



# ROLAND 900 Evolution



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# ROLAND 900 Evolution

As a pioneer of print innovation, Manroland Sheetfed has developed many world firsts since the company was established in 1871. Now completing its breakthrough Evolution family, comes the ROLAND 900 Evolution, further underlining Manroland Sheetfed's position as a world leader in large format press manufacture.

Bearing all the hallmarks of innovation, productivity and quality that have become synonymous with the Evolution name, the ROLAND 900 Evolution large-format press for packaging and commercial printing comes with a wealth of cutting-edge automation technologies to deliver cost and energy savings for printers, along with ever faster make-ready times.

The ROLAND 900 Evolution pushes the boundaries for what is possible in large format offset printing.

**The Evolution of Print.**



# DISCOVER SOMETHING NEW

“A logical next step into large format press production.”



“Exciting, innovative – yet still reassuringly familiar.”

# AUTOMATION FOR OUTSTANDING PERFORMANCE

With a wealth of new technologies to enhance performance, shorten make-ready times and lower energy consumption, the ROLAND 900 Evolution is perfect for both short and long production runs.

**Autoprint** represents the highest degree of automation available, providing uninterrupted productivity at the touch of a button.

With **Simultaneous Plate Loading (SPL)**, plates are mounted and clamped in one step, permitting full utilization of faster make-ready times.

The quicker color measurement occurs, the greater the time and cost savings. **InlineColorPilot 3.0** is proven to be the fastest, most efficient way to measure color. Where other presses require operator time for manual calibration, Manroland **InlineColorPilot** technology measures densitometrical and colorimetric in just seconds and in a single pass, with fully automatic setup and simultaneous measurement of all ink zones further shortening make-ready times.

As well as combining process and quality control and simultaneous spectral and density measurement across the entire width of the print area, **InlineColorPilot 3.0** provides full-tone control, gray balance and register control. Printers are able to receive spectral measured values for optimizing the color locations of solids, and for documentation over the entire run.

**Triple flow inking** provides an ideal way for packaging printers to overcome ink distribution challenges. Because larger, wider presses carry more ink, they can produce density fade from tail to lead. To overcome this potential problem, the **Triple Flow** technology provides three separate inktrain running modes – normal ink distribution, front-heavy distribution and symmetrical distribution – enabling transfer rollers to be positioned on the fly from the console.

“The natural choice  
for large format print.”



# INNOVATION FOR QUALITY AND PRODUCTIVITY

Manroland Sheetfed's ongoing commitment to innovation continues to produce breakthrough technologies to push the boundaries of what is possible in offset printing. For ease of use, cost savings and excellence of output, ROLAND 900 Evolution is the embodiment of this vision.

**QuickChange Job plus** is a system for fully automatic order change, ensuring operating steps are performed in sequence. The display of jobs, released and scheduled in the **IntegrationPilot** on the machine's InfoScreen, gives a clear representation of defined processes as well as progress within individual processes.

ROLAND 900 Evolution's **Fast Inking** high end technology provides measuring and control in just minutes, and the **Printnetwork IntegrationPilot 2.0** offers ideal solutions for high quality CIP3 ink pre-setting data.

**InlineInspector 3.0** produces highest delivery quality, with automatic job data transfer, automatic masking and reference sheet verification via master PDF, with inspection of every sheet during production.

A new operating concept integrated in the latest PressPilot provides touch operation on large, 23-inch screens, with a highly intuitive, transparent operating interface with smartphone-like operation from the feeder. The multiview InfoScreen providing visualization of such additional software modules as InlineColorPilot, InlineObserver, and InlineInspector.

“One-pass productivity for  
complex packaging applications.”

# STANDING OUT FROM THE CROWD

The more options you have, the more orders you win. With the ROLAND 900 Evolution you can specify your own product portfolio. Substrate versatility ranges from the thinnest paper to the thickest carton. Thanks to the relatively flat sheet travel path, even stiff substrates can be printed safely and in high quality.

The ROLAND Evolution 900 is a proven platform for a wide variety of applications from commercial print through to packaging right up to displays, corrugated board and foils.

The **Inline Coating Unit**, with its unrivaled ergonomics in the coating module, boasts a new chambered doctor blade system with additional reinforcement profiles for stiffness for even and stripe free application. A motorized chain hoist and a storage compartment for two anilox rollers at the delivery, ensure coating that is unrivaled in efficiency, reliability and sheer quality of output. The double coating configurations permit a double hit of dispersion coating or a combination of printing with conventional inks and applying a water-based primer and UV coating.

**Inline Impress** enables the production of haptic effects on board. As only the top surface is embossed, with the back of the sheet remaining perfectly flat, the enhanced sheet can be finished without the need for further production intervention.

**Inline finishing equipment.** The ROLAND InlineSlitter slits the sheets in half before they reach the delivery. For example, format 5 or 6 sheets with 32 pages can be slit in half and then finished as medium format sheets in the postpress operations.

**Printing from sheets or reels.** Equipped with a ROLAND InlineSheeter the ROLAND 900 Evolution can do both, utilizing the advantages of reel paper but still having the benefits of a sheet alignment system at the infeed. The change-over from sheets to reels and vice versa is fast and easy.

“World-beating end-to-end solutions.”





