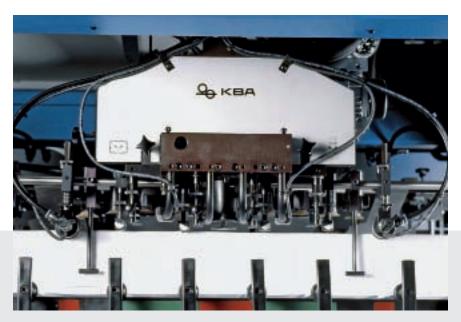


KBA RAPIDA 106

Technical information



Feeder and infeed





DriveTronic feeder

- Feeder controlled via 4 servo motors, with continuous, stepless pile lifting and automatic lift compensation (paper / board)
- Antistatic rear-edge separating air
- Automatic format setting
- Automatic pile side edge alignment
- Front-edge pile height sensing with automatic compensation of the feeder head height
- Skew-sheet correction at the feeder head during production

■ Suction-belt feed table

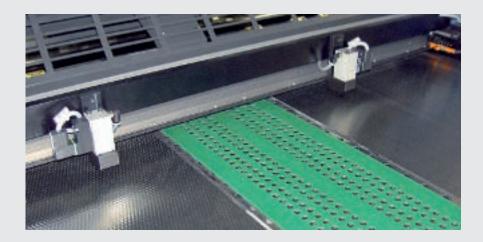
- Suction-belt feed table with stainless, antistatic structured surface, with a single suction belt and multichamber vacuum system
- Electronically controlled sheet deceleration to ensure optimum sheet arrival speed at the front lays

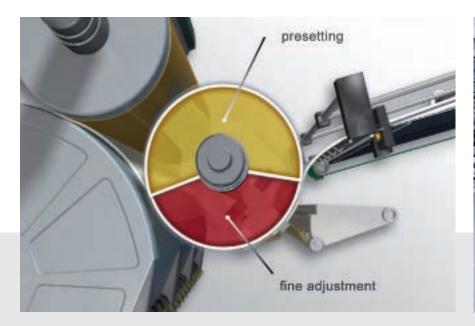
Infeed

- Swing infeed accelerates the sheet for transfer to a single-size feed drum
- Motorised remote adjustment of the feed line, individual front lays and the front lay cover height with DriveTronic Infeed

Touchscreen display

 Touchscreen display with direct function keys for reliable and intuitive press operation







■ Vacuum side lay

- Marking-free alignment of the sheet
- Multi-chamber vacuum system to permit matching of different suction requirements
- Automatic format setting

■ DriveTronic SideLay (SIS)

- Sidelay-free infeed eliminates all operator settings for lateral sheet alignment (makeready savings)
- Excellent alignment accuracy thanks to the very long period of rest for the sheet at the front lays

■ Sheet monitoring

- Ultrasonic double-sheet detector
- Capacitive double-sheet detector for inhomogeneous materials
- Electromechanical double-sheet detector
- Multiple sheet sensors
- Optical skew-sheet and side lay sensors
- Optical front lay sensors with electropneumatic overshoot blocking
- Magnetic crash bar



Printing unit



Design principles

- Substructure cast in a single piece for high torsional rigidity, stability and reduced weight
- Continuous gear train for smooth running and precision
- Unit design; 7 o'clock cylinder arrangement
- Corrosion-free cylinder surface finish
- Bearer contact and play-free bearings for precise rolling between plate and blanket cylinders
- Automatic bearer cleaners
- Central lubrication for the most important lubrication points

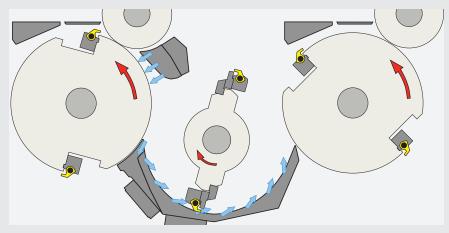
■ Universal gripper system

- No adjustments required to accommodate changes in substrate thickness
- Ceramic-coated gripper tips for maximum holding force
- Structured gripper pads with elastic inlays
- Gripper pads and tips can be replaced individually

Sheet travel

- Double-size impression cylinders and transfer drums for reliable sheet travel over the full substrate range
- Air-cushioned sheet travel with blower bars, Venturi guide plates and comb suckers
- Automatic setting of the substrate thickness
- Two-stage pneumatic impression on/off switching





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.





