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2-Spindle DCAM – with EC-Electric Screwdriver and automatic Feeding

This months' machine was manufactured by DEPRAG for a major US corporation, which manufactures automotive safety components. The machine's objective is to insert two Torx screws into an automotive control component.

Part – prior to Assembly

Part – after Assembly

The Operator loads the part fixtures with a plastic cover; each part fixture allows the loading of 3 parts each. A sensor verifies the presence of a part in each nest cavity and will drive screws only where parts are present.

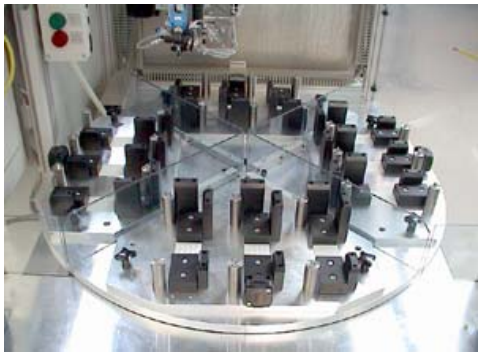
When activating the two opto-touch buttons, the index table turns by 45-degrees and the next part fixture can be loaded with 3 parts.

Simultaneously, the screwdriver axis moves into position and locates the Screwbot [Robot-End-of-Arm-Tooling] into position to drive two screws into each part, which is present.

Screwfeeder with Refill Hopper

Torx Screw (a 2nd feed system is tooled for a different screw and allows an automatic tooling changeover)

R-E-A-T [Robot End-of-Arm-Tooling]



Index Table with Part Fixtures

A special feature on this unit is an RFID TAG system, which allows the machine to recognize which part nest/product is loaded and changes the screwdriving profile/program "on the fly". The integrated EC-Electric Screwdriver Spindle assembles the screws to torque and verifies the angular displacement of the fastener.