KBA
Koenig & Bauer AG
Planeta-Bogenoffset

MAXIMUM CONFIGURATION
ONLY 22.6Mio IMPRESSIONS

KBA RAPIDA 72K

2 color compact and flexible sheetfed offset printing press
World champion in format 52 x 72 cm

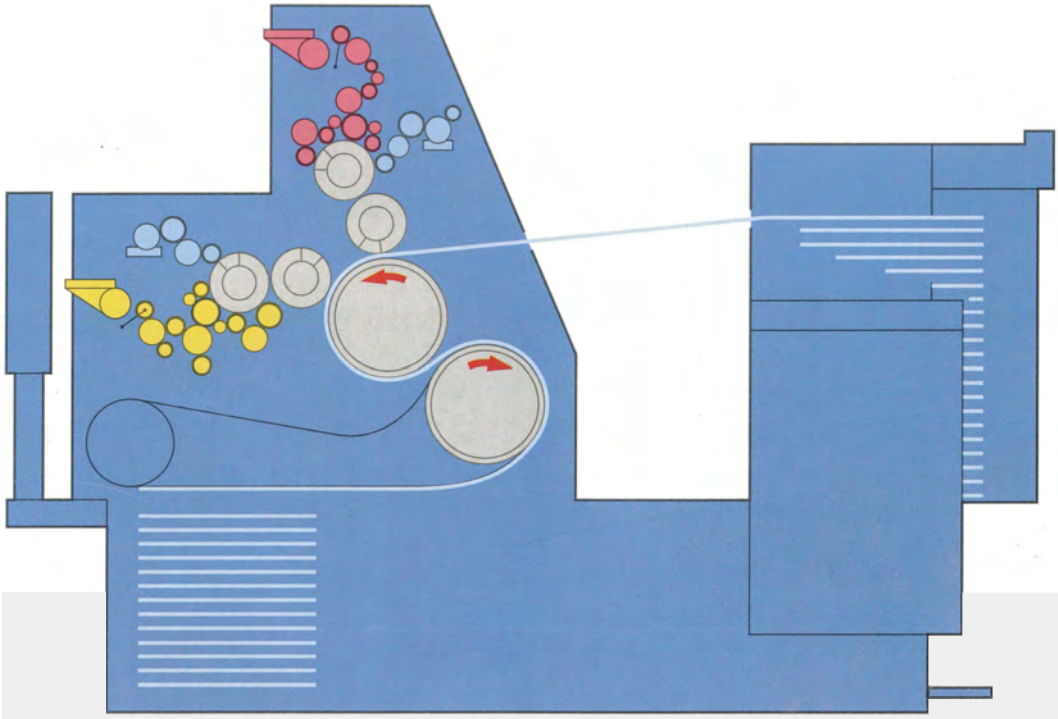
The KBA RAPIDA 72 K is fitted with all options, because it has been used for demonstration purposes in the showroom of the official KBA distributor. The machine has been maintained to the highest standard using original manufacturer's parts and accessories. The RAPIDA 72 K is in excellent condition and is fully operational with damage free cylinders. For more information contact us at pressroom@grafines-masinos.lt

Loaded on truck price

36,000 EUR

KBA RAPIDA 72K

Technical Data



A five-cylinder system and inking units with a single ink train to the front forme rollers are the principle feature of the Rapida 72 K

General

Year of manufacture	1999
Number of prints	22,600,000

Formats

Maximum paper size	520 mm x 720 mm
Minimum paper size	210 mm x 297 mm
Printing area	500 mm X 700 mm
Gripper margin	10 mm
Maximum capacity	17,000 sheets/h

Dimensions and weights

Length	3,125 mm
Width	2,475 mm
Height	2,000 mm
Weight (rollers included)	5,400 kg

Substrates (paper & board)

Standard	from 40 g/m2 to approx. 0.5 mm

(special board equipment included)

