

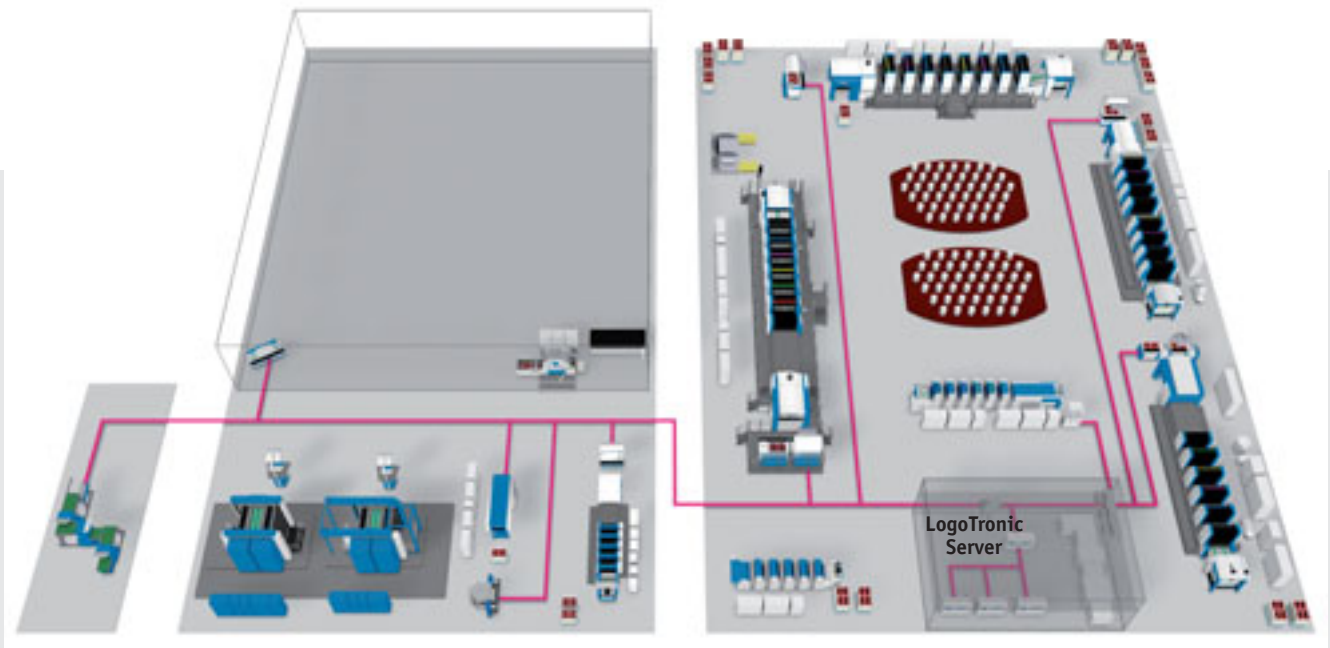


KBA MEASURING SYSTEMS

Measuring and controlling print quality

KBA LogoTronic

Tailored solutions for integrated data management



LogoTronic Professional provides a link to commercial IT and management information systems (MIS), as well as to the whole range of printing presses and peripheral equipment at production level.

Both KBA sheetfed and web presses can be networked within a single LogoTronic setup. And it goes without saying that other components, such as the quality measuring and control system DensiTronic, the sheet inspection system QualiTronic, a CIP3/JDF interface or the service module ServiceTronic can also be integrated into the network. LogoTronic itself incorporates a CIP3/JDF data transfer module to exchange the data required for press presetting and job reports. Printing can thus be started more quickly and with less makeready waste, and valuable production time can be saved.

Press presetting is based on the transfer of ink profile data, area coverages and settings for the ink duct roller and dampening unit. In this way the LogoTronic network can be configured exactly to meet the individual user's needs, with the flexibility to grow step by step as the business expands its implementations of fully digital data flows.

