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Our agency:

# KBA RAPIDA 75

Technical information

## Feeder and infeed



### ■ Feeder

- High-performance stream feeder
- Antistatic rear-edge separating air
- Pallet feeder with pile side edge alignment for enhanced productivity
- Rear-edge pile height sensing and compensation of feeder head height
- Sucker tilt adjustment to draw paper tight at the feeder head
- Non-stop system with individual rods for uninterrupted production during pile changes

### ■ Suction-belt feed table

- Suction-belt feed table with stainless, antistatic structured surface, with 2 suction belts and multi-chamber vacuum system
- Electronically controlled sheet deceleration by 70% to ensure optimum sheet arrival speed at the front lays

### ■ Infeed

- Swing infeed accelerates the sheet for transfer to a single-size feed drum
- No need to adapt the front lay cover height to changes in substrate thickness
- Adjustment of the feed line at the infeed

### ■ Vacuum side lay

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

### ■ Sheet monitoring

- Ultrasonic double-sheet detector
- Electromechanical double-sheet detector
- Photoelectric front lay sensors
- Electropneumatic overshoot blocking for double or skewed sheets



## Printing unit



### ■ Design principles

- Compact design for high torsional rigidity and stability
- 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

### ■ Sheet travel

- Double-size impression cylinders and transfer drums for reliable sheet travel over the full substrate range
- Optimised cylinder geometry for low-curvature, marking-free sheet travel
- Automatic setting of the substrate thickness
- Two-stage pneumatic impression on/off switching
- Sheet travel sensors to ensure a reliable printing process

### ■ 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

### ■ Semi automatic plate change (SAPC)

- Automatic clamping and tensioning of the plate
- Divided rear plate clamps

### ■ Register setting

- Remote setting of lateral, circumferential and diagonal register
- Diagonal register achieved by tilting the transfer drums

### ■ 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 blocking
- Stepless adjustment of the oscillation timing
- Fast setting of ink forme roller oscillation
- Oscillating distributors prepared for inking unit temperature control

### ■ Dampening unit

- Speed-compensated film-type dampening unit for a stable ink-water balance
- Differential drive to eliminate hickies

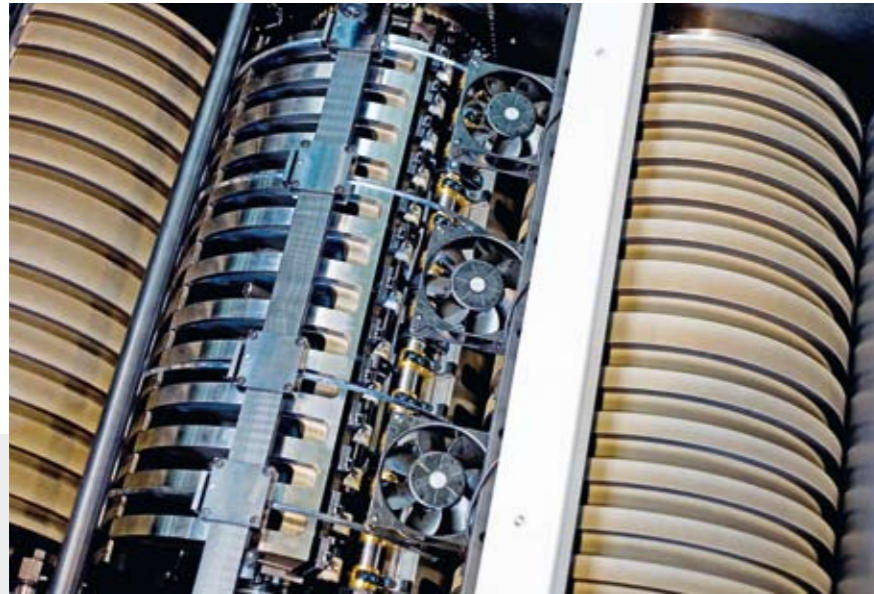
### ■ Roller washing

- Individual programming and central control of washing programs

### ■ Blanket and impression cylinder washing

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

# Perfecting



## ■ Three-drum sheet turning

- Proven 2-2-2 configuration handling the whole substrate range in both straight printing mode and perfecting
- Patented perfecting drum gripper system for high and stable register accuracy in straight printing
- Special gripper system to spread the rear edge of the sheet
- Maximum production speed 15,000 sph in both straight printing mode and perfecting
- Fully automatic mode conversion: up to 2 min

## ■ Sheet travel

- Air-cushioned sheet travel with Venturi guide plates
- Long-lasting ink-repellent surface on impression cylinders after the perfecting unit

## ■ Sheet travel

- Fan modules promote optimum pile formation
- Pallet delivery with pile removal to all three sides
- Light barriers to guard the hazardous area

## ■ Sheet brake

- Sheet brake with variable speed and suction power to facilitate smooth sheet delivery



## ■ Extended delivery

- Enhanced productivity through fast drying times
- Available extension length: 1,410 mm