Output *

Max. printing speed	18,000 sheets/hr
Production output	17,000 sheets/hr

Printing unit

Back-pressure cylinder diameter	360mm
Blanket cylinder diameter	180 mm
Plate cylinder diameter	180 mm
Printing plate size	557 mm x 720 mm
Printing plate thickness	0.5 mm
Plate mount size	525 mm x 710 mm
Blanket size	585 mm x 735 mm
Blanket thickness	1.9 mm
Blanket mount size	510 mm x 725 mm
Blanket cylinder undercut	3.2 mm
Plate cylinder undercut	0.5 mm

Pile heights (inclusive of table height)

Feeder	1,370 mm
Delivery	570 m

Electrical connected loads

Main motor	12.9 kW
Connected load	32 kVA
Average power consumption	24 kVA

* dependent on the printing materials used and other local processing parameters

KBA RAPIDA 72K

Included Options

1. Operation and control

The printer's workplace has been designed for convenient operation and arranged on the press delivery. It consists of a control panel with many facilities, with sheet counters, damping agent control, switching facilities for over-damping, for run commands, impression activation and de activation in all printing units, pile movement, end of production, and nonstop keys.

Safety limit switches function as required by the vocational league. The electrical connections for motors, blower units, and water pumps are made with plug connectors.

Operating states are displayed digitally on the delivery control panel.

2. Drive

The KBA RAPIDA 72 K is driven by a steplessly variable DC shunt motor. The following machine functions are possible:

» Creep speed in either direction
» Automatic speed control to 6, 000 sheets/h after deactivation of impression
» Speed rate storage
» Illuminated signal displays machine blocking

3. Feeder

KBA RAPIDA 72 K are equipped with heavy-duty stream feeders made by KBA Modling and with vacuum belt tables.

Roller-type pileboards, pile introduction from the front

» Vacuum head height adjustment
» Maximum pile height 1,370 mm (above floor)
» Motor-operated pile lifting and lowering
» Sucker adjustment in cases of slant stream during travel
» Separate lifting and trailing sucker movement
» Air control by rotary valve with easy demounting for cleaning
» Bearings free of maintenance
» Speedometer
» Electromechanical double sheet checking
» Vacuum belt table with four-chamber vacuum system permitting the air quantity to be matched to the different transport phases of sheets
» Table surface of stainless antistatic structured plate metal
» Carrier arm with pressing rollers and brushes for fixing and guiding the stream of sheets on the feed table; setting to size length according to graduation.

4. Feed unit

Patented rotating sheet feed unit with vacuum drum under feed table

» Principle of overlapped feed unit with long times for alignment and checking

» Sheet transport directly to impression cylinder

» No excessive pulling speed regardless of high printing capacity

» Paper thickness adjustment on the pull lay, equal pulling times for all paper grades

» Four front lays to be set to paper thickness

» Photoelectrical sheet checking at inlet to feed drum; gripper blocking in cases of missing sheets

» Photoelectrical double sheet and side lay checking

» Photoelectrical sheet checking at inlet to feed drum

» For board processing: easy sheet inlet resetting without tool according to graduation

5. Damping unit

» Alcohol film damping unit of type VARIDAMP. Damping agents are applied via damping agent application roller (diameter 59 mm)

» Speed-compensated damping duct roller drive by motor of its own

» Damping agent quantity control and overdamping to be controlled from delivery command panel

» Damping agent circulation with filter, cooling, and alcohol stabilization

6. Inking unit

» Z-type inking unit. Ghosting is largely avoided due to the single stream in supply to the first application roller and the zigzag arrangement of the distribution and application roller group.

» Fast response by permanently rotating ink duct roller (good ink mixing in ink tray) and single-stream ink control, sensitively adjust able ink blades by direct action fount ain screws

» Stepless vibrator adjustment

» Ink tray with wide range of movement for cleaning

» Lateral distribution with stepless adjustment within 0 ... 30 mm

» Ink distributor Rilsan-coated

» Application rollers to be activated and deactivated while the press is running.

