



# ROLAND 700 Evolution

# CONTENTS

- 4. ROLAND 700 Evolution
- 6. DISCOVER THE RANGE
- 8. OUTSTANDING PERFORMANCE
- 11. HIGHEST PRINT QUALITY
- 12. STAND OUT FROM THE CROWD
- 15. OPTIMIZING YOUR INVESTMENT
- 16. TECHNOLOGY YOU CAN TRUST
- 18. ECO-FRIENDLY



# ROLAND 700 Evolution

As pioneers of print innovation, Manroland has developed many world firsts since the company was established in 1871.

In 2016 we introduced the world's most technologically advanced sheetfed press, the ROLAND 700 Evolution.

Today the ROLAND 700 Evolution family comprises: the ROLAND 700 Evolution **Elite**, our flagship model; the ROLAND 700 Evolution **Speed**, our 20,000 sheets per hour model; and the ROLAND 700 Evolution **Lite**, the most recent addition to the family. Same legendary quality and entry level model.

**The Evolution of Print.**



# DISCOVER THE RANGE



“The ROLAND 700 Evolution **Elite**, **Speed** and **Lite** - a bold evolution of an iconic design, unmistakably Manroland.”



# OUTSTANDING PERFORMANCE

Thanks to Manroland's Simultaneous Plate Loading technology, plate loading and blanket cleaning all takes place simultaneously, resulting in significant cost savings, higher productivity and superior print quality.

## **Simultaneous Plate Loading (SPL)**

SPL drastically reduces make-ready times. Plate exchange, blanket cylinder and impression cylinder washing can be done simultaneously in all printing units in less than 4 minutes.

## **DirectDrive**

Manroland's DirectDrive principle has the capacity to carry out many functions at the same time making the ROLAND 700 Evolution the ideal choice for short production runs.

Simultaneous blanket washing, impression cylinder washing, printing and coating plate changes, roller washing and inking-up done simultaneously reduces make-ready times by up to 60%.

The DirectDrive has unparalleled flexibility. Two aspects of this capability include start to print and print length adjustment. No other press in the 70/100 format class can offer such benefits.

## **Autoprint**

Delivering optimum levels of automation, the control system

automatically starts the individual set-up processes when changing jobs leaving the operator free to focus on other tasks. This results in multiple signature changes or complete job changes without interruption.

## **IntegrationPilot 2.0 & Plus**

This enables job preparation and scheduling to be carried out centrally in the office or at the machine. Fully automatic job creation and color pre-setting all contribute to faster make-ready times. IntegrationPilot *Plus* 2.0 adds automated and detailed data collection for analytical purposes to improve your performance each day.

## **Minimize waste**

Standardized machine settings and targeted color presets are crucial to reduce waste. Only three cylinder revolutions are necessary to measure a complete color bar using the InlineColorPilot 3.0 where ink slide positions are automatically corrected in seconds.

A detailed close-up photograph of the internal mechanical components of a large industrial printing press. The image shows several large, polished metal cylinders and gears of varying sizes, some with teeth. The surfaces are highly reflective, showing highlights and shadows that emphasize the metallic texture and complex geometry. A bundle of black cables is visible, running across the middle of the frame. The overall composition is technical and precise, highlighting the engineering of the machinery.

“DirectDrive: the ideal choice for high performance short production runs.”





# HIGHEST PRINT QUALITY

Outstanding print quality has been a notable feature of the ROLAND 700 series since its conception, and even after several hundred million impressions, users are still; continually impressed at the superb finishes achieved. Today, this has not changed the new-generation ROLAND 700 Evolution surpasses all other brands.

## **The TripleFlow**

TripleFlow delivers more control than any other comparable technology on the market. With three different ink distributions at the push of a button, it offers high color consistency during the whole print run and drastic savings in waste. TripleFlow enables the precise distribution of ink density with the ability to redistribute ink density where it is required the most.

## **InlineInspector 3.0**

As printing speeds increase, the challenge of keeping print quality sheet by sheet at a constantly high level increases too. The InlineInspector detects even the smallest hickeys, splashes, scratches, creases, streaks, scumming or smearing just as reliably as it detects color deviations or substrate defects. Rejected sheets are marked and with the InlineSorter automatically removed.

