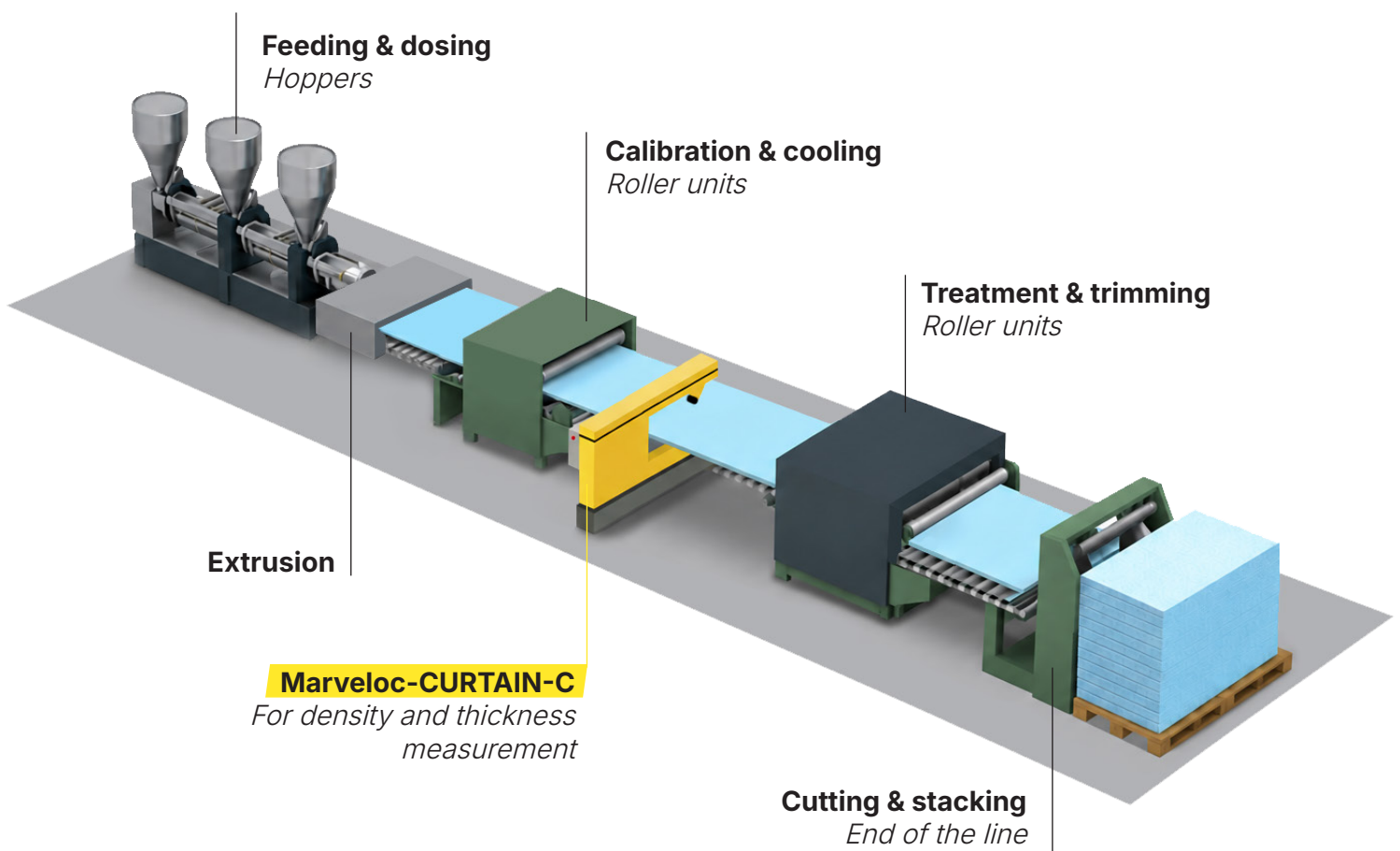




ADVANCED QUALITY CONTROL FOR INSULATION BOARDS



MAXIMIZING EFFICIENCY

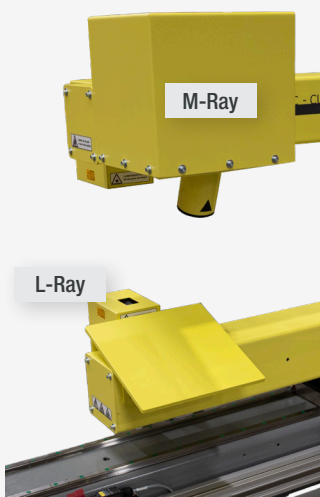
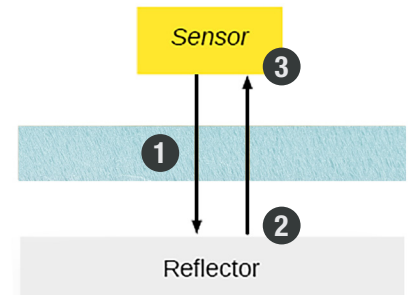
XPS, EPS, and GPS panel Insulation are renowned for their high compressive strength and thermal insulation properties. To guarantee these characteristics, Hammer-IMS offers the innovative Marveloc-CURTAIN system, specifically designed for real-time inspection of insulation foam panels during the production process.

