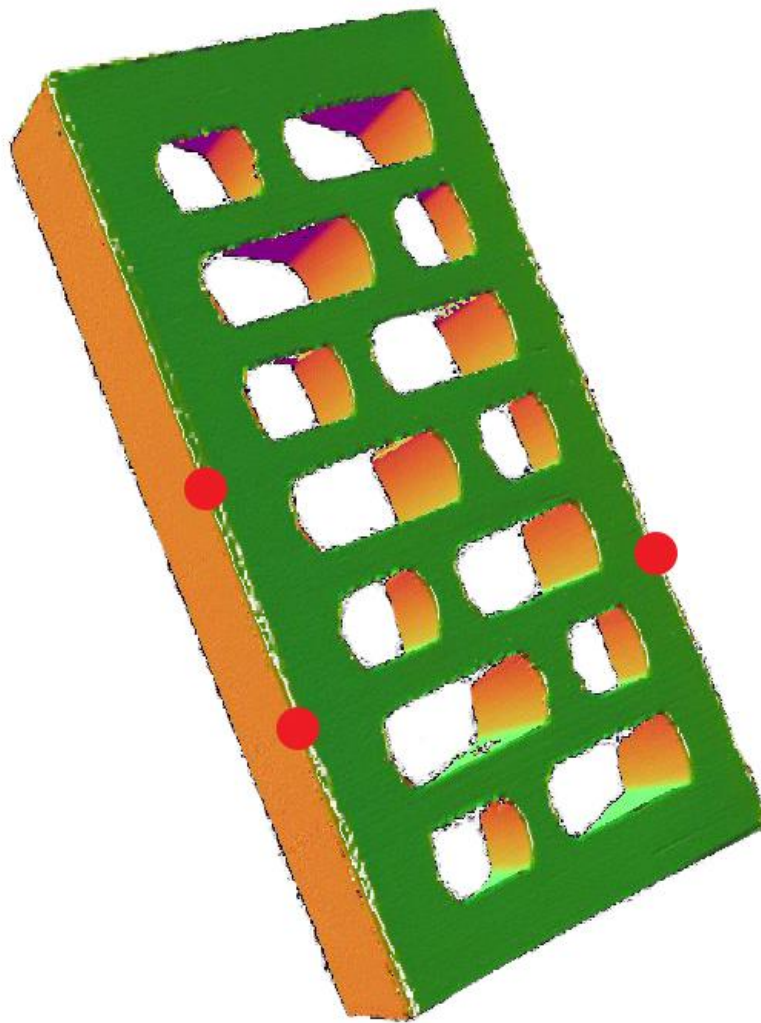


BrickInspector

Integrated surface #08
quality inspection
system



Vision Online

Added Value Machine Vision

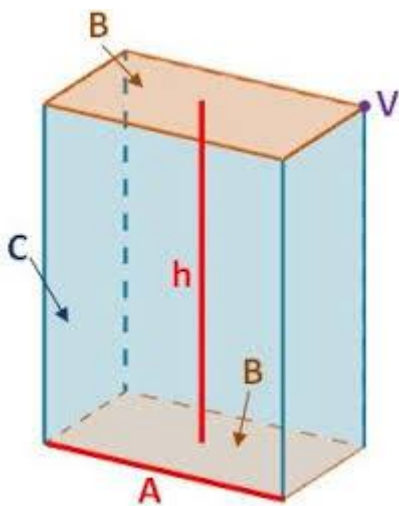
SOLUTION

Brick Inspector is a solution for a quality control of bricks. It also performs a classification based on the detected defects.

The main benefits are:

- Guarantees the product properties and the production process stability.
- Assures a hi-quality product.
- Improves the line availability and productivity.
- Raises productivity of serially produced references.
- Eliminates 100% of human visual control tasks.

All 6 sides of the brick are inspected in two stations.



Station 1: C sides are inspected.

Station 2: Inspection of B sides.

ACQUISITION

The system uses a hi-speed 3D acquisition devices, based on 3D laser profiling technology.

This technology provides a rich and robust point cloud information, even the different variability of the material, and not affected by the changes of the ambient light conditions.

Additionally, a 2D threshold image provides the necessary information to evaluate the texture, used for a surface defect detection.



3D scan at first station.



3D scan at second station.

INSPECTION

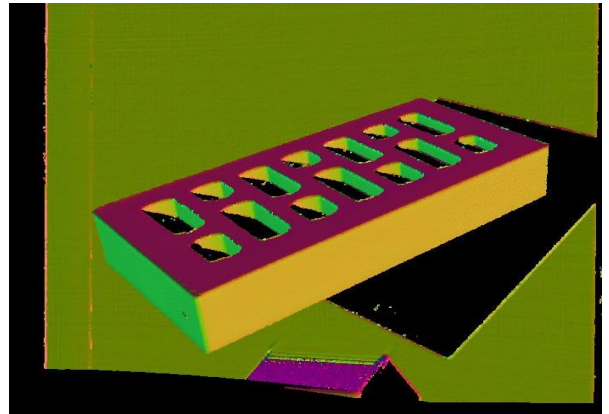
The following inspection tasks can be performed:

- Dimensional measurements.
- Detection of cracks and broken corners.
- Integrity and lack of material detection.
- Surface defects as stains or paintings.



