

New: OptiSense's DAkkS laboratory-certified reference master

In the age of Industry 4.0, test equipment management and calibration are essential tools for increasing product quality across integrated manufacturing processes and avoiding rejects and reworking. For all users who need a particularly high level of security, accuracy and reliability when it comes to measuring thickness, OptiSense reference masters are the ideal solution, as they are certified by DAkkS, Germany's national accreditation body.



REFERENCE MASTER

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Our reference masters, certified by a DAkkS laboratory, represent the highest level of measurement accuracy and traceability.

Tough specifications for soft coatings

Whether coating complex workpieces, producing large batches or checking each part individually, integrated thickness measuring technology is an essential component of today's industrial production processes. It means that the information gathered during production can be used to monitor and optimise individual steps in the process. But this can only happen if the thickness measuring system delivers precise data and the parts produced meet the required specifications. Parts that are outside these tolerances have to be reworked, increase the rejection rate, and may fail when used in production.

In addition, there are more stringent regulations: In certain cases, a company can only be certified according to an international quality standard if it has implemented a reliable procedure for measurement systems analysis (MSA).

Many names for the same thing

They are sometimes called reference masters, reference standards, limit gauges, measuring or setting masters, and often just zero gauges. In coating technology, they are paint samples with a defined layer of thickness that are put onto a test piece. These are customised products which are given the exact coating that will also be used later in production. The reference master is therefore often produced directly from an original component. Our reference masters, certified by a DAkkS laboratory, represent the highest level of measurement accuracy and traceability.

Precision to the micrometre. Traceable. Quickly ready for mass production.

How is a reference master produced? Correctly assessing all the factors that influence the measurement procedure requires a high level of technical ability in producing the relevant reference master. Since the client knows the production and measurement conditions on site, designing a reference master is always a joint project. OptiSense develops and manufactures the reference master based on either the client's samples or certified reference material.

The result is a workpiece certified by a DAkkS laboratory and a meaningful, traceable test certificate as proof of the measurement quality achieved – for precise device calibration and reliable measurement results, particularly in integrated manufacturing processes (Industry 4.0).

The search for true values

The quality of reference material is extremely important for the accuracy and comparability of analysis results. Defined reference materials are produced by public authorities or internationally recognised institutions and are called "certified reference materials". Manufactured under strictly controlled conditions, these materials comply with all relevant international standards and quality protocols.

Even better service

Choosing the right partner is primarily a question of service and reliability. The accuracy, experience and competence of the provider are vital requirements.

OptiSense offers a wide range of different services related to managing test equipment from factory calibration in its own laboratory to performance assessments, contract measurements, rental systems and reference master production. OptiSense handles every step of measuring processes: beginning with a detailed consultation, our experts in coating thickness measurement manage the entire project to create an individual reference master.

With each reference master, the customer receives the coating thickness measurement according to DIN EN ISO/IEC 17025, an evaluation report and supporting documentation as well as detailed instructions for use. The documents are on a USB stick delivered in a box together with the reference masters so that they can be printed out quickly as required.

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