KBA Rapida 75

Economy and ecology in focus
B2 print with a little extra

Productive and economical

You are working in B2 format? You are looking for a flexible, reliable press which packs meaningful automation tailored to your individual needs, but is nevertheless affordable? And you want to save valuable floor space and expensive energy? Then the modern and efficient Rapida 75 is the perfect answer to your wishes.
With production speeds up to 16,000 sheets per hour, it delivers outstanding performance. Even so, the power consumption of the Rapida 75 is only around 50 per cent of that of comparable half-format presses, and its minimal footprint is simply unrivalled. The maximum sheet format, on the other hand, is all the more generous: 53 x 75 cm as standard, and even 60.5 x 75 cm as a special format.

What does this larger format mean in practice? Well, if you occasionally produce in US letter or typical magazine and catalogue formats, you can now plan 6-up layouts. Two extra copies compared to other half-format presses. Even this detail already boosts the productivity of the Rapida 75 by 50 per cent. But that is just one of the many good reasons to add the Rapida 75 to your printroom line-up.

Configuration flexibility is another: The press is available in two to eight-colour versions – optionally with perfecting, inline coating, or even both if you wish. At the same time, the Rapida 75 is in every respect a typical sheetfed offset press from KBA. Many of the technical solutions it incorporates are identical to those of the larger-format Rapidas. What more could you want?
Proven technology

Reliable sheet infeed

It goes practically without saying that the feeder of the Rapida 75 is designed with a pile plate for the use of pallets. That already eliminates the need for bothersome re-piling. In fact, KBA implements a common feeder concept across all format classes. The same proven consistency characterises the swing-arm infeed, which transports a broad spectrum of substrates into the printing units with unerring reliability. Non-stop pile changing solutions for long runs? Board handling? All the necessary equipment is available for feeder and infeed.

Feeder
- High-performance feeder designed for a broad range of substrates
- Soundproofing to reduce noise emissions
- Efficient feeder head for reliable sheet separation and feeding
- Automatic format settings for the feeder head, side guides and side blowers
- Automatic pile side edge alignment by ± 10 mm
- Non-stop pile change facility available to enable uninterrupted production

Suction-belt feed table
- Stainless, antistatic structured surface
- Separately controlled vacuum chambers
- Two suction belts

Infeed
- Swing infeed and single-size infeed drum
- Pneumatic side lay for marking-free sheet alignment
- No adjustment of front lay cover height necessary in case of substrate changes
- Diagonal adjustment of the infeed line by ± 0.3 mm

Sheet sensors
- Ultrasonic and electromechanical double-sheet detectors
- Optical front lay sensors
- Electropneumatic overshoot protection for missing, skew and double sheets
The Rapida 75 is an all-round press designed to cater for the most varied applications. Whether paper or board, whether printing on one side or both sides of the sheet – everything is possible with the corresponding press equipment. The cylinder geometry is defined such that substrates pass from the first to last printing unit along an almost flat path. Sheet travel is thus exceptionally smooth and stable.

### Design principles
- Unit design
- Double-size impression cylinders and transfer drums for reliable sheet travel over the whole substrate range
- 7 o’clock cylinder arrangement
- Side frames joined with robust crossbeams
- Corrosion-free cylinder surface finish
- Bearer contact and play-free bearings for precise rolling between plate and blanket cylinders
- Two-stage impression on/off switching
- Mechanical bearer cleaners
- Central lubrication

### Universal gripper system
- No adjustments required to accommodate changes in substrate thickness
- Hardened gripper tips and fine-structured gripper pads for maximum holding forces and exact sheet transfers
- Gripper pads and tips can be replaced individually
- Precise register stability at all speeds and for all substrates
- No settings

### Sheet travel
- Mechanical and air-based sheet guiding elements for reliable sheet travel with substrates up to 0.8 mm thickness
- Sheet travel sensors
- Transfer systems without drum shells

### Register setting
- Remote setting of lateral, circumferential and diagonal register
- Diagonal register achieved by tilting the transfer drums
- ErgoTronic ACR for exact, automatic register control and correction

### Three-drum perfecting unit
- 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 in no more than two minutes
- Impression cylinders after the perfecting with KBA jackets
- Drum shells with ink-repellent rough-chrome surface on the transfer drums
- Gentle sheet guiding based on blower air

### Stable base
For straight printing and perfecting
Typical Rapida

Fast colour

Open-design inking units with a single ink train are a typical feature of all Rapida presses. The dependable heat dissipation means stable inking conditions. And the short reaction times serve to reduce waste. Ghosting? With the fast and simple switching of forme roller oscillation, you have nothing to worry about.

