

EMG SOLID®

Oil layer measurement

Optimise your oiling and forming process!

Two technologies from one source:

- ▶ Infrared spectroscopy
- ▶ Laser-induced fluorescence spectroscopy



EMG SOLID®

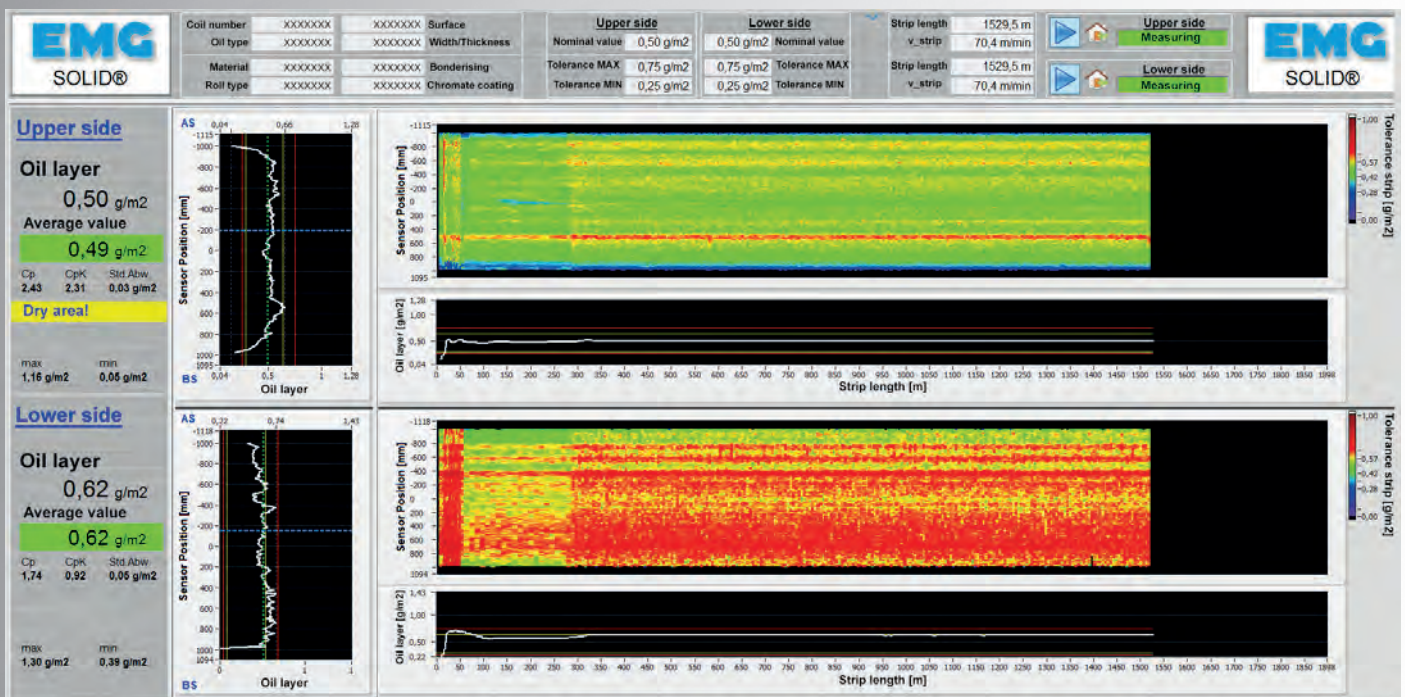
Online oil layer measurement

EMG SOLID® is a system that is used for the online measurement of oil layers on running strip material, metal sheets and plates (**SOLID** = **S**urface **O**il **L**ayer **I**ndex **D**etermination).

The increased demands on new materials and more complex components require a greater process reliability. The oil layer has also become extremely important for the forming process of steel and aluminium sheet products. Ever increasing demands with regard to a uniform and defined lubricant layer are particularly apparent in the automotive industry.

The typical application spectrum of EMG SOLID® ranges from the rolling mill, where the initial application of oil is implemented, to metal processors, for whom sufficient lubrication in the forming process and an oil-free surface before coatings or paintings are applied, are essential.

EMG SOLID® performs an online measurement within the production line to determine the layer over the entire width and length and then visualises it over the entire measured surface.



Screenshot of the visualisation of a double sided measurement at a continuously running strip.

EMG Automation GmbH specialises in the automation of continuous production processes in the metal, paper and plastics industries as well as in the foil and tyre industries. The company established 1946 is a leading provider of electro hydraulic control systems. Furthermore, EMG provides quality assurance systems for the manufacturing industry.

Based on the combination of more than 70 years of experience, the quality of our products and complete

solutions as well as our advisory skills, our customer, by his trust, makes us the market leader.

By working in close cooperation with our customers, research facilities and universities we are continuously searching for innovative solutions to promote our new and enhanced products and therefore to actively shape the market as a leader in innovation.

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Application fields

By using EMG SOLID® you can optimise your pressing and coating processes by assigning the quality features to the corresponding strip sections and/or sheet panels.

Typical fields of application are for example:

- rolling mills
- galvanising and strip processing lines
- slitting and cut-to-length (CTL) lines
- inspection lines
- press lines
- blanking lines
- solar panel mounting lines (surface purity measurement)

Advantages for your processes:

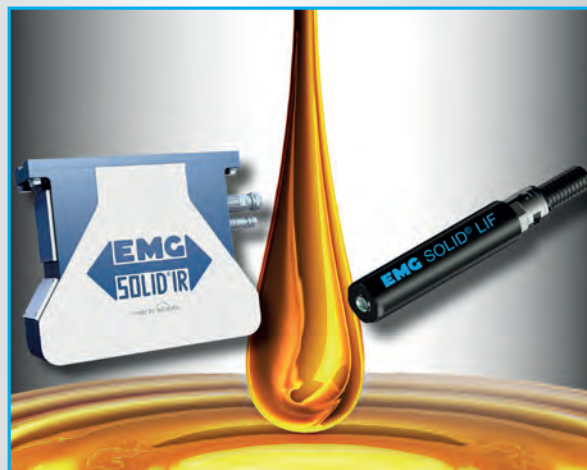
- improved process stability and reliability
- transparency of input quality and targeted control of the forming process
- minimised scrap
- secure production confirmation
- intelligent combination of more quality assurance systems from EMG:
 - IMPOC for online measurement of material characteristics
 - SORM 3plus for online roughness measurement
- additional systems, e.g. thickness measurement / laser marking can be integrated
- transparency of the essential quality features
- delivery and system integration from a single source
- joint database and combined visualisation of the measured values possible



— safe and precise —

Customer's benefits

- Technology selection depending on your individual demands and application requirements:
 - Infrared spectroscopy: EMG SOLID® IR
 - Laser-induced fluorescence spectroscopy: EMG SOLID® LIF
- EMG optimises its existing solutions continuously
- EMG combines advisory skills with long-term service and support
- Only EMG offers such a wide product portfolio including both quality assurance and strip guiding systems



EMG SOLID®:
THE customised solution
for your applications

Technical details



Further technical details can be found in the PDF files in the download box on our website.

Please simply follow the QR code or the following hyperlink:

www.emg-automation.com/en/automation/quality-assurance-systems/emg-solid-oil-layer-measurement/

Contact us!

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