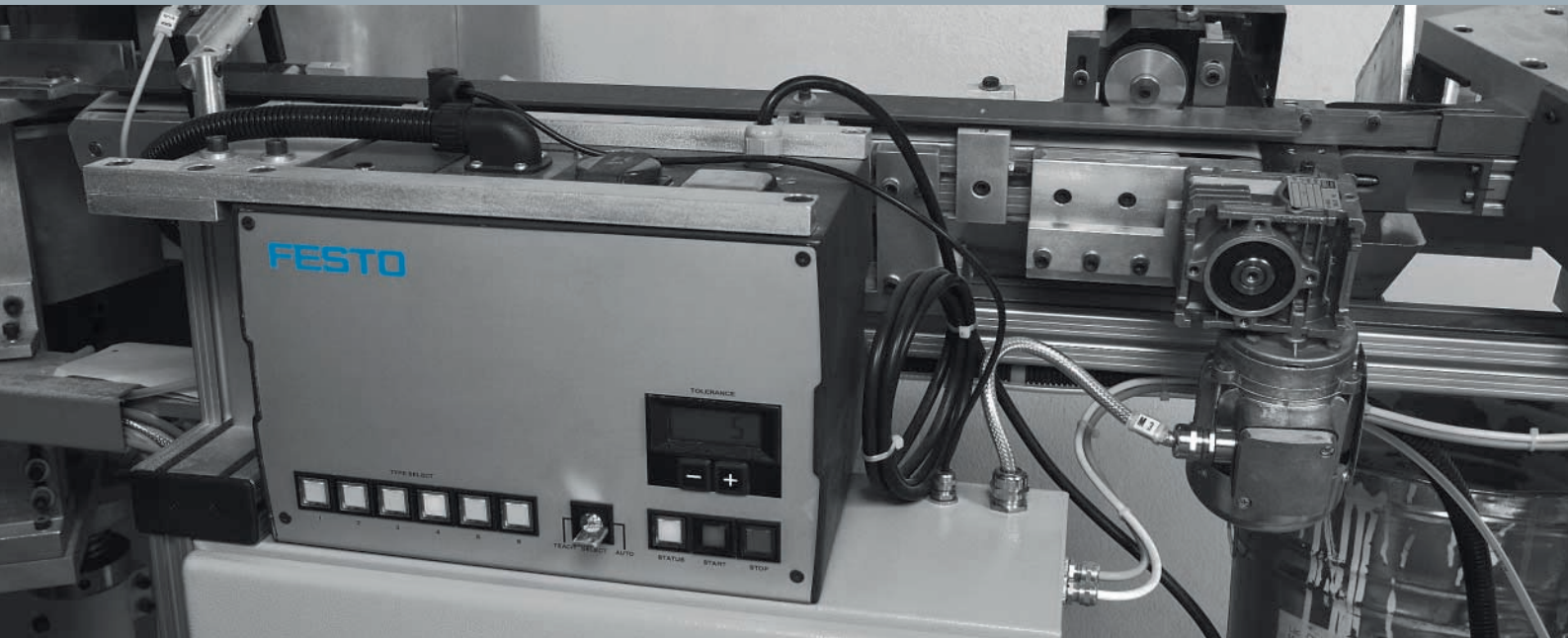


# The Festo Checkbox in application: Tirelessly working for quality

**FESTO**



## Helmut Wiedmann Holzwaren, Eschach-Holzhausen, Germany Quality inspection of various sizes of wooden dowels

### The task

- Quality inspection of various sizes of wooden dowels
- Automatic sorting out of defective and foreign parts
- Faster operating speed
- Flexible changeover of parts within the shortest time possible

### The solution

#### Festo Identbox – standard unit:

- Reliable detection and mechanical sorting out of defective, incomplete wooden dowels
- Fast throughput of high volume of parts
- Changeover of machine in seconds by means of electronic parts data memory or using the Teach-in method

### The benefits

- Simple commissioning and operation
- 100% quality for dispatched parts
- Reliable operation and consistent test quality
- Changeover at the press of a button means no loss of time, no additional costs

# Wooden dowels with guaranteed consistent quality ensure long-lasting furniture

## The Identbox – for reliable detection of defects

Consumers are demanding furniture of ever-higher quality at ever-lower prices. The suppliers to the furniture-making industry are therefore constantly required to devise creative, intelligent production solutions. Only in this way can these companies survive the price war in today's market-places. One excellent example of a specialist manufacturer of sundry wooden products is Helmut Wiedmann Holzwaren in Eschach-Holzhausen, Germany. This family company, with a century of tradition, was once a cartwright. Since 1969, the focus has been on products

for the furniture industry, specialising since the start of the 1990s on wooden dowels.

### Small parts with an important job

All kinds of sizes of wooden dowels need to be mass-produced. Despite the ever-rising volume of production, there must be no single defective dowel. These small wooden pins have an important job to do – perhaps they even form part of your office furniture.

### Technology instead of manual work

In the past, achieving quality meant laborious manual work to separate out defective dowels. Today, the Identbox, a member of Festo's Checkbox family, provides cost-effective quality inspection. Its optical detection and checking technology operates directly on the spot, tirelessly and free of wear and tear. For Wiedmann, this has been a milestone along the road to higher productivity.

### The demands

The furniture-making industry demands maximum quality from all the wide range of connector components which it uses. Long product life and ease of assembly are heavily dependent on high-quality workmanship. Wiedmann's entire range of dowels, in sizes from 6 x 25 mm to 12 x 80 mm (D x L) is thus subjected to extreme strict test criteria. Each and every dowel must be checked for

- overall shape
- chamfers and
- end flats.

### Intelligent production – Quality results

Thanks to the Festo's Identbox, Wiedmann can ensure that its

customers receive 100% quality-tested dowels which fully satisfy their needs, since defect and foreign parts are automatically separated out. Wiedmann's internal production controlling department is also delighted at the high level of output, 500 parts a minute in the case of the size 8 x 30 mm.

### Intelligence which saves money

A comparison shows that the Festo's Identbox is unequalled in terms of all relevant criteria – output level, time and quality.

### Performance which benefits efficiency

- High throughput rates, allowing large quantities of parts to be checked right round the clock
- No more need for outworkers
- No wastage of time and money, since it is no longer necessary to transport the parts to outworkers and collect them again

### High-tech test technology ensures reliability

- Simple robust optical system with line-scan camera and LED light strip
- Protected against light interference, with contour detection via backlighting method
- Detection process is based on parts features

### Installation and operation do not require expert personnel

- Learning new parts in seconds by using the Teach-in method – no programming required
- Data for up to 48 different parts can be stored
- Simple commissioning, thanks to a modular system concept



the parts ...



the Identbox ...



the system ...

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