## ■ Non-stop delivery

- Non-stop rake permitting interrupted production



# Coating tower and dryer systemes



## ■ Chamber blade system

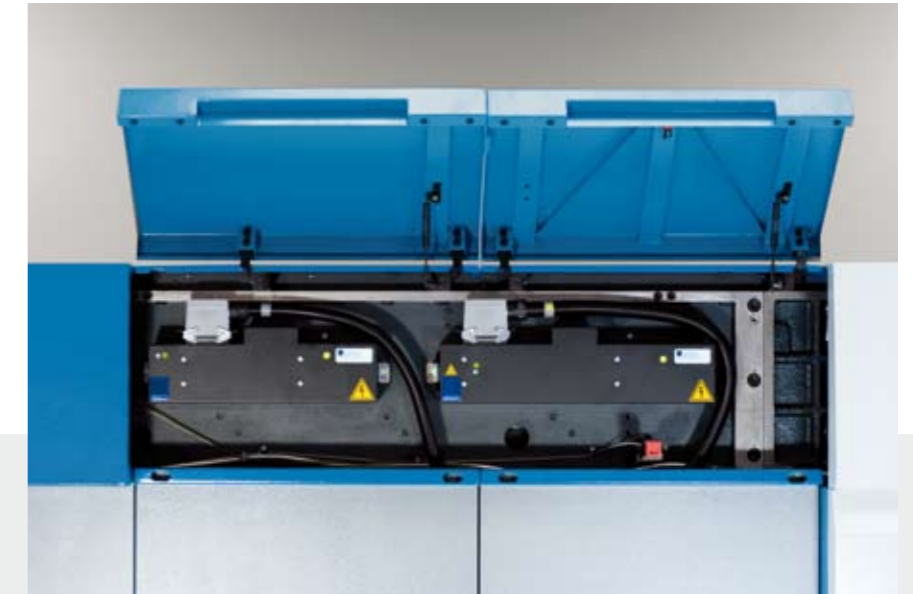
- Chamber blade system for constant and even coating application
- HydroComp blade pressure control ensures maximum blade life
- Lightweight anilox rollers ensuring fast and user-friendly replacement

## ■ Coating supply system

- Coating supply system for dispersion coatings
- Fully automatic cleaning for dispersion coatings
- Excellent cleaning result enabling immediate use of the coating system for the next job

## ■ Coating forme change

- Remote pressure setting
- Remote adjustment of lateral and circumferential register



## ■ IR/hot-air dryers for the extended delivery

- Twin quartz lamps with IR power rating of 60 W/cm
- Automatic pile temperature regulation and dryer control
- Dryer system with IR lamps, hot air and hot-air knives
- Control via dryer multi-control display

## ■ IR/hot-air dryers for the delivery

- Infrared/hot-air dryer systems
- Automatic pile temperature regulation and dryer control
- IR dryer system with medium-wave or combined short- and medium-wave lamps
- Control via delivery touchscreen display

## Console and quality control



### ■ ErgoTronic control console

- 15" TFT touchscreen for ergonomic access to all press functions
- USB port for fast communication of job data
- Sheet inspection desk with adjustable desk angle
- Uninterruptible power supply to enable controlled press shutdown in case of power supply failure

### ■ Control console functions

- Job-specific presetting of ink profiles
- Remote register setting
- Job-specific saving of all relevant press parameters for repeat jobs
- CIP4 interface for ink profile presetting
- No need for investment in a data converter

### ■ ErgoTronic InkControl

- Remote setting of ink metering and register via the delivery touchscreen, without ErgoTronic control console
- Ideal solution for two-colour presses or where floor space is limited



### ■ Delivery touchscreen

- TFT touchscreen for ergonomic press control
- Clear screen layout for intuitive control of all automated press functions

### ■ DensiTronic

- Automatic measurement and control of ink density
- Detachable measuring head for individual measurements at any point of the sheet

### ■ Techkon RS400

- Semi-automatic measurement and control of ink density
- Detachable measuring head for individual measurements at any point of the sheet
- Free positioning of the colour bars on the sheet

## Technical data



### Sheet format:

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

### Print format:

Standard/option in straight mode:	510 x 735 / 585 x 735	mm
Standard/option in perfecting:	500 x 735 / 585 x 735	mm

### Substrates<sup>1)</sup>:

Standard:	0.04 - 0.6	mm
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### Production speed<sup>2)</sup>:

Maximum printing speed:	15,000	sph
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### Pile height:

Feeder	840	mm
Delivery	920	mm

### Plate and blanket dimensions:

Plate size (standard/option/option)	585 x 745 / 605 x 745 / 660 x 745	mm
Copy line (standard/option/option)	47.5 / 37.5	mm
Blanket size	745 x 700	mm

<sup>1)</sup> Printability is also influenced decisively by the flexural rigidity of the substrate  
<sup>2)</sup> Dependent on individual processing parameters, e.g. the inks and substrates used