

FISCHERSCOPE® X-RAY 5000

Tailor-made: Individually adaptable to your application

Does not break a sweat: Sample temperatures up to 250 °C (482 °F) thanks to water cooling

Compact design: Small measuring head with all necessary components

Low wear: No moving parts

Vacuum compatible: Can be mounted on vacuum chambers

DPP+ digital pulse processor: Even faster analysis results and better performance



Solar panel quality control

Inline measurement for utmost precision for thinnest layers

The FISCHERSCOPE® X-RAY 5000 is the perfect for non-destructive analysis and measurement of thin coatings on large-area products and substrates, such as in photovoltaics, fuel cells, on glass panels, films and tapes and very hot surfaces. The instruments of this series form modular units that can be easily integrated into manufacturing production lines. Their rugged design specifically meets the tough demands of industrial environments and for continuous operation.



X-RAY 5000 Scanner



Inline coating thickness measurements on steel bands, e. g. Cu/Fe

Features

- Robust inline instrument for analysis and measurement of thinnest layers and layer systems in the running process with connection to the production control system
- Microfocus tube with tungsten anode; molybdenum anode optional
- Fixed aperture (configurable)
- Fixed filter (configurable)
- Silicon drift detector 50 mm² for highest precision on thin layers as well as Peltier cooling
- DPP+ digital pulse processor for higher count rates and significantly reduced measurement times
- For measurements in vacuum or air
- Available option: Water cooling for sample temperatures up to 250 °C (482 °F)
- Variable mounting position possible
- Various interfaces enable connection to PLC

Designed for automation, the measuring heads can be easily mounted on vacuum chambers via an ISO 250F flange or integrated inline in atmosphere. Calibration is quick and easy during the production process. With large apertures and state-of-the-art detectors, you benefit from excellent repeatability. The measuring heads can be integrated into existing lines or supplied as a complete customized turnkey solution.