



You search ... we find together ...
with you new ways to ensure high quality standards



Just right thickness

Everyone knows this - if getting too fat, the pants will not fit anymore. The same applies to modern manufacturing processes. Regardless of whether it concerns rolling, blanking lines, forming lines, etc. - controlling the material thickness or maintaining the specified tolerances has become an unavoidable parameter for ensuring product quality in many areas. ROLAND ELECTRONIC has dedicated to this task and offers a wide range of systems that fulfill this requirement with its "LTM thickness gauging systems".

Modern laser measuring technology

The thickness measurement is non-contacting by means of the state-of-the-art laser technology with laser triangulation sensors. The LTM belt thickness measuring system has been specially developed for high-speed strip material (ferrous and non-ferrous metals) and guarantees a measurement accuracy of up to $\pm 5 \mu\text{m}$, depending on the device version. In traversing operation, the combination of thickness measurement and cross profile measurement (used as a multiple trace measurement) yields extensive quality information about the material quality.



Intuitive operating software

Within the HMI user interface, the user can easily switch between the individual views in order to display the measured values in a large format, as a stylized cross profile or as a trend graph. The target specifications, tolerances and limit values as well as the track widths can be entered directly to the interface. The tolerances of the strip thickness to be measured are stored as default values according to DIN 10051: 2011-02. The complete order data with the parameters can be saved and archived as desired. The order-related measurement data can be saved directly as a CSV file. With standard software, e.g. the spreadsheet software Microsoft Excel or even database systems such as Oracle or MySQL, the CSV files can be further processed.



This could possibly be of interest to you too:



**Weld Seam Detection System
SND40 - for tubes, profiles,
coils and flat materials as well
as for cables and wires.**



**Double Sheet Detection,
Nondestructive Testing,
Thickness Measurement and
more ...**



**3D - Weld Seam Inspection
High- End Laser technology
for tubes, profiles, coils and
flat materials**

ABOUT US

We develop, produce and distribute highly specialized systems for factory automation and quality control since 1965. Our sensor and controllers solve tasks that are not solvable with standard solutions. We provide our customers with the certainty that they can count on our expertise and presence in the future.

TECHNOLOGIES

Our core competencies are: Magnetic Flux, Eddy Current and Induction. With these technologies we build sensors for very special detection tasks. We apply latest laser technology where the advantages of optical technology are required.

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