

KOENIG & BAUER

# Rapida 75 PRO – Versatile and efficient



we're on it.



## Rapida 75 PRO: Future-oriented performance in B2 format

More equipment features and more automation – that aptly summarises the concept of the Rapida 75 PRO. With this B2 press, you gain a firm foothold in the upper performance segment. Look forward to printing speeds of up to 15,000 sheets/h – or even 16,000 sheets/h as an option.



As if that were not enough, the Rapida 75 PRO stands out with a new operating concept. The ErgoTronic console with TouchTronic control is now also standard for the small Rapida presses, eliminating the previous distinction between a delivery display for press operation and a console for job management.

Makeready is another point where the Rapida 75 PRO excels. Fully automatic plate changing, CleanTronic washing systems, “one-button job changes” and motorised register setting reduce the time required and relieve the printer of many routine tasks.

Time-proven solutions are naturally retained, for example the established mechanical platform of all process-critical press sub-assemblies. The Rapida 75 PRO boasts an exceptionally low energy consumption and is a true space-saving wonder. Even so, it offers a maximum sheet format beyond the class norm, namely 53×75 cm as standard or 60.5×75 cm as a special format. When printing in the US letter format or typical magazine and catalogue formats, there is room for up to two extra copies on each sheet.

The Rapida 75 PRO is similarly more flexible than ever before with regard to its configuration options. It can be supplied with up to ten colours, with or without an additional coater and perfecting facilities. A double coater press is also available for high-quality inline finishing. Both commercial and packaging printers are sure to be delighted.



**Perfect  
pile management and reliable  
sheet infeed**

The Rapida 75 PRO features a modern, high-performance feeder. It has been engineered for printing speeds up to 16,000 sheets/h and is equipped with a pile plate for the use of pallets.

Many setting functions can be controlled centrally via the ErgoTronic console. That helps to speed up substrate and pile changes.

A non-stop facility for longer runs, a board-handling package and further useful accessories round off the feeder. Substrates of all weights and thicknesses are transported into the printing units with unerring reliability.

#### Feeder

- High-performance feeder for a broad spectrum of substrates
- Efficient feeder head for reliable separation and feeding of the sheets
- Central format setting for the feeder head, side guides and side blowers via the Ergo-Tronic console
- Side blowers to assist sheet separation
- Skew-sheet correction for reliable sheet travel
- Automatic pile side edge control and pile lift adaptation by way of sensors
- Non-stop pile changing based on individual rods to enable uninterrupted production (option)

#### Suction-belt feed table

- Stainless, antistatic structured surface
- Two suction belts
- Multi-chamber vacuum system and roller arm with sheet guiding elements for exact sheet transport
- Mechanical sheet deceleration to ensure optimum sheet arrival speed at the front lays



#### Infeed

- Swing arm and single-size feed drum
- Pneumatic side lay and Venturi air nozzles for optimum sheet alignment
- No need to adjust the front lay cover height to accommodate different sheet thicknesses
- Diagonal adjustment of the feed line by  $\pm 0.3\text{mm}$

#### Sheet sensors

- Ultrasonic and electromechanical double-sheet detectors
- Optical front lay sensors
- Electropneumatic overshoot protection for mistimed, skewed or double sheets



# Precise sheet travel in straight printing and perfecting

The printing units of the Rapida 75 PRO follow the mature and proven mechanical design of all half-format Rapida models.

The cylinder geometry is defined such that substrates pass from the first to last printing unit along an almost flat path. In this way, both thin lightweight papers and heavy rigid substrates can be printed effortlessly and in top quality.

An automatically convertible perfecting unit can be incorporated to enable printing on both sides of the sheet in a single pass. An impressively diverse spectrum of jobs is handled with ease, right up to 4-over-4 or 5-over-5 applications, with additional coating if you require. And that all with outstanding efficiency.

