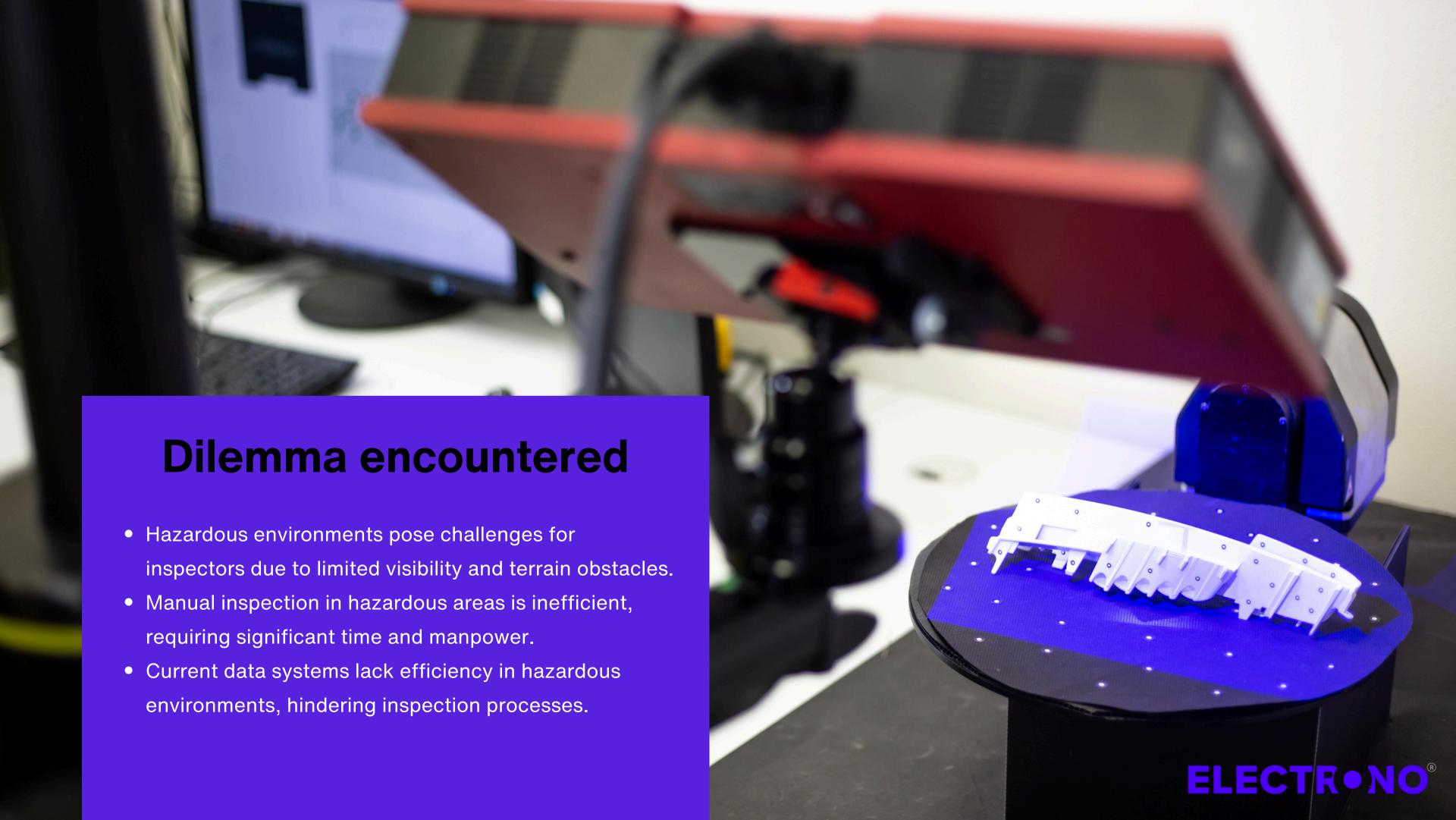


Clientele

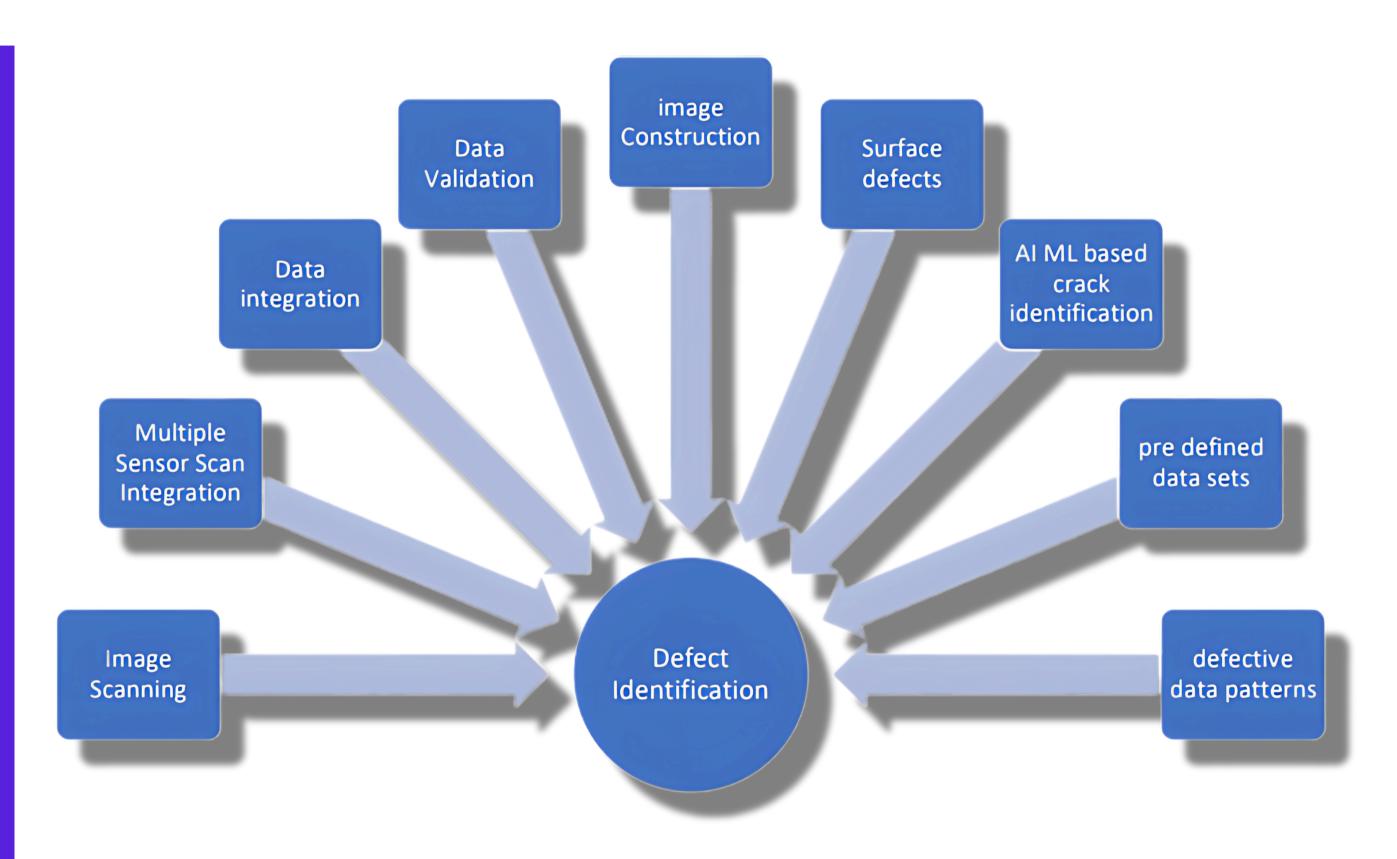
Our client, a major integrated steel plant, faces challenges with manual surface inspection of steel plates at the New Plate Mill (NPM), RSP. This process is time-consuming, error-prone, and lacks timely feedback for defect containment. To address this, our client plan to introduce a laser-based 3D camera system for automated defect identification, enhancing efficiency and accuracy.