MAXIMIZING EFFICIENCY IN XPS PRODUCTION

The core of our Marveloc technology for density measurements is based on a smart combination of sensors. By combining the **M-Ray sensor** (for basis weight) and the **L-Ray sensor** (for thickness), the **dual-headed system** simultaneously calculates and defines the exact density of your material in real time.

M-Ray: millimeter wave sensor technology

The concept of our M-Ray technology for basis-weight (grammage) measurements is straightforward: a sensor at the top sends out a millimeter wave. This wave goes through the material we want to measure. **1** When it reaches the bottom, it bounces off a reflector **2** and comes back up through the material once again. Finally, it reaches the sensor again, where we can capture it and analyze it. **3**



L-Ray: laser-based sensor technology

Our system delivers both high-precision thickness profiles and accurate density measurements simultaneously.

By utilizing two opposing aligned L-Ray laser sensors, we capture absolute material thickness. This is an important quality metric in its own right. This thickness data then works in perfect synergy with our M-Ray sensor to compute density values.

To ensure reliability, our laser sensors are calibrated using world-class Mitutoyo standards.

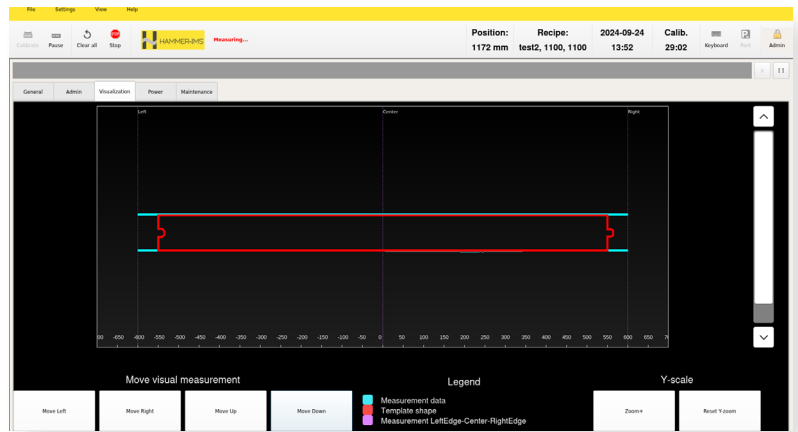
True-view thickness profile

Our system delivers a true physical profile of your material in real-time. With intuitive color-coding that instantly highlights in-range and out-of-range regions, you get immediate visual clarity.



Template-matching

This feature overlays a live cross-section profile (cyan) directly onto a target template (red), enabling operators to visually verify that the extruded material has the required width and thickness. By manually moving the template, users can instantly confirm if enough material is being produced to successfully cut out the final product.



TRUSTED BY INDUSTRY LEADERS: ABRISO-JIFFY



"The Hammer-IMS measuring machine ensures a stable XPS insulation board quality across seasons. The integrated laser for thickness and the radio wave sensor for density stand for a performant payback."

— Maarten Goeminne, Process Engineer at Abriso-Jiffy.

As a market leader with 17 production plants across Europe, Abriso-Jiffy relies on Hammer-IMS technology to uphold its "zero-waste" philosophy. Producing over 200,000 cubic meters of XPS insulation boards annually, real-time monitoring at the source is vital to their operational margin.

The implementation of the Marveloc-CURTAIN-C system has delivered concrete results:

- ✓ **Rapid ROI:** The Hammer-IMS measuring machine paid for itself within the first year and a half.
- ✓ **Material savings:** Early detection of variations prevents production batches from consuming excessive amounts of material.
- ✓ **Smoother transitions:** The system provides a quick view of the slab's flatness profile, making product changeovers significantly faster.
- ✓ **Industry 4.0 ready:** Measurement data is made available via Microsoft SQL and real-time Ethernet to fuel intuitive KPI dashboards.



