

LiMCA III

Mobile liquid aluminium cleanliness analyser

The LiMCA III is a versatile aluminium quality analyzer that can be used to sample at multiple locations along the casting lines of most casthouses.

Measurement made easy

The LiMCA III uses the proven LiMCA measurement principle that is the industry benchmark for measuring non-metallic solid inclusions in molten aluminium.

It can be used under harsh industrial production conditions to provide an accurate indicator for the metal cleanliness of aluminium alloys.

The LiMCA III has a lighter measuring head with more versatile and flexible positioning in molten metal than previous LiMCA analyzers.

Its lower center of gravity makes it more stable and easy to maneuver.



Furthermore, the LiMCA III has a laser level sensor that enables automatic raising and lowering of the measurement head to follow the level of the molten metal during a cast

Features:

- On-line real time inclusion measurement
- Number and size of inclusions
- Measurement at any point along the process
- AC modulation eliminates use of batteries
- Readings not affected by electromagnetic noise of casting environment
- Standard web based HMI will run on most computers and tablets
- Self-contained analyzer; dedicated server not required

On-line real-time inclusion measurement



Fig. 1: LiMCA III analyzer



Fig. 2: LiMCA III web based HMI

The advent of the LiMCA III provides the same unique in-line and real time readings as previous LiMCA analyzers in a more reliable and user friendly manner.

It is the industry standard tool to ensure tight control over inclusion sizes and quantities required for the development and production of consistent high yield specialty materials.

ABB's LiMCA III brings liquid aluminium process monitoring one step further towards simplicity and efficiency.

The LiMCA III compact lightweight mobile design allows it to be placed on the casting line walkways of most aluminium plants.

Versatile and flexible positioning of measuring head



Fig. 3: Forward/aft manual positioning

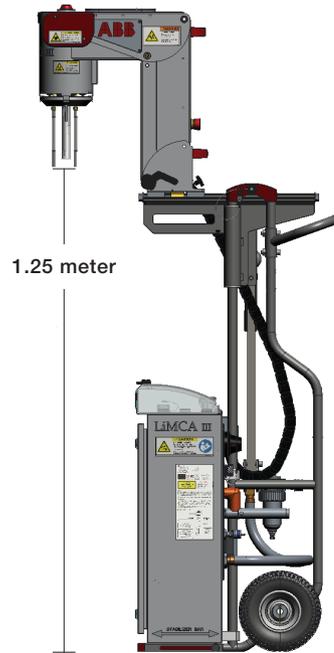


Fig. 4: Upward/downward positioning

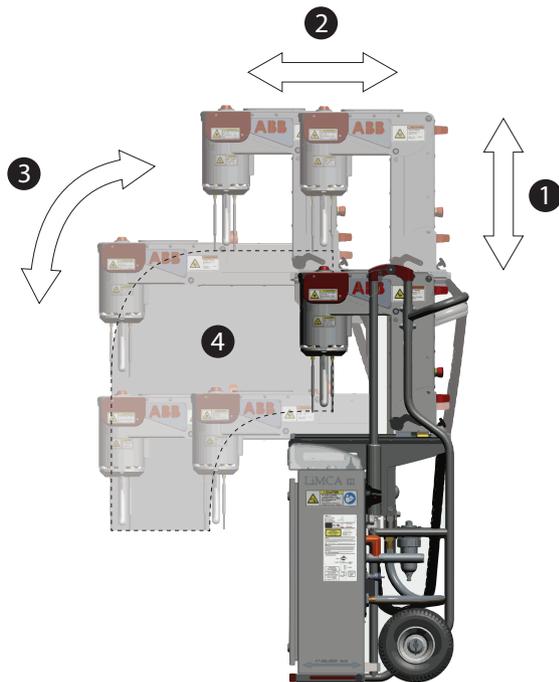


Fig. 5: Multiple positioning options

1. Upward/downward mechanical actuator positioning system
2. Forward/aft manual positioning rail system
3. Automated/manual electrical actuator with tracking system
4. Three positioning systems combined to offer a wide range of motion

To maintain their edge, world-class aluminium plants must be able to precisely monitor the quality of their aluminium production in real time.

They need to find crucial information at a glance and easily access their process data and the LIMCA III can meet these challenges

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