Customer benefits

- Digital networking of presses to pre-press and management information systems
- Electronic planning chart, job scheduling, SpeedWatch, PressWatch
- Saving of press parameters for repeat jobs



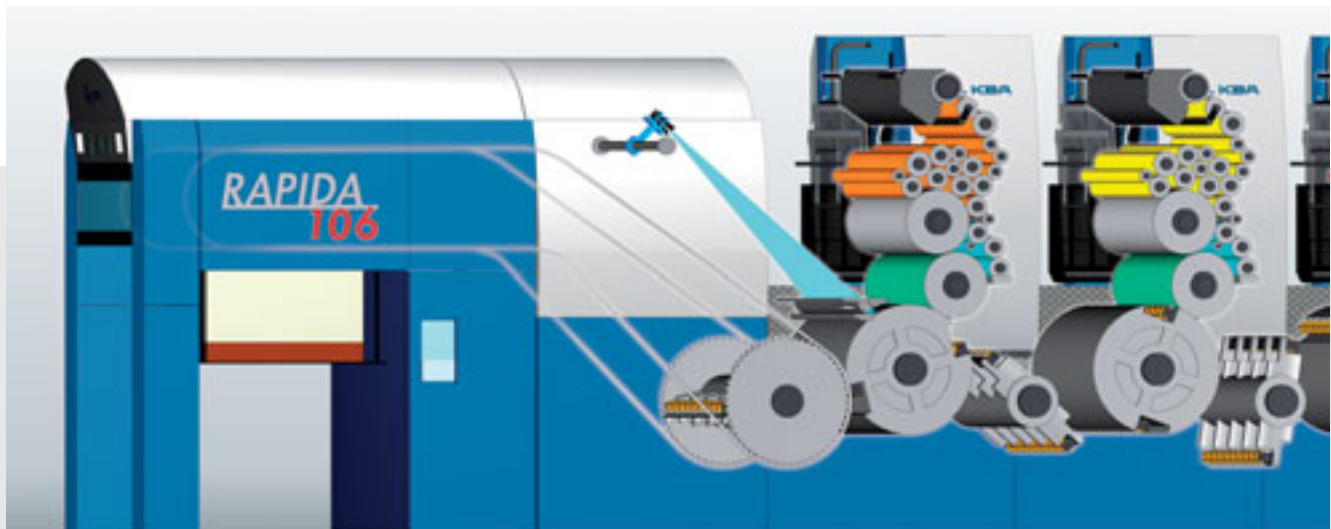
Technical details

- LogoTronic server, a powerful PC with database, basic software and an integrated web server
- Options: LogoTronic, printing of pallet docket or maintenance lists via a network printer, data saving on the company network

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						▣ by special request	

KBA QualiTronic

Inline sheet inspection for flawless prints



QualiTronic is KBA's high-performance inline sheet inspection system for Rapida presses. KBA QualiTronic is an ideal tool above all for those printers who seek the business of particularly discerning customers and need to promise continuous monitoring and documentation of their top-quality performance. Brand packaging is just one of the applications which spring to mind.

Via a dedicated monitor assigned to the inspection system, quality deviations are already signalled as they develop, instead of waiting until they become evident in the delivery. The press operator can thus take appropriate remedial action before the defined tolerance thresholds are exceeded. This feature alone justifies the investment in QualiTronic for quality-conscious printers.

Customer benefits

QualiTronic quickly pays its way with:

- waste savings
- cost savings in connection with rejects or returns, thanks to continuous monitoring of the materials and print quality
- image enhancement and the ability to handle premium products

Technical details

The system identifies:

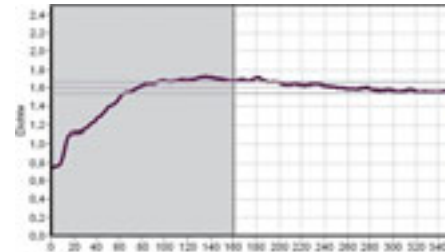
- transient deviations (ink splashes, hickeys, paper defects)
- more permanent deviations (tinting, low ink, over- or under-inking)

Options: QualiTronic Professional, sheet marking, tag inserter

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KBA QualiTronic Color Control

Inline colour measurement for every sheet



“Into colour” with QualiTronic Color Control

QualiTronic Color Control is a system for inline colour measurement and control on Rapida presses from KBA. The combination of on-press density measurements with closed-loop control of the ink key settings, and thus the ink profiles in the inking units, paves the way to a new level of print quality assurance in sheetfed offset.

