



Quality analysis of steel billets based on crack defects from magnetic particle inspection (MPI)

- Company manufactures automated inspection machines for steel billets. Company includes MPI systems to the system as billets are inspected using this NDE technique.
- Company then supplies these machines to production sites for operation.

Solution

- DAI's MV system was integrated to the automation inspection system to capture and analyse results from MPI.
- Cameras capture images of all surfaces of steel billets every 300 mm.
- Images sent to DAI's MV system for processing.
- Results are then sent downstream using PLCs for further activities.

Impact

- Auto detection of defects significantly reduces analysis time of images.
- MV system for MPI processes all the camera images within 1 seconds and send results for operator to view and triggers an alert if there are defects.