COMMUNICATION and DATA STORAGE

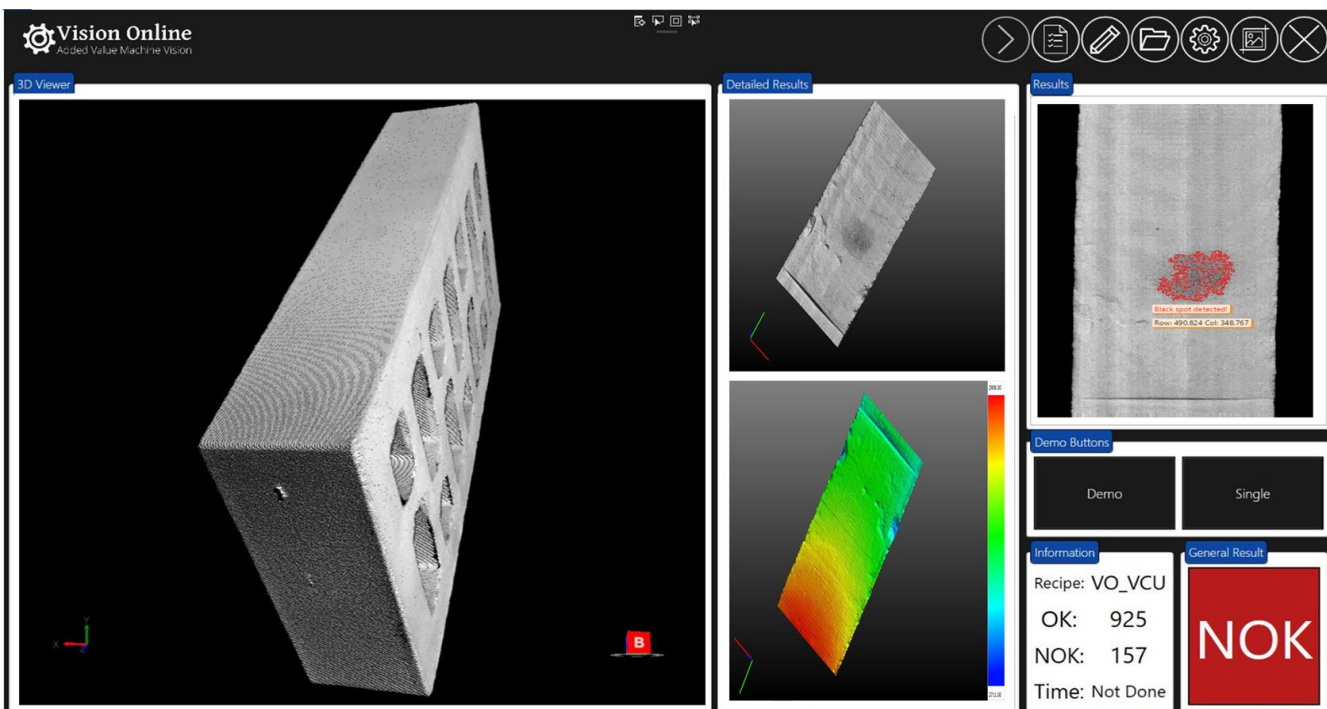
- Local history and local data storage for an image reprocessing and configuration.
- Communication through Ethernet TCP/IP, PROFINET or EtherCAT. Other Fieldbuses also available under request.
- Automatic recipe selection by communication with the PLC.
- Data communication interface to plant server with SQL database storage. I4.0 ready!

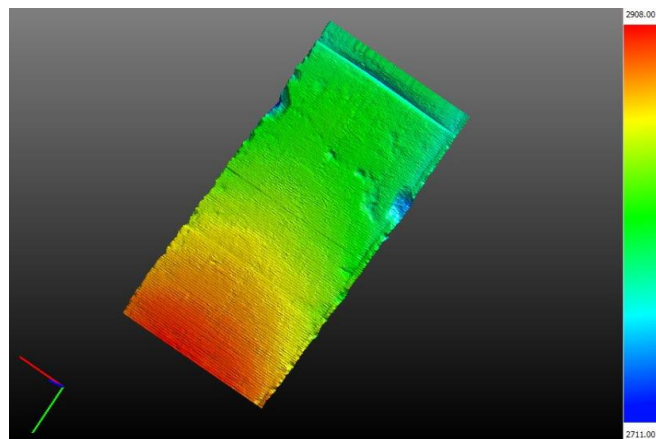


USER INTERFACE

Graphical user interface designed to provide the maximum power combined with a simple operation.

- Creation of new recipes and references.
- Graphic editor for control tools and adjustment of parameters.
- Access to data history and help documents.





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