



WE ARE PRINT.®

ROLAND 700 EVOLUTION

DOUBLE COATING / ULTIMA®

AUDIENCE: Packaging printers / Commercial printers / General managers / Heads of production

Discover the world of inline enhancements with OnePass® technology from Manroland Sheetfed.

CONTENTS

EVOLUTION provides you with these new possibilities.

Cost pressures and ever shorter delivery times require production steps to be reduced and enhancements to be implemented in one single pass. With OnePass® technology in the ROLAND 700 EVOLUTION, you can increase productivity through enhanced in-line production.

Stimulate your senses. Wake your emo- With the Ultima® concept Manroland printing unit after coating – anything that OnePass® technology in the ROLAND 700 coating before printing or a downstream EVOLUTION Ultima®.

tions. Seeing, smelling and touching Sheetfed offers tailor-made solutions varies from the standard printing and are qualities that make printed goods for a wide array of applications. Ultima® varnishing process finds applicationunique, attractive and more valuable. The stands for customizing. Whether it is specific solutions with the ROLAND 700



APPLICATIONS

The following four applications show examples of how OnePass® technology achieves the highest performance and the shortest throughput times.



APPLICATION 1

Printing - Coating with double coating module

The classic application achieves the highest gloss levels using conventional inks:

Delivery	Drying Coating Section Unit 2		Transfer Unit 2			Printing Unit 1-6	Feeder		
	UV-dryer	UV-coating	IR/TL	IR/TL	Water based primer	Conventional inks			

^{*}These applications may require special engraving of the anilox rollers.

OTHER APPLICATIONS*

- Gold-Coating
- Soft-Touch-Coating

- TWIN-Effect
- Blister-Coating

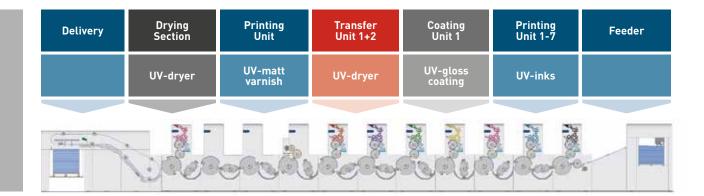
APPLICATION 2 Printing - Coating - Printing

This application uses another printing unit after the coating module.

In this configuration matt varnish is applied with an offset printing plate.

ADVANTAGES

- Finer structures
- Better register
- Optimal matt-gloss effects







APPLICATION 3 Coating - Printing - Coating

Here, by using a coating plate, opaque white can be partially applied to different substrates. (i.e. Polyethylene laminated substrate or transparent foil).

Delivery	Drying Section	Coating Unit 2	Printing Unit 1-6	Transfer Unit 1+2	Coating Unit 1	Feeder
	UV-dryer	UV-coating	UV-inks	UV-dryer	Opaque white	

ADVANTAGES

- Gives solid surface for good white coverage
- OnePass® technology allows inline printing on top of opaque white



APPLICATION 4

Printing - Coating - Perfecting - Printing - Coating

With this configuration the inner face of a folding box can be printed with text information or messaging on the reverse face by using an inline perfector.

Delivery	Drying Section	Coating Unit 2	Printing Unit 3-7		Transfer Unit 1+2	Coating Unit 1	Printing Unit 1+2	Feeder
	UV-dryer	UV-coating	UV-inks	Inline Perfector	UV-dryer	UV-coating	UV-inks	

In straight mode this configuration can apply opaque white or primer with the coating module before perfecting.



DRYING SYSTEMS

The ROLAND 700 *EVOLUTION* Ultima® offers maximum application flexibility due to its universal configuration possibilities. Water based coating, UV-coating, special lacquers or even opaque white can be applied.

