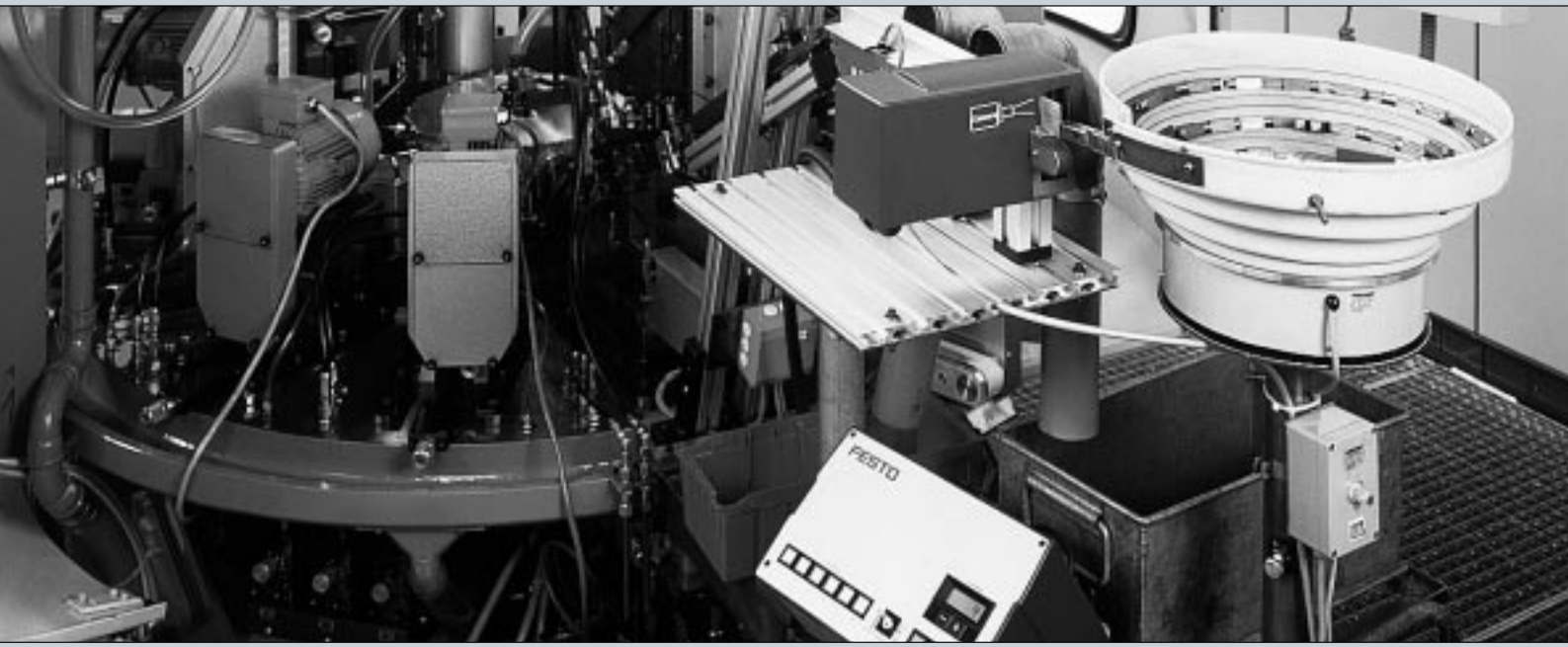
The Festo Checkbox in practical application: Reliable feeding and checking of different variants

FESTO



mbo Oßwald GmbH & Co. KG, Külsheim-Steinbach
Rod clevis production using the Identbox

The task
– Frequent part changes
– Minimising feeding of defective parts
– Fast retooling
– Fully automatic feeding of parts
– 100% part recognition

The solution
Festo Identbox – standard unit:
– Retooling via push button
– Teach-in function
– Electronic storage of different variants
– Easy to operate

The benefits
– Reduced retooling times of up to 30%
– Reduced tool costs
– High system reliability
– Shorter processing times

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Economic automation, minimal errors!

Problem-free feeding using the Identbox

mbo Oßwald GmbH & Co. KG
Any company with customers demanding the highest possible quality and precision has to be an expert in its field. Such is the case with mbo Oßwald, a company with great experience in the production of precision rod clevises for cylinders, ball joints and safety components. Their speciality is the production of rod clevises, from the raw material to the finished high quality end product.

the parts...

the identbox...

the system...

The market situation required more component variants, increased production capacity and efficiency. For this reason mbo Oßwald installed a new production cell which combines the individual steps of turning, milling and drilling in one processing centre. The existing feeding technology had to be revised to suit this new situation.

Effective feeding of 15 rod clevis variants
In a new production cell 15 rod clevis variants, with a diameter of 8 to 25 mm, have to be conveyed to a processing centre via a feeding system. To achieve a cost effective solution, retooling and processing times had to be reduced and the feeding of incorrect parts minimised. The task for the optical scanning and quality inspection systems was to support the frequent part changes through short retooling times and thus reducing the dependency on mechanical chicanes to a minimum.

The Identbox for detection of incorrect alignment and discharge of defective parts
The decision was made in favour of Festo's Identbox. A basic device with the capability to independently separate out incorrectly aligned and defective parts wherever mechanical orientation using chicanes proves difficult. All required rod clevis types can be retooled, taught-in and stored. Fast commissioning of the Identbox reduces processing times – thus saving time and costs in favour of the systems potential.

The task
- Flexible feeding of the raw part variants
- Reduced processing times
- Effective, frequent component changes
- Minimised feeding of incorrectly aligned or defective components
- Reduced tool costs
- Quality management
- Decrease of time and costs

The solution and its benefits
- Efficient change of components through the reduction of the system's retooling times by 20 to 30%.
- Time savings with the teach-in function and electronic type storage, whenever variants have to be exchanged within a certain group.
- Precise inspection results and high system reliability reduce disruptions.
- Fast commissioning through simple operation.
- Fully functioning configuration of controller, camera, conveyer and air blast ejection units.
- Fast retooling via push button.
- Maintenance and trouble-free even in machining environments.

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