

Superior print quality



KBA PERFORMA 74

The Performa 74 for a sheet size of 520mm x 740mm (20¹/₂" x 29") is available as two, four, five or six colours, and from entry-level to high-automation versions to meet your specific needs. By focusing on print quality, overall productivity and ease of operation our research and development team has created a budget-priced press that delivers an outstanding image. The Performa 74 is suitable for a wide variety of print operations, from commercial and trade to fine art reproduction.

Double-diameter cylinders



Overall concept

The Performa 74 features double-diameter impression and transfer cylinders in the "7 o'clock" configuration. The flatter sheet run through the press due to this design means less stress on the stock, fewer transfer points and the ability to run a wider range of stock weights. The shell-free transfer cylinder eliminates streaking on the wet side of the sheet during transfer between units and into the delivery.

GATF and FOGRA quality standards

Every Performa 74 must pass not only the GATF Version #5 Quality of Print Test using GATF Certified Film, but also the Consistency of Print, Register and Ink Fall-off Standards stipulated by FOGRA in Europe.

Rigorous quality control

At key stages of assembly all critical press components, including gears, bearings and cylinders, are individually tested to ensure that they meet our high standards. In addition to quality control systems integrated in the manufacturing line during assembly, every fully assembled press is subjected to rigorous mechanical, electrical and electronic testing to ensure reliability for years to come. Our commitment to quality is backed by more than 5,000 quality control inspections prior to shipping.

Sensitive ink/water control



Inking unit

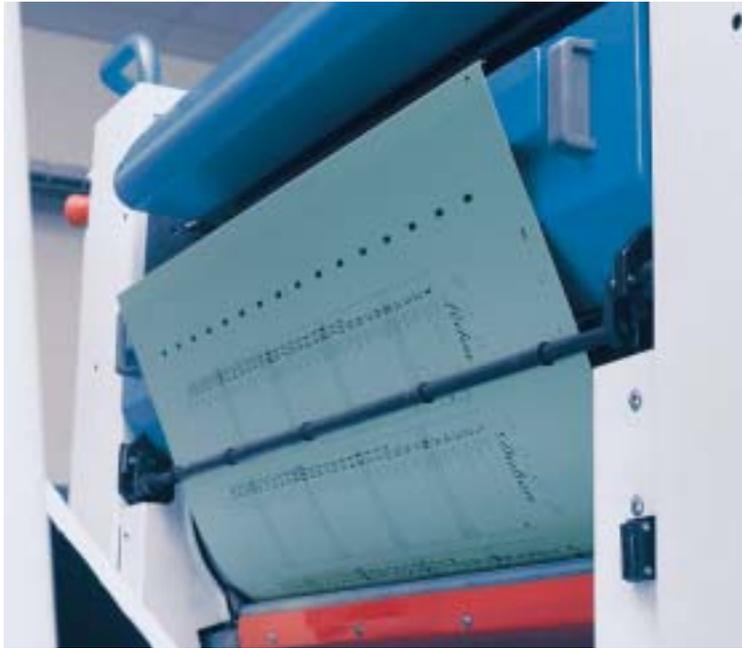
The powerful inking unit features four forme rollers of different circumferences, each with easily adjustable oscillation from 0 to 30mm. Four adjustable oscillating drive rollers allow full control of lateral ink flow to the plate and ink flow timing to the plate. This ensures uniform ink laydown, even on challenging formes. Optional temperature control for the inking unit dramatically improves inking stability and even supports waterless printing.



Ecomatic dampening unit

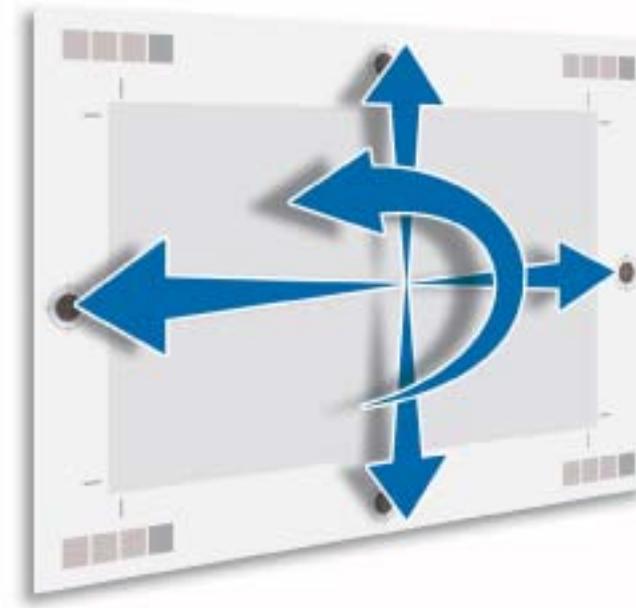
Good ink laydown is the result of a correct ink/water balance. Fount solution temperature control, the ability to switch to integrated or segregated dampening, plus touch-screen adjustment of fount solution volume in 1% increments, puts you in total control of the ink/water balance.

