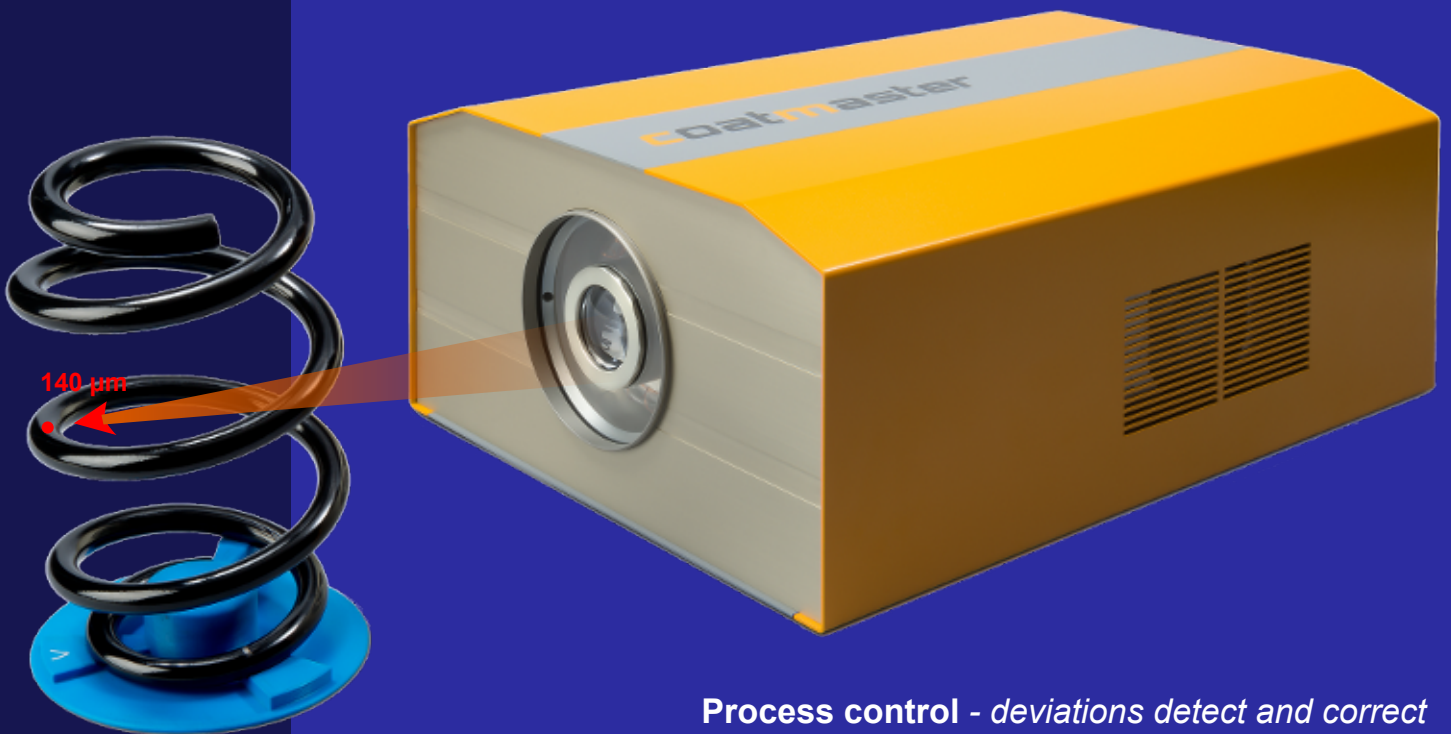


Measure the thickness directly in the coating process

Powder coating - *uncured and cured*

Wet paint - *wet or dry*

Thermal barrier coatings



Process control - *deviations detect and correct immediately*

Quality increase - *false coatings reduce*

Material savings - *material consumption up to 30% reduced*

CoatMaster



The continuous monitoring of coating processes saves the materials and reduces costs significantly. The measuring system of **CoatMaster** provides such control. The device determines non-destructive parameters such as film thickness and thermal properties.

Reliable control of uncured powder coatings

The **CoatMaster** is well-suited for the non-contact and non-destructive coating thickness measurement of uncured powder coatings on sheet steel without calibration. During this measurement procedure the **CoatMaster** first measures a reference coating that serves as comparison for subsequent measurements. Deviations from the reference are displayed in percentages. If the value of reference coating is known, it is also possible to generate absolute values in μm for the coating thickness prediction.

Non-contact and non-destructive measuring of film thickness

Reliable control of wet paint

The **CoatMaster** is well-suited for calibration-free measurement of wet, water-based paint on plastics. During this measurement procedure the **CoatMaster** first measures a reference coating that serves as comparison for subsequent measurements. Deviations from the reference are displayed in percentages, where the 100% value corresponds with the coating thickness of the reference. In addition, the device can also generate absolute coating thickness values in μm .

by means of a comparative measurement. For this purpose, the thickness of the dried reference coating is first determined with a micrograph.

It is possible to measure the coating thickness of wet zincflake base coats and top coats. The displayed value is a prediction for the coating thickness after curing.

For manufacturers of industrial products with wet paint coating the benefits are:

Process control: The coating process is controlled and protolled continuously and objectively.

Process safety: Coating thickness measurements of wet paint enable fast reactions to process deviations. Thus a new coating process can be applied in time.

Reduce coating defects: Possible deviations during the coating process are detected immediately. Thus, corrective action can be taken in time.

Save coating material: Due to continuous process control, the powder coating is applied with the optimal thickness.

Easy application: Measurements on all kinds of substrate geometries and materials can be carried out without recalibration. Objects with curves and edges can also be measured.

Precise and reproducible: The reproducibility of the **CoatMaster** measurement is higher than those of the magnetoinductive measurement and is not impaired by a rough and uneven surface.

Decrease run-in times: Thanks to continuous coating thickness measurement, the coating process for a new production series can be set up in a quick and optimal way.

Specification

Energy: 500J - CoatMaster 500
1000J - CoatMaster 1000
1500J - CoatMaster 1500
2000J - CoatMaster 2000

Detecting point mark: 3 points

Measuring distance: 5cm to 15cm* - CoatMaster 500
5cm to 30cm* - CoatMaster 1000
5cm to 40cm* - CoatMaster 1500
5cm to 50cm* - CoatMaster 2000

Measuring point: Φ 2mm to 20mm*

Measuring range:
Powder coating uncured 1 to 500 μm
Powder coating cured 1 to 1000 μm
Powder coating gelled 1 to 1000 μm
Wet paint 1 to 100 μm

Measuring time: 20ms to 1000ms

Movement of measuring object: 50m/min

Standard deviation: < 5.0%** - CoatMaster 500
< 2.0%** - CoatMaster 1000
< 1.0%** - CoatMaster 1500
< 0.5%** - CoatMaster 2000

Angle tolerance: +/- 60°

Power supply: 230V AC, 50Hz

Power: max. 2000W

Operating temperature: 5°C bis 40°C

Humidity: < 60%

Dimensions: 38 x 51 x 20cm

Weight: 16Kg

Interface: Ethernet, WLAN, Externe Synchronisierung

* depending on the distance / focal length

** depending on the coating and substrate

Technical details subject to change

Certified
ISO EN 9001



Production and distribution
of measuring instruments

D-32107 Bad Salzufflen · Max-Planck-Str. 62
Tel. +49 (0) 5222 959760
Fax. +49 (0) 5222 50499
info@salutron.de · www.salutron.de