A NEW SOLUTION FOR
MOULD LEVEL CONTROL
IN CONTINUOUS CASTING PROCESS
WITHOUT RADIOMETRIC SYSTEM:

UT-LEVEL powered by ULD
### TECHNICAL DATA

**TECHNOLOGY:** ultrasound

**PRECISION:** +/- 2mm with 50ms response rate

**MEASUREMENT RANGE:** up to 210 mm according to the installation

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<td><strong>01</strong></td>
<td>ULD sensor</td>
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<td><strong>02</strong></td>
<td>Copper tube</td>
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<td><strong>03</strong></td>
<td>Scintillator for radioactive source and radioactive source: <strong>ELIMINATED</strong></td>
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<td><strong>04</strong></td>
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UT-LEVEL is an innovative system applicable to billets, blooms and beam-blanks CCMs for measuring and controlling the steel level in the mould. The system is based on ULD, ultrasound sensor patented by ergolines.

UT-LEVEL is applicable to open stream casting oil lubricated. It can be installed in casters equipped with Electromagnetic Stirrers since this system is not affected by the EMS electromagnetic field.

UT-LEVEL enables significant cost savings and fast return on investment as the costs of replacement and disposal of radioactive sources are eliminated and maintenance operations are simplified and without risks for operators.

The ULD Standard measurement range is up to 210 mm and it can perform the automatic start of casting (range can be customized). The system can be supplied for steel level measurement only or with the automation to perform steel level control.

**KEY ADVANTAGES**

› No need to use a radioactive source:
  - no need to manage radioactive sources, with complex handling and disposal procedures.

› Long measuring range and fast response time:
  - smooth auto start function.

› Easy to install, contactless measurement:
  - minimal mould machining;
  - no need to embed probes into the copper tube, easy substitution;
  - minimal maintenance.

› Easy to use for operators, no calibration required

› No influence of Electro-Magnetic Stirrers

› Real-time copper thermal profile can be provided on request:
  - enables copper thermal profile data-logging and historic data analysis;
  - key information is provided to Quality and Production specialists, enabling quality improvement and process optimization.