

■ Specifications

| | | 3D board visual inspection machine RV-2-3DH (AOI) |
|--------------------------------------|----|---|
| | | RV-2-3DH |
| Board size | | 50mm×50mm-410mm×300mm 50 mm × 50 mm-630 mm × 300 mm (action to long board) *1 |
| Test resolution | | 12 μm (standard resolution)/5 μm (high resolution)*1 |
| Image angle | | 48.0×36.0mm、20.0×15.0mm *1 |
| Inspection items | | Shorting, shear, polarity, side-reverse, unsoldered solder, bridge, solder quantity, insertion part omission, character recognition*1 |
| FOV (Optimum condition) | 2D | 0.2 sec/1 screen |
| | 3D | 61.8cm ² /sec |
| Power supply | | AC 3-phase 200-230 V *2 |
| Apparent power | | 2.0kVA or less |
| Air pressure | | 0.5MPa |
| Air consumption (standard condition) | | 10L/min |
| External Dimensions (W×D×H) | | 940mm×1,276mm×1,530mm |
| Weight | | approximately 1,000kg |


*1 This can be done with the optional.
*2 The optional external transformer can accommodate 240 V AC three-phase and 380 V-430 V.

■ Option*1

| Hardware options | | Software options | |
|---------------------------|-----|---------------------------------|---|
| | | | |
| Lens Resolution 5μm | ● | Communication license | ● |
| NG marking Unit | ●*2 | Code reader silence | ● |
| Dispenser Unit | △ | OCR silence | ● |
| Emergency Pass Unit | ● | TOPSS System license | ● |
| UV light | ● | Server software | ● |
| Long board | ●*3 | Remote judge (CCC) license | ● |
| Board back up unit | ● | Repair System license | ● |
| Calibration plate | ● | SPC license | ● |
| Vibration control pad KIT | ● | QT (Quarty trace) license | ● |
| IF cable | ● | Offline system software | ● |
| OK,NG Cable | ● | Offline basic module | ● |
| Transformer | ● | Off-line code reader license | ● |
| SSD 2TB | ● | OCR license for off line system | ● |
| Memory 128 GB | ● | Data shere system license | ● |

*1 △:Customized order
*2 330mm×250mm.In addition, the watch can operate only when the long model data is selected.
*3 Maximum size :630 mm×300 mm

JUKI ECO PRODUCTS



JUKI ECO PRODUCTS For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html
*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances(lead, hexavalent chromium, mercury, cadmium,PBB and PBDE) in electrical and electronic equipment. The JUKI Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.

The RV-2-3DH is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.

●The machine complies with the "JUKI Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

*Please refer to the product specifications for details.



MS
JAB
CM001



JSA
EMS
JIS Q 14001
ISO 14001
JSAE389



UKAS
Environmental Management
089

JUKI CORPORATION HEAD OFFICE
The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.



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3D board visual inspection machine (AOI)