## Design principle

- Unit design with double-size impression cylinders and transfer systems for reliable sheet travel
- 7 o'clock cylinder arrangement
- Side frames joined with sturdy crossbeams
- Corrosion-free coating of cylinder surfaces
- Precise cylinder rolling thanks to bearer contact and play-free bearings
- Mechanical bearer cleaners
- Central lubrication

## Sheet travel

- Mechanical and air-based sheet guiding for substrates up to 0.6 mm thickness
- Board-handling package (CX) with additional blowers, comb suckers and sheet guiding elements for substrates up to 0.8 mm thickness
- Sheet travel sensors
- Transfer systems without drum shells

## Universal gripper systems

- Same grippers and gripper shafts as on Rapida presses for medium and large formats
- Hardened gripper tips and finely structured gripper pads for maximum holding forces
- Precise register stability at all speeds and with all substrates
- No settings required when switching to a different substrate
- High register precision over the whole run

## Register setting

- Remote register setting from the ErgoTronic console
- Motorised plate cylinder adjustment to control lateral and circumferential register
- Diagonal register adjustment achieved by tilting the transfer drums

## Perfecting

- Three-drum perfecting unit with double-size systems to accommodate a broad spectrum of substrates
- High register stability
- Special gripper system to keep the rear edge of the sheet tight
- Fully automatic mode conversion completed in a maximum of 2 minutes
- Jackets on the impression cylinders and removable drum shells with an ink-repellent surface on the transfer drums for marking-free sheet travel after perfecting
- Gentle sheet guiding based on blower air
- Delivery with pre-suction plate and suction roller with 3 suction rings (different ring widths for particular application needs)

# Fast into colour and plate change made-to-measure

Open-design inking units and a single ink train are typical features of Rapida presses. The immediate benefits are good heat dissipation and stable inking conditions. That is also the case on the Rapida 75 PRO. At the same time, the fast reaction serves to reduce waste.



## Inking unit

- Fast-reacting single-train inking unit, with optional temperature control for the oscillating cylinders
- Ink vibrator frequency controlled from the ErgoTronic console in 5 steps
- Oscillation timing adjustment from the ErgoTronic console
- Manual activation/deactivation of ink forme roller oscillation for an even, ghosting-free print result (option)
- Automatic disengaging of unused inking units from the ErgoTronic console (option)

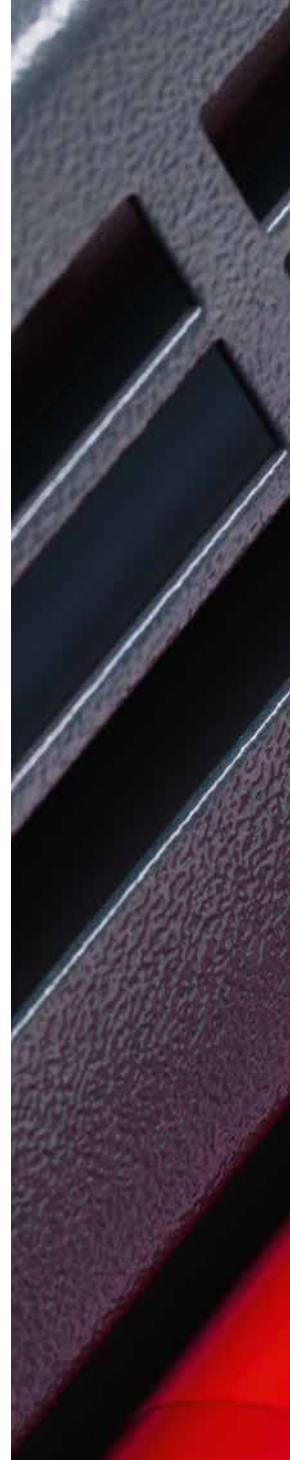
In accordance with the requirements of your individual production profile, you can choose either automated plate changing with SAPC or else the FAPC system for a fully automatic change process.

## ColorTronic ink duct

- Flexurally rigid, ceramic-coated ink duct roller
- Ink duct roller speed compensated to the press speed to ensure constant ink transfer
- Wear-free ink metering with 25 carbide-tipped ink keys
- Dynamic inking control for fastest possible reaction
- Ink duct foil can be used to facilitate fast ink changes

## Dampening unit

- Speed compensated film-type dampening unit for a stable ink-water balance
- Skewing of the dampening duct roller to adapt dampening solution distribution over the format width
- Oscillating bridge roller in contact with the ink forme roller for ghosting-free print and high inking stability
- Optional differential drive controlled from the ErgoTronic console to eliminate hickeys
- Additional chrome rider roller – fixed or oscillating (option)







#### **Plate change**

- Automated plate change system SAPC (tool-free mounting and removal, automatic clamping and tensioning, change time approx. 50 seconds per printing unit)
- Fully automatic plate change system FAPC

