MOLD LEVEL MEASUREMENT

Reliable Mold Level Measurement. Even in the Toughest Process Conditions.

THE MEASUREMENT SOLUTION

Ronan's non-contact radiometric systems provide fast, precise molten-metal level measurement for continuous casting—even in extreme heat, vibration and confined spaces where conventional technologies struggle to deliver reliable control feedback.

HOW IT WORKS

Ronan's mold level system uses three coordinated components to continuously monitor molten-metal levels without contacting the melt.

1. Source Holder
Directs a controlled beam of gamma energy across the mold at the required measurement location.

2. Detector
Senses changes in radiation intensity as molten metal rises or falls within the mold.

3. Microprocessor / Transmitter
Processes the detector signal and delivers fast, continuous level feedback to the casting control system.

Mold Level Measurement



KEY BENEFITS

Fast, Precise Response
High-speed measurement with a 10ms update time helps maintain stable mold levels.

Reliable in Extreme Conditions
External components avoid direct contact with molten metal, heat and harsh casting conditions.

Improved Casting Control
Stable level feedback supports consistent casting, improved quality and throughput.

Cost-Effective System Upgrades
Retrofit options may retain compatible existing sources or detectors, reducing replacement costs.

RONAN ENGINEERING COMPANY

MEASUREMENT SYSTEMS

MOLD LEVEL MEASUREMENT

BUILT AROUND YOUR PROCESS

Configured around mold geometry, casting conditions, measurement location, response requirements and control-system integration.

ELECTRONICS FEATURES & CAPABILITIES

- Faster control response with the X96ML's 10 ms update time
- Stable level feedback through high-speed detector signal processing
- Faster cast starts with dedicated cast-start measurement capability
- Easy integration with casting control systems
- Cost-effective upgrades through compatibility with selected existing equipment

INDUSTRIES & APPLICATIONS

INDUSTRIES

- Steel Production
- Nonferrous Metal Processing

APPLICATIONS

- Continuous-casting molds
- Steel slab casting
- Bloom and billet casting
- Nonferrous metal casting
- New casting installations
- Existing mold-level system upgrades

ENGINEERED FOR YOUR PROCESS

Every casting operation presents unique challenges. Ronan engineers evaluate mold design, mounting requirements, cooling, control-system interfaces and casting conditions to configure a system for your specific needs.

From initial application review through commissioning, startup and ongoing support, Ronan works with mills and OEMs to deliver dependable mold-level measurement.

EXPLORE THE COMPLETE SOLUTION

◄ Scan for applications, technical resources and to contact a Ronan engineer.

ronan.com/measurement-systems/mold-level-measurement/