

Did you know that 70% of human decision-making is based on sight?

Ripik Al: Redefining Steel Industry via Vision Al





Redefining the Metrics of Intelligence



Intelligent insights for Optimal process control



Visual aided postmortem analytics for Deeper understanding of process



Real time alert for Reducing time to act



24*7 Visual anomaly detection for Catching more deviations

Our clients in steel





















Raw Material Monitoring



Real time Granulometry:

Detects oversized coal and coke particles, identifies screen damage, and optimizes particle size for better energy efficiency and sinter permeability.



Foreign Particle Detection:

Real-time foreign particle detection & bunkerlevel monitoring for Early detection of any possibility of Belt & Chute Damage.



Moisture Detection in Raw Material:

IR cameras and AI enable real-time moisture monitoring in coal, coke, sinter, and other materials, triggering automated alerts when limits are exceeded.



Volumetric Analysis:

Optical and LIDAR technology provide precise volumetric measurement of materials, with real-time alerts for low volumes or irregularities.



Blast Furnace Monitoring



Burden Mix Optimizer and Data Warehouse:

Provides the optimal burden mix (sinter, pellet, ore, fluxes) based on input chemistry and costs, with a data warehouse identifying the best operating parameters.



RCA module for etaCO:

Real-time root cause analysis and corrective recommendations for drops in etaCO help maintain high levels and reduce coke consumption in the furnace.



Hot Metal Silicon Prediction:

Al-ML predicts hot metal silicon for upcoming casts based on raw materials and process parameters, recommending PCI/RAFT adjustments to stabilize silicon levels.



Tuyere Monitoring:

Real-time monitoring of the tuyere and raceway detects abnormalities, enabling early identification of issues like tuyere sticking, lance off-centering, and lance choking.



Ladle infrared Thermography & level Monitoring:

Real-time Infrared thermography and ladle level monitoring prevent refractory wear, reducing equipment damage, production loss, and safety risks.

Equipment Monitoring



Sinter Belt Monitoring:

Real-time sinter belt monitoring detects burner issues and hotspots, optimizing permeability and stabilizing gas flow for improved efficiency.



Ladle Monitoring:

Real-time ladle monitoring ensures proper hooking, preventing slippage and enhancing safety and efficiency by reducing disruptions.



Ladle Refractory Monitoring:

IR cameras monitor ladle refractory for real-time hotspot detection, enabling quick operator response and analysis of stored images.



Conveyor Belt Monitoring:

Immediate detection of cracks, tears, edge damage, belt swaying, and other damages, allowing for prompt maintenance and repair.

Safety and SOP



PPE Monitoring



Digital Geofencing



SOP compliance

Get in touch today!



India

601, 6th Floor, World Trade Tower, C-1, Sector-16, Noida-201301

9 +91-8101600600



USA

1390, Market street, Suite 200, San Francisco, CA, 94102 • +1 (209) 245-8540



Europe

Strawinskylaan 3051, Atrium Building 4th Floor, Amsterdam, 1077 ZX +49 911 4947 0749





Scan this QR code and get started!