



Profitability by Design.

Series

# ***ROLAND 900.***

**High degree of automation for broadsheet  
size (82/113, 89/126, 100/140).**

## ROLAND 900: High technology to the detail.

Using innovative technology and a high degree of automation for extraordinarily short make-ready times, the ROLAND 900 can accelerate one thing above all: the high-quality and efficient sheet-fed offset printing in broadsheet-size of format classes 4, 5 and 6. Thus, the digitally controlled system sets a high standard which has previously been applicable to medium sizes only.

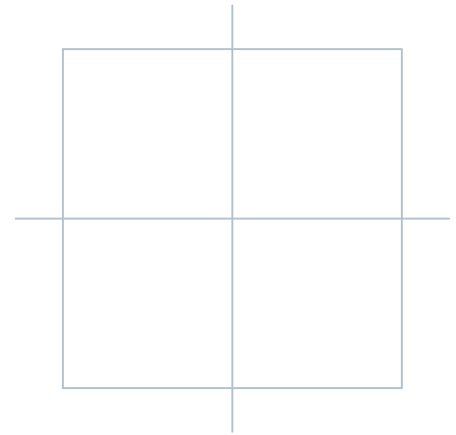
As an all-round system for paper and carton up to the F-flute, the ROLAND 900 can process stock with a thickness of up to 1,2 mm at a maximum speed of up to 13,000 sheets per hour. The sophisticated design of the printing unit, the sheet guide, the inking and damping unit, is a requirement for a constant and safe printing quality. The perfecting unit is first-rate, providing one-colour printing of the reverse side without sheet reversal. The advanced enhancement system, with its chambered doctor blade technology and the screen roller, sets magnificent standards in connection with the Roland Seccomatic dryer, even for creative upmarket products.

Integrated in the leading PECOM Process Electronic System, the ROLAND 900 can interact with the central work planning, the pre-press and the administration within a data network, thus combining a high degree of automation with full process control and easy operation, to form a trendsetting printing management system.

The modular design of the ROLAND 900 ensures that the plant configuration can be tailored to your requirements for commercial and package printing. Providing up to eight printing units, a perfecting unit, a single or double coating module and an extension, it can perfectly be designed for each job structure. Still, the high productivity can be increased: by the automatic AUPASYS material logistic systems, especially for the collapsible carton industry.

**ROLAND 900-highlights at a glance.**

- Max. 13,000 sheets/h
- Format classes 4, 5, 6
- Operation and control in the PECOM system
- Automatic stock thickness adjustment
- Cylinder in 7-clock position
- Automatic PPL plate loading
- Remotely controlled register settings
- Automatic washing systems
- Integrated perfecting unit
- Responsive ink unit
- Roland Deltamatic damping unit
- Ink control systems
- Single coating module, double coating module (only for format 6)
- Roland Seccomatic dryer
- Automatic AUPASYS material logistic system



*ROLAND 900: High technology for sheet-fed offset printing in broadsheet size.*

## Efficient commercial printing, even in broadsheet size.

**High productivity  
in broadsheet  
size opening new  
dimensions  
of efficiency.**

### **Economical for each circulation.**

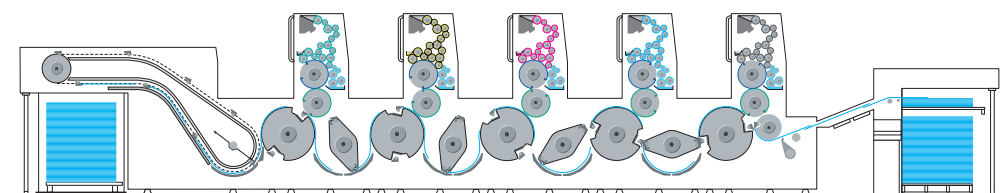
The fast handling of jobs makes the ROLAND 900 so economical, ensured by various automated units and the central control system via the process control console which is integrated into the PECOM Process Electronic System. For example, new formats and stock can be adjusted by a press of a key. This, and the automated true-to-register change of plates, provide shortest make-ready times at an excellent quality. Thus, even small circulations of broadsheet products such as maps or large posters, can be produced efficiently. The enormous capacity provided by a production in broadsheet size at a high speed will prove itself for brochures or high-quality books of pictures, in medium and large circulations.

### **Always best quality.**

Each printing product at best quality - the ROLAND 900 can provide this without problems. Computer-calculated ink units combine responsiveness and storage volume for an optimum process control in an ideal manner. Using advanced ink measuring and control technology, they meet the highest quality standards at the lowest waste. The Roland Deltamatic damping unit ensures printing processes without hickies.

### **Variable stock.**

A wide range of stock is important for commercial and package printing. The ROLAND 900 can process thin paper and cardboard boxes as well. Special equipment allows the printing of materials up to a thickness of 1,2 mm. Even a printing process to the F-flute is possible.



*ROLAND 900 - for efficient commercial printing.*

## Flexibility and safety in package printing.

### Flexibility by automation.

The ROLAND 900 is designed for the typical jobs in package printing, be it high circulation collapsible boxes or displays at low numbers. With its shortest make-ready times of its format class, the ROLAND 900 provides high flexibility by quick changes of jobs. The automated facilities allow a continuous production which is of special importance in box-board printing.

