentage of waste sheets ■ Substrate quality control ■ Documented quality ■ Drastic reduction in complaints ■ Makes life easier for the press operators ■ A must for quality printers ■ Automatic job data transfer ■ High degree of automation 	ROLAND 700, ROLAND 900

Some of the functions described above are options and not standard items for Quality Management components. They can be combined to provide customer-specific configurations in accordance with the valid options price list. The Quality Management components are subjects of continuing developments. Experience gained in practice and the results of research flow into product design. It is therefore in your interest that we reserve the right to make design and specification changes. Only the written confirmation of Order is binding. The contents of this document, in particular brand names, logos and texts, are the property of Manroland Sheetfed, unless otherwise identified, and are protected by law. Reproduction or utilization of this document as well as the communication of its content to others without explicit written authorization by Manroland Sheetfed is prohibited. A civil action will be brought against offenders.

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