Advanced automation...



Semi-automatic plate change

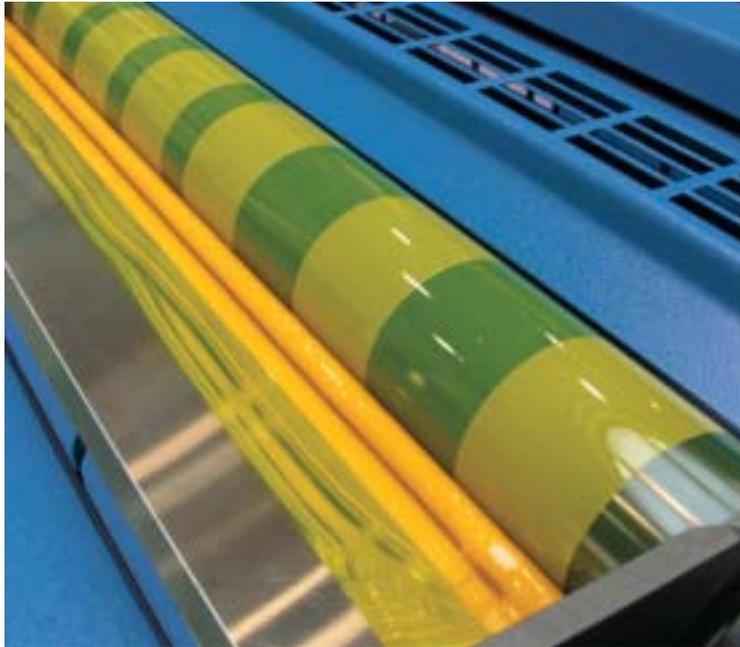
Tool-free plate mounting and removal in just 60 seconds per unit brings tremendous time savings. The accuracy of the system ensures an almost perfect fit, even on the first pull. And because the preset tension on the plates is set automatically there is no distortion, so they can be re-used if necessary. Via the touch screen the press operator can even preset the position of the cylinder gap for more convenient plate mounting. The printing unit cladding can be used as a plate rest.



Perfect registration – from the console

Circumferential, lateral and diagonal register is easily adjusted – even on the run – from either the press console or the delivery touch screen. The plate can be adjusted diagonally by ± 0.3 mm for a total movement of 0.6 mm. With our tool-free system you will enjoy faster makereadies, less waste and a higher quality.

...for enhanced productivity



Remote ink key Control

All changes to individual ink keys and sweep settings can be made quickly and easily from the press console or the delivery touch screen. Changes on all units occur simultaneously. This means higher quality and less waste. Should you ever need to zero the ink duct, our electronic, tool-free system will do the job in just a few minutes, saving you hours of down time.



Automatic washing systems

The washing systems for the rollers and blankets are cloth-based water/solvent systems. The operator can easily adjust the volume of water and solvent needed for each unit, as well as the spray volume. This allows him to adjust the washing cycle to suit the specific printing unit, eg to remove paper dust or spray powder in the first units.

Flexibility...



Inline tower coater

Inline coating fulfils two purposes: product enhancement and a quicker running of the second pass. The Harris & Bruno tower coater produces highest quality coating by offering changeable coating cylinders and on-the-run adjustment of both lateral and circumferential settings to ensure a correct fit on spot coating jobs. Overall coating also reduces the possibility of "gas ghosting" and of ink set-off in the delivery pile. The automatic coating wash-up system means that you save valuable press time at the end of a coating job or when washing up at the end of a shift.



