



KBA RAPIDA 130-162a

Technical information

Feeder and infeed



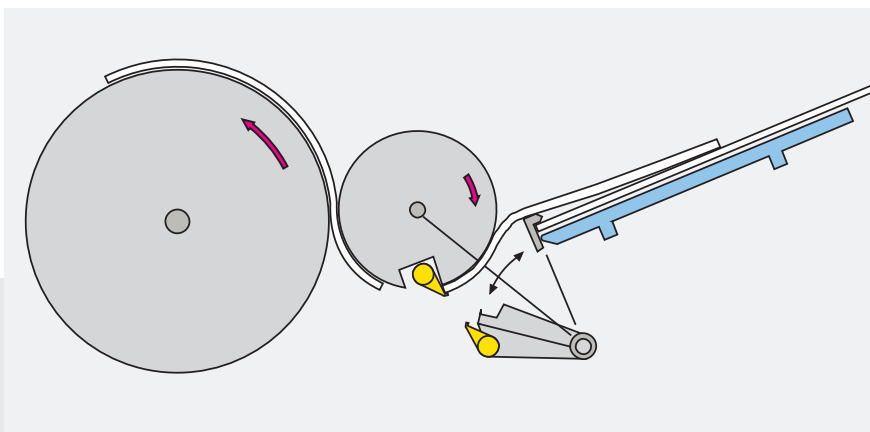
■ DriveTronic feeder

- 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 2 suction belts and multi-chamber vacuum system
- Electronically controlled sheet deceleration to ensure optimum sheet arrival speed at the front lays



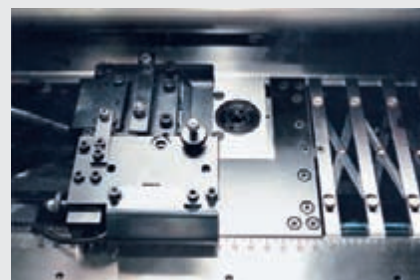


■ Infeed

- Variospeed infeed accelerates the sheet to press speed in two stages (minimising stress on the sheets)
- Motorised remote adjustment of the feed line and the front lay cover height

■ Vacuum side lay

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



■ 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

■ Touchscreen display

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

Printing unit



■ Design principles

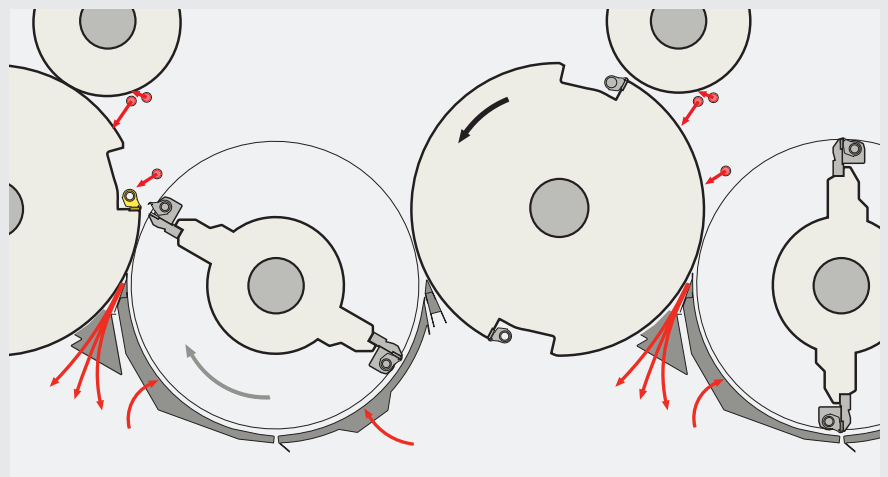
- Substructure cast in a single piece for high torsional rigidity, stability and reduced weight
- Continuous gear train for smooth running and precision
- Unit design; 7 o'clock cylinder arrangement
- Corrosion-free cylinder surface finish
- Bearer contact and play-free bearings for precise rolling between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

■ 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

■ 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)

- Pneumatic opening and closing of the plate cylinder guards
- 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 approx. 3.5 minutes
- Total change time in perfecting mode approx. 7 minutes
- Divided rear plate clamps

