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Amossys Digital Pvt. Ltd.

Website: www.amossysdigital.com; e-mail: info@amossysdigital.com

Slab ID Identification - Inhouse Developed AI & ML Solution

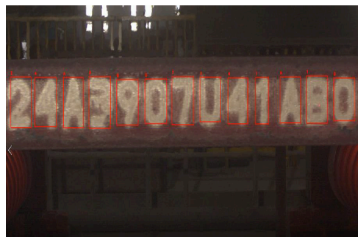
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Background

Finished or semi finished products from Steel Industries need proper and accurate detection and identification for categorization and for sending them to different customers as per requirement.

Largely this system is manual in many plants and there is always a chance of human error, which can result in rework and create quality issues at customer's end. The problem further aggravates when the material is at higher temperature.

Camera and Inhouse AI Based Algorithm can handle the problems related to human error and harsh environment:



We have developed an in-house, vision-based, AI and ML solution that utilizes a deep learning model to accurately detect hot slab ID. The system captures and processes slab images in real time, thereby extracting and verifying slab IDs with high accuracy. This eliminates human error, enables fast and automatic tracking.
(Picture from deployed project - Slab ID Identification).

Key Features and Benefits

- **Automated Slab ID Recognition:** Uses AI-driven image processing to read slab IDs.
- **High Accuracy:** Ensures reliable identification, reducing errors and misclassification.
- **Real-Time Processing:** Enables instant verification and tracking.
- **Integration with Existing Systems:** Seamlessly integrates with control systems.
- **Operational Efficiency:** Reduces manual intervention, saves time.
- **Safe and Reliable:** Eliminates manual work in high-temperature zones.

Proven Success: Advanced solutions deployed at TSL's Meramandali Plant.

👉 For more information you can contact us through our website or email provided above.