Drying

The optional extended delivery allows you to coat at maximum press speed and features a balanced system of hot air knives and IR lamps that dry the coating instantly so you can print the second side without delay, reducing costly production time. The IR lamp units can be easily exchanged for UV units if desired.

...to meet your needs



Inline dampener coater

If you are short on floor space, coat mainly for the production advantages or only on occasions, our dampener coater could be just what you need. It is an integrated system that is factory installed in the 5th or 6th printing unit. This allows you to use the press for 5 or 6 colours or for 4 or 5 colours plus coating. Conversion between the two takes about 30 minutes. Testing has shown very high levels of gloss.



Nonstop feeder and delivery

The height of the delivery and feeder are carefully aligned so you stop only once to change piles on long runs. With our nonstop feeder and nonstop delivery you eliminate the need to stop the press when racking or changing short piles in the delivery. This means higher production, less start-up waste and a better quality.

The complete press from delivery...



Delivery

The height of the delivery pile is aligned with the feeder pile so you only need to stop once to change both piles. The shell-free transfer drum to the delivery means that there is no cylinder to touch the wet side of the sheet when entering the delivery. The overall design of the delivery ensures that you will be able to eliminate any streaking that may occur. Pressing the button to remove a test sheet on the run automatically causes diverter fingers to be inserted in the pile at the proper time and lowers the pile so you can remove the test sheet easily, with no damage to the sheet or interruption of running. Other standard features include a sheet decurler, adjustable vacuum sheet brake, powder spray unit, ioniser to remove static electricity in the pile and an adjustable (swivel head) touch screen that gives the operator maximum control.

Coating – two options

If you anticipate frequent coating, high-gloss decorative coating, large volumes of spot or solids coating and high-speed production, the Harris & Bruno inline coater with chambered doctor blade and extended delivery is the product for you. For occasional or production quality coating, if your floor space or budget is restricted, or if you would like the ability to switch from coating to a fifth colour, our dampener coater is more appropriate.

...to the feeder



Printing unit

The basic design of the printing unit features double-diameter impression and shell-free transfer cylinders. Production is controlled from either the press console or the delivery touch screen so your operator can adjust for paper thickness, register, ink keys, duct roller speed and fount solution. This results in a higher production speed, more consistent quality, less waste and less operator fatigue.