#### **Washing systems**

- CleanTronic roller and blanket washing system
- CleanTronic Synchro: Parallel roller, blanket and impression cylinder washing
- Quick-release fittings for fast washing beam removal without tools
- Individual adaptation of washing programs to different substrates
- Washing program selection and solvent/cloth consumption display at the ErgoTronic console
- CleanTronic Synchro: Parallel blanket and impression cylinder washing with two washing beams for even faster makeready (washing at 7,000 sheets/h)
- CleanTronic Multi: Washing system for alternating ink systems (UV/conventional) with two separate solvent circuits and one water circuit
- CleanTronic UV: Washing system for UV applications, with safety functions to eliminate waiting times before and after washing

**Rapida 75 PRO:**

**Versatile and  
efficient**



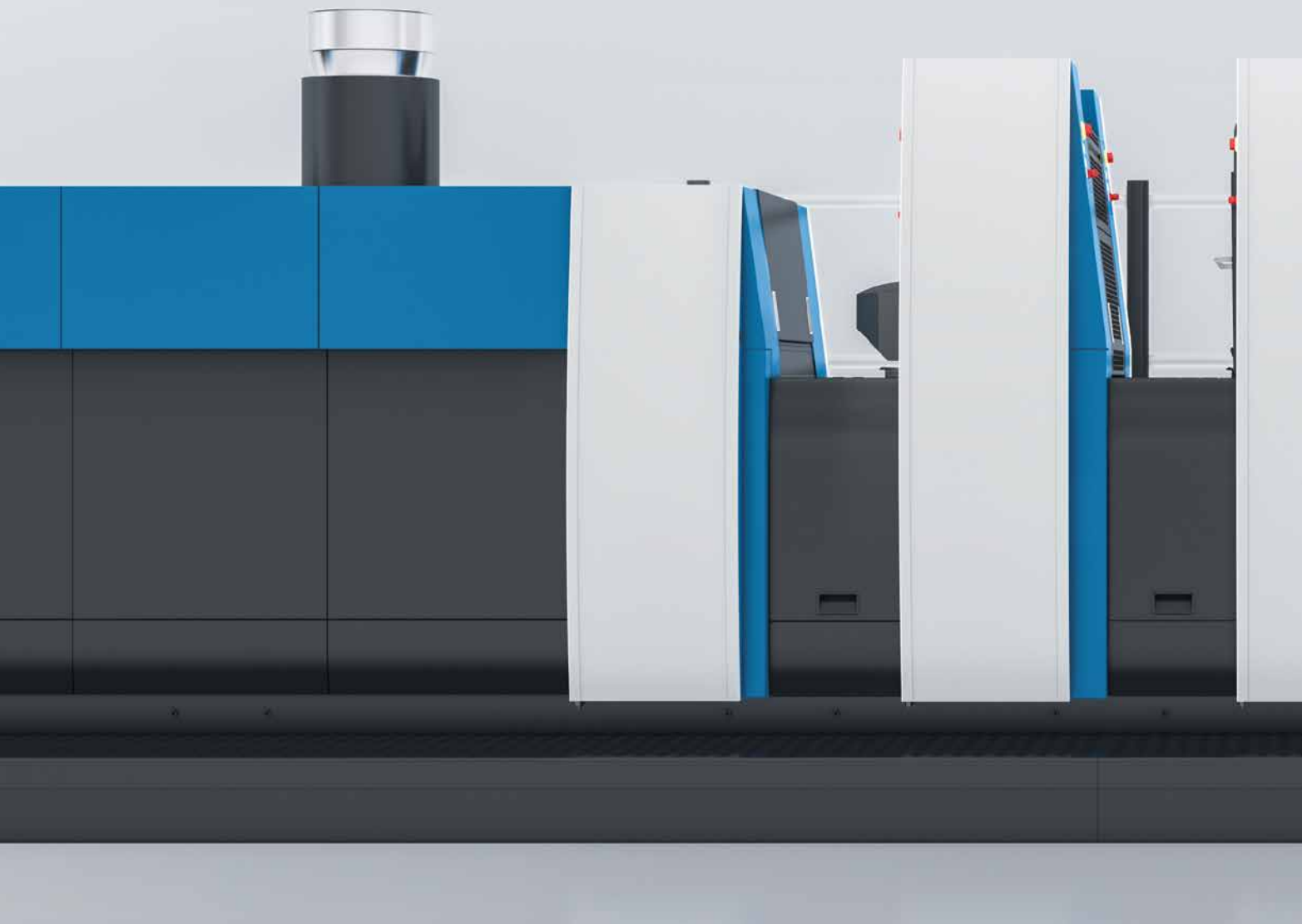
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#### Console and measuring systems