Ink duct
- Ink keys and plasma-coated ink duct roller
- Remote control of the ink keys
- Wear-free ink metering ensures accurately reproducible settings
- Ink duct roller speed compensated to the press speed

Inking unit
- Fast-reacting single-train inking unit
- Stepless mechanical adjustment of the oscillation timing
- Fast setting of ink forme roller oscillation

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 across the press width
- Differential drive to eliminate hiccups

Plate change
- Automated plate change (SAPC)
- Automatic clamping and tensioning of the plate
- Divided rear plate clamps
- Change time less than one minute per printing unit

Washing systems
- Individual programming and central control of washing programs
- Blanket and impression cylinder washing using dry cloth
- Separate washing beams for blanket and impression cylinder washing
- CleanTronic Synchro: Parallel washing of blankets and impression cylinders for even faster makeready
- Cloth consumption indicator on the delivery touchscreen display
- “Print clean” function: Targeted stripping of the remaining ink from plate and blanket with a preselected number of sheets
KBA Rapida 75
Principal features

Delivery
- High-level delivery for smooth sheet transport
- Speed-compensated gripper opening cam to accommodate the most varied substrates
- Suction roller with variable speed and suction power, interacting with fan modules above the pile for gentle sheet delivery
- Non-stop facility with rake for uninterrupted production during pile changes
- Automatic format setting for the side joggers and suction roller
- Delivery extension by 1,410 mm (ALV2) or 2,100 mm (ALV3)

Dryers
- Dryer system with IR lamps and hot air in the extended delivery
- Twin quartz lamps (60 W) for maximum energy efficiency
- UV dryers for interdeck and final drying (plugged media connections for fast and simple module changes)
- Dryer control via cabinet touchpanel (IR/hot air) or press console (UV)
- Automatic pile temperature control in the delivery
- Energy-saving VariDryBlue dryer system (combination of IR/hot air and UV)

Coater
- Modern chamber blade technology with lightweight anilox roller
- Hydropneumatic blade chamber control for constant and even coating application
- Fully automatic supply system for dispersion and UV coatings
- Fully automatic cleaning with excellent cleaning result
- Automatic coating forme change
- Console-controlled register setting
SAPC
- Automated clamping and tensioning of the plate
- Divided rear plate clamps
- Change time less than one minute per printing unit

KBA CleanTronic washing systems
- Individual programming and central control of washing programs
- Blanket and impression cylinder washing using dry cloth
- Separate washing beams for blanket and impression cylinder washing
- CleanTronic Synchro: Parallel washing of blankets and impression cylinders for even faster makeready
- Cloth consumption indicator on the delivery touchscreen display

Printing unit
- Double-size impression cylinders and transfer drums for reliable sheet travel over the whole substrate range
- Continuous gear train for excellent smooth running and precision
- Mechanical and air-based sheet guiding elements
- Universal gripper system for problem-free accommodation of substrate thickness changes
- Remote setting of lateral, circumferential and diagonal register

Inking and dampening unit
- Fast-reacting single-train inking unit
- Constant and bleed-free ink metering for optimum reproducibility
- Remote ink key adjustment
- Speed-compensated plasma-coated ink duct roller
- Speed-compensated film-type dampening unit for a stable ink-water balance
- Differential drive for the dampening units to eliminate hiccups

Feeder
- High-performance feeder designed for a broad range of substrates
- Efficient feeder head for reliable sheet separation and feeding
- Non-stop pile change facility
- Suction-belt feed table with stainless, antistatic structured surface and separately controlled vacuum chambers
- Swing infeed and single-size infeed drum
- Pneumatic side lay for marking-free sheet alignment
- No adjustment of front lay cover height necessary in case of substrate changes
- Diagonal adjustment of the infeed line by ± 0.3 mm
Let it shine
Solutions for elegant refinement

Gloss and matt finishes, all-over and spot coatings, scented varnishes and other special applications – the finishing options with the Rapida 75 are practically endless. Switching between different coating thicknesses, coating types or even coating systems is accomplished in next to no time and involves a minimum of manual intervention. And with VariDry Blue, you place an effective limit on your energy consumption for drying.

