Product Guide

manroland
sheetfed

WE ARE PRINT.®

CONTENTS

3 Foreword
4 ROLAND 700 HiPrint
6 ROLAND 700 *EVOLUTION*
8 ROLAND 900
10 ROLAND 900 XXL
12 ROLAND 500
14 ROLAND 200 / 200 H
15 ROLAND 50
16 printservices®
17 printnetwork®
18 printcom®

Almost 150 years of print technology leadership

Ever since our founding in 1871 and the introduction of the ground-breaking Albatross press four years later, the company that is today Manroland Sheetfed GmbH, has led the world in the development and build of premium quality offset printing presses. Over nearly a century and a half, numerous award-winning technologies and patented inventions have made history and served as benchmarks to the world print industry.

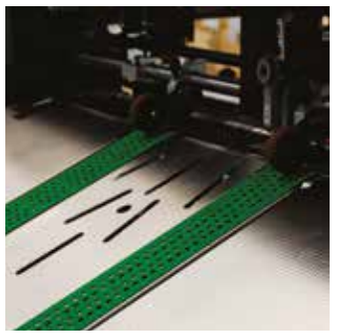
Today, the industry faces challenges on an unprecedented scale. As the chosen partner of many leading print houses around the world Manroland Sheetfed GmbH, together with its in-house R&D department, network of sales and service partners and over 40 own subsidiaries worldwide, is continuing to help ensure profitability and growth for its customers in these rapidly changing times with an array of innovative, cutting edge solutions and with service levels second to none.

The following pages are a brief guide to the products and services offered by Manroland Sheetfed GmbH today. I hope you find it useful and I wish you continued success in print. You are print. We are print.

Rafael Penuela
Chief Executive Officer
Manroland Sheetfed GmbH

ROLAND 700 HiPrint the flexibility to meet new challenges

With over 30,000 units installed worldwide in 3,000 different configurations, the ROLAND 700 HiPrint sets the industry standard for unparalleled flexibility in printing production.



The ROLAND 700 HiPrint handles stock thicknesses from 0.04 mm up to 1 mm as well as PVC foil, making it a genuinely versatile press for every substrate from papers to packaging, cartons and plastics. With inline coating and quality control options and configurable with up to 12 printing units, straight or perfecting, the ROLAND 700 HiPrint is suitable for a diverse array of print applications.

The HiPrint has plate compatibility with many leading manufacturers and can also be retrofitted with Manroland's award-winning InLineFoiler to add maximum value and profit to every job.

Over the past 20 years many technical developments and innovative enhancements have been added to the HiPrint that help customers improve performance, drive productivity and reduce operating costs.

FEATURES AND BENEFITS

- Semi Automatic Plate Loading (PPL™), full Automatic Plate Loading (APL™) and Simultaneous Plate Loading (SPL) for significant reductions in make-ready time
- Brand new 'suction belt' sheet-guiding technology
- Increased maximum printing speed up to 17,000 sheets/h
- New inkjet sheet numbering system for pinpoint accuracy in identifying errors
- Optional InlineInspector and other integrated technologies
- Optional Low Energy Curing (LEC) for faster job processing times and reduced energy usage
- Optional Inline Foiling technology with indexing reduces material waste by up to 60%

TECHNICAL SPECIFICATION

Max. speed:
17,000 sheets/h Max.

Sheet size:
Standard format: 740 mm x 1,040 mm
Optional format: 740 mm x 1,050 mm*
Format 3B Plus: 780 mm x 1,050 mm*

Image area:
Standard format: 715 mm x 1,020 mm
Optional format: 730 mm x 1,030 mm*
Format 3B Plus: 770 mm x 1,030 mm*

Substrate thickness range:
0.04 mm to 1.0 mm

*Available as an option.

TECHNICAL SPECIFICATION

Max. speed:
16,000 sheets/h
18,000 sheets/h*

Sheet size:
Standard format: 740 mm x 1,040 mm
Optional format: 740 mm x 1,050 mm*
Format 3B Plus: 780 mm x 1,050 mm*

Image area:
Standard format: 715 mm x 1,030 mm
Optional format: 730 mm x 1,030 mm*
Format 3B Plus: 770 mm x 1,040 mm*

Substrate thickness range:
0.04 mm to 1.0 mm

*Available as an option.

FEATURES AND BENEFITS

- Ergonomic operating user interface with touch-screens
- Semi Automatic Plate Loading (PPL™), full Automatic Plate Loading (APL™) and Simultaneous Plate Loading (SPL) for significant reductions in make-ready time
- Direct Drive technology
- Total efficiency at 18,000 sph
- Optional 740 x 1,050 mm sheet size for maximum multiple-up images
- Feeder, delivery and dampening units specially designed for high-speed production
- Unique features include TripleFlow inking unit, intelligent speed compensation for inking and dampening units, effective anti-ghosting solutions

ROLAND 700 *EVOLUTION*
the new standard in press technology. The legend has evolved.