- ErgoTronic console with TouchTronic control
- ErgoTronic ACR (Automatic Camera Register) – Option: ErgoTronic ImageZoom (video magnifier)
- ErgoTronic ColorDrive (online density measurement) – Options: ErgoTronic Lab, ErgoTronic QualityPass, ErgoTronic Instrument Flight, ErgoTronic PSO Match
- QualiTronic ColorControl (inline density measurement) – Options: QualiTronic QualityPass, QualiTronic DotView, QualiTronic ColorView, QualiTronic Instrument Flight, QualiTronic PSO Match

#### Delivery

- High-level delivery for smooth sheet transport
- Different sheet guiding systems for straight and perfecting presses
- Different sheet brakes for straight and perfecting presses
- Dropping height adapted to the substrate thickness for gentle sheet delivery
- Non-stop pile-changing facility (rake) for uninterrupted production
- Delivery extension by 1,410 mm (ALV2) or 2,100 mm (ALV3)
- EES (Emission Extraction System)



### **Dryers**

- VariDry<sup>Blue</sup> IR/hot air
- VariDry UV
- VariDry HR-UV
- VariDry LED-UV
- VariDry<sup>Blue</sup> IR/hot air/UV

### **Coater**

- Chamber blade system with hydro-pneumatic chamber control
- Lightweight anilox roller
- Coating forme cylinder with clamping bars for blankets; optionally quick-action clamps for coating plates
- Automated coating forme change (SAPC)
- Different coating supply systems
- Register setting from the ErgoTronic console
- Additional anilox rollers

### **Plate change**

- Automated plate change system SAPC (tool-free mounting and removal, automatic clamping and tensioning)
- Fully automatic plate change system FAPC



### **Washing systems**

- CleanTronic roller and blanket washing system
- CleanTronic Synchro: Parallel roller, blanket and impression cylinder washing
- CleanTronic Multi: Washing system for alternating use of different ink systems
- CleanTronic UV: Washing system for UV applications

### **Printing unit**

- Mechanical and air-based sheet guiding for substrates up to 0.6 mm thickness
- Board-handling package (CX) for substrates up to 0.8 mm thickness
- Sheet travel sensors

### **Inking unit**

- Manually switched ink forme roller oscillation
- Automatic disengaging of unused inking units
- Inking unit temperature control
- Accessories for rainbow printing
- Ink supply system



#### Dampening unit

- Roller coating for low-alcohol printing
- Differential drive switched from the ErgoTronic console
- Additional chrome rider roller (fixed/oscillating)

#### Feeder

- Central format setting for the feeder head, side guides and side blowers
- Non-stop pile changing based on individual rods
- Antistatic systems
- Diagonal adjustment of the feed line by  $\pm 0.3$  mm
- Double-sheet detectors and over-shoot protection

#### General

- HighSpeed package
- Board-handling package (CX)
- Equipment package "Touch-Free Guidance"
- Antistatic equipment packages
- UV/mixed operation
- Anilox coater with chamber blade
- Perfecting
- Extended deliveries
- Raised press foundations
- Double coating
- Dryer units





## Shining finishes: Solutions for elegant refinement

Single or multiple coatings, gloss or matt, all-over or spot finishes – with the Rapida 75 PRO, you can realise the full spectrum of inline coating possibilities in sheetfed offset.

Press configurations with two coaters achieve ultimate quality and maximum gloss levels for especially demanding coating applications.

The Rapida 75 PRO also offers a solution to satisfy your every wish when it comes to drying: From the energy-saving VariDry<sup>Blue</sup> technology to HR- or LED-UV systems.







