

Measuring system for strip position monitoring in a coating tank

In the electrolytic refinement of thin sheets electrical losses are minimised by a small distance between strip and anode. This requires exact strip guidance.

Before the strip enters the coating tank it is guided and measured between two measuring bars with nine eddy-current sensors each.

Actuators are initiated and change the position of the anodes in accordance with the strip geometry, or initiate a return to the starting position if limit values are exceeded.

Technical details

- Measuring range: 40 mm
- Accuracy: $\pm 0,2$ mm
- Resolution: 0,1 mm
- Band width: 1 kHz
- Version: waterproof

Ambient conditions

- Temperature: ca. 20 °C
- Medium: air/water
- Interference: radio communication

Reasons for choosing the system

- non-contact displacement measuring
- wear free and maintenance-free
- no influence of the measuring results by using in industrial environment with dirt, moisture and dust in the measuring gap