QualiTronic Color Control accelerates the attainment of target densities and then

holds inking constant over the whole length of a job. Alongside true colour reproduction and documented stability in print quality, this also serves to reduce waste and makeready time.

Customer benefits

- Faster “into colour”
- Reduced waste
- Extremely constant inking over the whole run length

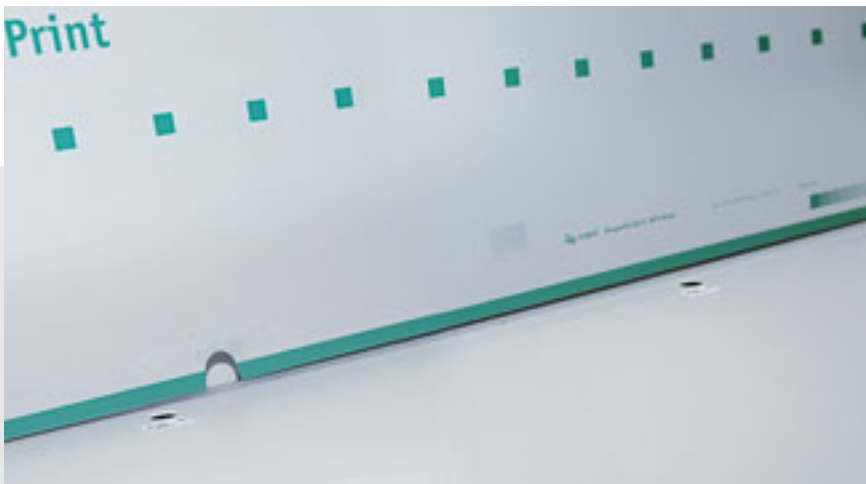
Technical details

- Measurement from the first to last sheet irrespective of printing speed, on both sides of the sheet on perfecter presses
- The target values are reached for most images after 150-200 sheets, though many jobs will actually require far fewer start-up sheets
- Colour optimisation and stabilisation also at production speed
- Ultimate production stability, with density values held within a tolerance of +/-0.05
- Zone-specific target values and operator changes during the run remain possible

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KBA Register systems

Automatic Plate Punch (APP) – High-precision punching for offset plates



The basic concept behind such a plate positioning and punching system is to align the printing plate according to the exposed image, and only then to punch the plate. Subsequently, the plates will immediately be in accurate register when mounted on the press.

Depending on the type of plate changing system used, the otherwise typical multiple corrections at the start of printing can be reduced, and in ideal cases even eliminated altogether.

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Automatic Camera Register (ACR) – Register measurements on the sheet



ACR is a system to check and control image register on the press console desk. A handheld camera device is used to measure special register marks added to the plate layout. Any register differences are calculated by the system and transferred automatically to the press for adjustment in the lateral, circumferential and diagonal directions.

One key benefit of this system is to be seen in the reduced makeready time, especially on long presses. At the same time, the camera can be used as a convenient magnifier for close-up appraisal of individual image elements.

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Plate Ident –

On-press register measurement and plate identification



One function of Plate Ident is to determine the exact relative positions of the image separations on the plates when mounted onto the press.

Sensors fitted in the plate changer detect alignment marks exposed alongside the actual image and calculate presetting data for the register systems of the individual printing units. The whole measurement and adjustment process is accomplished during the automatic plate change. In other words, the register is already set in advance of the first pull.

The user is thus able to save waste and makeready time, and can concentrate instead on possible fine-tuning of the image quality. In addition to the pre-register function, the Plate Ident system also reads a data matrix code to identify a particular plate, and thus to ensure automatically that the correct plates are mounted on the correct printing units for the selected job.

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