### Various possibilities of enhancement.

The most modern inline enhancement system with its chambered doctor blade and screening roller opens up a wide range of enhancement possibilities. In particular for the format 6, the Roland 900 can also be equipped with a double coating module. The similar design of the coating module and the printing unit maintains the benefits of the sheet travel even for inline enhancement. The integrated Roland Seccomatic high-capacity dryer will provide safe conditions for production.

### Printing on both sides without reversal.

The front page in four and more colours for sales promotion, the rear side with its barcodes, product descriptions and instruction in one colour, the ROLAND 900 with its integrated perfecting unit can handle this in one machine pass without an additional gripper margin and without a pile reverser. Using this efficient solution, you will gain even more productivity.

### The highly-

**specialized**

**technology**

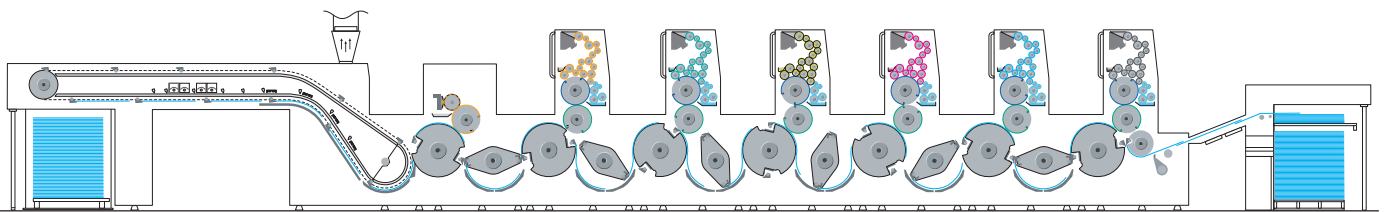
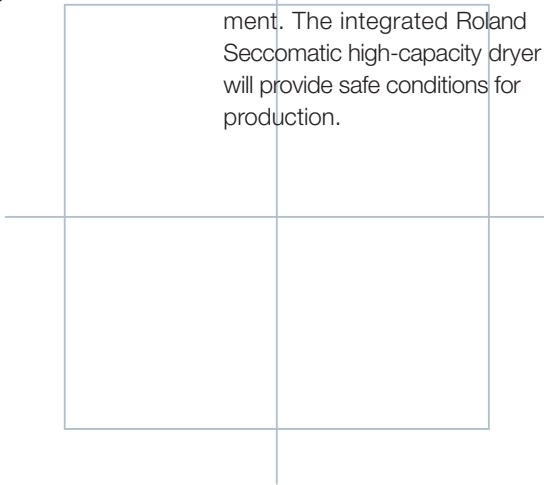
**ensures**

**production**

**according to**

**industrial**

**standards.**



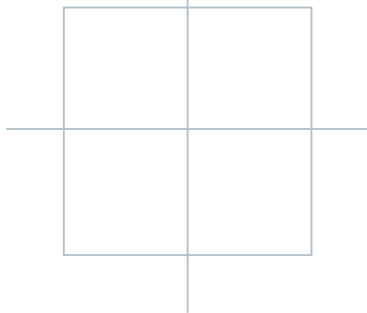
*The ROLAND 900 with six printing units, a coating module and an extension. An optimum in package printing.*

## Safe sheet travel.

*The intelligent*  
**ROLAND 900**  
*sheet guide*  
*provides safe*  
*production*  
*conditions for*  
*broadsheet*  
*formats.*

### Clean sheet travel.

The sheet travels through the entire machine without marks, avoiding scratches, offsets and marks. Even on sensitive stock no rollers or brushes will leave marks on the suction tape feed board. The pneumatic side guide ensures an alignment without scratches. Transferers pass the sheet from printing unit to printing unit without any contact, thus avoiding an offset of the fresh ink. During transport the sheet is stabilized by a suction/blower system. A sheet slow-down device and a take-off gripper in the delivery slow down the sheet to provide a good piling result even at the highest production speeds.



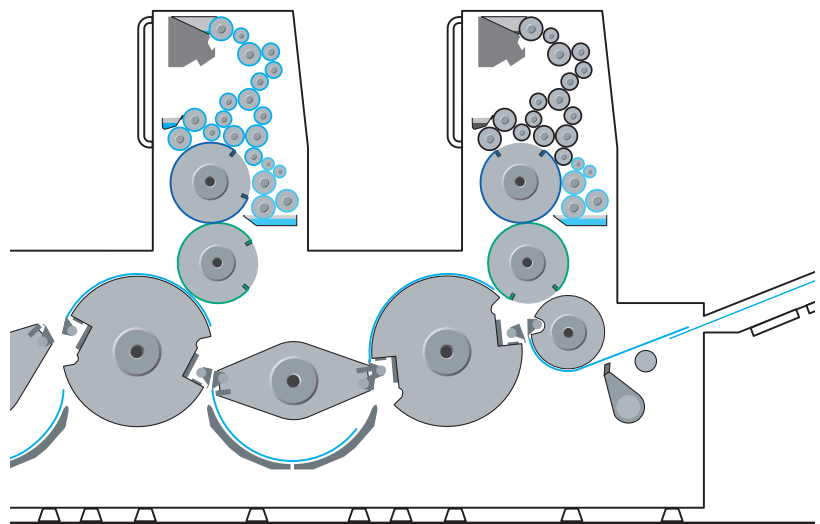
### Quick change of formats.

