**WireScan** is a 3D scanning tool perfectly customized for gate slot and stoplog measurements. It helps assess gate safety by quickly providing geometric diagnostic data.

**Take the best decisions to make the right repairs (only defective components) at the right time.**

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### Precision measurements of vertical surfaces

- Underwater
- In the dry
- Patented system with laser scanner and reference plumb lines for precise measurements regardless of height
- Robust, compact unit suited to on-site surveys
- Quick to deploy

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### Avoid installing cofferdams and halting generation

<table>
<thead>
<tr>
<th>WireScan characteristics</th>
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<tbody>
<tr>
<td>Ideal for:</td>
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<tr>
<td>- Stoplogs (rails)</td>
</tr>
<tr>
<td>- Water intakes (embedded parts)</td>
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<td>- Draft tubes (embedded parts)</td>
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<th>3D reconstruction with laser measurements:</th>
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<tbody>
<tr>
<td>- Underwater or in the dry</td>
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<tr>
<td>- Deployed in about 2 hours (3 operators)</td>
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<tr>
<td>- Gate opening inspected in 1 to 2 days</td>
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<tr>
<td>- Automatic charts</td>
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<tr>
<td>- Georeferenced data</td>
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<tr>
<td>- Precision of $\pm 1\text{mm}$</td>
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<tr>
<td>- Gate openings up to 30 m deep</td>
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</tbody>
</table>

Results available on site for immediate checking of measurements

Compact, hand-transportable unit suited to cramped locations

Deployable beneath a raised gate

Safe surveys not requiring divers
About 20% of dam failures are due to malfunctioning spillways. ¹

**Measure gate slots:**
- When motor current is abnormally high during a hoisting test, or
- When seal leakage arises

*WireScan provides the measurements crucial for assessing gate safety:*
- Slot deformation
- Reduced play (potential jamming)
- Roller marks
- Loss of steel due to corrosion

**Saving costs**

- Make a minor repair rather than complete refurbishment.

*Monitoring behavior:*
- Supports condition-based maintenance for long-term operability of facilities.
- Avoids premature wear of mechanical and electrical components.

*Draft design for refurbishment:*
- Investments are prioritized based on degradation.
- Major investments may be deferred (e.g., replacing slots).
- Uncertainty is reduced for project cost control (contract amendments and work to be redone).

*WireScan: An essential tool for ensuring proper gate operation!*

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