

# PUNCHING PATTERN DETECTION AND POSITION MEASUREMENT SYSTEM OF ACOUSTIC WALLS

## MAIN FEATURES

- In-line inspection
- Check of position and orientation prior to punching
- Calculation of orientation and position corrections
- Verification of position for trimming of edges
- Diagnosis and calibration functionality

## BASIC CONFIGURATION

- Four monochrome 2 MegaPixel cameras
- Four robust LED illuminations with high lifetime
- Industrial processing unit
- Control and visualisation via touchscreen
- Customised interfaces  
(digital I/O, Profibus, Profinet, etc.)

## YOUR BENEFIT

During the production process of acoustic walls several defects caused by material variations or mishandling may appear. This can lead to reduced functionality or degraded visual appearance of the product.

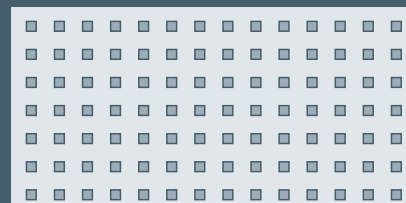
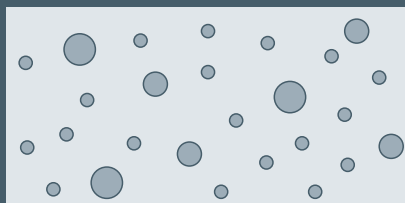
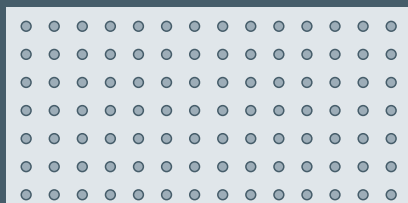
With the integration of a punching pattern detection and position measurement system you gain the ability of sorting out inaccurate products resulting in higher product quality and hence in reaching a higher level of customer satisfaction.

## COOPERATION



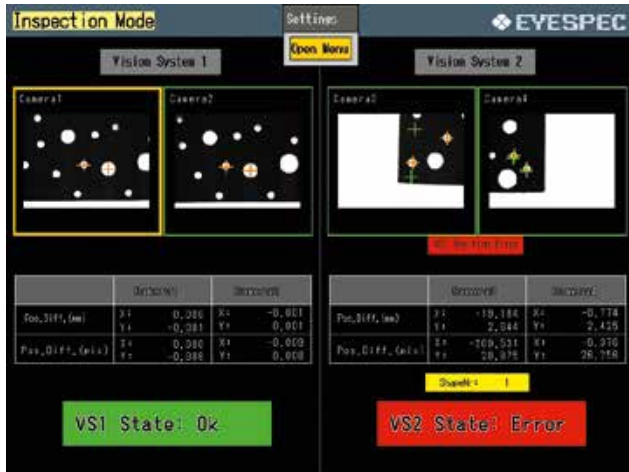
Keyence is a manufacturer of innovative high quality devices in the field of sensors and vision systems. Our strong and proven partnership with Keyence enables us to maximise the performance of our systems.

## EXAMPLES OF PATTERNS



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### RESULT VISUALISATION



Positioning error for trimming



Positioning error for punching

### SYSTEM SPECIFICATION

- Position and orientation accuracy: 50µm to 0,1mm\*
- Count of punching patterns: up to 99
- Product length/width: 20mm to 2200mm
- Maximum throughput: 1 piece/second
- Product colour and material: all colours and materials
- Teach-In functionality for new products

### OPTIONS

- Increase of resolution with 5 MegaPixel cameras
- Control cabinet including touchscreen
- Housings for cameras and illumination
- IP protection class up to IP67
- Additional features (Quality check of punched pattern)

### SERVICE AND SUPPORT

- Customised conception and design of the system
- Integration into existing production process
- Remote service and maintenance

\*depending on the product



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