

# esko Es-Trac 2000 Infrared Edge Tracking System

*Designed to improve run-time, product quality and substantially increase fabric life.*



## Applications

Originally, these systems were developed for the pulp and paper, and converting plants. They can also be used on machines for the production of photographic film, kevlar, fibre glass roofing material and any device requiring edge tracking control.

The Es-Trac 2000 edge tracking system is one of the most advanced non-contacting measuring and guiding systems for felts and fabrics. It can be placed into any part of the machine, even where extreme heat and humidity demand special requirements for measurement.

# Double your felt life

## Features

- No moving or wearing parts
- No electrical components in process area
- Simple and easy to install and use
- Non-Contact measurement using pulsed infrared light
- All stainless construction
- The Es-Trac measuring system requires minimal cleaning. The continuous air purge and water spray keep the fiber optic lenses clean for proper operation.

## Benefits

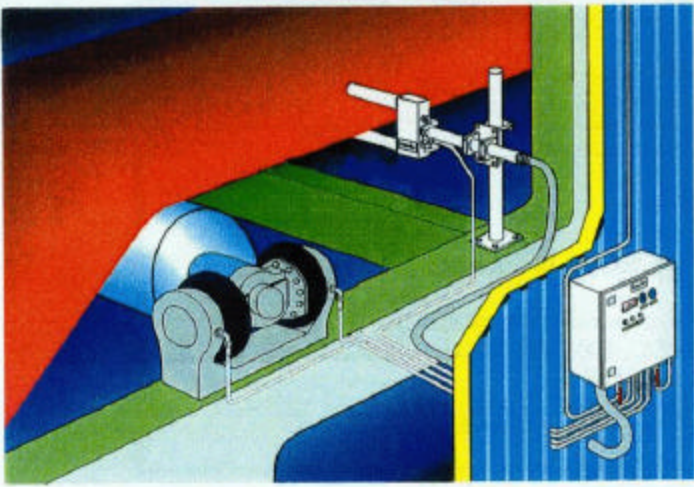
- Improves run time
- Increases lifetime of fabric
- Eliminates wear and tear of edge
- Minimizes cross machine movement of fabric. Through the 4..20 mA output the system can be adapted directly to any roll guiding system as well as to the machine control room to provide continuous information on the fabric's cross machine position.
- The Es-Trac 2000 system is specifically designed for harsh industrial environments. It includes a minimal amount of components. This results in extremely low system maintenance.

## Technical Specifications

<b>Measurement:</b>	Modulated infrared light, frequency 4 kHz
<b>Measuring range:</b>	50mm, 100mm or 150mm
<b>Accuracy:</b>	< 1 mm
<b>Output signal:</b>	4..20 mA, pneumatic signal 8..52 psi
<b>Operating voltage:</b>	24 VDC, 100...240 VAC
<b>Material:</b>	Stainless steel AISI 304
<b>Max. temp.:</b>	Measuring fork 320°F (160°C) Control box 122°F(50°C)

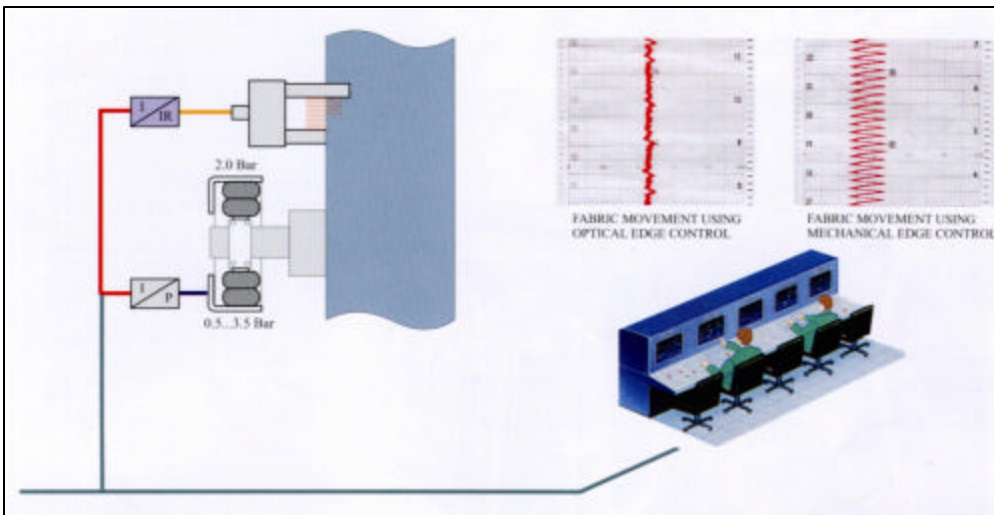
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## Control fabric on both wet end and dryer sections



### Operating Principle

The Es-Trac 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. Through a 4..20 mA DC signal developed by the infra-red amplifier in the cabinet, control of the existing guide roll actuator can be achieved. Adapting to a pneumatic, hydraulic or electrical actuator is then made quite simple.



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 back-up unit.

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

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