ESTRAC 2000 NON-CONTACT FELT GUIDE SYSTEM

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ESTRAC 2000 DATASHEET

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INFRARED EDGE TRACKING SYSTEM

APPLICATIONS

- Originally developed for pulp & paper and converting plants, these systems can be used for any device requiring edge tracking control.
- Advanced non-contact measuring and guiding for felts and fabrics, can be placed into any part of the machine.

FEATURES

- No moving or wearing parts
- No electrical components in process area
- Non-contact measurement using pulsed infrared light
- All SS construction
- Simple to install, easy to clean and maintain

SPECIFICATIONS

MODEL	ESTRAC 2000
MATERIAL	Stainless steel SS304
Measurement	Modulated infrared light, frequency 5 kHz
Accuracy	< 1 mm
Output signal	4-20 mA, pneumatic signal 8..52 psi
Operating voltage	24 VDC, 100...240 VAC
Maximum temperature	Measuring fork: 320°F (160°C) Control box: 122°F (50°C)

BENEFITS

- Improves run time
- Increases lifetime of fabric
- Eliminates wear and tear of edge
- Minimizes cross machine movement of fabric. Through the 4-20 mA output, the system can be adapted directly to any roll guiding system as well as to the machine control room to provide continuous information on the fabric's cross machine position.
- Requires minimal cleaning as the continuous air purge and water spray keep the fiber optic lenses clean for proper operation.
- Specifically designed for harsh industrial environments. Includes a minimal amount of components resulting in extremely low system maintenance.

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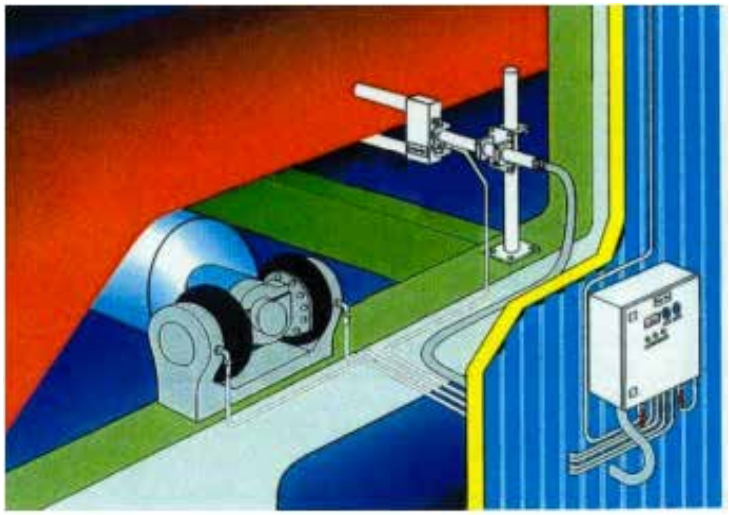
OPERATING PRINCIPLE

The ESTRAC 2000 infra-red guiding system consists of a SS316 measuring fork mounted on the machine frame and connected to a control cabinet outside of the machine hood.

A pair of protected fibre-optic cables connects the measuring fork to the control cabinet.

Control of the existing guide roll actuator is achieved through a 4-20 mA DC signal developed by the infra-red amplifier in the cabinet.

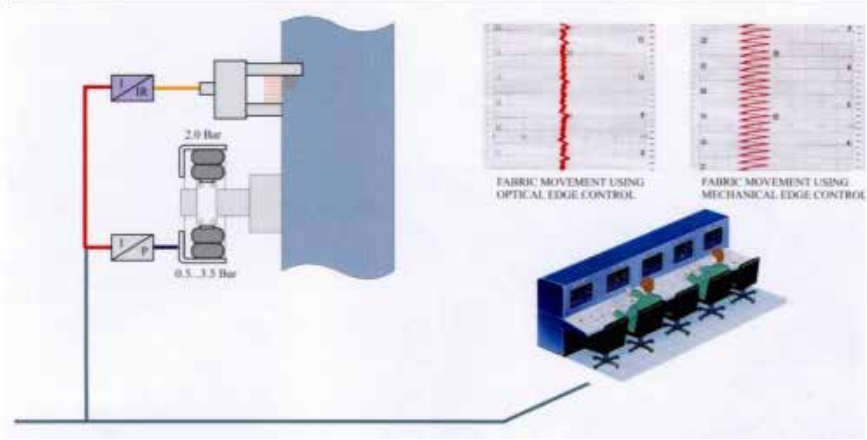
Adapting to a pneumatic, hydraulic or electrical actuator is then made quite simple.



TRENDING

The fabric position may be trended on a DCS or strip chart recorder via an isolated signal.

A standard feature also allows the use of the existing pneumatic guide paddle as a backup unit.



CLEANING

Cleanliness of the fork sensors is maintained by a continuous air purge internally through the fork from the control cabinet.

FIBER OPTIC CABLE

The two fiber-optic cables are protected by a Teflon flex hose encased in a 1" braided stainless steel sheath.