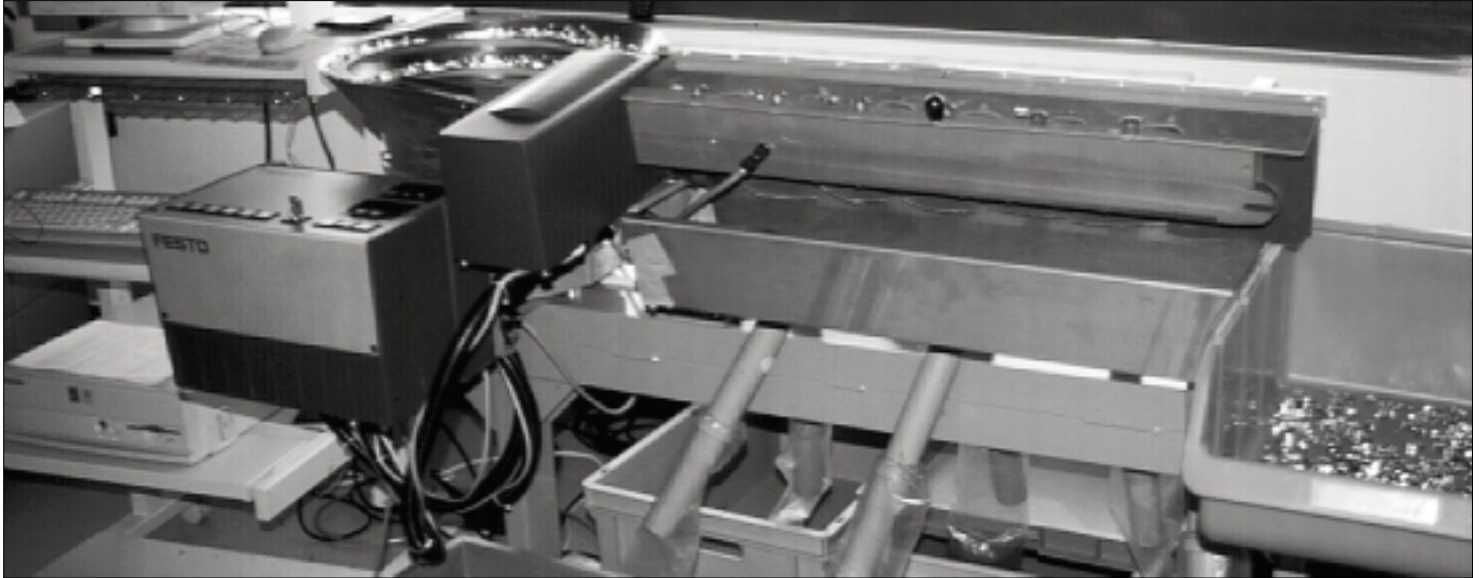


# The Festo Checkbox in application: Guaranteed to be fully sorted

**FESTO**



**FCT electronic leipzig gmbh, D-Jesewitz**

**Checking and sorting of parts for the electrical engineering/electronics industry**

#### **The task**

- To test and separate galvanized injection-moulded plastic parts
- To ensure that the parts are fully sorted even at high sorting speed and with a wide range of components

#### **The solution**

- Festo Sortbox – standard unit:
- Simultaneous sorting of up to six different components
  - High sorting speeds with a freely selectable combination of component types and sorting positions
  - Central control

#### **The benefits**

- Reliable function and constant test quality, including storage of component-specific Teach-in data for later use
- High cost savings and rapid amortisation
- Flexibility owing to rapid resetting for other components or combinations of components
- Automatic quality control results in top quality delivered components

# Clear separation of small components with complex mixes!

## The Sortbox has produced its masterpiece

Miniaturisation, i.e. more and more functions in a smaller and smaller space – this is the byword for companies which are operating in international competition in the electrical engineering/electronics sector. In conjunction with know-how and the entrepreneurial far-sightedness to foresee a reliable future in the global market, the ability to miniaturise is decisive.

The company FCT electronic leipzig gmbh in Jesewitz manufactures a broad range of plug connectors – small and minuscule, high quality and highly versatile mass-produced com-

ponents used in the electrical engineering/electronics industry.

### The requirements

In the electrical engineering/electronics industry, the manufacture of plug connectors requires the use of numerous individual, generally tiny, high quality parts. Depending on the end product being manufactured, the combination changes constantly. It also includes plastic products with galvanised surface finishing. To achieve optimum usage of galvanising capacity, different types of component are galvanised together and then separated again, fully sorted.

### Long live the fine difference

With injection moulded parts which are frequently only a few millimetres in size and a few grams in weight, it is important to be able to identify components which are defective in shape and to remove them from the flow of components with accuracy and reliability. Foreign parts which do not belong to the current range of parts must also be identified and sorted out.

### Complex tasks require simple solutions

The method used to separate the mixtures to ensure that the parts were fully sorted for delivery used to involve meticulously precise and painstaking manual work.

One may well imagine the expenditure required for this. In order to keep pace with the costs pressure coming from the market, FCT went looking for an automated solution with no ifs or buts: for 100% tested quality.

### A real money-box

The Sortbox counteracted the costs pressure being exerted by the market as it could separate parts automatically both faster and more reliably.

### The result

- The Sortbox can also be used as a stand-alone system for a wide variety of testing and separating tasks and can be put into operation with ease
- Components can be taught for individual sorting positions in seconds and on the machine directly
- Automatic quality control ensures that the delivered components are of top quality
- Foreign or defective parts are automatically sorted out
- Once generated, the Teach-in data can be stored under the component number on a PC and then loaded into the Sortbox as required
- Reverting to existing, tested Teach-in data leads to greater process reliability and saves time and refitting costs
- Securing fully sorted components is always guaranteed even at high sorting speed and with a wide range of components
- The tough, compact and robust system guarantees trouble-free operation



the parts...



the Sortbox...



the system...

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