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HAND-GUIDED MULTI-SPINDLE UNIT

This hand-guided Multi-Spindle Screwdriving System was designed and manufactured for the assembly of individual parts on a truck engine.

Driver Specifications

Torque:
11 ± 1 Nm
[97 ± 8.8 in.lbs.]

Speed [unloaded]
400 rpm

Model 345-430-31 with remote start capability

Integrated function feedback port for driver start/stop [torque reached] indication

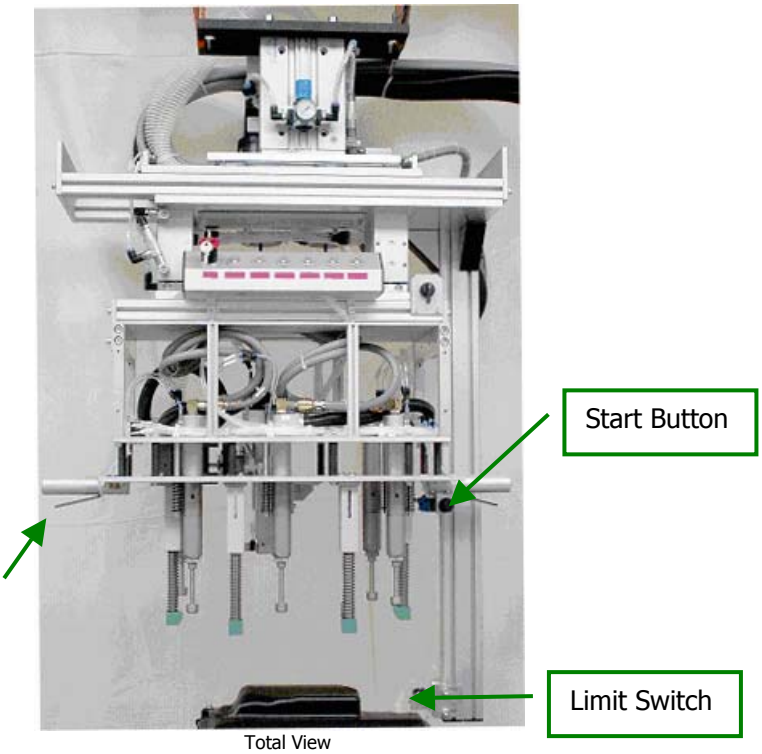
Spring-loaded lateral guide bolt to assure controlled screw assembly end-load pressure

Ease Maintenance: Remove only one bolt and the spindle will slide out

System Components:

This system consists of six (6) size-3 **MINIMAT** Screwdriver Spindles, with integrated function feedback port and spring-loaded lateral guide bolt. The system is designed for the operator to select the operation of either five (5) or six (6) spindles; this depends on the product to be assembled.

The Unit is integrated into a conveyor system, which was provided by the customer.



Total View

Cycle Description:

The conveyor delivers the product to the lift/locate station underneath the assembly unit. The Operator loads a fastener into the magnetic socket on each spindle, selects the required number of spindles on the selector pad and presses the two start-levers simultaneously. The complete machine moves forward and positions the Screwdriving Unit above the assembly axis. The limit switch recognizes that a part is present and the screwdriving unit moves down to position the Screwdriver Spindles above the part. Once the Operator presses the start button, the screwdriver spindles start at a reduced speed to allow the correct engagement of the socket and fastener to the part. Shortly thereafter, the screwdriver spindles switch to their full speed and assemble the fasteners to the specified torque of 11 Nm.

Integrated lights indicate **OK** or **NOT OK** assemblies.