#### Chamber blade system

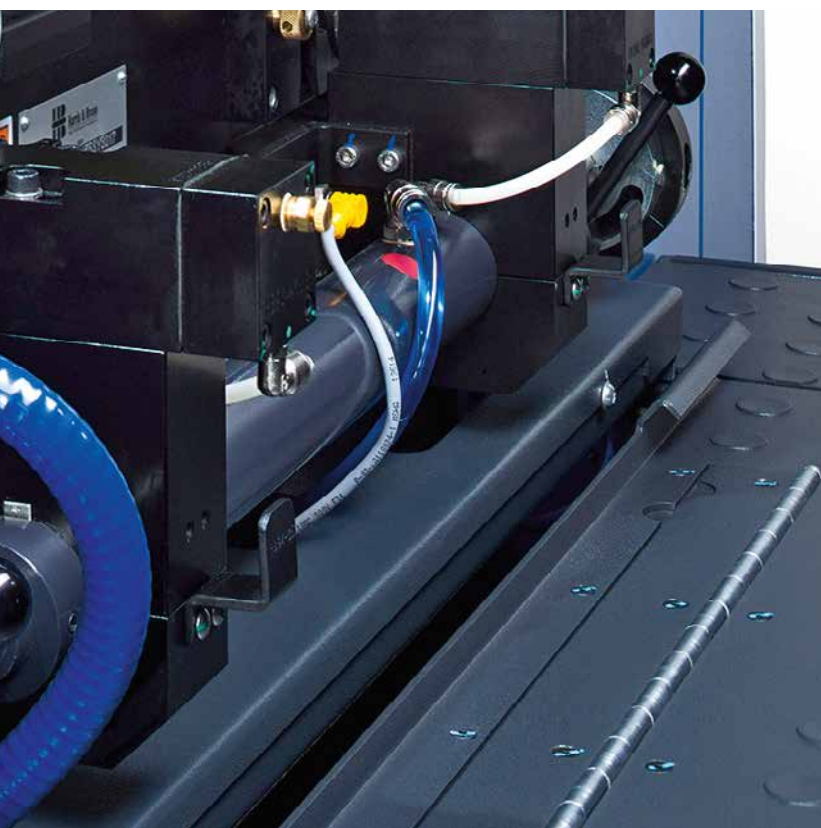
- Hydropneumatic chamber control for constant and even coating application
- Lightweight anilox roller
- Quick-release locking mechanism for fast and simple anilox roller exchange

#### Coating forme cylinder

- Coating forme cylinder with clamping bars for blankets; optionally quick-action clamps and register pin system for exact positioning of the coating forme
- Use of railed blankets or foils; optionally flexible photopolymer or aluminum-based coating formes
- Automated coating forme change (SAPC)
- Remote adjustment of lateral, circumferential and diagonal register from the ErgoTronic console

#### Coating supply

- Choice of simple or automatic coating supply systems for dispersion and UV coatings
- Switch between dispersion and UV coatings in approx. 15 or 6 minutes, depending on system variant chosen
- Simple coating change in 1 to 2 minutes
- All further makeready processes run parallel to cleaning of the coating circuit
- Both systems controlled from the ErgoTronic console



#### Dryer systems

- VariDry<sup>Blue</sup> IR/hot air:
  - Recirculation of the warmed but only partially saturated drying air from the swan neck reduces heating energy input; energy savings and lower CO<sub>2</sub> emissions thanks to efficient energy utilisation
- VariDry UV:
  - Stepless control up to maximum output; use of electronic ballasts for shorter warm-up/cooling times; operating hours counter for each module; lamp replacement without tools
- VariDry HR-UV:
  - Use of iron-doped lamps; a single module is sufficient to cure up to five colours printed wet-in-wet; low energy consumption; no ozone; minimal powder application; immediate further processing
- VariDry LED-UV:
  - Use of LED-UV lamps with long service life; LEDs switched off automatically in accordance with the format length and width; no warm-up and standby phases; lowest energy consumption; mercury-free; no ozone; no odours or heat input into the substrate; minimal powder application; immediate further processing
- VariDry<sup>Blue</sup> IR/hot air/UV: Combination of infrared, hot-air and UV drying in a three-section extended delivery for flexible mixed operation with conventional and UV systems

# Optimum piles for fast further processing

Perfectly formed piles are the most important prerequisite for trouble-free downstream handling. Depending on the individual press configuration, different sheet guiding systems ensure optimum pile formation on the Rapida 75 PRO.

Another point which cannot be taken for granted in this format class: The delivery of the Rapida 75 PRO is equipped with a pile plate. The printed pile can thus be removed from the delivery in all three directions.