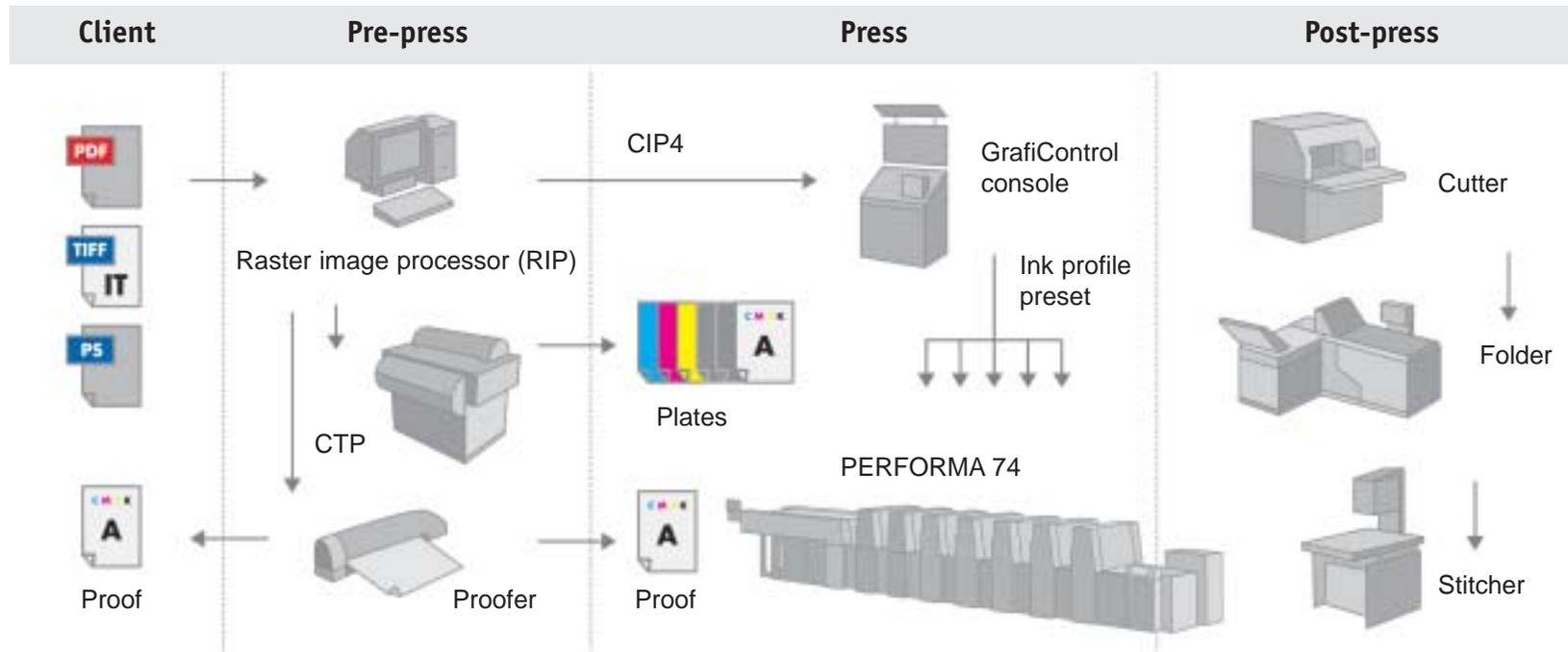
Feeder

The entire feeder head is easily moved in one action to suit the paper pile. Fine adjustments can be individually made to the two sets of lifting and forwarding suckers, suction force, pile height calliper and air blast into the pile for sheet separation.

Feed board

A double-sheet detector at the top of the feed board and an electromechanical or ultrasonic double-sheet detector at the front and side lays ensure that the sheets enter the printing units one at a time. In addition, standard equipment includes an optical sensor to detect skewed sheets and a calliper that holds any sheets that may be misaligned on the feed board. Our twin vacuum-belt paper conveyor with a dedicated vacuum supply controls the sheet on the feed board, slowing its arrival at the front lays to avoid damaging the leading edge.

Digital CIP4 workflow...



...for printshop networking



Standard CIP4 interface

Our products allow you to use pre-press data via a CIP4 interface. The press can automatically preset the ink profiles in the individual printing units. This results in easier, faster makereadies and more standardised work. Once entered, job data can be used at all stages of production, optimised, stored and re-used for repeat jobs.



Open to the future

The ability to use digital pre-press data throughout the printing and finishing processes enables you to take advantage of future advances and upgrades, while the global trend towards networking creates a basis for more efficient production. KBA-Grafitec innovations help you exploit this potential to the full.

Convenient operation at the console...



Touch screen

The ergonomically designed colour touch screen is highly intuitive and user-friendly. In addition to on-site training, self-help learning programs are installed as a standard item of equipment in case the operator needs assistance. The screen can be swivelled to suit the individual operators.



Graficontrol

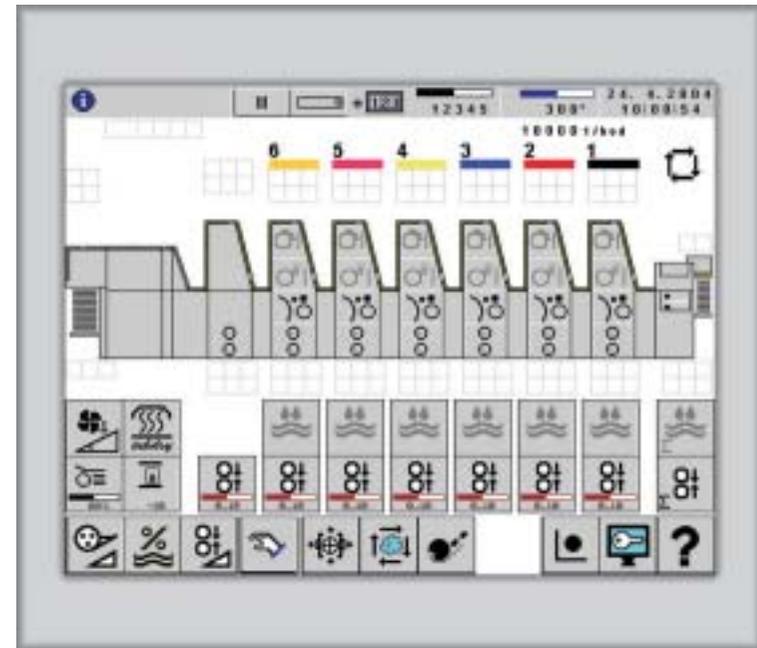
Jobs can be set up via the standard CIP4 system or manually if desired. All operating software is standard equipment. Register, colour profiles, ductor speed, font settings and sidelay settings can all be controlled from the Graficontrol console. Colour density can be measured with a manual or automatic scanning densitometer. Job parameters for up to 4,000 jobs can be stored for repeat runs.