When a format or the stock thickness is changed, all settings are made automatically and parallel to other setting processes. Only the new format and the stock thickness must be entered at the process control console. Even this can be omitted if the data comes from repeat jobs or is accepted online from the job preparation.

The ROLAND 900 allows up to 17 setting processes to be performed automatically and synchronously. For example: suction head, sheet stops in the feeder and delivery, feeder drum, transferer, blanket to impression cylinder pressure and powder application by the spray powder device. There is no way of doing it more conveniently.

### Controlled sheet travel.

To avoid quality variations and expensive printing interruptions reliably, the ROLAND 900 uses extensive control systems. Possible double or misaligned sheets are safely detected and stopped even on the press. The time of sheet arrival can be controlled during the run of the press, and misaligned sheets can be corrected. An LCD display on the feeder even shows the smallest deviations in the sheet travel. Thus, the printman can take action before the printing production is stopped.



*Safe and clean:  
the ROLAND 900 sheet travel.*

## Automation will pay.

### Intelligent printing unit design.

The double-size impression cylinder reduces the stress exerted on the stock. And the 7-clock cylinder position does not allow a sheet transfer until the sheet has left the contact zone - printing tear strips will no longer occur. Simple friction bearings for the plate and blanket cylinders optionally provide the pressure with or without a bearer ring contact. As a combination of a longitudinal shaft and a wheel train, the drive system allows an accurate metering of the power over the entire speed range without a loss of quality by a mis-register in the case of speed changes, for example.

### Automated PPL Plate Loading System.

The ROLAND 900 provides the Power Plate Loading (PPL) system, the fastest plate change system in this press class world wide, requiring less than one minute for loading and clamping the plates in each printing unit. It is not necessary to bend the plate before. It is simply inserted into the front clamping bar, and is then loaded automatically. The high speed and operator convenience offered by the automatic PPL Plate Loading system gives you an advantage over fully automatic systems. In addition, the plates can be re-used for efficient printing. The electronic plate position control ensures an exact start register accuracy and reduces the start-up waste. The circumferential, lateral and diagonal registers can be remotely adjusted from the central control console. A transferer is used to adjust the diagonal register.

### Fast cleaning.

Old times are gone: The brush washing unit can clean blankets and impression cylinders at the same time within a few minutes. Depending on the requirements, the operator may select different cleaning programs and start them from the central control console.

*The Power Plate*

*Loading (PPL)*

*facility is*

*the fastest plate*

*change system*

*in this machine*

*class world wide.*



*Automatic change of plates for considerably reduced makeready times.*

## Face and perfecting printing without reversal.

**A perfecting unit for attractive and informative inner packing pages.**

### Printing reverse sides without problems.

Printing the reverse side becomes more and more a standard, even for collapsible boxes, as it is ideal for barcodes, operating instructions, product descriptions or additional advertising. The ROLAND 900 for the 6 format now provides an interesting solution. The most varied stock can be printed on both sides in one pass of the press, if it is configured with an integrated perfecting unit - without speed restrictions. Further advantages over sheet reversals are that pile reversals are eliminated, and a second gripper margin is not required, which reduces the costs of material considerably.

### The perfecting unit.

First back printing, then face printing - the perfecting unit in a ROLAND 900 is configured as the first printing unit on the basis of this concept. The standard version allows the use of traditional inks for printing absorbent reverse stock sides. For back printing on non-absorbent surfaces, UV printing inks and UV Seccomatic dryers must be used.

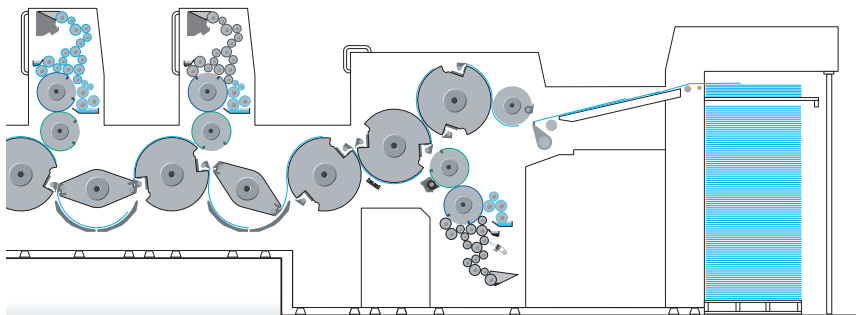
Using pre-grippers, feeder drums and transfer cylinders, the system passes the sheets to the impression cylinder of the perfecting unit with its double-size impression cylinder. The sheet is further conveyed by a second transfer cylinder and the transferer to the impression cylinder of the first face printing press. Controllable fans are positioned below the impression cylinder. Sheet guiding bars in the area of the UV dryer prevent the sheet from being smeared. The ink unit for the perfecting unit is arranged below the plate cylinder.

