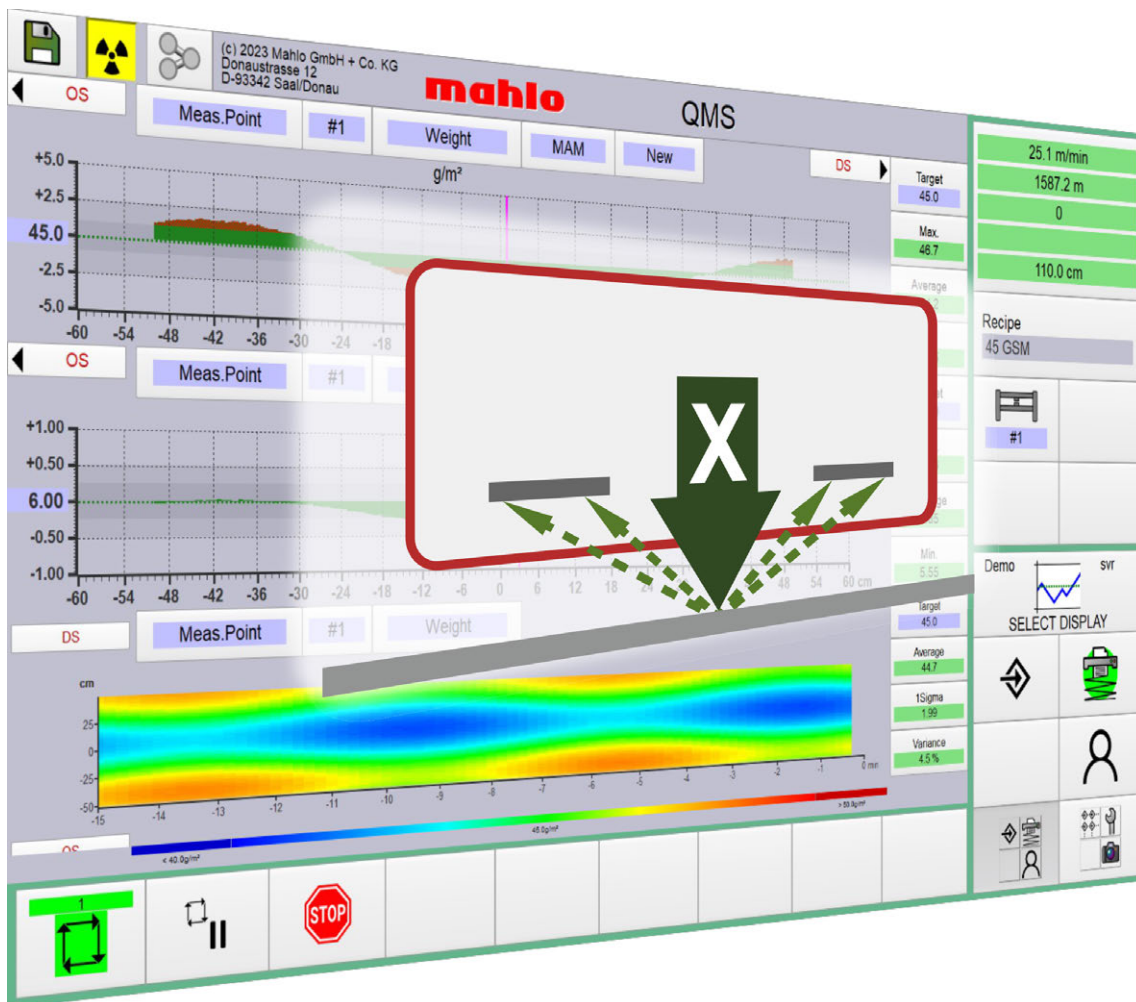


Gravimax MMX-R

X-ray sensor for measuring basis weight & components for Qualiscan QMS



Gravimax MMX-R

GRAVIMAX MMX-R

X-ray Absorption, X-ray Backscatter: Basis weight, Component Measurement



The Gravimax-MMX-R platform features X-ray sensors (absorption and backscatter) for measuring basis weight and heavy component distribution, fully integrated into the Qualiscan QMS quality management system.

Radiometric measurement reimaged

Rising quality standards, more advanced materials, and the need for greater efficiency are raising the bar for basis weight measurement. Traditional systems are increasingly limited by technical, regulatory, or economic constraints.

The modular design of the Gravimax-MMX-R platform delivers a new generation of radiometric measurement technology, suitable across industries - from nonwovens and paper to fiberglass, compounds, building, and insulation materials, covering everything from lightweight goods to extremely heavy basis weights.

This platform merges state-of-the-art X-ray technology with intelligent software, laying the foundation for precise, adaptable, and future-ready process control in industrial production environments



3 reasons to switch to Gravimax MMX-R now

- ✓ **1. Enhanced process reliability - no matter the material.**
The combined absorption and backscatter measurement minimizes material effects and delivers consistent results, even with changing formulas and multilayer designs.
- ✓ **2. Beta-level performance without a radioactive source.**
Achieve results comparable to Kr-85 systems - with less paperwork, fewer regulations, and significantly lower operating costs.
- ✓ **3. Future-ready platform.**
Modular design, advanced semiconductor detectors, and seamless digital integration ensure scalable investments that keep up with tomorrow's demands.

Special Advantages for Nonwovens

- Reliable measurement of loose nonwovens with no interference
- Simultaneous detection of basis weight and binder/filler content
- Perfect for hygiene, technical, and specialty nonwovens



Customer benefits

- ✓ Exceptional measurement accuracy across an extremely wide range of surface weights
- ✓ Lower operating costs and easier integration
- ✓ Consistently high quality and reduced waste

Radiometry - engineered beyond convention



The Gravimax-MMX-R platform features an entirely new system architecture. Semiconductor detectors replace traditional ionization chambers, offering higher resolution without the need for high-voltage components. The optimized 50-kV X-ray tube significantly cuts down on radiation protection requirements.

Paired with intelligent software - including automatic calibration and enhanced profile optimization - the platform delivers reliable measurement data in real-world production environments.

Variants



- **Gravimax MMX-R (Absorption and Backscatter):**
 - Universal solution for a wide range of materials
 - Minimal material dependency
 - Separate measurement of base weight and heavy components
- **Gravimat FMX-R-B (Backscatter)**
 - Optimized for extremely high surface weights (> 15,000 g/m²)
 - Ideal for technical nonwovens, textile building products, and compounds
- **Gravimat FMX-R-A (Absorption):**
 - Designed for measuring total product thickness and composition
 - Delivers exceptional precision for lightweight materials
 - Example: PET nonwovens with accuracy up to < 0.1 g/m²

Further questions?



I'm happy to answer your questions!

Reach out now to get your free, no-obligation quote.

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Monitoring and control systems, automation

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