■ 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

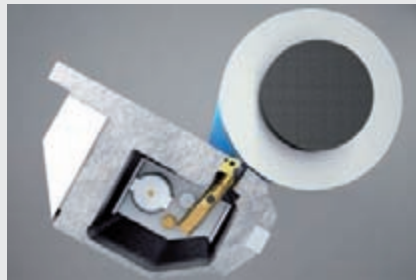


Printing unit



■ 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

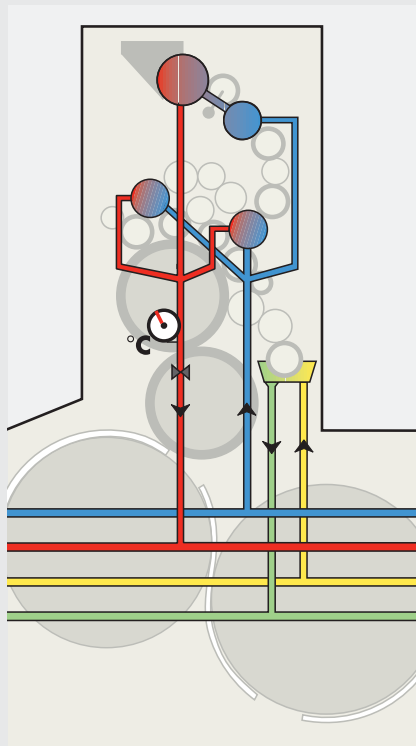


■ Dampening unit

- Speed-compensated Varidamp film-type dampening unit for a stable ink-water balance
- Differential drive to eliminate hickeys, activated/deactivated during production

■ Inking unit

- Fast-reacting single-train inking unit
- Remote setting of vibrator frequency and blocking
- Ink train separation with impression-off 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 prepared for inking unit temperature control
- Individual engaging/disengaging of inking units for reduced roller wear and minimised makeready times





■ Washing systems

- Individual programming and central control of washing programs
- Multiple-media washing system permitting the use of different ink systems (CleanTronic Multi)
- Multi-purpose washing system for rollers, plates, blankets and impression cylinders
- Use of dry cloth or ready-impregnated Prepac® cloth rolls
- Indication of washing cloth consumption

■ "Print clean" function

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



Perfecting



■ Single-drum sheet turning

- Proven double-size single-drum perfecting unit placing minimum stress on the substrate
- Special perfecting drum gripper system handling a broad substrate range in both straight printing mode and perfecting
- Fully automatic mode conversion: 2 min

■ Sheet travel

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

■ Sheet monitoring

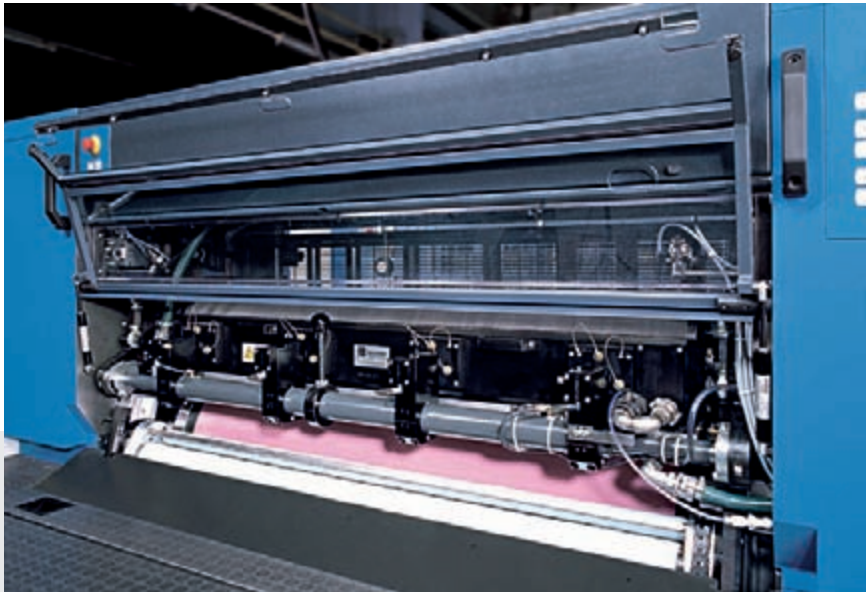
- Cameras under the perfecting unit and in the delivery for convenient monitoring and fine adjustment of the sheet travel
- Sheet travel sensors to ensure a reliable printing process

