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Component Feeding & Placement System



Total Machine View

Machine Function:

This assembly station automatically feeds washers and safety-rings and uses gripper modules to accurately position both parts to an automotive axle pin.

Washer Feeding & Placement:

A feeder transports a washer to a separator pick-nest. A vacuum suction-head picks up each washer and positions it into the axle pin.



Washer Placement Module

Safety-Ring Feeding & Placement:

A gripper module equipped with an alignment-pin, picks up the safety-ring from the feeder and moves over the axle pin. The height of the axle pin can be adjusted using a multi positional stop. The alignment-pin presses the safety-ring onto the axle pin, making sure it fits tightly into the provided recess. Afterwards, a measuring transducer verifies the correct positioning of the safety-ring.



Safety-Ring Placement Module