

The Checkbox in application: Inspection device for mounting hardware

FESTO

Jinhap Industry Co. Ltd.
uses the Checkbox as an
inspection device for all
the components which
it produces.



502.1.REF→



The task

- Automated final-inspection device for pressed and machined parts
- Separation-out of foreign and bad parts
- Flexible changeover of part type possible at frequent intervals
- Reduction of manual work required

The solution

- Identbox standard unit
- 100% inspection of all discharged parts
- Changeover to different product variants by simply pressing a button

The benefits

- Fully-automated solution
- Significant increase in productivity
- Consistently high quality
- Flexible changeover of part type to be inspected at intervals of 2 – 3 hours
- Space-saving solution

The Checkbox – unrivalled economically



Opto-electronic final inspection for mounting hardware

If we compare the requirements of modern industrial production with those of 20 years ago, we find that the focus, now as then, is on quality. What is new today is the continuous improvement which has been achieved in the areas of productivity, costs and economy.

For Jinhap Industry Co., with headquarters in Daejeon, Korea, too, quality is a central factor governing competitive success and forming the basis for customer satisfaction. It is thanks to its quality that the company has been able in the last 20 years to

gain acceptance as a supplier to major automobile manufacturers – naturally with certification to ISO 9002. Jinhap also attaches great importance to being able to sell its high-quality products at an attractive price.

Checkbox – flexible into the future

Given this situation, the Festo Identbox out of the Checkbox series is the ideal tool to help Jinhap Industry Co. achieve its goals. This company uses Identbox as an opto-electronic final inspection device for 31 variants of mounting hardware. This hardware includes bolts, screws, hydraulic fittings and specially-produced cold-pressed machine components for the automobile and electronics industries. The optical inspection system recognises and separates good and bad parts, and feeds good parts directly to a packaging process. The parts are

inspected for factors such as deformed threads, precise overall length and thread length and damage such as bending.

The result

The Identbox has proved to be a more economic alternative in every respect than the previously used solution which involved labour-intensive final inspection carried out purely manually, or with the help of simple tools. The consequence of this was not only high labour costs but also fluctuating quality levels. Identbox has allowed a greater throughput volume to be achieved while ensuring consistently high quality. It also makes it possible to change over rapidly from one part type to another. This makes long set-up times a thing of the past.

Further information on Checkbox is also available via the Internet at www.festo.com/