■ High-performance package for RA 142-8 SW4/RA 142-10 SW5

- Delivery settings at the control console
- Motorised adjustment of delivery sheet guide elements
- Automatic suction ring positioning in the delivery for fast job changeovers in perfecting (ASP)
- Air settings saved on the control console (faster makeready)
- Turbulence-free blower air above the pile
- Transfer drums after perfecting unit with anti-marking coatings



Coating tower



■ Chamber blade system

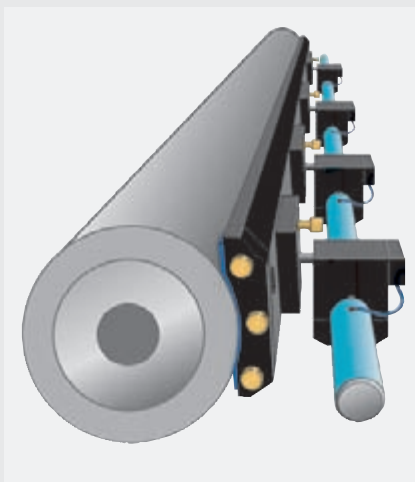
- Chamber blade system for constant and even coating application
- Crane facility for fast and user-friendly anilox roller replacement

■ Coating supply system

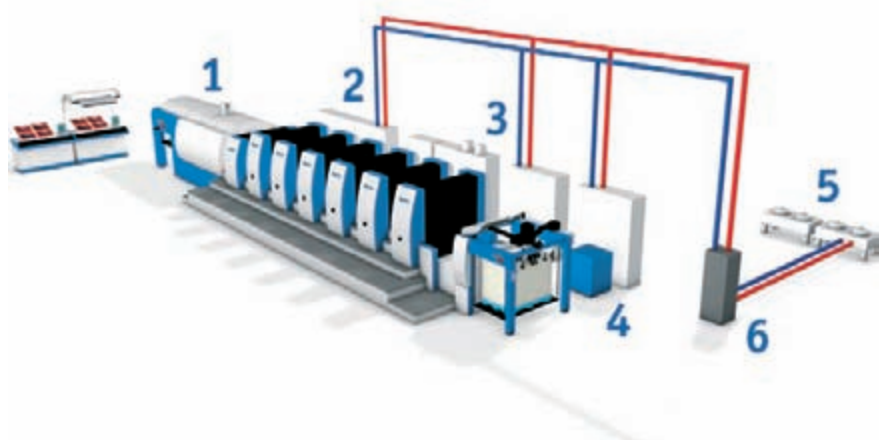
- Coating supply system for dispersion and UV coatings in separate circuits
- Central control of automatic cleaning for dispersion and UV coatings
- Excellent cleaning result enabling immediate use of the coating system for the next job

■ Coating forme change

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



Dryer systems



The dryers (1) are cooled by connecting the dryer supply (2) to the same central water cooling system as the air cabinet (3) and the combi-cooling unit (4). The system cooler is an external heat exchanger (condenser) (5) installed outdoors. If necessary, a pump and control cabinet (6) takes care of cooling management.

