

# Berthold continues as the most comprehensive and leading global provider for mould level measurement solutions

*Berthold Technologies provides specialized mould level solutions that suit the demanding requirements of the continuous casting process – either with radiometric or with electromagnetic technology.*

**Author:** Albert Roedfalk  
Berthold Technologies GmbH & Co. KG



Fig 1 castXpert LB452

For more than 60 years Berthold Technologies has provided mould level measurement systems to all major steel producers. With now more than thousands of strands relying on Berthold systems, Berthold is recognized as the global leading supplier of radiometric systems for mould level measurements.

All measuring components are perfectly harmonized to enable highest accuracy and reliability for optimum casting automation: First-class radiometric detectors provide shortest response time of 5ms and high sensing efficiency in a compact design; the unique Co-60 rod source technology leads to perfectly linear measurement results; the castXpert LB 452 control unit provides an easy-to-use, modern user interface.

Lately Berthold has implemented the new silicon photomultiplier (SiPM) technology in its radiometric sensors for mould level measurement. The new technology provides several interesting benefits like full immunity against electromagnetic influences for e.g. electromagnetic brakes or stirrers, and also significantly increases sensor robustness. For the end user the new SiPM-technology means increased product life-span, decreased

life cycle cost as well as improved product performance.

Since some years now, electromagnetic based mould level systems called "ECcast" completes the product offering from Berthold. The ECcast product line is mainly designed for the larger mould formats such as slabs, thin slabs, and blooms. ECcast provides the real steel level, without any influence from mould powder, with short response times and very high precision. Different sensor options, suspended and edge mounted, are available to cope with different application conditions. Nonetheless all connect to the well-known castXpert LB 452 control unit and utilize the familiar user interface.

Besides the instrumentation itself, Berthold also provides mounting and calibration equipment required to operate the measurement.

The investment in development and the new product additions underline Berthold's true commitment to continue as the most comprehensive and leading global provider for mould level measurement solutions. Berthold is the ideal longtime partner for each continuous casting plant that considers modernization or improvement of their mould level measurement technology. **MS**



Ⓒ Fig 2 ECcast manipulator



Ⓒ Fig 3 ECcast sensor in use