

ZoloSCAN for BOFs



Precision at the Endpoint. Performance Across the Board.

Command the Blow. Drive the Results.

In Basic Oxygen Furnace (BOF) operations, success is measured in seconds. The oxygen blow is where the quality, yield, and cost of each heat are decided.

Traditional tools leave operators guessing—ZoloSCAN delivers real-time clarity.

With laser-based off-gas analysis every 2–3 seconds, ZoloSCAN empowers you to stop the blow with unmatched precision.

Why ZoloSCAN is a Game-Changer



REAL-TIME DATA, REAL IMPACT

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.



LOWER MAINTENANCE, EASIER INSTALLATION

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.



SMARTER ENDPOINT DETECTION

By improving carbon endpoint prediction even slightly (e.g., 10%), ZoloSCAN can save over \$1M annually. Fewer reblows. Fewer underblows. Tighter specs. Better steel.



BUILT FOR BOF DEMANDS

With auto-aligning optics, robust construction, and >99% uptime, ZoloSCAN thrives in the harshest steelmaking environments—right next to the converter.

Key Benefits

Rapid Decision-Making

See the endpoint in real time, act without delay.

Predictive Performance

Improve endpoint prediction models with direct data integration.

Lower Costs

Minimize alloy use, reduce reblows, and optimize reagent consumption.

Improved Steel Quality

Achieve tighter tolerances and fewer deviations.

Minimal Maintenance

Auto-calibrates, auto-aligns, and built to run 24/7—without extractive system upkeep.

Simplified Installation

Reduced infrastructure requirements and faster commissioning.

Longer Asset Life

Support lance and converter lining longevity while reducing dependency on consumable bath sensors.

Environmental Awareness

Manage emissions more precisely with accurate CO, CO₂, and O₂ feedback.

Not Just a Tool —A Strategic Platform

ZoloSCAN is more than a sensor. It's a platform that integrates with your control systems and endpoint models to transform each blow into a controlled, data-driven process.

With Zolo, you lead with clarity, control, and confidence.

Proven Laser-Based Technology

ZoloSCAN uses Tunable Diode Laser Absorption Spectroscopy (TDLAS), a technique already deployed in EAFs, reheat furnaces, and industrial boilers worldwide. It delivers trusted performance even in extreme conditions.

Let's Redefine What Your BOF Can Do

See how ZoloSCAN can revolutionize your endpoint control, minimize variability, and drive performance in every heat.

The future of BOF precision starts now.

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



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CERTIFIED QUALITY



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