



ZoloSCAN

Steel Reheat Combustion Monitoring

ZoloSCAN is the first laser-based combustion diagnostic system for the steel industry to simultaneously measure temperature, O₂, CO and H₂O in real-time. ZoloSCAN's unique Laser Path Averaging measures exact conditions throughout the furnace which enables accurate zone-by-zone ratio control tuning.

Laser-Based Diagnostics And Control

You can use ZoloSCAN as a diagnostics tool and integral process control device. Its process measurements can be integrated into a Level 1 System for stoichiometry control, safety alarms and temperature control for all heating zones equipped with a laser path. In reheat furnaces worldwide, ZoloSCAN has delivered fuel savings as high as to 6% and payback periods of less than 5 months.

Benefits

- + Fuel Savings
 - Optimize fuel/air ratios using O₂ control
 - Minimize excess air
 - Minimize unburned fuel leaving the furnace
 - Uniform temperature profiles in discrete zones
- + Increased Productivity
- + Improved Product Quality
 - Optimize scale formation
 - Operate at optimal process temperature
- + Lower Emissions
 - Reduced NO_x, CO and CO₂
- + Safety
 - Alarms for high CO and water leaks
 - Identify defective controllers and actuators



ZoloSCAN SensAlign heads mounted on the side of the furnace wall (below). The heads automatically realign as necessary to ensure optimum power transmission.

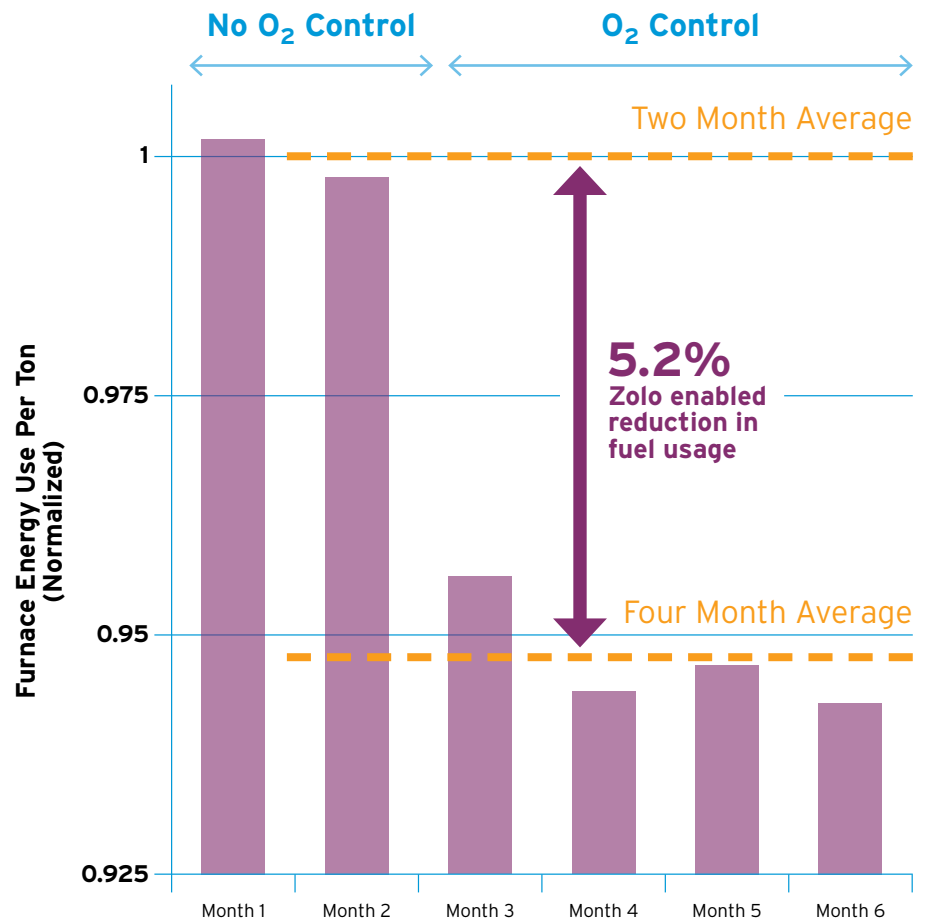


Proven Technology

ZoloSCAN utilizes a proven technique known as Tunable Diode Laser Absorption Spectroscopy (TDLAS). Zolo's TDLAS uses multiple lasers—each tuned to the unique absorption wavelength for a specific constituent. ZoloSCAN is designed for ultra-harsh combustion environments such as steel plants. In addition, it has been successfully installed on numerous petrochemical applications and over 50 coal-fired boilers around the world. Reliable, robust and low maintenance, ZoloSCAN is built for 24/7 operation in a steel reheat furnace.

Proven Value

ZoloSCAN offers fuel savings, yield improvement and surface quality improvements by improving combustion controls, zone by zone. The Zolo team provides support all along the way, including installation, commissioning and startup services. We can even remotely monitor the system as long as you require.



Find out what
ZoloSCAN
can do for you.

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