To provide a convenient access for a change of plates for example, the machine can be mounted to a 556 mm high base.

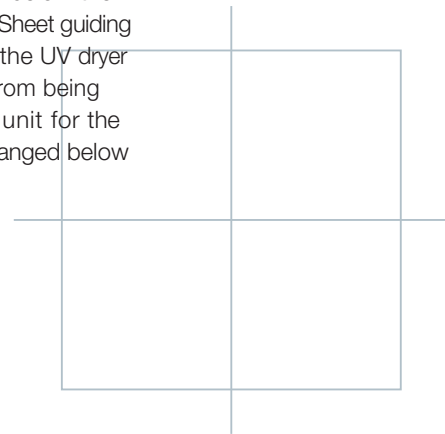
### Economical and efficient.

Advantages of back printing without reversal:

- no loss of production speed as compared with a sheet reversal
- considerable cost savings, since the second gripper margin is eliminated
- no pile reversal required
- no space for intermediate piling
- high degree of automation
- short makeready times
- high operator convenience



*The perfecting unit can print the reverse side without a reversal in one pass of the press.*



*The automated PPL Plate Loading system allows the plates to be clamped easily in the perfecting unit.*

## Optimum use of ink and water.

### Quality is everything.

The ROLAND 900 uses a responsive ink unit with its high storage capacity to bring the colour onto the stock at a proper quality. The axial clearance of the ink forme rollers can be manually adjusted, even during production, to avoid ghosting effects.

### Quickly back to colour.

The ROLAND 900 ink unit separator maintains stable conditions in the ink unit if production is interrupted. It counteracts the equalization of the ink layers on the rollers and thus ensures the high quality of the final run.

### Ink unit temperature control for industrial printing.

The ink unit temperature control can maintain constant printing conditions and increased safety of production around the clock.

### Automatic washing of the ink units.

The inker washing system yields excellent cleaning results, saving personnel and time. The environment-friendly washing of the ink units can be controlled conveniently from the central control console. Depending on the contamination, different programs which execute automatically can be defined.

### Roland Deltamatic damping unit.

The differential surface speed of the plate cylinders and the damper roller removes hickies without any interference with the printed image. This is the Delta effect.

### The ROLAND 900

*ink and damping*

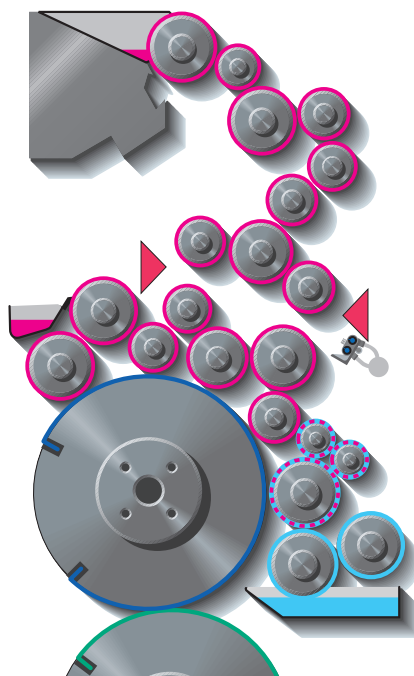
*unit proves itself*

*by a high printing*

*quality, even for*

*extremely de-*

*manding subjects.*



*Ink and damping units with ink unit separator and Delta effect.*

## For the finest ink profile.

**Roland RCI and Roland CCI can provide ink control for the subtlest shades.**

### **Roland RCI can control the ink feed.**

The Remote Controlled Inking (RCI) system integrated in the central control console accelerates the setting-up of the ROLAND 900 by selected ink feed. The printman can call the ink pre-adjustment data quickly and precisely on the central control console: directly from the pre-press stages via the pre-press interface, or online, or by job card from the EPS Electronic Plate Scanner.

All job-pertinent data - up to 5,000 jobs - can be stored in the central control console.

The digital signal transmission allows slides to be set on all printing units at the same time. The setting-up process is fast and accurate.

### **Roland CCI can measure and control automatically.**

The Computer Controlled Inking (CCI) system can measure and control the ink density during a set-up and the conversion process, using 4 mm wide print control bars. The densitometer will then register density deviations even the most experienced printman does not notice. The CCI can measure the complete print control bar over a width of 1,400 mm and corrects, if necessary, the ink slide position of all ink units within a few seconds, providing a constantly high printing quality for the entire circulation. You can profit from reduced makeready times and save waste. All measuring results are logged and can be submitted to the customer as an evidence of quality.

### **Multi CCI establishes connections.**

The particularly efficient Multi CCI component allows several presses to be connected to a common ink control system.