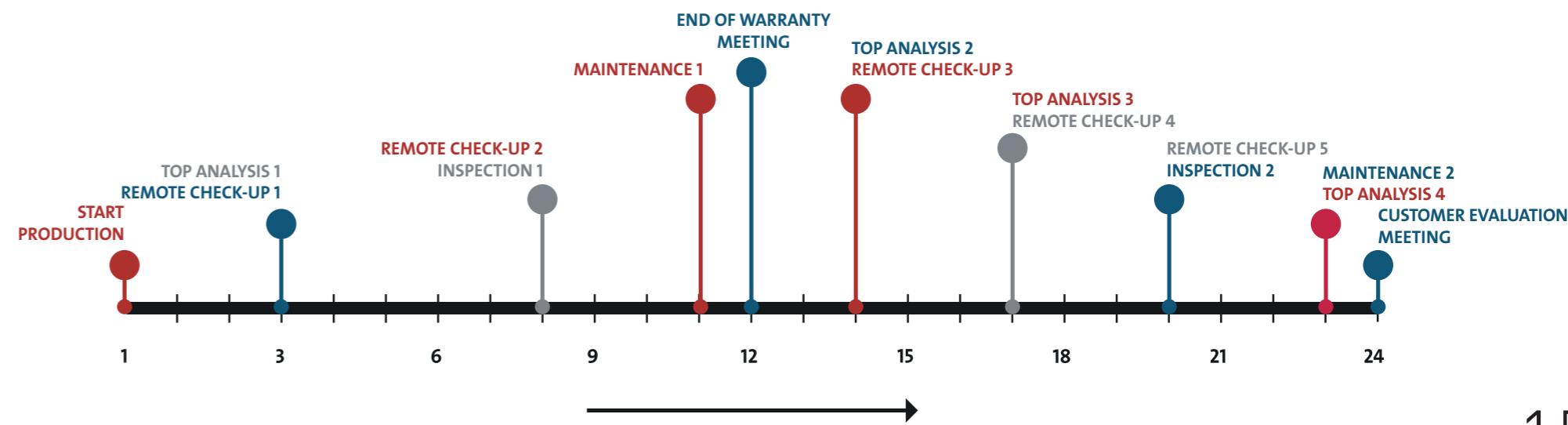
“With our global network of over 40 subsidiaries, our technicians are there to support you, wherever you operate.”

# OPTIMIZED INVESTMENT WITH PROSERV 360°

Manroland Sheetfed provides its complementary **ProServ360°** supplier maintenance program for press and peripherals for the entire 24-month period following hand-over.

This all-inclusive program has been developed to help ensure maximum return on customers' investment by ensuring presses operate at peak efficiency and maximum up-time. It provides 24/7 remote service, regular inspection & maintenance, performance analysis, direct access to experts and genuine factory spare parts.

Among the package's many benefits for press owners and operators are fast ramp-up of productivity curve following installation and commissioning, reduced incidence of unplanned downtime, rapid elimination of looming issues, controlled cost of ownership, lowered maintenance costs and optimum machine stability.





# TRUSTED TECHNOLOGY

The build and print quality of ROLAND presses is legendary – and widely recognized as the benchmark of excellence in offset printing. Designed and developed to Manroland Sheetfed's exacting standards, critical components in every ROLAND press are precision manufactured to tolerances up to 30 times finer than a human hair.

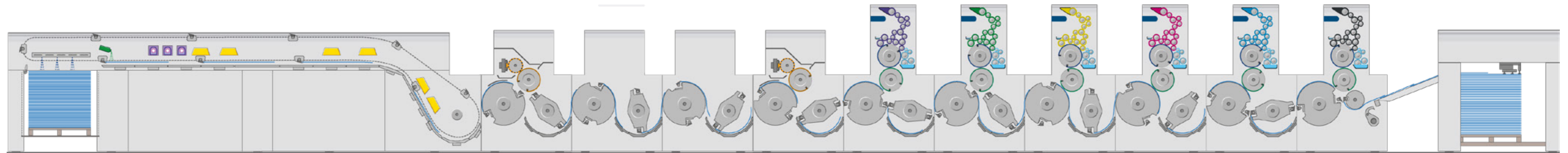
For an industry demanding ever more personalized design and reduced lead times, ROLAND 900 Evolution offers a range of optional technologies for virtually any specialized function or print requirement.

- ROLAND InlineInspector 3.0
- Press Pilot
- Integration Pilot 2.0
- ColorPilot 3.0
- ProcessMonitor
- QuickChangeColor printnetwork
- PANTONE® Formula Guide
- PressRoomMonitor
- Fully automatic Job creation
- ColorPilot quality report

“We were first introduced to Manroland’s InlineColorPilot system with the XXL. What impressed us most was the ability to calibrate the system including print register without needing to draw a sheet from the delivery. Our ROLAND Evolution saves us time and keeps press stability intact reducing the overall make-ready waste and time providing more tangible value and achieving greater customer satisfaction.”

**Byron Loeppky, Vice-President and GM, Friesens Corp.**

**North America’s premier book, yearbook and packaging manufacturer.**



# DRIVEN BY SUSTAINABILITY

The innovation that is the DNA of Manroland Sheetfed is driven by an ongoing quest for sustainability. The ROLAND 900 Evolution boasts a host of features focused on reduction of waste paper as well as significant noise emission.

## Ecologic Pilot

Manroland Sheetfed's Inbuilt **Ecologic Pilot** technology, integrated into **PressManagement** and **IntegrationPilot Plus**, accurately monitors power consumption to deliver more accurate data on press energy consumption. Measuring all connected supply lines and usable for multiple office machines, Ecologic can also be employed in job-related CO<sub>2</sub> emission compensation.

## AC Driven

The adoption of **radaxial bearings** is only one part of the new drive concept, the use of an AC drive is another. Reducing maintenance frequency and wear and tear parts, the AC drive is promising annual savings of thousands of kWh, thus contributing to less CO<sub>2</sub> emissions.



Printed in Germany on a ROLAND 700 Evolution Elite.

