



3D BILLET SURFACE INSPECTION

NEW PRODUCT



The BSI^{3D} improves the quality and objectivity of your billet inspection process while ensuring traceability, enhanced productivity and customer satisfaction

How it works

- > The BSI^{3D} / Billet Surface Inspection system is usually placed above the existing conveyer, prior the ultrasonic inspection process;
- > Billet code identification is automatically performed;
- > A set of sensors collect high resolution tridimensional & photographic pictures;
- > The defects are automatically detected and quantified;
- > Inspection status is automatically transmitted to the process control system;
- > Complete information about defects found is stored into the database.

Key features

- > Operator free - completely automated;
- > Threshold values regarding defect detections can be adjusted ;
- > Automated detection of defects like:
 - Out of gas cushions;
 - Slip;
 - Zipper;
 - Bleed out;
 - Oxide patches;
 - Billet deflection;
- > Generates historical data allowing process optimization & quality follow-up / traceability;
- > Reads billet identification or/ add ID code (option);
- > Allows partial acceptance of the billet depending on the sub-lengths to cut;
- > Improves quality and objectivity of the inspection;
- > Integrates the state of the art 3D & 2D machine vision technologies;

HMI
Scanner units

Billets

Optical text recognition



Surface defect examples



Typical specifications

- > Average resolution of 0.2 mm (regular configuration);
- > Cycle time fewer than 60 sec;
- > Overall dimensions are customized to fit existing conveyer, the maximum billet length and billet diameters to scan.

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