

Measurement system for roll slit measurement

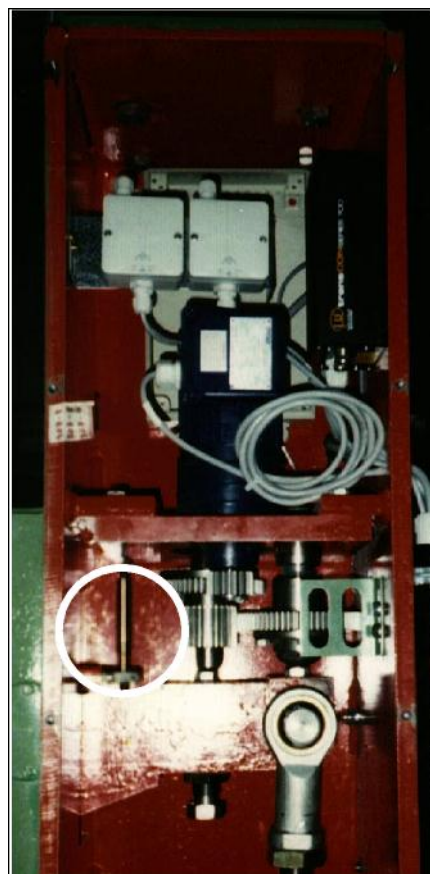
On a coating machine the size of the roll slit is to be displayed digitally as the reference for the weight of the material coating. Accordingly, a sensor is mounted on the roll frame. Its measurement tip contacts a measurement surface which is permanently joined to the mechanical guide for the upper roll. For the acquisition of relatively small displacements in relationship to the large roll idling strokes which are not to be measured, the transSENSOR probes present an ideal solution. Since the height adjustment occurs through separate drives so that the slit size can differ at both ends of the rolls, the display for each end is provided separately.

Measurement system setup transCON Series 700

2 x DTA-1 P-1.5-CA	Inductive precision gauging sensor
2 x BSC751-I-DC17-36 Vdc	Compact measuring amplifier
2 x DD1605-I	Display unit

Technical detail

Measuring range:	2 mm
Accuracy:	3 μ m
Resolution:	1 μ m
Bandwidth:	10 Hz



Application

Ambient conditions

Temperature: 10 - 40 °C

Medium: air

Reasons for the system selection

- Easy fitting and use.
- High accuracy and resolution.
- Rugged sensor system
- Rugged, economical system implementation.
- Easy fitting and use.

Principle