...and directly at the press



Ease of operation

Colour profiles can be set by simply running a finger over the colour touch screen. The parameters for the next job can be entered in the GrafiControl system while the current job is still running, saving valuable makeready time. No need to stop the press to key in new data.



Automatic setting of paper thickness

Paper thickness can be set automatically by remote control. No need to run around the machine to speed up makeready.

Ergonomic design...



Space saving yet easy to operate

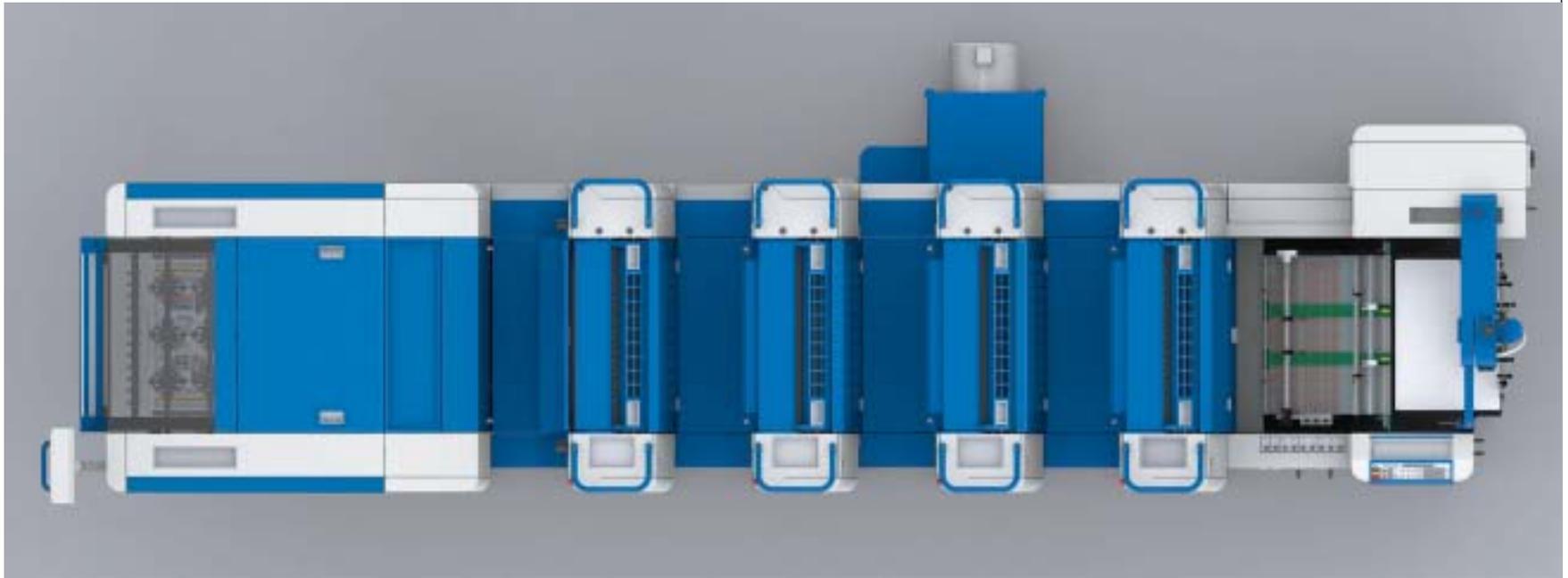
The Performa 74's heavy-duty construction makes it one of the most durable presses in its field. The ingenious design eliminates the need for catwalks, saving you valuable floor space as well as reducing legwork for the press crew. Robust, fold-down steps have been built in for those instances when you may need to access the top of the inking unit. To reduce maintenance time and tasks, around 85% of lubrication is liquid grease dispensed automatically, and the ioniser, powder sprayer and dryer are all easy to access. Safety guards are strategically placed throughout the press.