» Four ink application rollers with different diameters (56, 68, 51, and 59 mm)

» Bayonet closing fixture for application rollers, roller insertion and demounting without change of setting

» Roller setting knobs on the outer side of machine

» Roller setting relative to impression plate without any tool

» No reduction in inking intensity between beginning and end of impression by small plate cylinder gap

» Hydraulic application roller activation

» Activation and de-activation of inking units along with activation and de-activation of impression by selector switches; manual operation also possible

» Washing blade for every inking unit, manual activation and de-activation, short cleaning times

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7. Printing unit

» Five-cylinder system with impression cylinder having twice the diameter of blanket and plate cylinders
» Optimum register since two colours are printed in one gripper closing action
» Optimum comfort in operation since two complete printing units can be controlled from a central station
» Surface finish on all cylinders
» Impression cylinder grippers with sensitive adjustment, positive gripper closing
» All cylinders running in multi-row antifriction bearings with adjustable play
» Hardened and ground helical-tooth teeth
» Lubrication by oil flooding
» Accident-proof design of cylinder gaps
» Printing development speed no more than 2.35 m/s at 15,000 sheets/h
» Activation and deactivation of impression by hydraulics largely free of wear
» Impression with and without bearer contact possible
» Hand-operated sensitive adjustment of the circumferential and lateral registers (setting radial ± 1.6 mm, axial± 1.0 mm) and paper thickness setting relative to back pressure cylinder centrally on one side; setting possible while machine running
» Quick- action plate clamping and blanket clamping fixtures
» Register systems for plate cylinders at extra charge
» Automatic activation and de activation of impression, manual integration and segregation possible
» Sheet transfer even with maximum size after complete impression only; no change of grippers during impression
» Impression cylinder and sprocket wheel diameter 360 mm, particularly suitable for board processing
» Significantly reduced risk of smearing
» Positional variation of plate cylinder relative to blanket cylinder possible

8. Delivery

» Nonstop short-pile delivery with board guide, pile height 570 mm
» Sheet transfer by gripper systems after complete impression only, even with maximum size
» No roll-in of rear sheet edges by sheets sticking to the blanket
» Double-size sheet-removing shaft (diameter equal to that of impression cylinder) effects smooth sheet travel
» No pulling force acting on supporting disks of the sprocket wheel shaft; blower unit on sprocket wheel main shaft at extra charge
» Individual air control for optimum sheet travel and depositing
» Vacuum roller and three-side sheet jogger adjust able by graduations according to sheet size
» Low sheet depositing speed regardless of high capacity
» Catcher arms for easy sample sheet removal
» Pile lowering controlled by capacitive sensing head
» Securing of upper and lower final pile positions by limit switches
» Full pile deactivates vacuum and, thus , paper supply from feeder
» Machine stops in cases of overshooting sheets
» Spray gun WEKO T 66 c with size width remote setting

9. Safety equipment

Safety fixtures comply with German safety prescriptions. Limit switch safety systems meet the demands of the vocational le ague. The press has been tested by this league and awarded the GS (tested safety) mark.

The KBA RAPIDA 72 K is equipped with the following safety fixtures:

» All rotating rollers, cylinders, and drums have protective guards with safety switches.

» Opened guards are displayed by signal lamps.

» With inking unit guards opened, forward and backward machine movement is only possible by jogging with 1. 5 m/min from the control panel preceding the corresponding guard

» Automatic deactivation of impression and breaking of the machine by actuation of the emergency OFF key or in cases of mains blackout.

» Safety circuit for nonstop rails in the delivery.

