

LaCam® Technology – Measurement Strategy through Immersion

In refractory maintenance, precision starts with the right measurement strategy.

By **immersing** the laser scanner directly into the vessel, FERROTRON's LaCam® achieves maximum measurement accuracy across 100% of the vessel surface. Unlike conventional non-immersive laser scanners for which slag zones are often partially hidden by slag, direct immersion ensures **full visibility and reliable data**.

LaCam® lasers use immersion to measure slag zones at a near-perpendicular laser angle to the refractory surface. This optimal geometry, combined with high-resolution scanning, enables:

- Detection of indentations and holes in the slag zone
- Reliable identification of cracks and gaps
- Consistent measurement quality in **hot** vessels

Together with **sophisticated algorithms**, immersion-based scanning allows us to detect, classify, and **analyze failure mechanisms**. By supporting advanced diagnostics and **data-driven maintenance strategies**, immersion lays the foundation for next-generation refractory intelligence.

#Steelmaking #Digitalization #IndustrialAI #LaCam #MINTEQ