#### Sheet travel

- High-level delivery for smooth sheet transport
- Touch panel for reliable and intuitive press operation
- Speed-compensated gripper opening cam for a broad range of substrates
- Individual fan settings via the delivery touch panel
- Different sheet guiding systems (Venturi blower air for perfector presses and with equipment package "Touch-Free Guidance"; vacuum air for straight printing presses with extended delivery)
- Dropping height adapted to the substrate thickness for gentle sheet delivery
- Non-stop pile-changing facility (rake) for uninterrupted production

#### Powder sprayer

- Reliable, format-dependent powder metering for high process stability
- Monitoring of powder spray pressure and filling level

#### Sheet brake

- Suction roller with 6 fixed suction rings (outer suction rings can be activated or deactivated as required) or three adjustable suction wheels for perfector presses and as part of the equipment package "Touch-Free Guidance"

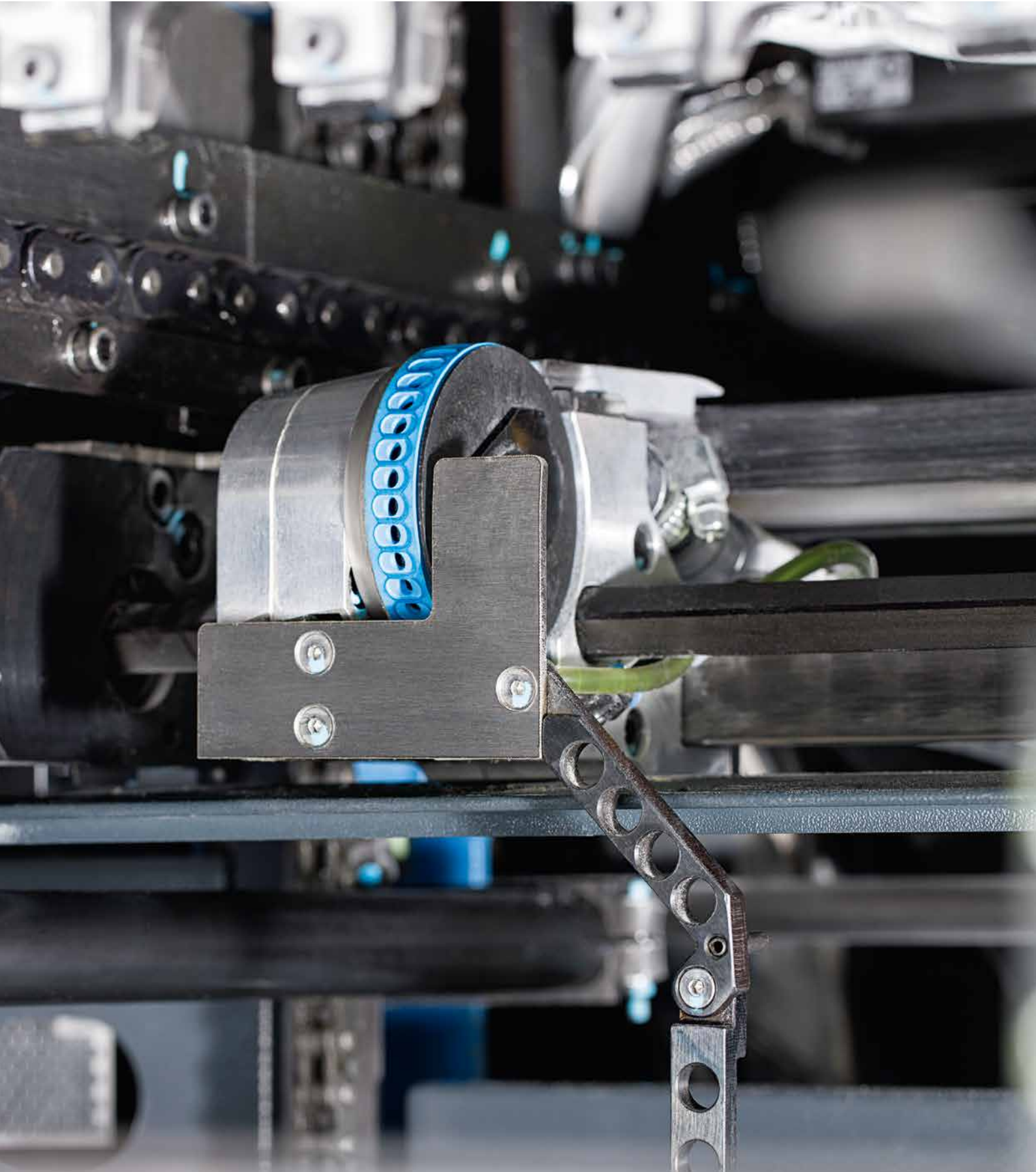
#### Extraction system EES

- Optional extraction system to eliminate health hazards from ozone and VOC emissions

#### Extended delivery

- Delivery extension by 1,410 mm (ALV2) or 2,100 mm (ALV3)
- Enhanced productivity when coating thanks to longer time for drying





# ErgoTronic console technology with new and simple operating philosophy

Thanks to comprehensive console and preset capabilities, alongside an ergonomically arranged and intuitive user interface, work on the Rapida 75 PRO is child's play. All operating functions are clearly structured for process-oriented access via the modern touchscreen monitor.