*Roland RCI and Roland CCI: these technologies stand for speed and colour quality.*

**Multi CCI 2D saves stock.**

The ink measuring system ensures highest quality standards, even for expensive stock. Without any contacts, it can measure short measuring field strips between the copies or on the glue flaps consisting of screen tints or full-tone patches. Single-colour full-tone patches can directly be measured in the subject. The continuous printing control strip on the sheet edge is no longer needed for quality assurance: You save material costs of considerable amounts.

**LCS can solve problems.**

Printing company logos and filigree lines is a difficult task to do because of lacking ink absorption. MAN Roland can provide a solution to this problem: the Low Coverage Stabilisation (LCS) system. An automatic unit which opens only every second ink slide in a defined manner, and includes a maximum vibrator roller strip, causes a circulation between the ink unit and the ink duct to occur, preventing an ink build-up or emulsions on the inkers.

**The Low Coverage**

**Stabilisation**

**(LCS) system**

**guarantees**

**optimum colour**

**quality.**



*Selected ink feed from the RCI central control console quickly and without problems.*

## Area of freedom for creativity.

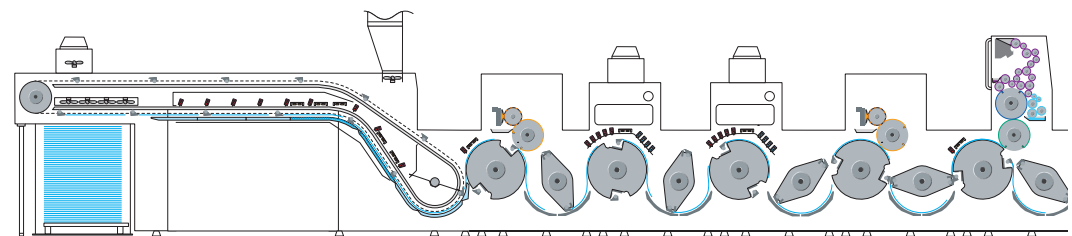
*MAN Roland is  
a pioneer and  
leading manufacturer of units  
for inline enhancement,  
impressively proved by  
the ROLAND 900.*

### **Coating modules for each requirement.**

The ROLAND 900 offers the proper equipment for various inline enhancement processes matched with your job structure and requirement. The coating module can be controlled from the central control console conveniently, quickly and safely. The lateral, circumferential and misaligned registers as well as printing pressure setting and many other functions can be adjusted centrally. The ROLAND 900 is also available with a double coating module for the format 6. The design of the double coating module satisfies the production requirements for more gloss, higher rub resistance and the application of special coatings. The two transfer modules and the intermediate dryer provide optimum printing quality for the application of traditional inks, primers and UV varnish.

### **Application of varnish - finely metered with chambered doctor blade.**

Where varnish is to be applied exactly and uniformly, the chambered doctor blade method with its screen roller is unrivalled. This innovative technology ensures that a defined coating thickness can be applied over the whole width at a high accuracy. Thus, the chambered doctor blade process can save large amounts of varnish.



*The ROLAND 900 with its double coating module and its extended delivery meets numerous enhancement needs.*

**The Roland Seccomatic dryer with high performance.**

The demanding inline enhancement imposes the most stringent requirements on a drying process. A high-capacity system such as the Roland Seccomatic dryer which increases the safety of production significantly is in demand. Depending on the complexity of the enhancement processes and the coatings used, individual models are available for the ROLAND 900: infrared/thermal air dryers and UV intermediate/end-of-press dryers.

*The Roland Seccomatic dryers satisfy the highest individual requirements of inline enhancements.*



*The double coating module with its dryer systems is centrally controlled from the central control console.*

## PECOM - a generation ahead.

**PECOM can implement a digital production system with interfaces to the pre-press stages and the printhouse management.**

### **The core: PECOM ServerNet™**

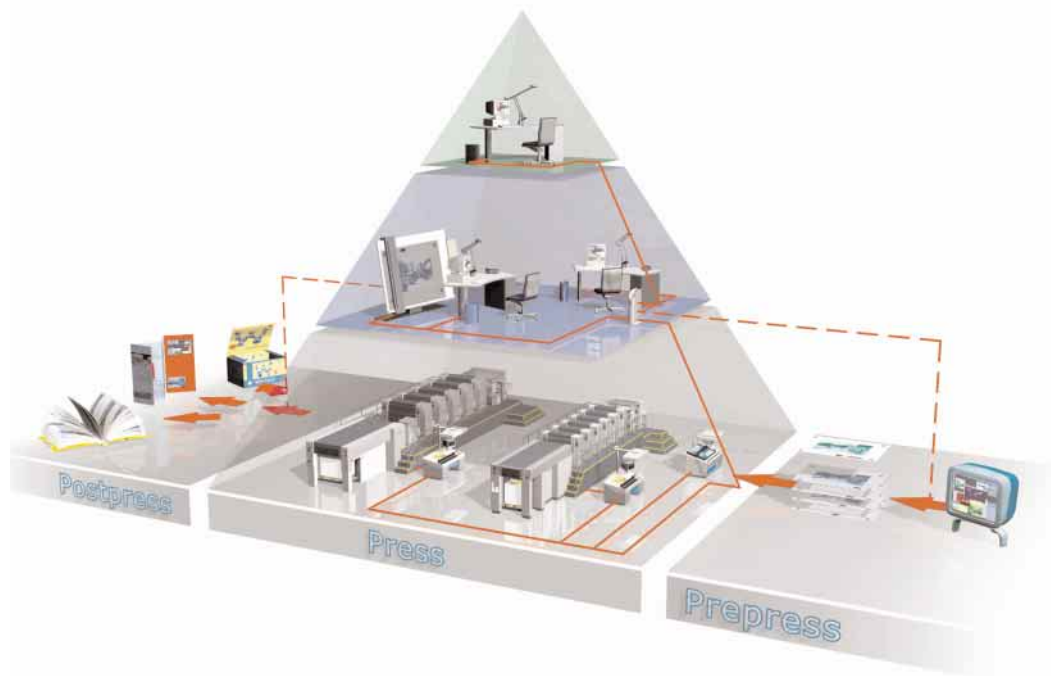
The centre of the new product generation from MAN Roland is the PECOM ServerNet™, providing a modular and consistent Windows NT environment. As a central job server, it allows all connected components to access the job data. The PECOM ServerNet™ can act as an interface to the machine network to ensure an exchange of data between the networked control consoles. For example, an online access to the complete job data of another press is possible for repeat jobs. Prepared jobs can be accepted by another press within a short time. The new network architecture is compatible with the existing PECOM networks.