## **InlineColorPilot 3.0**

Measures and controls register and color automatically without the need of a pull sheet. This saves time and wasted sheets, improves color stability and offers complete documentation of the production run. Using a high-resolution CCD sensor, the new InlineColorPilot 3.0 measures the print control strip within only three sheets.

The RGB flash illumination corresponds to the color of the filters used for normal densitometry measurements.

The InlineColorPilot also simultaneously measures L\*a\*b values, making it the most innovative system on the market to do so inline.

“Accuracy after several hundred million impressions.”



# STAND OUT FROM THE CROWD

Welcome to the Manroland world of compelling inline effects achieved with OnePass technology. Arouse emotions with compelling effects and coatings that bring your work to life. The ROLAND press offers end to end solutions and consistently superior quality.

## **InlineCoating**

With the chambered doctor blade system on the delivery side, high quality coating application is a given. Whether it is high gloss single coating, double coating applications or spot UV the ROLAND 700 Evolution is a master in this field. With our Ultima® concept, Manroland offers tailor-made solutions for a wide array of applications. Whether it is coating before printing or a downstream printing unit after coating and other variations, we offer a customized OnePass solution.

## **InlineImpress**

Make an impression with haptic effects on cardboard. Using UV inks and coatings only the top surface is embossed in the second coating unit. Leaving the back of the sheet perfectly flat, the enhanced sheet can be processed by the finishing department without the need of further production intervention.

## **InlineFoil**

Inline cold foil application with Manroland's InlineFoil 2.0 delivers tremendous effects. Whether it is the substitution of metallized substrates or simply the extra shine on the sheet, design possibilities are vast and enable you to differentiate from your competition with this added value.

Although cold foil is considered to be expensive, the InlineFoil with its built in indexing function delivers huge savings, drastically reducing foil consumption by up to 60%.

“See, feel, believe.”







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

# OPTIMIZING YOUR INVESTMENT

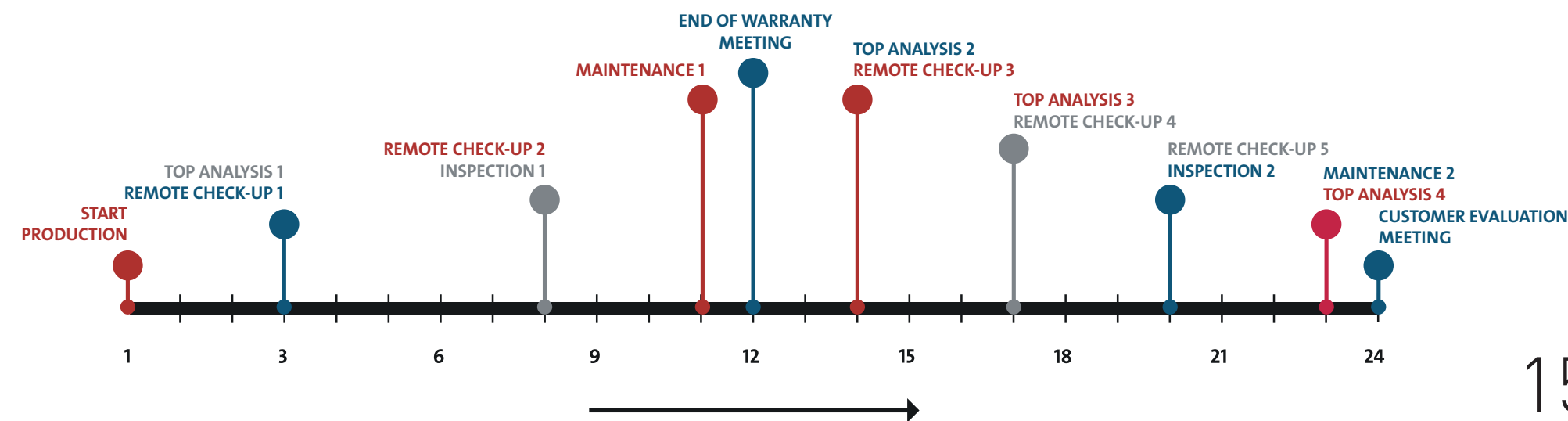
When you invest in what many consider to be the world’s finest press and you have made that choice, Manroland is here to make sure that your investment yields the highest possible returns, year after year.