Additional touchpanels with direct function keys help to maximise operator convenience at the feeder and delivery – directly on the press itself. The Rapida 75 PRO also possesses tailored workflow components for integration into company-wide production control and management systems.

## **ErgoTronic**

- Wallscreen for visualisation of all press settings
- Live image from QualiTronic ColorControl on wallscreen
- ColorTronic ink metering with ink profile displays on console
- Integration with existing DensiTronic Professional possible
- Sheet inspection desk with adjustable desk angle
- Motorised console height adjustment with memory function
- USB port for fast communication of job data
- Uninterruptible power supply to enable controlled press shutdown in case of power supply failure
- Integrated remote maintenance module with Internet link for remote maintenance and software updates

**Control console functions  
(dependent on incorporated options)**

- Job changeover program JobAccess for automatic job presetting
- Job-specific saving of all relevant press parameters for repeat jobs
- Remote register setting
- Control for all peripheral equipment
- Maintenance indicator and print-outs of maintenance lists
- Unbroken production data acquisition in conjunction with LogoTronic Professional
- Creation and printing of pile docket
- Preview images

**TouchTronic operating functions**

- Touchscreen for intuitive access to all press functions
- Less start-up waste thanks to new functions to establish ink profiles
- All operating functions accessible with no more than two clicks
- Job list with preview images and functions for job order optimisation based on ink coverage data
- Uncomplicated handling of spot colours

**Job changeover program JobAccess**

- Preparation of the next job while production is still running
- Makeready savings up to 50%
- Automatic execution of all preselected makeready processes in time-optimised order
- Presetting of format and substrate thickness
- Presetting of all substrate-specific air settings
- Job-specific presetting of ColorTronic ink metering
- Preselection and activation of washing functions

**Specials/process automation**

**ErgoTronic AutoRun**

- Autonomous execution of a prepared job list (especially in commercial printing)
- Makeready tasks, production, and colour and register control run automatically as elements of a single integrated process
- Sheet counter is started automatically when the target colour densities are attained
- Operators simply monitor the process sequence and are relieved of routine tasks

**ErgoTronic console with integrated measuring systems**

- In addition to the standard ErgoTronic features
- Sheet inspection desk as vacuum board with fixed desk angle
- ErgoTronic ColorDrive or ColorControl for density and Lab measurements