**Chamber blade system**
- Hydropneumatic chamber control for constant and even coating application
- Lightweight anilox rollers
- Quick-release locking mechanism for fast and simple replacement

**Coating supply**
- Fully automatic coating supply and cleaning system
- Excellent cleaning result enabling immediate use of the coating system for the next job
- Coating type change in approx. one to two minutes
- Switch from dispersion coating to UV, or vice versa, in approx. six minutes

**Coating forme change**
- Automated coating forme change
- Coating forme cylinder with quick-action clamps and register pin system for exact positioning of the coating plate
- Remote setting of the printing pressure
- Remote setting of the lateral, circumferential and diagonal register from the console
- Use of photopolymer formes or aluminium-based coating plates

**IR/hot-air drying system**
- Dryer system with IR lamps and hot-air knives as slide-in modules in the extended delivery
- Infrared/hot-air dryers with stepless control
- Dryer control via touchpanel on the cabinet
- Automatic pile temperature control in the delivery

**VariDry Blue**
- Combination of IR/hot air and UV dryers in the extended delivery (ALV3) for flexible use of conventional and UV ink and coating systems
- IR lamps and hot-air knives in the swan-neck and extended delivery
- UV modules as final dryers in the extended delivery or as interdeck dryers
- Convenient operation from the console
- Significant energy savings through recirculation of the partially saturated drying air within the extended delivery

**UV drying**
- UV modules can be used as either interdeck or final dryers
- Plugged media connections for fast module replacement without tools
- Convenient operation from the console
Stacked to perfection
Delivery piles ready for finishing

As at the feeder, the Rapida 75 is also designed for the use of pallets in the delivery. That is a feature which cannot be taken for granted on every press in this format class. Furthermore, the printed pile can be removed from the press in all three directions. In this way, logistics processes can be adapted optimally even to difficult space conditions. And with the touchscreen display directly alongside the delivery, operators have all important press functions at their fingertips.

Sheet travel
• High-level delivery for smooth sheet transport
• Speed-compensated gripper opening cam to accommodate the most varied substrates
• Fan modules above the pile for gentle sheet delivery
• Suction roller with variable speed and suction power
• Standard-compliant light barriers to guard the hazardous area
• Non-stop facility with rake for uninterrupted production during pile changes
• Automatic format setting for the side joggers and suction roller

Powder sprayer
• Speed-compensated and format-dependent powder metering

Sheet brake
• Suction roller with variable speed and suction power for smooth pile formation

Extraction system (EES)
• To eliminate possible health hazards from ozone and VOC emissions in UV production

Extended delivery
• Delivery extension by 1,410 mm (ALV2) or 2,100 mm (ALV3)
• Enhanced productivity when coating thanks to longer time for drying
Conveniently simple handling
Practice-oriented automation

Meaningful, practice-oriented automation is a further strength of the Rapida 75. All automatic press functions can be controlled via the touchscreen display at the delivery. Additional functions to import and save presetting data are available at the ErgoTronic console, together with a range of useful tools for quality control. It’s so easy to enjoy working on the Rapida 75 – and you can also save yourself both time and a considerable amount of waste.

ErgoTronic console
- 19-inch touchscreen for ergonomic access to press functions
- Ink metering with ink profile display on the desk
- CIP3 interface for ink key presetting
- USB port for fast job data exchange
- Saving of all relevant press parameters for repeat jobs
- Remote register setting
- Job changeover program JobAccess
- Integrated remote maintenance module KBA PressSupport 24
  Sheetfed with Internet connection

Delivery touchscreen display
- Remote setting of ink and register at the delivery
- Clear, intuitive control of all automatic press functions

Quality control
- ErgoTronic SpectroDrive: Automatic colour measurement directly on the console
- QualiTronic ColorControl: Convenient inline colour control
- ErgoTronic ACR: Compact, hand-held measuring system for register control
Technical data