The ROLAND 700 *EVOLUTION* supersedes both the ROLAND 700 HS and the ROLAND 700 Direct Drive, on an all-new platform. Designed from the ground up and incorporating a sleek, futuristic look, the latest generation ROLAND 700 incorporates many new technological developments, aimed to give printers unprecedented levels of efficiency, productivity, operation and quality.

Among these new developments are a newly designed central console with touch-screen control, a new feeder pile transport that cuts down on waste, Manrolands' new suction belt sheet handling technology for a more even pile contour, all-new dampening units in the press, bearings that significantly reduce vibration and, when used with the sophisticated software for practice-oriented roller washing cycles, further reduces downtime. The result is enhanced productivity and print quality alongside a further lowering of production costs.

ROLAND 900
new levels of efficiency and quality in large format

This highly automated, high efficiency, large format press produces appreciably more multiple-up images than smaller format presses, with remarkably shorter makeready times.

The ROLAND 900 can be enhanced with the addition of an optional 16,000 sph speed package as well as automatic non-stop equipment for the feeder and delivery. These combine to provide not only continuous high quality output but also unbeatable productivity. The optional AUPASYS material logistic system further increases productivity, making the ROLAND 900 an ideal solution for high volume packaging printers.

Incorporating legendary ROLAND build quality, the innovative DualDrive system ensures outstanding print quality from one job to the next. The DualDrive concept consists of a longitudinal drive shaft and hydrostabilization system, for presses with five or more printing units, that eliminates gear backlash to guarantee perfect register, thereby ensuring exceptional print quality in large format.

FEATURES AND BENEFITS

- Simultaneous Plate Loading (SPL) for significant reductions in make-ready time
- Innovative DualDrive concept to ensure precise and perfect register
- '7 o'clock' cylinder geometry provides a flatter sheet travel path for reliable large format production
- Optional automatic non-stop equipment for feeder and delivery
- Optional QuickChange Clamp in the coating unit
- Optional InLineColorPilot with integrated InLineRegister Control cuts waste and dramatically reduces makeready times

TECHNICAL SPECIFICATION

Max. speed:
14,000 sheets/h Max.
16,000 sheets/h Max.*

Sheet size:

Format 6B1:	1,020 mm x 1,420 mm
Format 6B2:	1,020 mm x 1,420 mm*

Image area:

Format 6B1:	1,010 mm x 1,420 mm
Format 6B2:	1,010 mm x 1,420 mm*

Start of Print:

Format 6B1:	72 mm
Format 6B2:	85 mm*

Substrate thickness range:
0.1 mm to 0.6 mm

Commercial: 0.04 mm to 0.6 mm*
Cardboard: 0.1 mm to 1.2 mm*
Universal: 0.04 mm to 1.2 mm*

*Available as an option.

TECHNICAL SPECIFICATION

Max. speed:

Format 7:	13,000 sheets/h Max.
Format 7B:	13,000 sheets/h Max.
Format 7B plus:	13,000 sheets/h Max.
Format 8:	11,000 sheets/h Max.
	12,000 sheets/h Max.*

Sheet size:

Format 7:	1,120 mm x 1,620 mm
Format 7B:	1,200 mm x 1,620 mm
Format 7B plus:	1,260 mm x 1,620 mm
Format 8:	1,310 mm x 1,870 mm

Image area:

Format 7:	1,110 mm x 1,620 mm
Format 7B:	1,190 mm x 1,620 mm
Format 7B plus:	1,250 mm x 1,620 mm
Format 8:	1,290 mm x 1,850 mm

Substrate thickness range:

0.1 mm to 0.6 mm

Commercial: 0.04 mm to 0.6 mm*
Cardboard: 0.1 mm to 1.2 mm*
Universal: 0.04 mm to 1.2 mm*

*Available as an option.