### **Platform for interfaces and applications.**

The great benefit of the new server architecture is the flexibility and expandability. Other applications and interfaces executing on one computer or distributed to several computers can be arranged in a modular fashion like a "string of pearls". Using Ethernet, they connect to other production sections and the administrative area of the printhouse.

### **JobPilot for pre-adjustments.**

A central pre-adjustment of the presses is of major importance for an efficient industrial production. The new network platform expands the current possibilities. JobPilot includes the technical job preparation with its appropriate presetting of the press parameters. In addition, Press-Monitor uses the status control function to display the progress of jobs and permits a resort to the production history.



*PECOM is the open electronics system of the future, allowing the flow of data through many production stages and*

*levels. It can make costs transparent, eliminate double work and optimise the throughput speed. These are important*

*prerequisites for printhouses producing according to industrial standards.*

**Central presetting, short makeready time.**

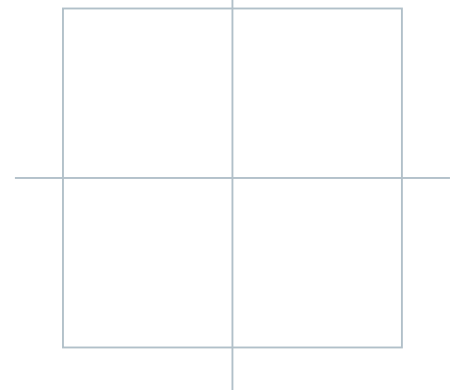
The JobPilot allows the presses to be preset from the office PC. This process is much more cost-efficient than a presetting on the production machine with its significantly higher hourly rates. Furthermore, the production know-how archived from previous jobs can be copied and made available to all machines. The use of repeat and standard jobs results in a more efficient job preparation: time-consuming multiple or wrong entries as well as misunderstandings and queries are avoided. The printroom control function can contribute to an optimization of the job sequence and to saving time in the press preparation.

**In a leading position at the central control console.**

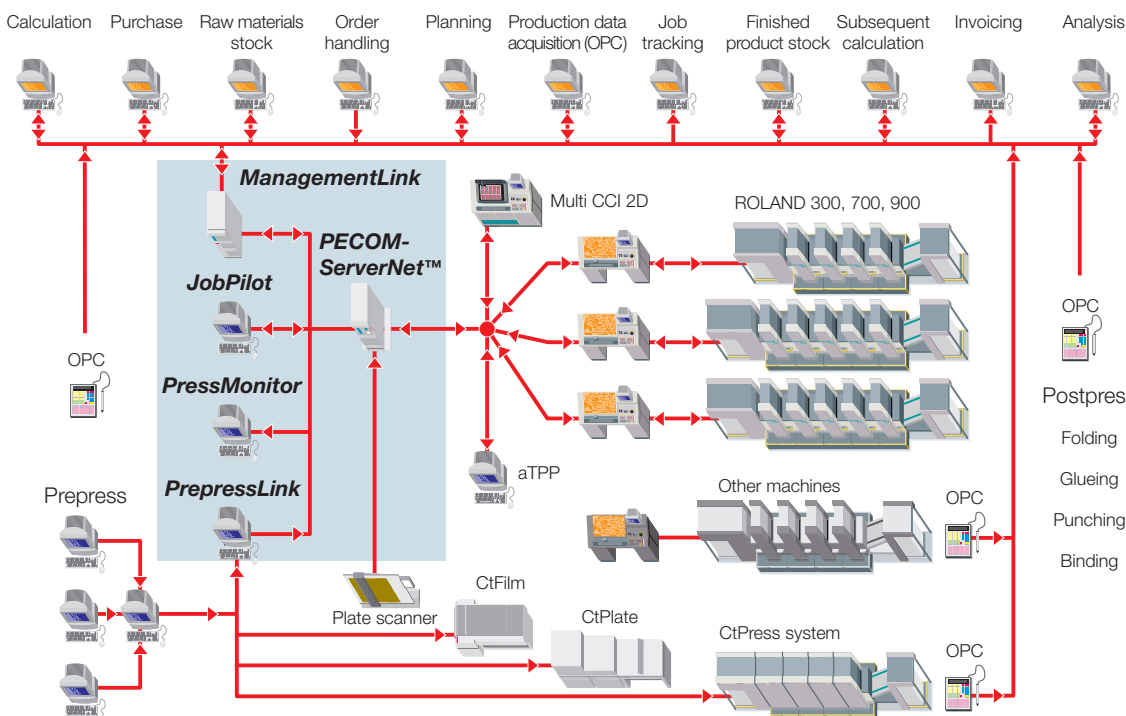
The printman has control of everything at the PECOM central control console. Using an ergonomic touch-sensitive keyboard, the printman can control the entire press system with its additional modules: printing units, deliveries, register settings, ink control, coating modules, dryers and other components. The operator can initiate changes of plates and formats as well as washing processes or changes of stock. Newly collected or stored production data and presettings are passed to the components of the printing system from the central control console. Conversions are at a touch of a finger, quickly and conveniently.

