

# EQUIPMENT FOR TRACTION FORCE MEASUREMENT IN ROLLED BELTS

## GENERAL

The equipment is intended to measure the traction force in rolled belts, in order to prevent the belt breakages during the rolling process.

## STRUCTURE

The measuring yokes with magneto-elastic transducers

- Supply and analogical processing unit
- Optionally: numerical processing unit and digital display

## TECHNICAL CHARACTERISTICS

- Measuring range: 0-8 kN;0-12kN;0-20kN;0-50kN;0-80kN;0-120kN
- Overload capacity 200kN; 240kN; 400kN; 500kN; 800kN; 1000kN
- Accuracy class: 0.5
- Allowable temperature range:  $-10^{\circ}\text{C} \dots + 55^{\circ}\text{C}$
- Supply voltage: 220 V (+10 %, - 15 %)
- Supply frequency: 50 Hz  $\pm 5$  %
- Protection class: I
- Output signals:
  - for indicating instruments (response time=600 ms)
    - sum digital 10 VDC
    - difference signal  $\pm 5$  %
  - for control (response time=4 ms)
    - sum digital 10 VDC
    - difference signal  $\pm 5$  %

## FUNCTIONS

- Traction measurement on the sheet edges
- Display of the difference between the traction on the sheet edge
- Display of the traction sum on the sheet edge
- Generation of a unified signal for the traction control loop