Manroland Sheetfed offers comprehensive SelectDryer configurations that can be flexibly adapted to every respective requirement and application:

- Length and position of drying sections
- Position and power of infrared lamps
- Temperature management of hot air dryer
- Exchangeable UV cassettes (also between printing units, transferter and extension in the delivery)
- Pure UV-drying systems (for heat sensitive materials)
- UV-white cure dryer for opaque white
- LED-UV
- Combination of conventional UV and LED-UV
- Cold air showers in the printing units or in the delivery (for heat sensitive materials)

PRODUCTIVITY



solutions for makeready time reduction,

Automatic Plate Loading (APL) increased output performance and waste

Simultaneous Plate Loading (SPL) reduction specifically to meet the require-

DirectDrive ments of packaging printers:

Washing

- Ink fountain: covered with a special hardened, ink repellent, polymer layer (QuickChange Surface)
- Blankets: faster washing cycles due to higher washing speeds
- Rollers: dedicated pipe system for special washing solvent (4th piping system)
- Simultaneous washing of rollers, blankets and impression-cylinders with DirectDrive

In reality, job structure frequently determines which automation features are desirable and which are not. It's not always necessary to invest in make ready time automation when run lengths are long. However, for short runs a high nominal press speed and the related investment costs needed can negatively impact on cost per copy of the finished job.

Changing systems for coating plates

- 3-minute changeover time from a coating plate to a coating-blanket with QuickChange Clamp
- Coating-plate-PPL: Coating forme cylinder with semi-automatic clamps
- Direct-Access for machines equipped with DirectDrive:
- Simultaneous plate changing in the printing and coating units
- Simultaneous plate changing in the printing units and packing sheets (sheets below the coating plate / coating blanket) of the coating module

Change of the coating

QuickChange Coating plus "H": pre-heated washing and rinsing water

Faster to the OK-sheet (faster in register, faster in color)

- QuickChange Color printnetwork®: inkslide presetting system
- ColorPilot and Inline ColorPilot with DynamicColor Control
- Inline Register with Bobst registermarks

Solutions to increase running speed

- Machine speed 18,200 sheets/h instead of 16.000 sheets/h
- AUPASYS material handling systems
- Non-stop equipment at feeder and delivery (Rollomat)

Solutions for reducing waste

- TripleFlow inking unit: optimized start/stop sequences, better ink to water balance
- Inline ColorPilot with polarization filters to avoid false measurements on wet inks/coatings
- InlineInspector 2.0 can help to identify faults on plates/jobs as early as possible in the run saving on waste sheets





360° PERFORMANCE

The scope of delivery for the ROLAND 700 EVOLUTION automatically includes the ProServ 360° Performance package. This ensures achieving the promised performance levels and helps manage operating costs.

The 24-month ProServ 360° Performance package contains:

- ProServ maintenance contract with extended services for the first 2 years
- Annual machine inspection
- Annual machine maintenance
- Technical Support Center (TSC) 24/7 Service
- 5x Remote Check-ups
- Spare parts and services
- 4x productivity analysis topAnalysis
- End of warranty visit
- 1x Question & How To Continue visit

These services offer permanent productivity monitoring of the machine. All services are performed by certified Manroland Sheetfed service partners.

CONCLUSION

Evolving toward perfection! The ROLAND 700 EVOLUTION has many innovations that set new standards in printing press construction.

These features include:

- User-friendly operation via the PressPilot machine control-console.
- Modern operating philosophy for efficient and safe working with the graphical user interface NavigationPilot[©]
- Newly designed feeder and AirGlidedelivery for higher performance

- Improved drive technology for higher performance, especially with long Ultima® configurations
- 'State-of-the-Art' inking- and dampening unit ensure the highest print quality
- Further improved coating module
- Cold foil application with Inline Foiler
- JDF and JMF workflow with IntegrationPilot 2.0

The groundbreaking ROLAND 700 EVOLUTION is designed to handle both current and future challenges.

To learn more about the ROLAND 700 EVOLUTION. please contact your local Manroland Sheetfed representative or email: info@manrolandsheetfed.com

GLOSSARY

Inline-Impress: A relief is

QuickChange Color

TWIN-Effect: Two-step in-line

White Cure UV-Drying module: **Soft-Touch-Coating:** Soft-touch UV opaque white.



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