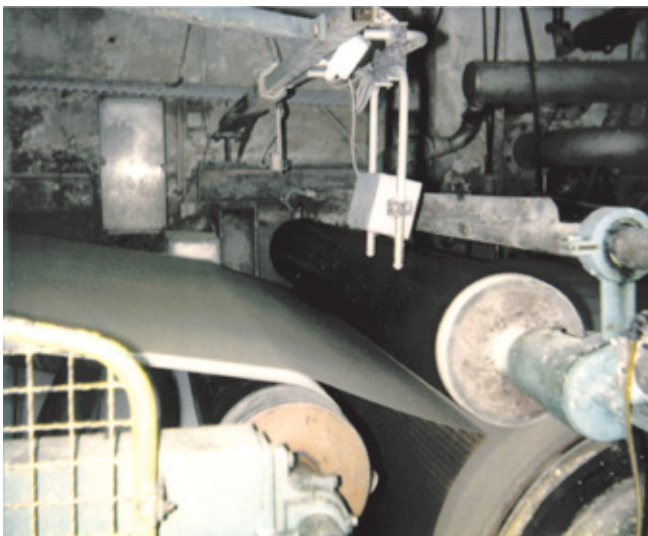


## Automatic paper web control

In paper production the prepared paper pulp flows onto a conveyor belt of fine wire mesh at the so-called "wet end". There most of the water is removed by means of a vacuum. The paper web is generated and is transported to the second station, the wet press rollers, which determine the paper web speed by means of a second drive unit. In order to avoid tears in the paper web a laser position measuring system is used here which measures the position of the paper web between the two stations. The analog output signal of the sensor is fed into a closed-loop control circuit which influences the motor speed at station 1 and thereby ensures that a specified setpoint distance value is maintained.



### Technical details

- Measuring range: 100 mm
- Accuracy:  $\pm 1\%$  FSO
- Resolution:  $\pm 1\%$  FSO
- Band width: 250 Hz(-3db)
- Stand off distance: > 300 mm

### Ambient conditions

- Temperature: 20 - 40 °C
- Medium: air  
high humidity  
aggressive chemicals

### System configuration optoNCDT

OD1605-200 optical displacement sensor

PS1605 power supply

Option:

4 - 20 mA

Relay output

Protection housing

### Reasons for choosing the system

Micro-Epsilon optical displacement sensors measure reliably, non-contact and precisely. The basic distance to the paper path is long