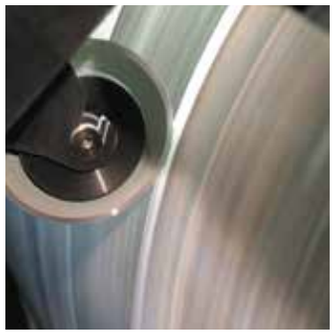
FEATURES AND BENEFITS

- Semi Automatic Plate Loading (PPL™), full Automatic Plate Loading (APL™) and Simultaneous Plate Loading (SPL) for significant reductions in make-ready time
- Largest perfecting press in the world, capable of 64 A4-page production in a single pass, perfecting at 10,000 sph
- 'One pass' productivity offers dramatically reduced number of wash-up cycles and shorter makeready times
- Highly productive large format, from sizes 7, 7B and 7B Plus, to 8 (including perfector)
- Optional solutions including Manroland QuickChange and InLine series technologies

ROLAND 900 XXL
standing alone in large format perfecting excellence

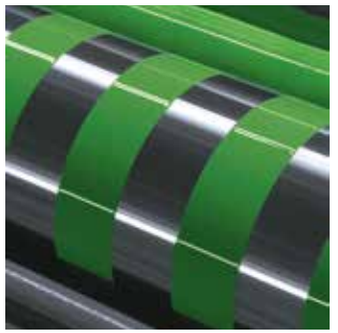
Able to print 64 A4 pages in one pass in size 8, the ROLAND 900 XXL perfector is able to meet and exceed all the challenges of large format sheetfed offset printing. Furthermore, three additional formats (7, 7B & 7B Plus) are ideal for individual customer demands.

With the optional ROLAND InLineColorPilot, the ROLAND 900 XXL Perfector is the only sheetfed press at this size with a fully automatic system to ensure consistent color and register. Productivity can be further enhanced by integrating the optional ROLAND InLineSlitter, ROLAND InLineCoater, or double coating modules. In addition, optional Automated Plate Loading (APL™) technology reduces the operators' workload, reduces job change over time and increases productivity when compared to a standard large format perfecting press.



ROLAND 500
the world's flattest sheet travel ensures the best results

The ROLAND 500 offers the world's flattest sheet travel and even with substrates up to 1 mm thick and speeds of up to 18,000 sheets per hour it delivers outstanding printing quality.



Three different height settings for the transferter gripper bars allow sheets from 0.04 mm to 1 mm to be transported through the press gently and virtually contact-free over the air tracks.

With its ability to process a greater variety of substrate thicknesses, the ROLAND 500 can handle the work of two machines dedicated for paper and board respectively.

A wide range of optional Manroland applications including InLineCoating Unit with automated plate tensioning, InLineFoiler and InLinePerfector allow for a wider range of jobs with higher quality finishes and enables print companies to position themselves at the top end of their market.

FEATURES AND BENEFITS

- Highest quality output through flat, gentle sheet travel
- Automated clamping and tensioning system for relief plates or coating blankets ensuring higher production efficiency
- Maximum speed of 18,000 sph further enhances production efficiency
- Highest levels of flexibility thanks to a substrate range of 0.04 mm to 1 mm
- A variety of optional inline functions to help print companies achieve optimum return on investment
- Format 0B Plus (590 x 740 mm)*
- Optional InLineColorPilot with integrated InLineRegister Control cuts waste and dramatically reduces makeready times

TECHNICAL SPECIFICATION

Max. speed:
16,000 sheets/h Max.
18,000 sheets/h Max.*

Sheet size:
530 mm x 740 mm
590 mm x 740 mm*

Image area:
520 mm x 740 mm
580 mm x 740 mm*

Substrate thickness range:
0.04 mm to 1.0 mm*

*Available as an option.

ROLAND 200 / 200 H
high output in a small space

Occupying the same space as a standard small format press, the ROLAND 200 delivers considerably more output in one pass and the 200 H, with optional high pile capability, also delivers impressive efficiencies on high-volume print runs with thicker substrates.

TECHNICAL SPECIFICATION

Max. speed:
ROLAND 200 – 13,000 sheets/h Max.
ROLAND 200 H – 15,000 sheets/h Max.

Sheet size:
520 mm x 740 mm Max.

Image area:
510 mm x 735 mm

Substrate thickness range:
0.04 mm to 0.8 mm

Measuring just 5.4 m x 2.9 m, the typical four-color ROLAND 200 fits almost anywhere and is the only press in its format class with the flexibility to process substrates from 0.04 to 0.8 mm thick.

With optional board handling equipment, the ROLAND 200 delivers remarkably flat, mark-free sheet travel and, with up to five or six printing units, offers added value opportunities with inline finishing, coating and drying options as well as optional scoring and perforating.

Moreover, the 1,000 mm pile height of the ROLAND 200 H enables greater productivity through fewer pile changes.

