



# PIKE Automation Pvt. Ltd.

A photograph of a modern, multi-story office building with a glass facade. The building is reflected in the glass panels. The sky is clear and blue. The building has a prominent white concrete structure on top.

## Company Profile

PIKE Automation is a leading provider of advanced automation solutions, specializing in Level 2 consultancy and engineering services tailored for the industrial sector. With a strong focus on the steel, chemical, engineering, and energy industries, we design, develop, and implement cutting-edge systems that enhance efficiency, productivity, and safety. Our expertise in automation and engineering enables us to deliver customized solutions that meet the unique needs of our clients, driving innovation and excellence in their operations. At PIKE Automation, we are dedicated to transforming industrial processes and achieving superior performance for our partners.

# About Our Company

## A Brief Story About The Company

At PIKE Automation, our foundation is built on a team of exceptional specialists with over 20 years of extensive industry experience. We pride ourselves on our individualized approach to meeting our customers' unique needs and requirements. Leveraging the latest technologies, we offer a wide range of standard solutions designed to enhance efficiency and performance. Our primary focus is on fostering long-term partnerships with our clients, ensuring they maximize the benefits of our innovative solutions. At PIKE Automation, we are dedicated to delivering excellence and driving significant value for our customers.

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# Vision

At PIKE, our vision is to transform industries through innovative automation solutions that elevate efficiency, accuracy, and productivity. We strive to empower businesses with state-of-the-art technology, seamlessly integrating into their operations to achieve superior performance and competitiveness. By continuously pushing the boundaries of technological advancements, we aim to create sustainable and scalable solutions that drive long-term growth. Our commitment to excellence and customer-centric approach ensures that we not only meet but exceed the evolving needs of our clients, fostering a culture of continuous improvement and innovation.

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# Mission

01

We are committed to boosting productivity, lowering operational expenses, and ensuring seamless workflows by utilizing the latest advancements in Industry 4.0 and artificial intelligence technologies.

02

Our goal is to be the premier partner for businesses striving for digital transformation and operational excellence through sophisticated automation solutions.

03

Through the integration of automation, AI, and machine learning, we empower businesses to concentrate on their core strengths, reduce operational costs, and maintain a competitive edge in an ever-changing market landscape.

04

By incorporating advanced technologies such as machine learning, computer vision, and data analytics, we deliver intelligent systems that enhance decision-making, improve operational efficiency, and drive innovation.

# Solutions



## L2 Process Automation

The main goal of process automation is control and optimize technological and business process of one technological unit. It consists mainly from Material tracking, Data acquisition and recording, Setpoint generation and distribution, Quality and Production reporting and in many cases Mathematical models for quality and process optimization.

PIKE provides different models for:-

- Steel Making Shops
- Continuous Casting
- Rolling Mills



## L1 Basic Automation

- PLC and SCADA
- Drives control
- Setpoint inputs
- Process data visualization and Operation
- Alarms and Error message processing



## L3 MES System

Production Management Solutions (PMS) for metal industry bring horizontal integration over production units and machines, from raw material to product. Vertical integration is designed over levels of management and control, from ERP (e.g. SAP) to level 1 control. The solutions are combining Production management (MES), Advanced planning and scheduling and Quality Management.



## Digitization Solution

- Ladle Tracking System
- Heat Tracking System
- Torpedo Tracking System
- Ladle Thermal Imaging System

# Solution Overview

## Technological areas

- Steel Making Shops
- Continuous Casting
- Reheating furnaces
- Hot and Cold Rolling Mills
- Finishing lines

## Experience with

- Electrical Arc Furnace
- Basic Oxygen Furnace
- Ladle Furnace
- Vacuum Degasser (VD, VOD, RH)
- CONARC

## Production management module (MES)

- Communication with ERP/Business System
- Primary processing of customer order
- Technical elaboration and on-line feedback to ERP
- Passing planned data and receiving actual data to/from level 2 systems
- Graphical HMI of all production data
- Tracking material flow and stock control
- Reporting of the production process



## Metallurgical Models

### Steel Making Shops

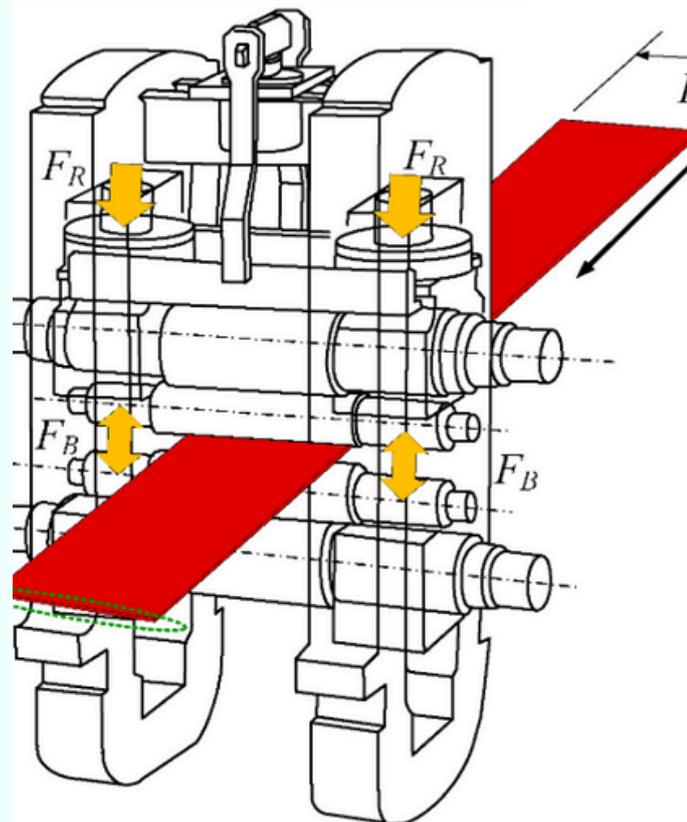
- Temperature/Energy Balance Model
- Material Mass Model
- Oxygen Blowing Model
- Slag Model
- Material Addition Model
- Process Monitoring Model
- Process Control Model
- Charge Material Calculation
- Ladle Heat Monitoring

### Continuous Casting

- Casting Speed Optimization and Heat Pacing
- Water Spray Cooling Control
- Cut Length Optimization
- Transition Zone Calculation
- Solidification Model

## Rolling Mills Models

- Reheating Furnace Model
- Yield Stress Model
- Roll Gap Friction Model
- Strip Temperature Model
- Roll Force and Torque Model
- Temperature and Wear Model
- Profile and Flatness Model
- Roll Flattening and Deflection Model
- Roll Force Distribution Model
- Interstand Cooling Model
- Laminar Cooling Model



# Thank You

## Because, we're here to help

Looking forward for a long term strong business relation



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