**CIPLink**

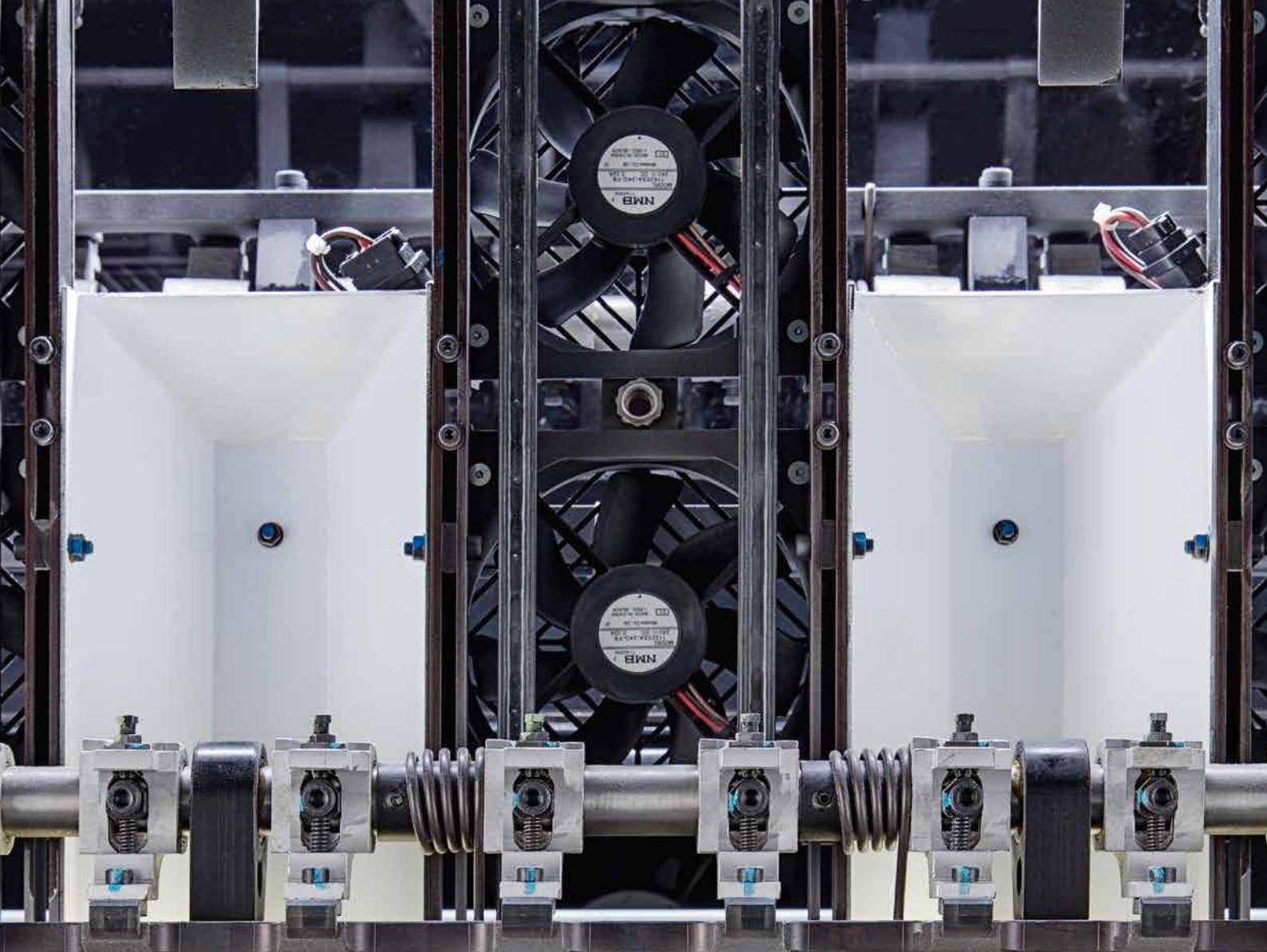
- Ink profile presetting via CIP3 data

**LogoTronic Professional**

- Comprehensive management system
- CIP3/CIP4 interface to prepress
- JDF/JMF or XML interface to an MIS
- Order management
- Press presetting
- Master data, including central ink database
- PressWatch for graphic representation of the overall production process
- SpeedWatch for graphic representation of job progress
- Automatic saving and management of all quality reports

**Rapida LiveApps**

- Mobile console with press status information, consumables tracking (option), maintenance manager and PressCall
- Calculation and display of current energy consumption via an optional metering function
- Determination of carbon footprints
- Inventory management and consumables monitoring



# Rapida 75 PRO:

## Technical data

<b>Sheet format</b>		
Maximum (standard/option)	530 x 750 / 605 x 750	mm
Minimum (standard/option/perfecting)	300 x 300 / 210 x 297 / 350 x 310	mm
<b>Print format</b>		
Standard/option in straight printing	520 x 740 / 585 x 740	mm
In perfecting mode	510 x 740	mm
<b>Substrates<sup>1</sup></b>		
Standard	0.04–0.6	mm
With board-handling package	0.8	mm
With perfecting	0.04 – 0.5	mm
<b>Printing speed<sup>2</sup></b>		
Up to 8 printing units + coating	15,000	sheets/h
Up to 10 printing units + coating	13,000	sheets/h
Perfector presses in perfecting mode	13,000	<b>sheets/h</b>
With HighSpeed package (optional)	16,000	sheets/h
<b>Pile heights</b>		
Feeder	840	mm
Delivery	920	mm
<b>Plate and blanket sizes</b>		
Plate size, standard/option	605 x 750 / 660 x 750	mm
Standard copy line	37.5	mm
Blanket size	700 x 748	mm

<sup>1</sup>Printability is also influenced decisively by the flexural rigidity of the substrate.

<sup>2</sup>Depending on individual processing parameters, e.g. the inks and substrates used

The illustrations and descriptions may depict or refer in part to special versions and options. Subject to technical and design modifications. Country-specific variants may apply. More detailed information can be obtained from your local Koenig & Bauer representative.