Semi-automatic plate change (SAPC)

- Pneumatic opening and closing of the plate cylinder guard
- Automatic clamping and tensioning of the plate
- Divided rear plate clamps

■ Fully automatic plate change (FAPC)

- Change completed in 3 cycles
- Total change time in straight printing mode: 3 min
- Total change time in perfecting mode: 6 min

■ Simultaneous plate change (DriveTronic SPC)

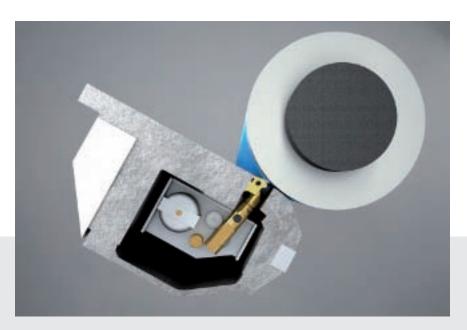
- Simultaneous in a single cycle
- Plate cylinders driven directly by dedicated motors
- Plate change parallel to other makeready processes
- Total change time: 1 min

Register setting

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



Printing unit





■ ColorTronic ink duct

- Ink keys with carbide blades and ceramic-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 for constant ink transport

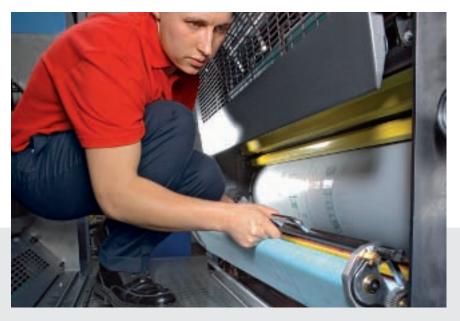
■ Inking unit

- Fast-reacting single-train inking unit
- Remote setting of vibrator frequency and blocking
- Ink train separation with impressionoff to maintain the vertical ink distribution in the inking unit
- Stepless remote adjustment of the oscillation timing during production
- Remote switching of ink forme roller oscillation
- Oscillating distributors and ink duct rollers prepared for inking unit temperature control
- Individual engaging/disengaging of inking units for reduced roller wear and minimised makeready times

Dampening unit

- Speed-compensated Varidamp filmtype dampening unit for a stable inkwater balance
- Differential drive to eliminate hickeys, activated/deactivated during production







Multi-purpose washing system for blankets and impression cylinders

- Use of dry cloth or ready-impregnated Prepac® cloth rolls
- Indication of washing cloth consumption
- Individual programming and central control of washing programs
- Multiple-media washing circuits permitting the use of different ink systems

■ Roller washing

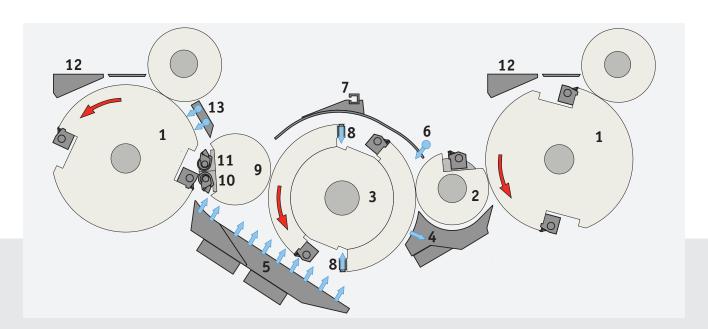
- Individual programming and central control of washing programs
- Multiple-media washing system permitting the use of different ink systems

■ "Print clean" function

- Specific stripping of the remaining ink from plate and blanket
- Reduced blanket washing times
- Enhanced production stability with thin materials



Perfecting



■ Three-drum sheet turning

- Proven 1-2-1 configuration for exact perfecting register
- Special perfecting drum gripper system handling a broad substrate range in both straight printing mode and perfecting
- Maximum production speed in both straight printing mode (18,000 sph) and perfecting (15,000 sph)
- Fully automatic mode conversion: 2 min

■ Sheet travel

- Air-cushioned sheet travel with blower bars and Venturi guide plates
- Twisting suckers spread the sheets tight to ensure precise transfer
- Long-lasting ink-repellent surface on impression cylinders after the perfecting unit
- Automatic suction ring positioning in the delivery for fast job changeovers in perfecting