10. Special equipment

Feed unit / Feeder & Delivery

» Antistatic unit KERSTEN

Printing unit

» Blanket spare clamping rails

» Register system BACHER CONTROL 2000

Other equipment detail

» Plate and film punch for BACHER CONTROL 2000 (inclusive of 1 fitting rail each for mounting and copy)

» Sheet inlet for board (above 300 g/m2)

» Pressing rollers and vacuum drum for heavy board

» Blower pipes on sheet removing drum (sprocket wheel main shaft)

» AIR-LOC mounts (vibration absorption)

» Minimum set of spare parts

11. Other included equipment

» KBA-type stream feeder with suction head height adjustment, speedometer, electromechanical double sheet checking, sucker adjustment during machine run

» Vacuum belt table with four-chamber vacuum system

» Photoelectrical double sheet and side lay checking units

» Photoelectrical sheet checking unit at front lays and inlet checking at impression cylinder

» Surface-finished plate, blanket, and impression cylinders

» Quick-action plate and blanket clamping fixtures

» Rubber-coated rollers for upper and lower inking units; rider Rilsan-coated Roller washing unit for every inking unit

» Alcohol film damping unit VARIDAMP

» Damping agent circulation system BALDWIN 851 with cooling and alcohol stabilization

» Command panel on delivery with all run commands, sheet counters, totalizers, control of damping units, activation and deactivation of impression

» Specimen for mounting and copying

» Two pile boards (usable for feed unit and delivery)

» Nonstop delivery

» Spray gun WEKO T 66 c with remote size setting

» Bottom plates, spare parts for feeder and machine

» Compressor equipment dimensioned for board processing (dry runner free of maintenance)

» Blanket punch

» Plate edging fixture

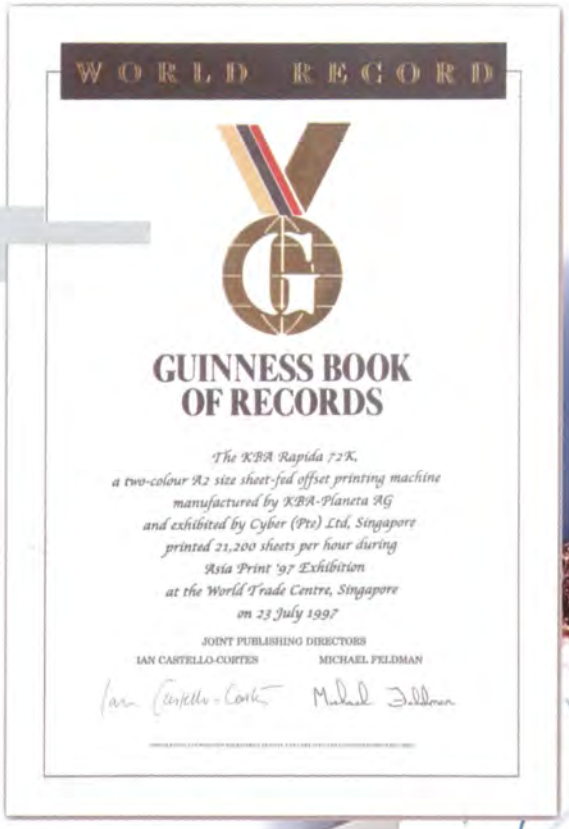
Looking for a world champion?

The world champion for the printshop can be found at KBA. Compact, user-friendly and unbeatably fast. The KBA Rapida 72K.

The world record in the field of print performance was already confirmed officially by the Guinness Book of Records in 1997. In that year the Rapida 72K was clocked at 21,200 sheets per hour in Singapore.

The Rapida 72K, the smallest press in the sheetfed offset range from Koenig & Bauer, represents an efficient solution for young businesses just moving into printing in format 50 x 70 cm. The advantages of the KBA Rapida 72K, however, are equally appreciated by major printers for whom flexibility is the decisive factor in the organisation of their day-to-day production. With its unrivalled productivity, after all, this compact two-colour press reliably eases deadline pressures in short and medium runs.

Thanks to its space-saving design (with a footprint of just 7 m²), good accessibility and fast makeready times, the Rapida 72K repays its investment in next to no time. And on top of that, it is also simple to operate for less experienced printers. With so many advantages this is one world champion which is easy to afford.