Configuration variants

<table>
<thead>
<tr>
<th>Sheet format</th>
<th>530 x 750 / 605 x 750 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum (standard/option)</td>
<td></td>
</tr>
<tr>
<td>Minimum (straight/perfecting)</td>
<td>300 x 300 / 350 x 330 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Print format</th>
<th>510 x 735 / 585 x 735 mm</th>
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</thead>
<tbody>
<tr>
<td>Standard/option in straight printing</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Plate and blanket dimensions</th>
<th>605 x 745 / 660 x 745 mm</th>
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</thead>
<tbody>
<tr>
<td>Plate size (standard/option)</td>
<td></td>
</tr>
<tr>
<td>Blanket size</td>
<td>745 x 700 mm</td>
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</table>

<table>
<thead>
<tr>
<th>Substrates¹</th>
<th>0.04 – 0.6 mm</th>
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<tbody>
<tr>
<td>Standard</td>
<td></td>
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<tr>
<td>Option</td>
<td>0.04 – 0.8 mm</td>
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</table>

<table>
<thead>
<tr>
<th>Production speed²</th>
<th>max. 15,000 sheets/hr</th>
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</thead>
<tbody>
<tr>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>Option</td>
<td>max. 16,000 sheets/hr</td>
</tr>
<tr>
<td>from 7 units</td>
<td>max. 13,000 sheets/hr</td>
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</table>

<table>
<thead>
<tr>
<th>Pile height</th>
<th>980 mm</th>
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</thead>
<tbody>
<tr>
<td>Feeder</td>
<td></td>
</tr>
<tr>
<td>Delivery</td>
<td>920 mm</td>
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</table>

<table>
<thead>
<tr>
<th>Configurations</th>
<th>2 to 8 printing units + coater</th>
</tr>
</thead>
</table>

General
- Accessory package “High-speed”
- Accessory package “CX”
- Accessory package “Films and plastics”
- Accessory package “Central format setting”
- UV/alternating ink systems
- Coater with chamber blade
- Perfecting
- Extended deliveries
- Raised press foundation

Feeder
- Non-stop facility
- Antistatic system

Inking unit
- Inking unit temperature control, without duct roller cooling
- Rainbow printing accessories
- Ink supply system

Dampening unit
- Differential drive
- Roller coatings for low-alcohol printing < 5 %

Washing systems
- CleanTronic roller washing
- CleanTronic roller and blanket washing
- CleanTronic Synchro blanket, impression cylinder and roller washing, for parallel washing processes

Coater
- Coating forme cylinder with quick-action clamps for coating plates (SAPC)
- Coating supply and cleaning systems
- Additional anilox rollers

Delivery
- Non-stop rake
- EES (Emission Extraction System)

Dryers systems
- IR/hot-air dryers in delivery and extension (ALV2)
- IR/hot-air/UV dryers in delivery extension (ALV3)
- VariDry UV dryers in delivery extension (ALV2)
- VariDry UV interdeck dryers

Measurement and control
Online:
- ErgoTronic SpectroDrive

Inline:
- QualiTronic ColorControl
- QualiTronic LiveView
- QualiTronic DotView
- QualiTronic ColorView

Register measurement:
- ErgoTronic ACR
- ErgoTronic ImageZoom

Process automation
- CIP3 interface, console-integrated
- LogoTronic Professional

1) Printability is also influenced decisively by the flexural rigidity of the substrate
2) Dependent 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.
More detailed information can be obtained from your local KBA representative.

Sheet format
Maximum (standard/option) 530 x 750 / 605 x 750 mm
Minimum (straight/perfecting) 300 x 300 / 350 x 330 mm

Print format
Standard/option in straight printing 510 x 735 / 585 x 735 mm

Plate and blanket dimensions
Plate size (standard/option) 605 x 745 / 660 x 745 mm
Blanket size 745 x 700 mm

Substrates¹
Standard 0.04 – 0.6 mm
Option 0.04 – 0.8 mm

Production speed²
Standard max. 15,000 sheets/hr
Option max. 16,000 sheets/hr
from 7 units max. 13,000 sheets/hr

Pile height
Feeder 980 mm
Delivery 920 mm

Configurations 2 to 8 printing units + coater
KBA Rapida 106
from Koenig & Bauer Group

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