Sheet monitoring

- Cameras under the perfecting unit and in the delivery for convenient monitoring and fine adjustment of the sheet travel
- Optical missing sheet sensor

- 1 Impression cylinder
- 2 Transfer drum
- 3 Storage drum
- 4 Guide plate with comb suckers
- 5 Air-cushion plate with plain nozzles
- 6 Blower bar
- 7 CX sheet guide
- 8 Stretching suckers
- 9 Turning drum
- 10 Straight printing gripper system
- 11 Perfecting gripper system
- 12 CX quide plate
- 13 Sheet smoothing blowers



Coating tower





■ Chamber blade system

- Chamber blade system for constant and even coating application
- HydroComp blade pressure control ensures maximum blade life
- Lightweight anilox rollers ensuring fast and user-friendly replacement

■ Coating supply system

- Coating supply system for dispersion and UV coatings in separate circuits
- Central control of automatic cleaning for dispersion and UV coatings
- Excellent cleaning result enabling immediate use of the coating system for the next job

Coating forme change

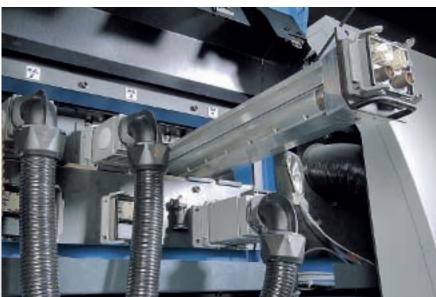
- Automated coating forme change
- Change time: 2 min
- Remote pressure setting
- Remote setting of lateral, circumferential and diagonal register





Dryer systems





■ VariDry IR/hot-air

- Carbon twin lamps with IR power rating of 60 W/cm
- Lamp replacement without tools
- Automatic pile temperature regulation and dryer control
- Can be installed as final dryers, as intermediate dryers or in a dryer tower

■ VariDry UV

- Compact dryer module with UV power rating of 160 W/cm (stepless control)
- Lamp replacement without tools
- Automatic pile temperature regulation and dryer control
- WashTronic for enhanced productivity and maximum service life of the UV lamps
- Multiple-media connector permits free positioning of modules as final or interdeck dryers



Delivery





■ Sheet travel

- Speed-compensated gripper opening cam for a broad range of substrates
- Fan modules and blower bars promote optimum pile formation
- Light barriers to guard the hazardous area

■ Touchscreen display

 Touchscreen display with direct function keys for reliable and intuitive press operation

Powder sprayer

- Speed-compensated and formatdependent powder metering

■ Sheet brake

- Sheet brake with pre-suction plate and variable speed to facilitate smooth sheet delivery
- Automatic format setting
- Individual air setting for suction rings

■ Extraction system

- Elimination of health hazards from ozone and VOC emissions

Extended delivery

- Enhanced productivity through fast drying times
- Optimised sheet travel for high printting speeds
- Available extension lengths: 1,400 mm, 2,400 mm, 3,800 mm



Non-stop systems





■ Feeder

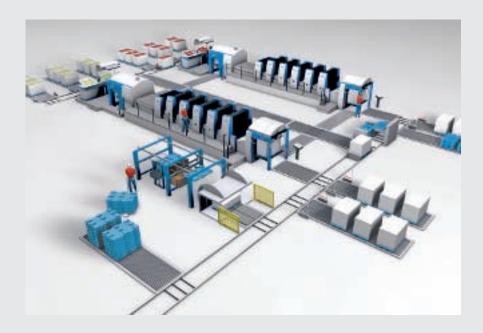
- Non-stop system with individual rods for uninterrupted production during pile changes
- Fully automatic non-stop rake, with monitoring sensors for pile transport and pile reunion
- Pile insertion and removal possible from all three sides

Delivery

- Non-stop pile change possible at full production speed
- Lowerable non-stop roller rack extended automatically in the direction of sheet travel
- Sensor monitoring for lifting/lowering of main and auxiliary piles