The parameters of the current production can be called on the screen at any time, and are re-presented in a clear fashion. Menu prompts, working instructions and on-line help texts in the national language support the operation for simple operator control. The profitable effect: automated processes, high throughput speed, perfect quality, reliability of operation and optimum documentation of the jobs.

**PECOM can interconnect multiple printing systems and the process steps from job scheduling to the evaluation of operating data.**



**The networked printing company.**



The PECOM-ServerNet™ network platform provides the basis for an individual open system which networks all technical and commercial processes in a centralised way. Project planning through MAN Roland can provide investment security and guarantee compatibility with future extensions of the printing system.

investment security and guarantee compatibility with future extensions of the printing system.

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## Ergonomy unlike anything previous.

**User-friendly operation, soundness and highest capacity: This is the ROLAND 900 design.**

### **Simple operator control.**

Each detail emphasizes the sophisticated ergonomoy of the ROLAND 900. A minor example is the location of the operator controls for right-handed and left-handed persons. The operation of this press is notoriously simple and safe for each printman.

### **Easy to maintain.**

Regular maintenance increases the lifetime of your press. Complex maintenance work is really not necessary. Therefore, the ROLAND 900 can make it especially easy for you. For example, the automatic computer-based lubrication system takes care of important lubricating points for a high safety of operation. Daily lubricating intervals are eliminated, and the personnel are relieved of this work.

### **Solid design, safe drive.**

The traditional side frame design is characteristic for the well-built ROLAND 900, giving a high stiffness to the printing units and ensuring an extremely low-vibration press run.

Using a gear train and a longitudinal shaft, the drive prevents mis-registers or doublings during a change of the press speed, or a change of the oscillation timing or during acceleration.

### **High compatibility with the environment.**

Protect the environment, reduce the costs. The various automation and rationalization facilities of the ROLAND 900 can also contribute to the protection of the environment efficiently. Each printed sheet you save, each litre of cleaners, ink or varnish consumed less, will save precious raw materials and avoid environmental pollution.



*The ROLAND 900 easily accessible for each printman.*

## Competent service world-wide.

### **Good advice for all questions.**

MAN Roland and its distribution partners are present in every region of the world. Highly qualified staff members can provide advice regarding the technology, quality and efficiency of our printing machines if you plan a new investment or wish to optimize your production.

### **The Offenbach Graphic Center**

A live demonstration of the press is always most instructive. In our Offenbach Graphic Center approximately 45 printing units are ready for a demonstration on about 3,000 square meters. Even your special stock and your formes can be used for a demonstration.

### **Roland sets a precedent.**

In the Offenbach Training Center MAN Roland can provide training for printmen, electronics and mechanics. CBT, the computer based training via CD ROM, has proved an attractive and efficient method. The interactive three-level training programs not only convey knowledge, but also include exercises and an extensive technical dictionary.

### **Spare part supply.**

A diagnostic system integrated in the machine is responsible for the safety of production for a perfect run. Should a malfunction occur, contact your local MAN Roland partner, if required. Original spare parts needed can be requested by an electronic access to the stock of the world-wide distribution and service partners. Even special parts will be available on the following day in more than 90% of all cases.

