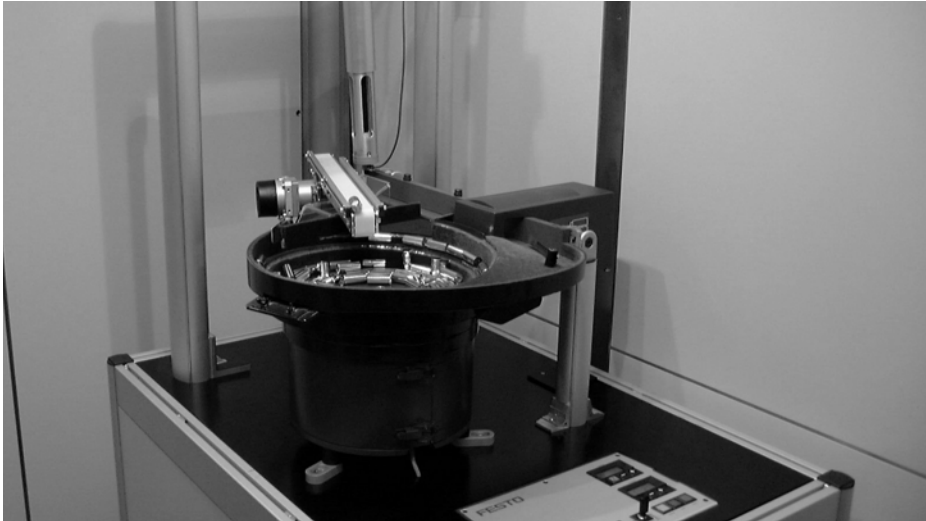


Display Description

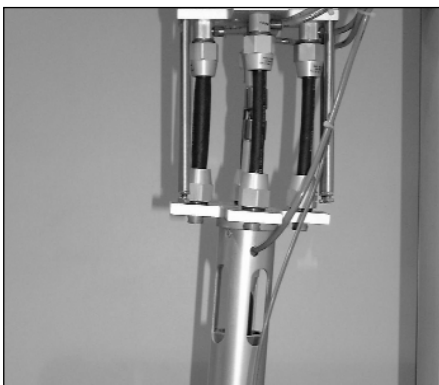
FESTO



Quite clever really!

Lipstick sleeves are checked here for correct orientation, and are also quality inspected, with the help of the Checkbox optical type-identification system. Incorrectly oriented or bad parts are ejected from the conveyor belt via an air jet. Good parts are transferred to

two parallel tracks by a gripper unit equipped with a fluidic muscle. The gripper arm can be set into motion by means of simple pressure changes, because the fluidic muscle contracts relative to applied pressure - an ingenious mechanism makes 3D motion possible.



Flexing Muscles

An actuator is lifted by one fluidic muscle, and diverted towards the four cardinal points by 4 additional fluidic muscles.



Conveyor Concept

A DSM semi-rotary module with flange-mounted freewheel unit drives the conveyor belt continuously in the same direction.

Dynamic Display Lipstick sleeve inspection SA 0292

Checkbox

The Festo Checkbox is an optical system for the recognition of workpieces and workpiece position, as well as for quality inspection of conveyed parts whilst being fed to advanced assembly and manufacturing equipment. The Checkbox is capable of learning the contours of up to 48 different components in just a matter of seconds via the integrated teach-in function.

The Fluidic Muscle:

The principle is amazingly simple - as is the use of fluidic muscle. After applying internal pressure, the circumference of the hose-like component is expanded. This results in a pulling force and contraction along the length of the fluidic muscle. The pulling force is greatest during initial contraction, and drops off to zero in an almost linear relationship to stroke length. Working strokes of up to 25% of nominal length are possible.

Festo AG & Co.