



KBA Rapida 75E

Technical information



Ultra compact, user-friendly, space- and energy-saving

Feeder and infeed

Feeder

- New KBA high-performance feeder for handling wide range of substrates
- New design with soundproofing to cut noise emissions (new)
- New sheet separator
- Suction-belt feed table with two suction belts and separately controllable suction chambers
- Automatic format setting
- Nonstop facility

Infeed

- Swing infeed and single-size feed drum
- No cover lay height adjustment when changing substrate
- Diagonal adjustment of infeed line $\pm 0-3\text{mm}$
- Adjustment of the feed line at the infeed

- Pneumatic side lay for mark-free sheet alignment
- Acoustic monitoring of format setting
- Ultrasonic and electromechanical double-sheet detection
- Photoelectric frontlay sensors
- Electropneumatic overshoot protection for double-sheet and frontlay monitoring





Printing unit

Design principles

- Compact design for greater stability
- Continuous gear train for smoothness and precision
- Unit-type design with 7 o'clock cylinder arrangement
- Corrosion-free cylinder surface finish
- Bearer contact and play-free bearings for precise cylinder rolling
- Two-stage pneumatic impression throw-on/off
- Mechanical bearer cleaning
- Central lubrication for key lubrication points
- Inline perforation and die-cutting

Sheet travel

- Double-size impression cylinders and transfer drums for reliable sheet travel over the full substrate range
- Optimised cylinder geometry for low-curvature, mark-free sheet travel
- Automatic setting of substrate thickness
- Air-blast sheet guides (new)
- Sheet travel sensors for enhanced process reliability

- More stable gripper system for all substrate thicknesses
- Shell-free transfer drum
- Remotely adjustable lateral, circumferential and diagonal register
- Optional online ACR (new)

Semi-automatic plate change (SAPC)

- Automatic plate clamping and tensioning
- Divided rear plate clamps
- Changing time per printing unit less than 1 minute

Inking unit

- Remotely adjustable ink keys, ceramic-coated duct roller
- Abrasion-free ink metering for accurate reproduction
- Speed-compensated duct roller for uniform ink transfer
- Quick-response single-train inking
- Infinitely adjustable oscillation timing
- Quick-set forme roller oscillation
- Ink vibrators pre-configured for inking unit temperature control

Dampening unit

- Speed-compensated film-type dampening
- Differential drive to eliminate hickeys

Roller washing

- Individual programming and central control of washing programs
- Dry-cloth washing of blanket and impression cylinders
- Two separate systems for blankets and impression cylinders
- Indication of cloth end and wash consumption
- Simultaneous washing of blankets and impression cylinders to reduce makeready time





Perfecting and delivery

Delivery

- Blower bank for gentle sheet delivery
- New sheet brake
- Pallet delivery with pile removal possible on three sides
- Danger zone secured by light barriers
- Suction roller with variable speed and suction for smoother sheet delivery
- 1,410mm extension for gentle drying
- Nonstop rake for uninterrupted production during pile change
- Automatic format setting

Three-drum perfecting

Proven system with double-size drums

for handling a broad range of substrates

- Patented perfecting drum gripper system for precise registration
- Special gripper system to smooth down the rear edge of the sheet
- Maximum production speed 15,000sph in both straight printing and perfecting mode

- Automatic mode conversion in less than 2 min.
- Durable, ink-repellent coating on post-perfecting impression cylinder
- New, gentle air-blown sheet guides
- Market launch end of 2010





Coating and drying

Coating

- Proven Harris + Bruno chambered doctoring system
- HydroComp blade pressure control for longer blade life
- Lightweight anilox rollers for fast and easy changing
- Automatic coating feed
- Automatic cleaning (1-2 min.)
- Change of aqueous coating in approx. 1-2 min.
- Coating plates possible
- Automatic change of coating plates with register adjustment (**new**)

IR/hot-air dryers for extended delivery

- Twin quartz lamps with IR power rating of 60 W/cm
- Automatic pile temperature regulation and dryer control
- Dual IR radiation and hot air system
- Multicontrol dryer display

IR/hot-air dryers for delivery

- Infrared/hot-air dryer systems
- Automatic pile temperature regulation and dryer control
- Control via delivery touch screen





Console, quality and the environment

ErgoTronic control console

- Ergonomic control of all press functions via touch-screen
- Controlled press shutdown in the event of power loss
- Job-specific presetting of ink metering
- Remote register adjustment, ACR optional
- Storage of all relevant press parameters for repeat jobs
- CIP4 interface for presetting ink profiles
- Makeready function

Delivery touch-screen

- Remote colour and register setting at delivery via touch-screen, with no console
- Ideal for two-colour presses or where space is limited
- Clear screen layout for intuitive control of all automated press functions

Quality control

Print quality to Fogra standards

DensiTronic

- Automatic ink-density measurement and control

- Detachable measuring head for individual measurements at any point of the sheet

Techkon SpectroDrive

- Semi-automatic ink-density measurement and control
- Detachable measuring head for individual measurements at any point on the sheet
- Control strip freely positionable on sheet
- Low energy consumption (50% less than comparable press)





Specifications

Sheet format		
maximum (standard/option)	530 x 750 / 605 x 750 mm	(20.86 x 29.53in / 23.81 x 29.53in)
minimum	330 x 330 mm	(13 x 13in)
Print format		
(standard/option)	510 x 735 / 585 x 735 mm	(20 x 28.9in / 23 x 28.9in)
Plate format		
(standard/option)	605 x 745 / 660 x 745 mm	(23.81 x 29.3in / 26 x 29.3in)
Blanket format		
	745 x 700 mm	(29.3 x 27.5in)
Substrates¹		
standard	0.04 - 0.6 mm	(0.0016 - 0.002in)
option	0.04 - 0.8 mm	(0.0016 - 0.032in)
Maximum output²		
standard	15,000 sph	
option	16,000 sph	
with 7 units or more	13,000 sph	
Pile height		
feeder	840 mm	(33in)
delivery	920 mm	(36.2in)
Configurations		
	2 to 8 printing units plus coating	(perfecting end of 2010)

¹ Substrate rigidity also influences printability

² depends on internal operational parameters and the inks and substrates used

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