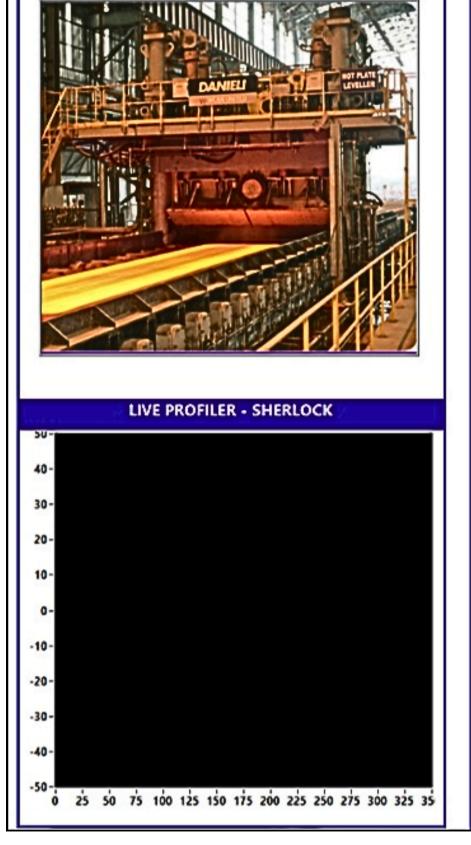
Fix proposed

- Utilization of advanced laserbased 3D cameras for precise surface defect identification.
- Comprehensive data acquisition system consisting of a Workstation, Gigabit Network, and Human-Machine Interface (HMI).
- Integration of an Al-ML-based
 Defect Identification Program for automatic and continuous
 detection of surface defects on hot steel plates.
- Elimination of the need for human intervention in the surface defect detection process.