■ VariDry IR/hot-air

- Twin-tube hybrid 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

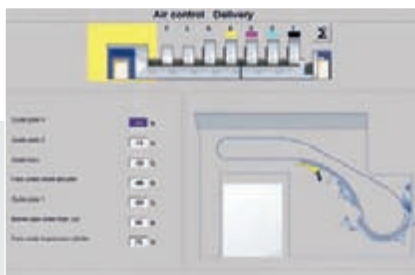


■ UV dryers

- UV lamps 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



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



■ 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

■ Powder sprayer

- Speed-compensated and format-dependent powder metering

■ Extraction system

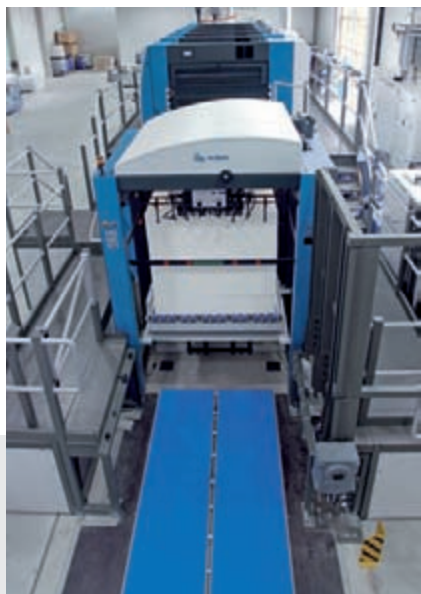
- Elimination of health hazards from ozone and VOC emissions

■ Extended delivery

- Enhanced productivity through fast drying times
- Available extension lengths: 1,400 mm, 2,400 mm, 3,800 mm



Non-stop systems



■ Feeder

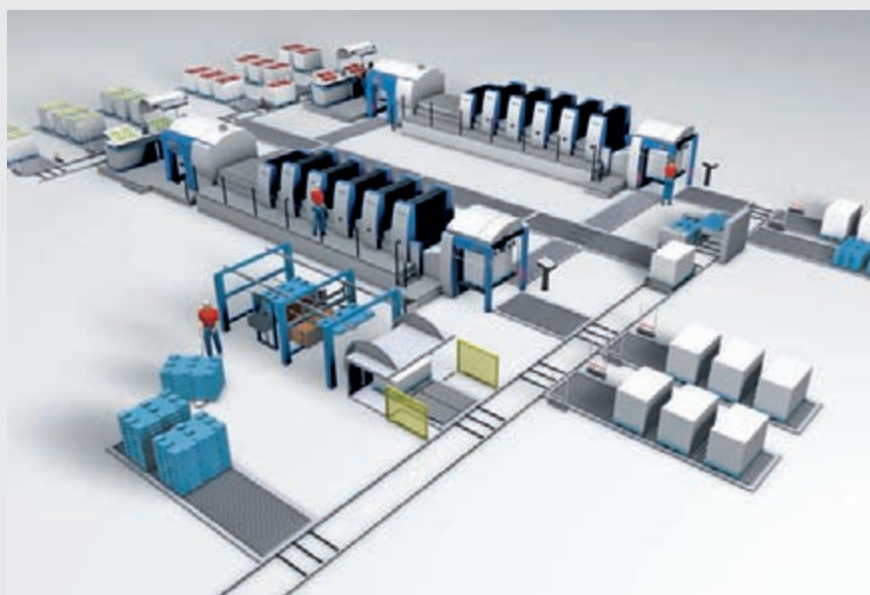
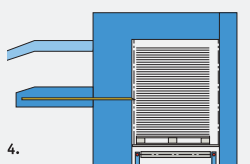
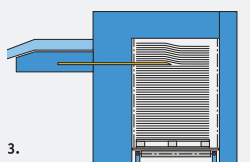
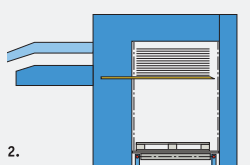
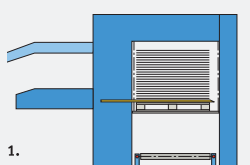
- Non-stop system with individual rods for fast manual pile change
- Fully automatic change with non-stop rake, with monitoring sensors for pile transport and pile reunion
- Pile insertion and removal possible from all three sides

■ 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



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.