The Rapida 72K has already held the world record in sheetfed offset printing for many years

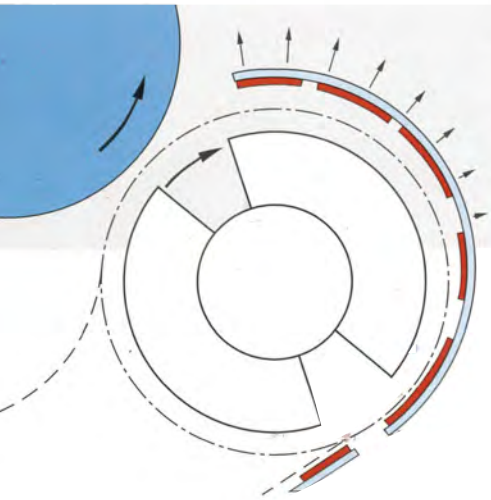
Enormous

Optimum sheet travel

Whether you intend to process lightweight materials, recycling papers or cardboard – the Rapida 72K achieves above-average outputs for the whole range of substrates. This is all down to the countless proven design features, which have been found at the forefront of developments in the industry for many years.

A high-performance feeder developed in-house at KBA separates the sheets and passes them to the suction-belt feed table. Independently controlled suction chambers permit fine adjustment of the air volume to the different phases of sheet transport across the feed table. Following alignment at the front and side lays, the sheet is accelerated to press speed by four suction drums and is fed directly to the impression cylinder, without intermediate transfers.

The double-size impression cylinder (diameter 360 mm) and the similarly dimensioned sprocket shaft (sheet delivery drum) guarantee optimum sheet travel even with thicker and stiffer materials. The geometrical arrangement of the cylinders enables every sheet to be fully printed before transfer to the delivery. And that right up to maximum sheet format.



Optimum sheet travel, whereby even maximum-format sheets are fully printed before transfer to the delivery grippers

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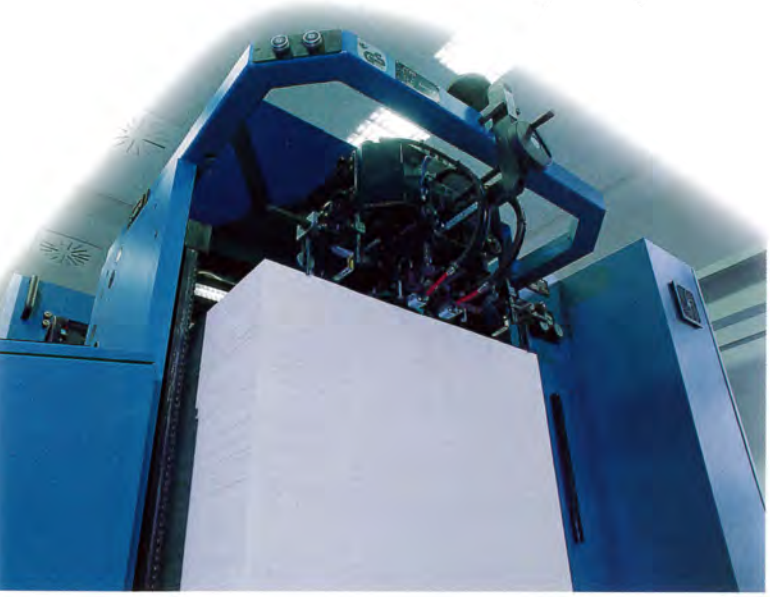
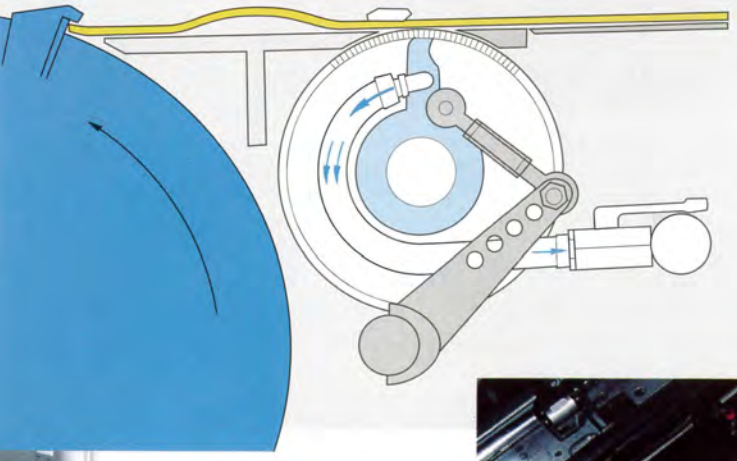
Flexibility