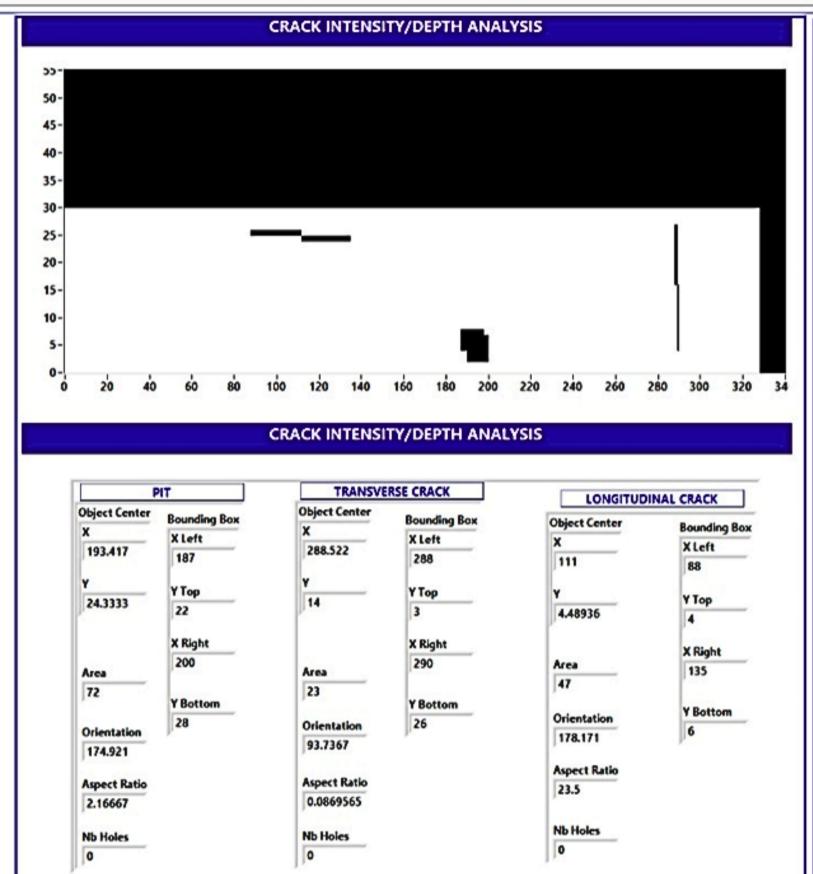


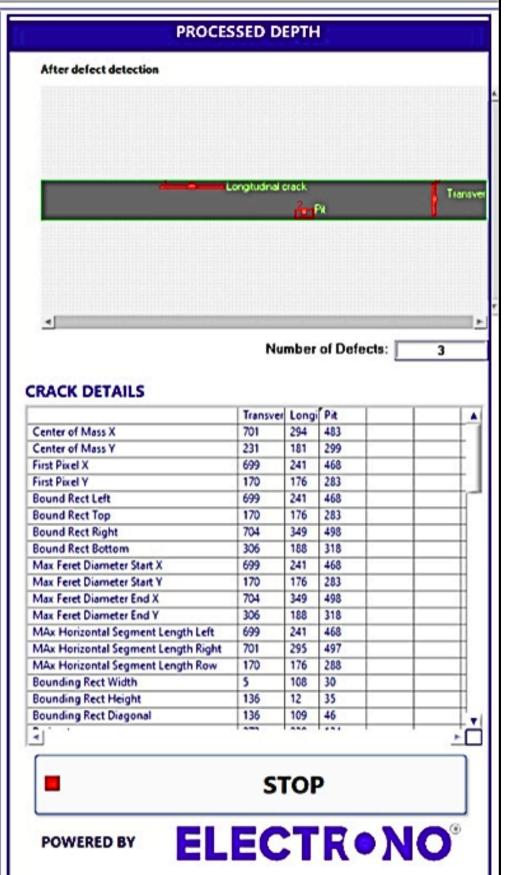


STEEL CRACK IDENTIFICATION SYSTEM

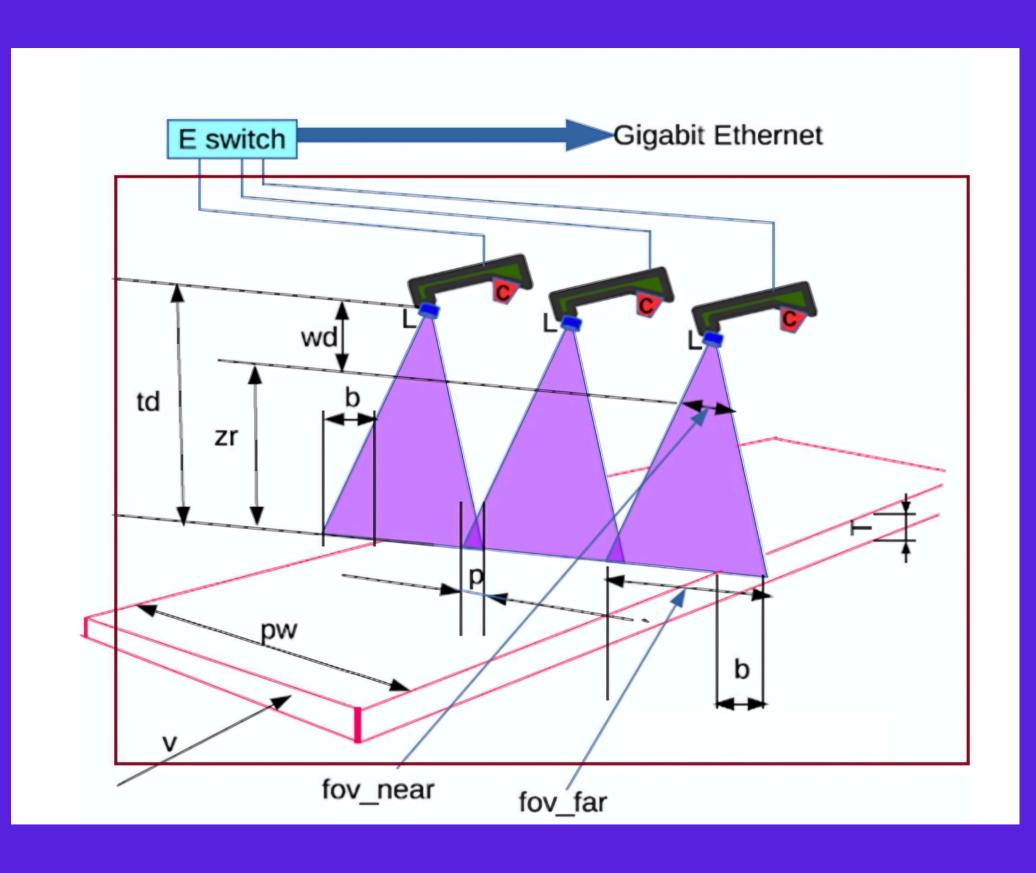


LIVE CAM









Key Features

- Extremely clear and sharp images using advanced cooled thermal imaging technology.
- The process of detection of surface defects is automatic and continuous without any human intervention.
- Any number of different products can be configured and stored directly by the user.
- Provision for checking the history data
- Calibration window for further alteration of tolerances
- Tolerances for the acceptance and rejection criteria can be set and saved in the database.
- Operator friendly user interface displays the images of steel plates as they are passing through the conveyor belt with identified defects.



Defect Detection

01

Longitudinal Crack

Dimensions:5mmX500mm

Thickness: 12mm

02

Transverse Crack

Dimensions:5mmX500mm

Thickness: 10mm

03

Pit

Dimensions:5mmX500mm

Thickness: 16mm









Get In Touch

ELECTRONO SOLUTIONS PVT. LTD.

- 501 Brigade IRV Centre, Nallurahalli Main Road, Whitefield, Bangalore- 560066, Karnataka, India
- 080-41268358
- info@electronosolutions.com