FEATURES AND BENEFITS

- Lower space requirements and rapid installation
- Remote Controlled Inking (RCI) system and optional ColorPilot Smart System shortens makeready times
- Double-diameter impression cylinders and transferters ensure gentle sheet travelling
- Impressive flexibility on substrates
- ROLAND 200 H high pile delivery reduces frequent pile changes
- ROLAND InLineCoater Smart for enhanced printing options

FEATURES AND BENEFITS

- Double diameter impression cylinders and transferters provide contact-free sheet travel
- Highly precise ink slides enable color to be accurately matched and reproduced
- Optional ROLAND SelectAntistatic efficiently eliminates static from difficult paper

ROLAND 50
a true leader in the small format class

The ROLAND 50 offers simple operation, shorter makeready times and higher production flexibility in the 36/52 format class.

With remote register adjustment, the ROLAND 50 also includes automated plate loading with Ergonomic Plate Loading (EPL) technology as well as an optional fully-automated blanket wash. In addition, easy-to-clean ink fountains with a special QuickChange Surface coating further help to reduce makeready times.

Its unique substrate range, with thicknesses from 0.04 mm to 0.8 mm, offers printing companies the flexibility to expand into new markets.

With a pile height of 700 mm, the ROLAND 50 offers one of the highest deliveries in 36/52 format.

*Available as an option.

TECHNICAL SPECIFICATION

Max. speed:
13,000 sheets/h Max.

Sheet size:
360 mm x 520 mm Max.
380 mm x 530 mm Max.*

Image area:
350 mm x 515 mm
370 mm x 525 mm*

Substrate thickness range:
0.04 mm to 0.8 mm

customer support program

printservices®

Our customers have invested in what many consider to be the world's finest press. To ensure the highest possible return on this investment, Manroland provide a comprehensive suite of support services that are second to none.

printservices® helps customers achieve reliability, efficiency and flexibility in production as well as long-lasting output quality to help ensure business success.

With printservices®, customers can access the wide-ranging knowledge and expertise of Manroland's print consultants. Their extensive experience can be brought to bear on every aspect of print production, from plant set up through to staff training, to further ensure customers' print operations reach optimum productivity.

printservices® also encompasses the Manroland TelePresence service. Using the very latest in analysis methods and diagnostic tools, a press fault can be detected remotely from the TeleSupportCenters, and in many cases immediately rectified. Accessible 24 hours a day, 7 days a week, Manroland service centers are located in different time zones. So wherever customers are in the world, their service request is routed to a manned location keeping flat rate costs to an absolute minimum.

- **Maintenance**
- **Spares and wear parts**
- **Upgrades**
- **Remote Diagnostics**
- **Training**
- **Consultancy**

printnetwork®

networking and quality

printnetwork® delivers automated workflow solutions that cover the production chain from pre-press preparation and scheduling through to job preparation and quality analysis. Furthermore, printnetwork® provides a wide range of products to measure, control and standardize print quality.

Press Management

printnetwork® Press Management products are the control center for job creation and job planning as well as the information center regarding operation, production and quality data reports from the printing press. Benefits of the high-end networking are not only easier job preparation and machine scheduling – which could be carried out centrally in the office – but also error identification and elimination in an earlier stage.

Quality Management

As a significant part of the comprehensive quality management system, the printnetwork® Quality Management color measurement systems support the measurement, control and documentation of standards compliance with maximum accuracy at the highest printing speeds. They increase the effectiveness and efficiency of high performance presses providing previously unattainable precision. Furthermore, inline sheet inspection detects every faulty sheet before the delivery and creates reports of the entire production quality.

consumables

printcom®

Manroland's R&D department drives the on-going development of components and materials to continually set new standards in print. printcom® supplies customers with extensively tested, certified and process-compliant system components to further refine and optimize their printing systems. The use of expertly produced, consistently manufactured materials can significantly cut wastage, save energy costs and reduce environmental impact.

Overall customer costs can be further reduced right from the outset with materials procurement and storage provided through a dedicated local logistics network. Moreover, with the availability of quality press parts increased press up-time is more easily maintained and more efficiencies achieved.

The comprehensive printcom® product portfolio ensures the availability of the correct components whatever the customer's needs.

- **Printing plates**
- **Chemicals**
- **Blankets**
- **Washes**
- **Fountain solutions**
- **Auxiliaries**
- **Silicones & coatings**
- **Inks**
- **Printing Rollers**
- **Anilox Rollers**
- **Wash-up Brushes**
- **Lubricants**

Product specification may vary according to region.
For details please contact Manroland Sheetfed GmbH or the distributor in your area.

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Not all presses are made equal

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Manroland Sheetfed GmbH. Sheetfed Systems (GB) 04/2016/ Issue 3. Due to a policy of continued improvement, we reserve the right to change any specification without prior notice. ERRORS & OMISSIONS EXCEPTED. Printed on a ROLAND 700 HiPrint press.

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