Our all-inclusive **ProServ 360° Performance** two year program is designed to deliver maximum return on our customers’ investment to ensure your press runs to optimum efficiency and maximum up-time.

With 24/7 remote service, regular inspections and maintenance, performance analysis, direct access to our experts in Germany

and with genuine factory spare parts optimized as only we know how, our service is second to none.

To protect against any unforeseen power fluctuations and outages, we can also offer battery-free CLEANSOURCE® PLUS UPS systems from our sister company, Active Power, tailored to your requirements.





# TECHNOLOGY YOU CAN TRUST

Built with the precision of a fine Swiss watch, critical components in every ROLAND press produced are manufactured to tolerances up to 30 times finer than a human hair. That's why the build and print quality of ROLAND presses is widely recognized as the benchmark.

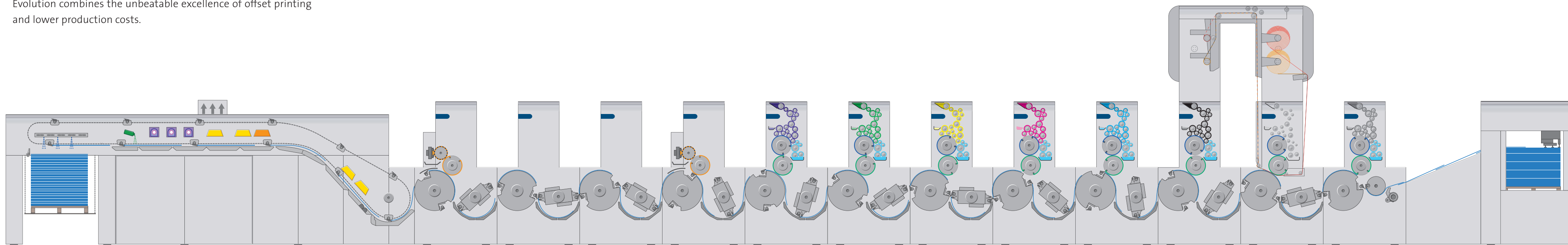
From multiple short print runs per day to high volume folding carton print jobs for delivery the next day, these are just some of the heavy demands placed on a printing press.

In a rapidly changing and competitive market that demands the highest print quality, speed and reduced lead times, the ROLAND Evolution combines the unbeatable excellence of offset printing and lower production costs.

When it comes to automation, simultaneous make-ready processes, outstanding running speeds with high net output, inline enhancement and quality assurance, the ROLAND 700 Evolution's state-of-the-art technology can handle these demands and more, to all sectors of the print industry.

"...when printing on cardboard it's the best press on the market. The sheet transport ensures cardboard passes smoothly producing a razor-sharp print image, perfect for luxury packaging. The fact this is our third ROLAND press is certainly no coincidence but a deliberate choice."

**Alain Grandjean, Impritex, Wavre, Belgium.**



# ECO-FRIENDLY

The innovation that is the DNA of Manroland Sheetfed is driven by an ongoing quest for sustainability. The ROLAND 700 Evolution boasts a host of features focused on the reduction of waste paper as well as significant noise emission.

Manroland's **EcologicPilot** is an important tool for the registration, evaluation and monitoring of job-specific power consumption values, split into make-ready, production and clean-up.

By enabling swift color change in the ink fountain without the necessity of special foils, Manroland's **QuickChange Surface** means printers no longer have to contribute to landfills with their consumables.

Three color changes per day on a standard 8-color press will use approximately 8000 foils in 8 years. The ROLAND 700 Evolution, using recyclable press wash, eliminates the need to do this.

The ROLAND 700 Evolution also stands to save thousands of kilowatt/hours per year using the latest A/C drive technology, resulting in the lowest carbon footprint.

The main contributor to CO<sub>2</sub> emissions in the printing process is the paper. It has to be the main goal to reduce waste in order to reduce the carbon footprint.

“Meeting global challenges with greener solutions.”



Printed in Germany on a ROLAND 700 Evolution Elite.



manroland  
sheetfed