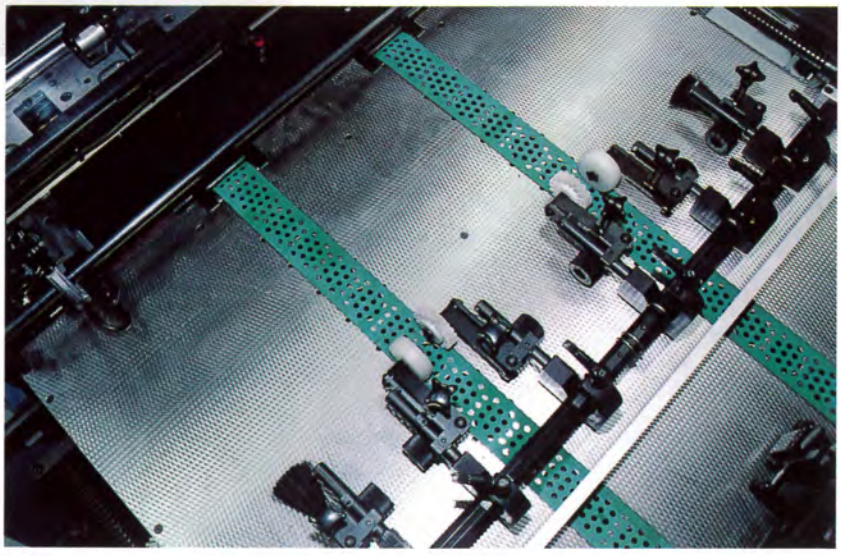


At approx. 2.8 m/s, the sheet transport speed on the Rapida 72K is even at 18,000 sheets per hour no faster than that of a medium-format sheetfed offset press running at around 11,000 sheets per hour. The high output is the result not of a higher delivery speed, but simply of shorter intervals between the individual sheets.

If required, the Rapida 72K can also be raised on a 250 mm plinth. In this way the maximum pile height can be increased to 1620 mm at the feeder and to 820 mm at the delivery, which makes the press especially attractive for the printing of longer runs or packaging.

Patented suction-drum infeed





Suction-belt feed table with separately controlled suction chambers

Simple Handling

High print quality

The inking unit and the fast reactions of the dampening unit form the basis for consistently high print quality. The controls on the Rapida 72K are arranged both clearly and ergonomically.

The clear layout of the delivery control panel: all press functions and both inking units are within easy reach for the operator

Central control panels at the delivery, which keep all the most important operating elements within easy reach, have won the hearts of printers all over the world. Plate-changing and the settings of the two inking units are also controlled from this same central position.

The four ink forme rollers all have different diameters. Together with the single-train ink supply this adds up to fast reaction times and a significant reduction of ghosting effects. The open design of the inking units avoids build-ups of heat - and the operator needs to make fewer corrections to the ink settings during longer production runs. The rollers are lowered and raised hydraulically, together with the impression on/off.

The Rapida 72K is equipped with easily accessible film-type dampening units. The dampening solution cooling system and alcohol level monitoring are included in the scope of delivery - you are thus ready to print as soon as the press is installed.

Short distances make for exceptional ease of operation

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