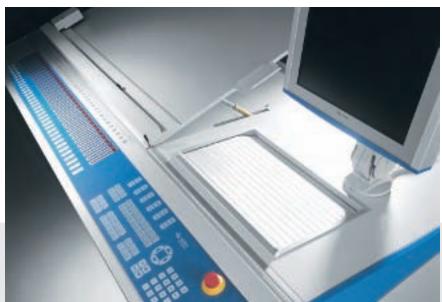
PileTronic logistics

- Networking of press control, non-stop systems and pallet handling for maximum production efficiency
- Range of proven logistics modules available
- Elaboration of customer-specific solutions
- Paper supply without pallets possible



Console and workflow management





ErgoTronic Professional control console

- 19" TFT touchscreen for ergonomic access to all press functions
- USB port for fast communication of job data
- ColorTronic ink metering with ink profile displays on console
- Motorised console height adjustment and sheet inspection desk with adjustable desk angle
- Uninterruptible power supply to enable controlled press shutdown in case of power supply failure
- Integrated remote maintenance module

Control console functions

- Job changeover program for automatic job presetting
- Job-specific saving of all relevant press parameters for repeat jobs
- Presetting of format and substrate thickness
- Presetting of all substrate-specific air settings
- Job-specific presetting of ColorTronic ink metering
- Remote register setting
- Presetting and selection of washing functions
- Control for all peripheral equipment
- Maintenance indicator

■ LogoTronic

- Ink profile presetting via CIP3 data

■ LogoTronic Professional

Comprehensive management system for KBA presses:

- CIP4/JDF 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
- Report functions





Service



■ Remote maintenance

- Integrated remote maintenance module in every press (remote maintenance free of charge during the warranty period)
- Most comprehensive remote maintenance functionality and longest experience on the market
- Access to individual printing unit controllers possible
- Fast assistance and problem remedies in up to 80% of all cases – without need for service visit or spare parts
- Telephone hotline free of charge during the warranty period
- Immense time and cost savings
- Increased availability of the press

■ Spare parts service

- Comprehensive product and quality tests for original KBA parts
- Efficient advice from our service specialists and unambiguous identification of parts
- Guarantee of outstanding precision, high reliability and maximum service life
- Spare parts in line with the latest state of the art
- High availability of over 2.5 million parts
- Fastest possible delivery of spare and accessory parts

Retrofits

- Adaptation of already installed presses to changing market conditions
- Possibilities to shorten makeready times, reduce waste or further improve quality
- Considerable experience gained in the course of many successful modernisation projects
- Comprehensive measures to raise press productivity possible





Technical data



SI	he	Δŧ	fo	rm	at:

Maximum (straight printing/perfecting)	740 x 1060 / 740 x 1060	mm				
Minimum (straight printing/perfecting)	340 x 480 / 400 x 480	mm				
Tillinam (Straight printing) perfecting)	340 X 400 / 400 X 400					
Print format:						
Maximum	730 x 1050	mm				
Maximum before perfecting	720 x 1050	mm				
Substrates ¹⁾ :						
Standard	0.06 - 0.7	mm				
with lightweight equipment	0.04	mm				
with board-handling equipment	1.2	mm				
with corrugated equipment	1.6	mm				
Press with perfecting	0.8	mm				
Production speed ²⁾ :						
Up to 8 printing units	18,000	sheets/hr				
Press with perfecting in straight mode, up to 8 printing units	18,000	sheets/hr				
Press with perfecting in perfecting mode, up to 8 printing units	15,000	sheets/hr				
Pile height³):						
Feeder	1,300	mm				
Delivery	1,200	mm				
Plate and blanket dimensions:						
Plate size	795 x 1060	mm				
Standard copy line	36	mm				
Blanket size	860 x 1070	mm				

Printability is also influenced decisively by the flexural rigidity of the substrate Dependent on individual processing parameters, e.g. the inks and substrates used From floor / without non-stop operation



KBA RAPIDA 106 is manufactured by Koenig & Bauer AG,

which reserves the right to carry out modifications without prior notice. No part of this publication may be reproduced in any way without the manufacturer's permission. Illustrations may depict special features not included in the basic press price.

For further information please contact our sales department at: Koenig & Bauer AG Sheetfed offset presses Postfach 020164, 01439 Radebeul, Germany Friedrich-List-Str. 47 01445 Radebeul, Germany

Tel: (+49) 0351 833-0 Fax: (+49) 0351 833-1001

Web: www.kba.com

E-mail: kba-radebeul@kba.com 05/2008-e. Printed in Germany

Our agency: