

ZoloSCAN2 for Reheat Furnaces



Automate Combustion. Cut Fuel.

Automate and Unlock Major Fuel Savings

Fuel costs are the largest variable in reheat furnace operations—and ZoloSCAN2 is engineered to reduce them.

By delivering direct, in-furnace measurements of key combustion gases (O_2 , CO , H_2O) in real time,

ZoloSCAN2 enables automated control that consistently saves \$500,000 to \$1.5 million per year in fuel expenses.

At the same time, this enhanced control lays the groundwork for secondary benefits, including reduced scale formation and improved yield—especially as new process models are developed and deployed. ZoloSCAN2 ensures that your furnace operates at peak efficiency, every shift.

What Sets ZoloSCAN2 Apart?



UNMATCHED REAL-TIME INSIGHT

ZoloSCAN2 continuously monitors O_2 , CO , H_2O , and temperature throughout the furnace using laser path averaging. With updates every few seconds, it delivers actionable, zone-specific feedback to maintain tight control over air-fuel ratios and combustion quality.



DYNAMIC ZONE CONTROL

Up to 24 independent laser paths from a single system allow precision tuning across discrete furnace zones—minimizing fuel waste, excess air, and temperature variance.



SEAMLESS AUTOMATION

Integrates directly with Level 1 systems for stoichiometry control, alarm management, and zone-by-zone adjustments. Automated responses to load changes or combustion deviations reduce operator workload and improve safety.

LEARN MORE

PLEASE SCAN THE QR CODE TO WATCH ZOLOSCAN2 REHEAT VIDEO ON ZOLO'S YOUTUBE CHANNEL.



Key Benefits

Fuel Efficiency

Achieve up to 6% fuel savings and fast ROI—often in under 5 months.

Yield Improvement

Uniform heating means fewer rejects and reduced scale formation.

Emissions Control

Proactively manage NO_x, CO, and CO₂ with optimized combustion.

High-Quality Output

Maintain optimal temperature profiles for each product type.

Built for Steel Environments

Engineered for 24/7 performance under harsh industrial conditions.

Safety and Reliability

Early detection of high CO or water leaks, with alarm capabilities.

Trusted Science, Proven Worldwide

ZoloSCAN2 uses Tunable Diode Laser Absorption Spectroscopy (TDLAS), a field-proven method in steel, coal, and petrochemical industries. Multiple lasers tuned to unique gas absorption wavelengths deliver reliable, maintenance-friendly performance in extreme furnace environments.

Get More Than a Sensor—Get a System That Works for You

With a global track record and full support from installation to remote monitoring, **ZoloSCAN2** isn't just a product—it's your combustion control partner.

From day one, we're with you to boost productivity, safety, and profitability.

Start Smarter Combustion Today

Join leading steelmakers who are redefining furnace operations with **ZoloSCAN2**.

Contact us now to schedule a demo and see how advanced combustion control can change everything.

USE THE QR CODE TO READ OUR CASE STUDY ONLINE AND LEARN MORE ABOUT ZOLOSCAN2.



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CERTIFIED QUALITY



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