Repeat Length Measurement System *for* Post-Printing Inspection and Reporting

Overview

Our Repeat Length Measurement system is ideal for inspecting, monitoring and reporting in post-printing applications. The system is effective in monitoring materials that are susceptible to stretching or web slippage. It is easy to install and can be moved from press to press to support changing production schedules and material changes.

The concept of the system is simple. Define the min/max repeat length that is considered "in-tolerance" for the job being inspected. Use a scanner to detect the registration mark on the material and make relative comparisons to the rotation of the press using an encoder. The Scanning Devices System Console compares the two measures, computes a ratio and alerts the press operator if the length between registration marks is out of specification. The system uses scanner and encoder data to calculate the actual length of the Repeat and accepts any unit of measure.

The system sends captured data to a computer using Scanning Devices software which can be exported to Excel for analysis and quality control reporting.

System Features/Capabilities

- System includes, Electronic Console, Registration Scanner, Encoder, and Scanning Devices Software
- Measures variances in milliseconds for precision tolerance reporting
- Operator warning/indicator lights on Electronic Console illuminate green when material is in spec., red when pre-established min/max tolerances are exceeded
- Dimensionless system reports proportional variances without the need to convert to metric or imperial measures
- 110 volt system with 3 prong line cord allows the electronic consol to be easily moved from one press to another
- 15 to 50' scanner and encoder cables available
- Console includes
    - 16 Digit keypad
    - 2 line display

Operating Console/Software

- Two line display, presents measurement status (in or out of tolerance), sequence number and measurement result
- Red and Green indicator lights indicate inspection error or in-tolerance measurements
- 16 digit keypad makes for fast system set-up
- RS232 interface transfers inspection parameters and results between PC and System Controller
- Scanning Devices software is easy to use and captures process data that can be displayed and analyzed in Microsoft Excel

Scanning Devices CX6 Scanner & Encoder

- General Purpose Registration Mark Scanner
- Optimized for color contrast detection
- NPN Transistor Collector sinks current to power supply minus, 100 milliamps MAX
- Selection Switch for Light mark on dark background or Dark mark on light background
- Multi-turn adjustment dial
- Quick Disconnect cables, lengths 15 to 50'
- Vertical and Horizontal Orientation
- Scanning Devices Encoder
    - Rotary shaft
    - 600 PPR

*alternative specialty scanners available for low contrast print applications

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