RV-2-3DH



Make Future
Faster and Accuracy



Overwhelming speed
Remarkable accuracy

Feature 1 Overwhelming speed

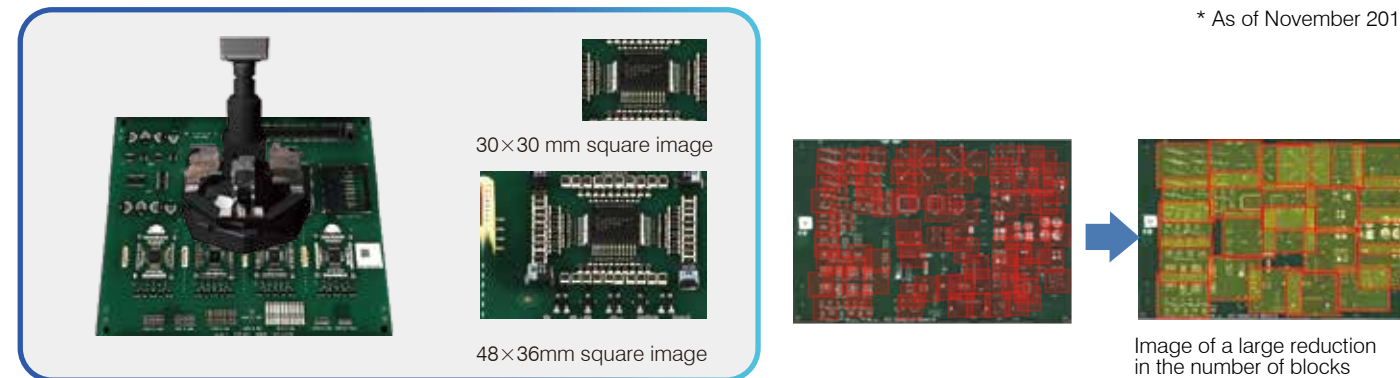
Large improvement in inspection tact with high-pixel (12 million pixels)

1,200 The use of a high-pixel camera with all pixels has expanded the camera field of view by 192% compared to the previous model. This resulted in the fastest inspection speed in the world in the class, 61.8cm²/sec. By speeding up inspection speeds, we can further accelerate production lines. In addition, by enlarging the angle of the image, the inspection was realized with a minimum number of blocks.

1. Inspection speed 61.8 cm²/sec
2. Resolution 12 million pixels
3. Image angle 48mm×36mm
4. Number of inspection blocks
Significant reduction



* As of November 2018



High-speed inspection achieves the highest throughput



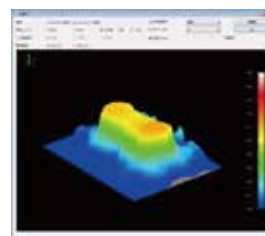
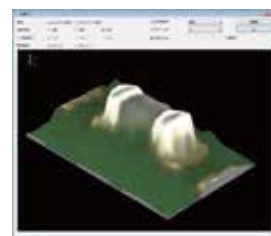
Feature 2 Remarkable accuracy

Using high-resolution lenses improves inspection accuracy of ultra-compact components

The use of a 5 μm (optional) high-resolution lens enables more accurate inspection of microminiature parts such as 0201 parts. This system achieves high-precision inspections even in the production of ultra-small parts and high-precision products, such as smartphones and precision equipment that require high-density production.