### **Using a well-**

**developed distribution and service network, we are in your proximity and available to you for all issues concerning sheet-fed offset printing.**



*You can rely on the world-wide MAN Roland service.*

## ROLAND 900: Printing units, dimensions and details.

	Format 4			Format 5			Format 6		
Printing units	2-8	2-8	2-8						
Sheet format min./max. (mm)	460 x 620-820 x 1,130			500 x 700-890 x 1,260			600 x 850-1,000 x 1,400		
Print area max. (mm) <sup>1</sup>	810 x 1,120			880 x 1,260			990 x 1,400		
Feeder pile height (mm)	1,300	1,300	1,300						
Delivery pile height (mm)		1,300	1,300	1,300					
Plate format (mm)	900 x 1,130			1,035 x 1,270			1,140 x 1,410		
Blanket format (mm) <sup>2</sup>	964 x 1,160			1,109 x 1,340			1,164 x 1,460		
Length <sup>3</sup> /width/height (mm)									
2 printing units			9,160 x 4,350 x 2,610			9,160 x 4,530 x 2,610			9,160 x 4,650 x 2,610
3 printing units			10,750 x 4,350 x 2,610			10,750 x 4,530 x 2,610			10,750 x 4,650 x 2,610
4 printing units			12,341 x 4,350 x 2,610			12,341 x 4,530 x 2,610			12,341 x 4,650 x 2,610
5 printing units			13,931 x 4,350 x 2,610			13,931 x 4,530 x 2,610			13,931 x 4,650 x 2,610
6 printing units			15,521 x 4,350 x 2,610			15,521 x 4,530 x 2,610			15,521 x 4,650 x 2,610
7 printing units			17,112 x 4,350 x 2,610			17,112 x 4,530 x 2,610			17,112 x 4,650 x 2,610
8 printing units			18,702 x 4,350 x 2,610			18,702 x 4,530 x 2,610			18,702 x 4,650 x 2,610
Net weight including feeder (kg)									
2 printing units			41,095			42,020			42,945
3 printing units			55,230			56,430			57,630
4 printing units			68,710			70,185			71,660
5 printing units			82,675			84,425			86,175
6 printing units			96,275			98,300			100,325
7 printing units			110,015			112,315			114,615
8 printing units			123,455			126,030			128,605
Sheet output per hour			13,000			13,000			13,000

<sup>1</sup>)Print start 85 mm, <sup>2</sup>)Pre-railed blanket, <sup>3</sup>)Including optional coating module + 4,067 mm

## Special formats.

	5 B1		5 B2		6 B1		6 B2	
Sheet format max. (mm)	940 x 1,300	965 x 1,300	1,020 x 1,420	1,020 x 1,420				
Print area max. (mm)	930 x 1,300	955 x 1,300	1,010 x 1,420	1,010 x 1,420				
Plate format (mm)	1,050 x 1,310	1,095 x 1,310	1,145 x 1,430	1,165 x 1,430				
Print start (mm)	60	72	72	85				



# ROLAND 900: Standards and options.

Printing units	2	3	4	5	6	7	8
Automatic format adjustment	X	X	X	X	X	X	X
Automatic stock thickness adjustment	X	X	X	X	X	X	X
Parallel and diagonal adjustment of the front mark strip from the central control console	X	X	X	X	X	X	X
Motor-driven adjustment of the sheet arrival time and misaligned sheet correction during the press run	X	X	X	X	X	X	X
Automatic PPL change of plates	X	X	X	X	X	X	X
Register control for circumferencial, lateral and diagonal registers	X	X	X	X	X	X	X
RCI ink control	X	X	X	X	X	X	X
Automatic ink unit separation	X	X	X	X	X	X	X
Remote adjustment of the ink distribution unit	X	X	X	X	X	X	X
Adjustment of the axial clearance for the ink forme rollers	X	X	X	X	X	X	X
Roland Deltamatic damping units	X	X	X	X	X	X	X
Automatic inking roller wash-up device	X	X	X	X	X	X	X
Automatic blanket washer	X	X	X	X	X	X	X
Enhanced plate, blanket and impression cylinder	X	X	X	X	X	X	X
Printing with and without bearer ring contact	X	X	X	X	X	X	X
Diagnostic system	X	X	X	X	X	X	X
Data communication via optical fibre cables	X	X	X	X	X	X	X
Nonstop feeder (manual)	O	O	O	O	O	O	O
Automatic nonstop feeder	O	O	O	O	O	O	O
Automatic impression cylinder wash-up device	O	O	O	O	O	O	O
Coating module with screen roller and chambered doctor blade, including roller lifting device extension	O	O	O	O	O	O	O
Double coating module with two transferer modules	O	O	O	O	O	O	O
Varnish changing system	O	O	O	O	O	O	O
Roland Seccomatic dryer system	O	O	O	O	O	O	O
Perfecting unit	O	O	O	O	O	O	O
Ink unit temperature control	O	O	O	O	O	O	O
LCS (Low Coverage Stabilisation)	O	O	O	O	O	O	O
CCI, Multi CCI, Multi CCI-2D ink control system	O	O	O	O	O	O	O
Automatic nonstop delivery	O	O	O	O	O	O	O
Equipment for print production from G and F flute	O	O	O	O	O	O	O
Production equipment for heavy carton	O	O	O	O	O	O	O
Special formats	O	O	O	O	O	O	O
556 mm base	O	O	O	O	O	O	O
PECOM Process Electronic System	O	O	O	O	O	O	O
AUPASYS material logistic system for feeders and deliveries	O	O	O	O	O	O	O

X = Standard, O = Optional,  
Further information and special configurations on request.