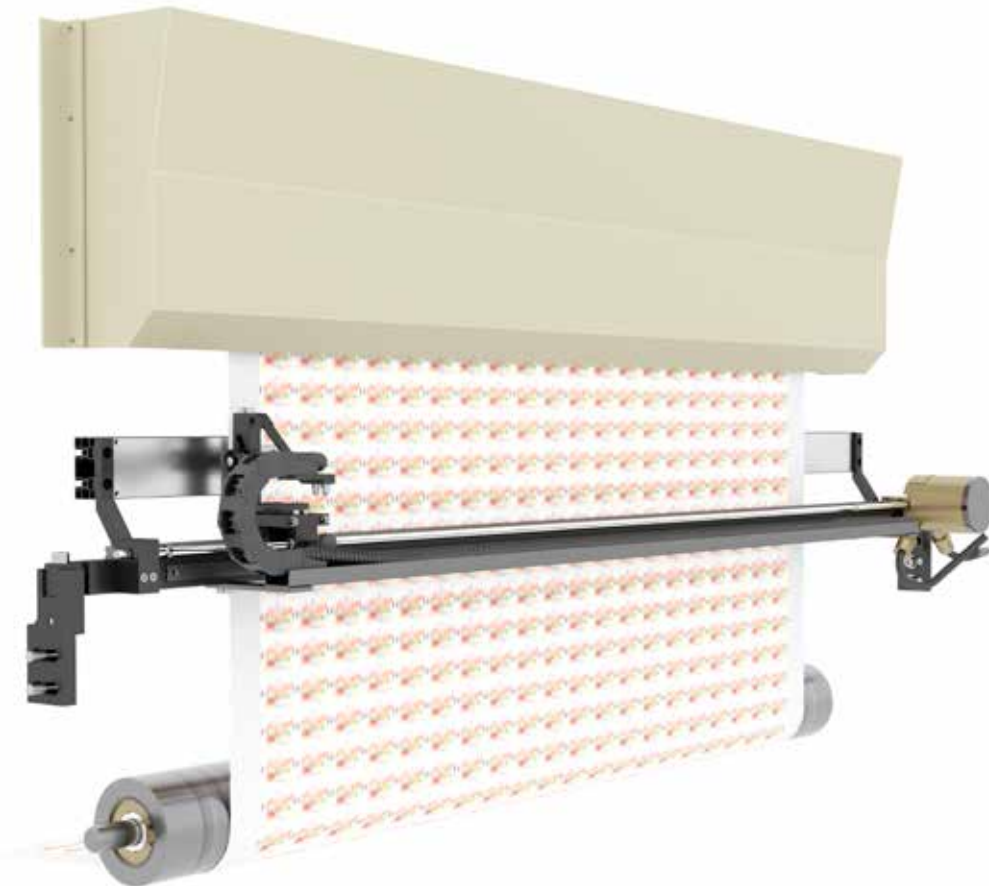


# CR50

## ➤ COLOR REGISTER CONTROL SYSTEM



The CR50 register control system guarantees the highest accuracy and reduction of waste during all phases of production: make-readies, acceleration, and splices for both mechanical and e-shaft presses.

The superior electronic technologies and dedicated software algorithms guarantee steady register between the colors for the entire press run resulting in maximum operator and press efficiency. CR50 can be easily adapted to different printing processes (gravure, flexo or offset). It can function on all registered printing units or as single control for a downstream station.

The system is designed to fit on new or existing presses and are adapted for in-line or tandem configuration presses.

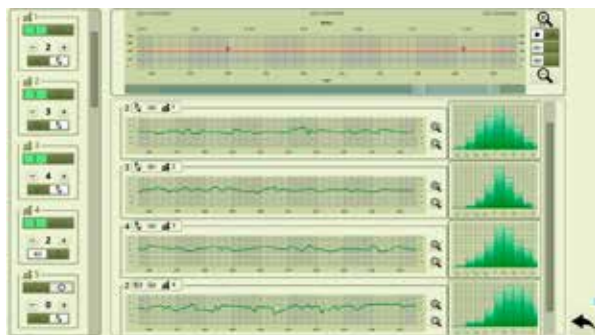
The fiber optics scanners are specially designed using high sensitivity sensors which automatically adapt the amplification to detect very low contrast colors on any kind of substrate.



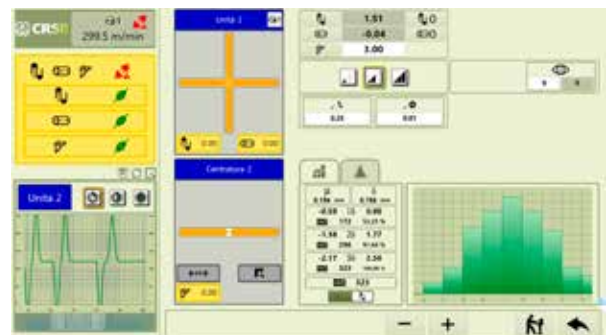
MAIN OPERATOR SCREEN



SET UP SCREEN



REGISTER TREND



GAUSSIAN GRAPH OF REGISTER ACCURACY

## TECHNICAL FEATURES

- The hardware design allows the system to be adapted with an electric cabinet to hold all the required electronic components in one enclosure.
- Operating speed 900mt./min. to match the production speeds of the latest-generation machines.
- The motorized scanners (designed for ex-proof areas) along with the “automatic-pattern-recognition”, “mark-auto-search” and “mark-auto-centering” allow a fully automatic start-up without any operator intervention (with an initial scanner position tolerance of  $\pm 8$  mm).
- The LED light source guarantees more than 100.000 hours of life (11 years). The 1 mm light spot allows mark size to be reduced to 3 by 3 mm.
- Various mark patterns and shapes can be programmed or selected from the library so that existing cylinders can be used.
- The “auto-preset” function, developed for electrical shaft presses, performs the cylinder phase presetting and guarantees completely automatic register start-ups.
- Real-time charts display the error trend and the production statistics. The system also provides an interface to the company network or external users for data sharing.
- The user-friendly multi-touch interface utilizes intuitive graphics and gestures to assure easy learning, fast set-ups and simple adjustments during the job run.
- Make-readies will be quicker with the job storage database, all the job parameter settings, such as press configuration, compensator preset and register tolerance can be saved and recalled.
- Specially designed software allows the CR50 to control the insetting of pre-printed webs or for registration with downstream processes.
- When the register error exceeds the set threshold value, a visual and audible alarm is activated and a waste output signal is provided to mark or reject the product.
- Various A/D data output possibilities are available for diagnostics or reporting such as: real-time register trend streaming, out of tolerance trigger signaling, or spooling to an external printer port.
- Dedicated and secure VPN connection for remote support.

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