High density substrate image



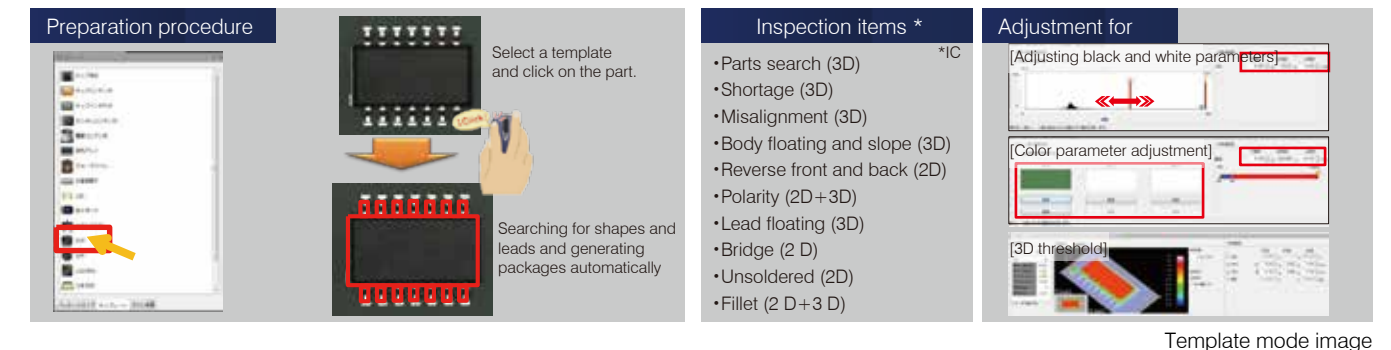
5 μm inspection image

Support for inspection of 0201 parts

Feature 3 Ease of use of rating

Process modes that are easy to use and create, from beginners to senior citizens

The "Template Mode" is a simple, quick, and high performance inspection that automatically generates packages by only selecting test part types with a pre-prepared template. In addition, adjusting black and white and color parameters and adjusting the 3D threshold allow you to customize the inspection standards freely, making it easy for less experienced operators to create the test data. In addition, a unique process mode can be mounted as a standard, making it more flexible.

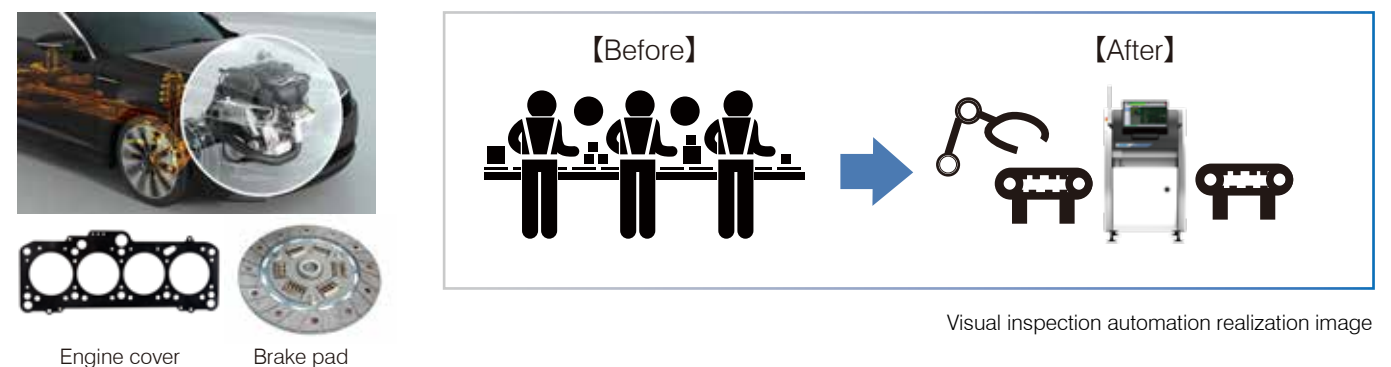


Template mode image

Feature 4 Visual inspection automation

RV series, which can also be used for measurement

It is possible to automation visual inspections that have been performed manually, such as planarity inspections, clearance checks, hole diameters, pitch checks, geometry checks, color checks, and dirt checks of processed parts, press parts, ASSY parts, etc. It is ideal for measuring important precision components such as automotive, medical, and electronic devices. In addition, labor shortages and in-line inspection processes are realized.



Visual inspection automation realization image

Feature 5 For improving the efficiency of the entire plant

Achieving the efficiency of the entire factory through system linkage

We also action to the JaNets that connects the entire manufacturing process through networks. We will not only improve quality and productivity, but also visualize management information. In addition, in addition to integrated control of various types of data for each line, the external output function (OP) enables system linkage with the MES customers own.

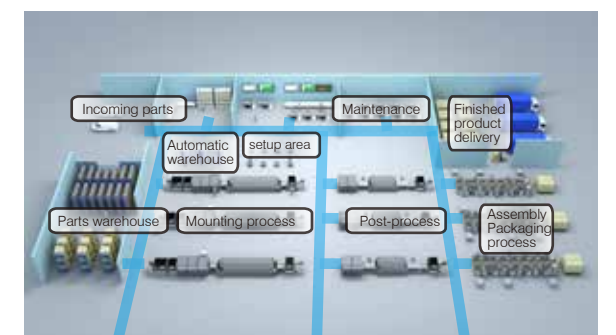


Image of System Collaboration