Designed with ergonomics in mind

No catwalks to climb; operating controls on both sides of the press, so the operator can choose which side to work from; a swivel touch screen that can be adjusted to suit each member of the press crew: these are just a few of the thoughtful design features incorporated in each and every Performa 74.

...for user-friendly operation and maintenance



Minimum space requirement

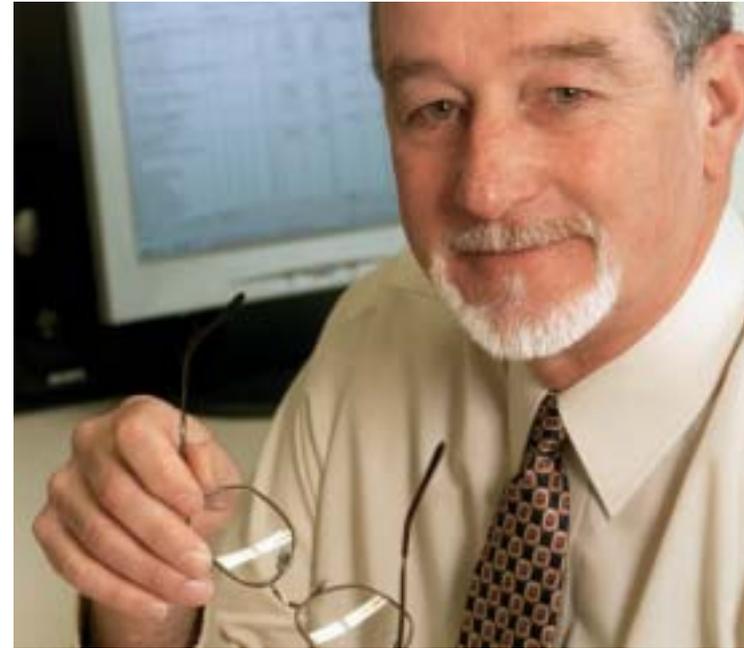
The Performa 74's compact footprint takes up less floor space, which cuts your overhead costs, reduces operator fatigue and makes for easier operation. The result? Increased production and a better product quality. But don't let that small footprint fool you. The Performa 74 is one of the most rugged in its category – which means you enjoy the benefits of a sturdy, vibration-free press capable of printing to the highest quality standards.

Intelligent choice



Excellent support

KBA has an established reputation for prompt, effective service and customer support, and the same applies to KBA-Grafitech, which is now fully integrated in KBA's global sales and service network. This guarantees you competent technical support, fast and efficient press installation, two-step operator training, first-class maintenance and the rapid availability of spare parts.



Affordable press

The Performa 74 is specifically engineered to offer you, the customer, a high level of performance and production efficiency at an affordable price.

Fast makereadies and a superb print quality make our Performa 74 the logical choice for cost-effective colour print production in the 21st century.

Performa 74 specifications

Maximum sheet size	520 x 740 mm	20 ¹ / ₂ x 29 ¹ / ₈ in
Minimum sheet size	330 x 330 mm	13 x 13 in
Maximum image area	510 x 735 mm	20 x 29 in
Sheet thickness	0.05 - 0.6 mm	0.002 - 0.024 in
Maximum output	13,000 sheets/h	13,000 sheets/h
Plate size	575 x 740 mm	22 ⁵ / ₈ x 29 ¹ / ₈ in
Plate thickness	0.2 - 0.3 mm	0.008 - 0.012 in
Feeder pile height	840 mm	33 in
Delivery pile height	920 mm	36 ¹ / ₄ in
Press height	1,810 mm	71 in
Press width (without motor)	1,595 mm	63 in
Press length (2/4/5/6 colours)	5,300 mm / 7,120 mm / 8,030 mm / 8,940 mm	17 ft 5 in / 23 ft 4 in / 26 ft 4 in / 29 ft 4 in
Coater	910 mm	35 ¹ / ₈ in
Extended delivery	+1,400 mm	+55 in
Machine weight - 2 colours	9,750 kg	21,450 lbs
Machine weight - 4 colours	16,150 kg	35,605 lbs
Machine weight - 5 colours	19,350 kg	42,660 lbs
Machine weight - 6 colours	22,550 kg	49,715 lbs



KBA Performa 74

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