

Three squares of different shades of gray and white are arranged in a small cluster on the left side of the slide.

Multitasking is the capability
to perform several tasks simultaneously.

The ROLAND 700 DirectDrive.

Three squares of different shades of purple and blue are arranged in a small cluster on the right side of the slide.

The logo for manroland, featuring the word "manroland" in a sans-serif font. The "ro" is in a darker blue, while the rest of the letters are in a lighter blue. To the right of the text is a graphic consisting of four squares arranged in a 2x2 grid. The top-left square is light blue, the top-right square is a slightly darker blue, the bottom-left square is a medium blue, and the bottom-right square is a darker blue.

Some of the functions described above are options (identified by *Option) and not standard equipment for the ROLAND 700 DirectDrive. They can be combined to provide customer-specific configurations in accordance with the valid options price list. The ROLAND 700 DirectDrive is subject to continuing development. Experience gained in practice and the results of research flow into product design. It is therefore in your interest that we reserve the right to make design and specification changes. Only the written Confirmation of Order is binding. The contents of this document, in particular brand names, logos, texts, illustrations and diagrams, are the property of manroland, unless otherwise identified, and are protected by law. Reproduction or utilization of this document as well as the communication of its content to others without explicit written authorization by manroland is prohibited. A civil action will be brought against offenders. All rights are reserved in the event of the granting of patents, utility models or designs.

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ROLAND 700 DirectDrive



manroland



With an order structure of eight to ten job changes per day, the ROLAND 700 DirectDrive really shows its strengths.

Most people can't do two things at the same time. Printers can do up to twelve.

ROLAND 700 DirectDrive Efficiency Features

The ROLAND 700 DirectDrive makes every printer multitasking-capable. Tasks such as plate changing that previously had to be done successively can now take place simultaneously in up to twelve printing units. This development was honored with the 2007 German Printing Industry Innovation Award. DirectDrive is for us an important component of our “Value Added Printing” strategy.

The shortest makeready times. A ROLAND 700 DirectDrive press can reduce makeready time by up to 60 percent¹ compared with a conventional sheetfed offset press. This is made possible by the interplay of a number of different technologies. Directly driven **1** plate cylinders permit all printing plates to be changed simultaneously. Every printing unit is equipped with the fully-automated plate changing system (APL™) **2** that further simplifies the printer's work. The great advantage is that all plates can be changed in only one minute regardless of the press configuration. In effect no time at all is needed for plate changing (ZeroTimePlateChange). It takes place during the three to four minutes needed for simultaneous washing of the impression and blanket cylinders.

QuickChange modules*. Numerous QuickChange modules reduce makeready time for the ROLAND 700 DirectDrive even further. Two examples: QuickChange Job starts an automated sequence of all makeready steps preselected by the printer, and this is done without any further operator involvement, which allows other tasks such as loading the feeder to be attended to. QuickChange Air stores all press air settings which raises productivity considerably with repeat jobs.

Electronic print length correction. This facility enables the operator to correct the print length during production which avoids time-consuming addition or removal of underpacking sheets in the printing unit concerned. Fast, easy and error-free from the control console.

The combination of DirectDrive and APL™ permits fully-automated plate changing in only one minute – simultaneously in all printing units.



¹ According to the values provided by The German Printing and Media Industries Federation for cost and performance calculations

* Option



Fast-reacting remote
inking control from the
PressPilot console.

Printing quality is an enduring competitive advantage.

ROLAND 700 DirectDrive Quality Features

The ROLAND 700 DirectDrive is uncompromisingly designed to produce the highest printing quality. This is ensured by the high-performance inking units characterized by fast reaction and a large storage capacity for stable inking over the entire run. In simple terms: a printing quality that inspires.

Perfect ink distribution. The optimized number of rollers in the inking unit ensures that the balance between storage capacity and fast reaction is always maintained. This fast reaction makes remote inking control and remote adjustment of the oscillation start angle particularly effective.

Flat sheet travel. Trust: the modern principle of double-diameter impression cylinders and transferers provides gentle sheet travel for substrates up to 1 millimeter thick. But verify: the ROLAND InlineObserver* **1** enables the printer to monitor sheet travel and thus makes sure the settings are always optimal.

Precise register. In addition to the plate cylinder direct drive system, the press is driven by a longitudinal shaft and gear train **2**. Above all with long press configurations, this dual drive guarantees high printing quality and perfect register over the entire lifetime of the press.

Smooth and gentle delivery. Even at high press speeds, the AirGlide delivery **3** produces perfectly even stacks, thanks to the particularly flat sheet ascent and long sheet stabilization path.

Inline enhancement*. The ROLAND 700 DirectDrive can be equipped with a single **4** or double coating module for a wide variety of enhancement applications. With the extremely precise chambered doctor blade system, the coating layer is metered exactly in the highest quality.

The ROLAND
InlineObserver uses
up to 27 cameras to
monitor sheet travel.



*Option



99 millimeters provide meaningful financial benefits.

ROLAND 700 DirectDrive Flexibility Features

There is yet another advantage when perfecting: with the start of print correction, the ROLAND 700 DirectDrive is even more flexible in sheet size selection. Up to 99 millimeters to be precise.

Less expensive paper. The start of print **1** can be altered by up to 99 millimeters which makes perfect register independent of the sheet size to a large extent. This permits the use of formats that are currently available at favorable prices or are in the paper store.

High substrate versatility. The ROLAND 700 DirectDrive can process 0.04 millimeter thin paper up to cardboard 1 millimeter thick, as well as PVC foil. This makes the ROLAND 700 DirectDrive the ideal press for paper and cardboard – especially with short runs.

QuickChange Color*. QuickChange Color is a unique innovation for sheetfed presses. Self-learning software takes manual position corrections to the ink slides into account. QuickChange Color not only provides a re-start sequence that reduces substrate waste but also has flexible ink flow control. This enables the printer to choose between normal ink distribution, or more to the front of the sheet, or more to the rear. They can thus react very flexibly to the requirements of different images, inks and applications.

A modular concept. The configuration possibilities of the ROLAND 700 DirectDrive are virtually unlimited: four to twelve printing units, short and long perfectors, plus inline configurations with coating modules* and quality control systems. Everything is possible.

*Option



The ROLAND
InlineInspector detects
even the smallest fault
at full printing speed.

A modular concept
for individualized
configurations.

