

ZoloSCAN for EAFs



Real-Time Intelligence. Proven Results.

Unlock Higher Yields and Lower Costs in EAF Operations.

Modern Electric Arc Furnace (EAF) operations face mounting pressures: volatile scrap quality, rising energy costs, and the need for precise endpoint control.

ZoloSCAN transforms these challenges into opportunities with real-time, laser-based off-gas analysis—giving you the insight to optimize combustion, reduce waste, and safeguard your furnace.

Why ZoloSCAN?



ADVANCED FURNACE CONTROL

ZoloSCAN provides continuous, in-situ measurements of O₂, CO, CO₂, H₂O, and temperature—giving your team the ability to monitor and act instantly. It outpaces traditional extractive systems that lag by 20 seconds or more.



FROM REACTIVE TO PROACTIVE

Unlike extractive off-gas systems that require complex infrastructure and ongoing upkeep, ZoloSCAN's in-situ design dramatically reduces maintenance time and cost. The system is easy to install with fewer mechanical interfaces, saving both capex and downtime.



DETECT WATER LEAKS EARLY

With direct, in-situ laser measurements of water vapor, ZoloSCAN enables identifications of leaks as they start—not after damage occurs. Set custom alarms to trigger immediate safety actions.

LEARN MORE

SCAN THE QR CODE TO WATCH OUR EAF VIDEO ON ZOLO'S YOUTUBE CHANNEL.



Operational Benefits at a Glance

Carbon Management

Hit target chemistry faster and with less alloy consumption.

Slag Foaming Optimization

Retain heat and reduce refractory wear.

Energy Efficiency

Minimize off-gas loss and lower kWh per ton.

Water Leak Detection

Identify dangerous water presence early.

Reduced Power-On Time

Shorten tap-to-tap cycles with dynamic control.

Automation Ready

Seamlessly integrates with optimization and control models.

Proven in Harsh Environments

Designed for 24/7 operation in steel plants.

Built on Proven Science

ZoloSCAN leverages Tunable Diode Laser Absorption Spectroscopy (TDLAS)—a technique that uses multiple lasers tuned to specific wavelengths for accurate gas composition measurement.

Already installed in EAFs, BOFs, and Reheat Furnaces worldwide.

Get More Than a System— Get a Partner

From installation to commissioning and remote support, the Zolo team is with you every step of the way. Our proven approach delivers measurable ROI—helping you operate safer, cleaner, and more efficiently.

Ready to See ZoloSCAN in Action?

Let's talk. Discover how ZoloSCAN can unlock a new level of performance in your melt shop.

USE THE QR CODE TO READ OUR CASE STUDY ONLINE AND LEARN MORE ABOUT ZOLOSCAN.



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GET IN TOUCH

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CERTIFIED QUALITY



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