Scan to watch the testimonial

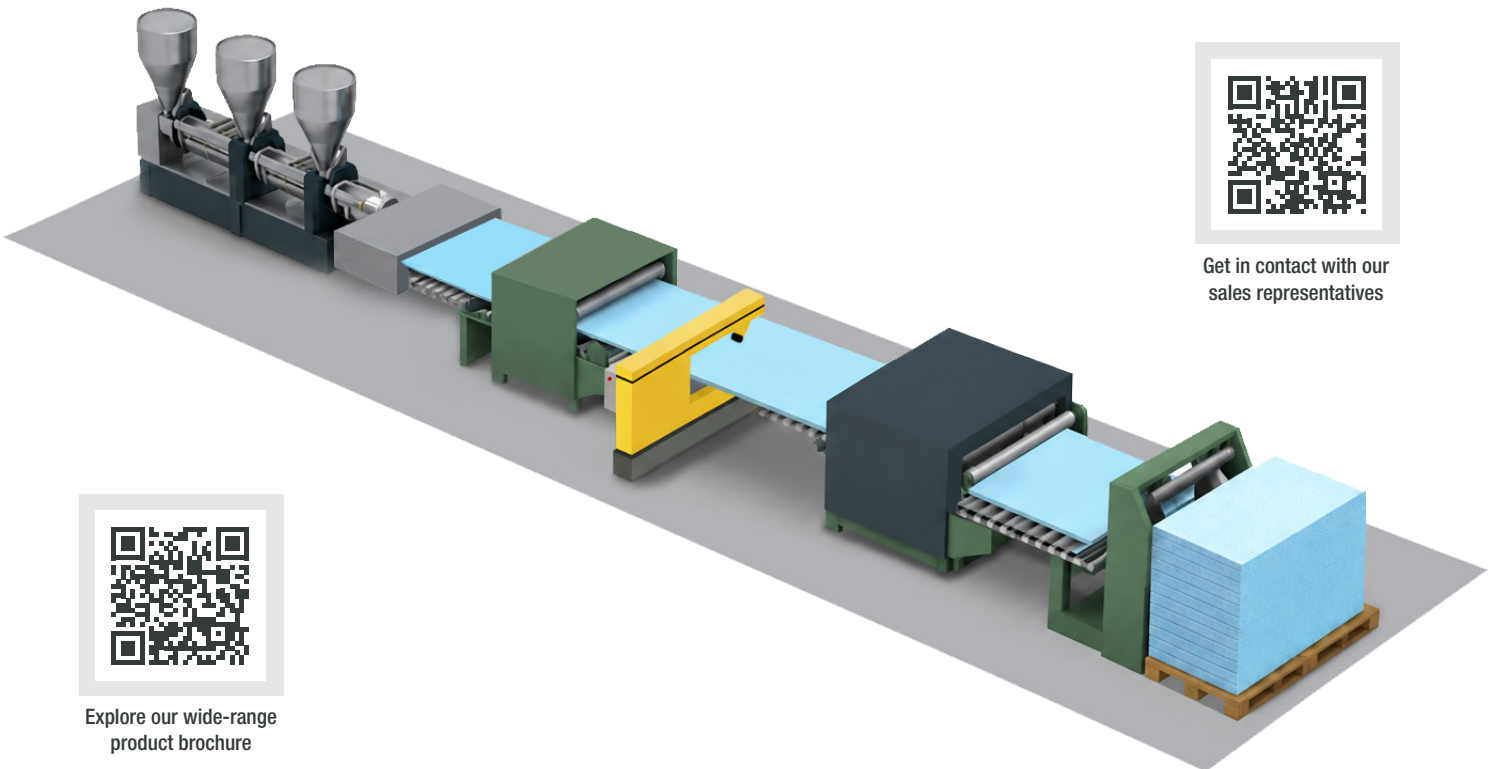
SUSTAINABLE MEASURING SYSTEMS

Unlike traditional radioactive technologies, M-Ray sensors are completely safe for operators and the environment. By eliminating radioactive elements, Hammer-IMS saves you the hassle of expensive licensing, lowering your total cost of ownership.



The radiation-free advantage:

- ✓ **Zero hassle:** No radioactive licenses, specialized safety training, or hidden compliance costs.
- ✓ **No energy waste or cooling needed:** We create no heat or unnecessary energy production, leading to lower energy consumption and zero maintenance overhead from extra cooling systems.
- ✓ **No X-ray tube, bulb or sensor replacements:** Say goodbye to frequent component swaps. Because there is no X-ray tube or bulb to wear out, and our sensors don't degrade over time.
- ✓ **Low maintenance:** Built for longevity to minimize downtime and maximize your productivity.



Get in contact with our sales representatives



Explore our wide-range product brochure



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