

PyEmic

Mobile station for surface control and inspection

The swift evolution of technology, resulting in increasing exigencies on behalf of the customers, obliges the companies to perform according to higher standards and to produce high quality products at a low cost.

PyEmic, is a mobile station that performs inspection and quality control of the production process through machine vision.



Characteristics

- ▶ The installation is placed at the end of the production process, it's mobility allows using it at several lines.
- ▶ Detection speed is 33 pcs/min.
- ▶ The station disposes of a control panel allowing for automatic exchange of the item to be inspected.
- ▶ Electromechanic selection system of good/bad items.
- ▶ The control system allows for inspection of different references from the same family.
- ▶ Complies with european machinery standard CE 98/37 of 22nd june 2003.

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The project includes introduction of a machine vision system equipped with camera for real-time analysis of the images and the Software PyVision 6.0.

Pyemic has been designed to perform an in-depth Quality Control of the items on display:

- ▶ Verifying concordance of reference and attributes of the element.
- ▶ Obtaining geometrical characteristics of the elements (position, perimeters) and making sure they agree with the previously defined standards.
- ▶ Verifying absence of aesthetic faults: chafings, crevices, ruptures...

Mechanical Composition

- Wheeled table with support platform
- Items conveyor belt
- Pneumatic item extraction mechanism
- Side access doors

Electrical Composition

- Electrical Cabinet
- Channel to connect the system's elements
- Tubing and cabling between elements

System Components

Conventional PC: Pentium IV 2´6 Ghz, 256 MB, 40 Gb with TFT monitor.

Frame grabber:

Supporting 12 monochrome/6 color video cameras.

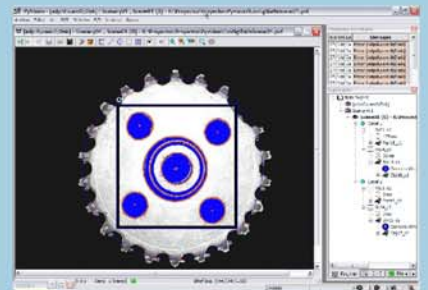
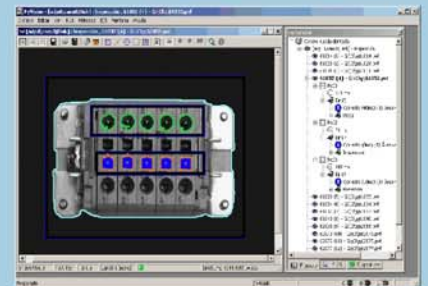
High resolution vision camera CCIR 768 x 576 pixels.

Special cameras according to the function of the product to be inspected.

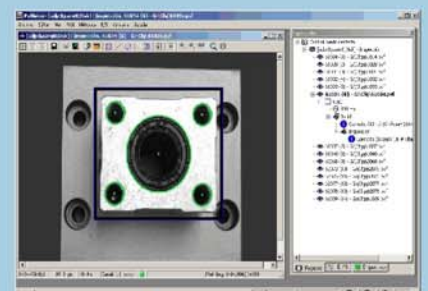
High frequency fluorescent lighting.

In/Out communications modul.

PyVision 6.0 software and Windows XP Professional operating system licence.



Broken dented wheel



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