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
- Job-specific presetting of ColorTronic ink metering
- Remote register setting
- Presetting and selection of washing functions
- Control for all peripheral equipment
- Maintenance indicator

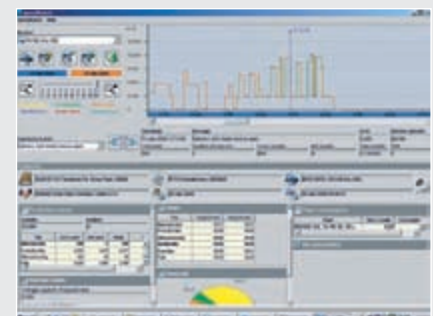
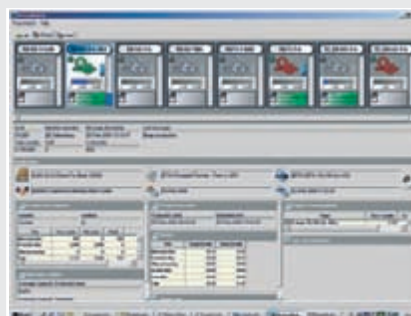
■ LogoTronic

- Entry-level solution for a flexible workflow: CIPLink to convert CIP3 data for automatic ink profile presetting on the press

■ 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

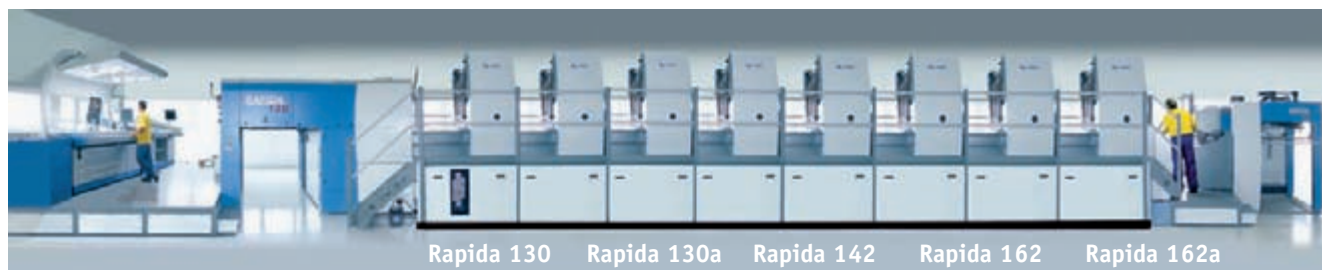
■ Retrofits

- 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



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Technical data



	Rapida 130	Rapida 130a	Rapida 142	Rapida 162	Rapida 162a	
Formats:						
Max. paper format	910 x 1300	965 x 1300	1020 x 1420	1120 x 1620	1200 x 1620	mm
Min. paper format	500 x 600	500 x 600	600 x 720	600 x 920	600 x 920	mm
Max. print format						
standard	900 x 1300	955 x 1300	1010 x 1420	1110 x 1620	1190 x 1620	mm
perfecting	885 x 1300	940 x 1300	995 x 1420	1095 x 1620	1170 x 1620 ¹⁾	mm
Gripper margin	10+/-1	10+/-1	10+/-1	10+/-1	10+/-1	mm
Max. production speed²⁾:						
Press up to 7 printing units	15,000	15,000	15,000	14,000	13,000	sheets/hr
Perfector press in straight mode	12,000	12,000	12,000	11,000	11,000	sheets/hr
Perfector press in perfecting mode	10,000	10,000	10,000	9,000	9,000	sheets/hr
Substrates³⁾:						
Standard	0.06 – 0.7					mm
with lightweight equipment	from 0.04					mm
with board-handling equipment	up to 1.2					mm
with corrugated equipment	up to 1.6					mm
Pile height⁴⁾:						
Feeder without/with non-stop	1500 / 1200					mm
Delivery without/with non-stop	1500 / 1400					mm
Commercial delivery						
Rapida 142-8SW4 or -10SW5	1200 / 1100					mm
Plate and blanket dimensions:						
Plate size	1035 x 1310	1095 x 1310	1145 x 1430	1245 x 1630	1260 x 1630	mm
Copy line (straight/perfecting)	72 / 77	72 / 77	72 / 77	72 / 77	43 / 48	mm
Blanket size	1275 x 1340	1275 x 1340	1275 x 1460	1315 x 1660	1355 x 1660	mm

¹⁾ Rapida 162a-8SW4 or -10SW5, otherwise as Rapida 162

²⁾ Dependent on individual processing parameters, e.g. the inks and substrates used

³⁾ Printability is also influenced decisively by the flexural rigidity of the substrate

⁴⁾ From floor, without non-stop operation

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