• CRS10K • SELECUT10K • SELEPASS9000

REGISTER CONTROLS

SELECTRA
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APPLICATIONS

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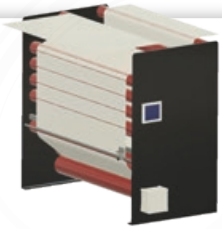
REGISTER CONTROLS

Selectra register control systems improve the precision and efficacy of the control, inspection and regulation of the register during the printing process.
They are an ideal solution for maintaining the back-to-back register and in-setting.
The operator can accurately modify the machine settings in real time through the touch screen monitor, optimizing start up time and improving productivity.

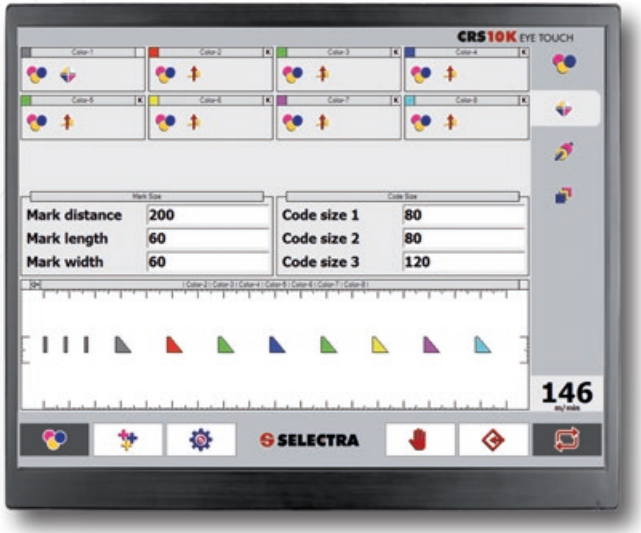
- Waste reduction
- Production speed can be increased thanks to the automatic control
- Synchronization of independent control elements
- Automatic Mark Recognition
- Graphic touch screen interface
- Automatic gain regulation of the reading sensors
- Reading precision and high response speed

REGISTER CONTROLS



OPERATOR FRIENDLY

Programming, configuration and adjustments are easy to perform. Set-up and operation are implemented through an industrial PC with a LCD touch screen monitor. The configuration of each printing head is independent from the others.



REGISTER MARKS

The marks act as a reference for the register control. Correct alignment of the register marks results in perfect registration of the print. They are programmable according to the existing cylinders.

EXTREMELY HIGH PRECISION

Granting an outstanding reading tolerance. The register control uses PID algorithms that can immediately eliminate errors caused by splicing, reel changes and variation in speed or tension. Thanks to its sophisticated algorithms, the system works flawlessly even under abnormal conditions.

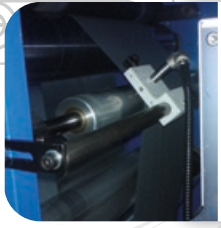
SELE DATA SYNC

It is a powerful software tool for Industry 4.0 that enables real-time data exchange between Windows PCs and Selectra Control systems. It is specifically designed to supports both TCP/IP and RS485/RTU Modbus protocol versions to communicate with field slave devices. SeleDataSync comes with a companion utility program called SeleDataReport, that enables users to easily convert log files into Excel-compatible CSV format.

The CRS 10K Eye Touch is a longitudinal and trasversal color register control which automatically corrects printing mis-alignment.
LED fibre optic scanning heads with automatic gain adjustment amplifiers are used to read the print marks. The digital oscilloscope displays and controls the input signal. Programming, control and display of errors can be implemented through the industrial PC with LCD touch screen monitor.

Technical information

- Operational speed from 5 to 600 m/min
- Sensitivity 0,01 mm
- Settable error threshold +/- 10 mm
- Alarm level regulation +/- 0,05/3 mm
- LCD monitor and touch screen
- Minimum working speed: programmable
- PID motors control parameters: programmable
- Pre-setting (optional)



CORRECTION MOTORS:

- Slo-Syn
- DC with variable speed
- AC with variable speed
- Brushless

SELECUT 10K

SELECUT10K is a single channel automatic register control for printing presses and converting machines. This system is particularly adapted to maintain the front/back register and for the in-setting control on pre-printed web.
The SELECUT 10K equipment includes a display LCD touch screen for data setting and control with a digital oscilloscope.
The mark detection is realized through LED fibre optics scanning heads connected to an amplifier with automatic gain adjustment.

Technical information

- Operational speed from 5 to 600 m/min
- Sensitivity 0,01 mm
- Settable error threshold +/- 10 mm
- Alarm level regulation +/- 0,05/3 mm
- LCD monitor and touch screen
- Minimum working speed: programmable
- Display with longitudinal and transversal visualization
- Designed to control embossing, cut-off, slitting, web folding, perforation, punching and bag machines

CORRECTION MOTORS:

- Slo-Syn
- DC with variable speed drivers
- AC with variable speed inverters
- Brushless
- Brakes to adjust the web tension

Selepass9000 can read the print repeat creating an alarm for excessive elongation/shortening of the material.
The measurement is made by detecting the distance between two (or more) print marks using an optical detection sensor. The measured length is displayed on the LCD display of the control unit and, as option, through an LCD touch screen monitor with histogram function. The system includes an additional digital Modbus interface that can be used to communicate with an external device, such as a PLC or a PC.

Technical information

- It manages multiple repetitions within the single print repeat
- Sensitivity 0.1 mm
- Alarms for the variations or exceeding of the set length.
- Teach-in function
- The feed and speed of the web are measured with a high-resolution encoder connected to a metric wheel.
- It can also work as a register control.

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