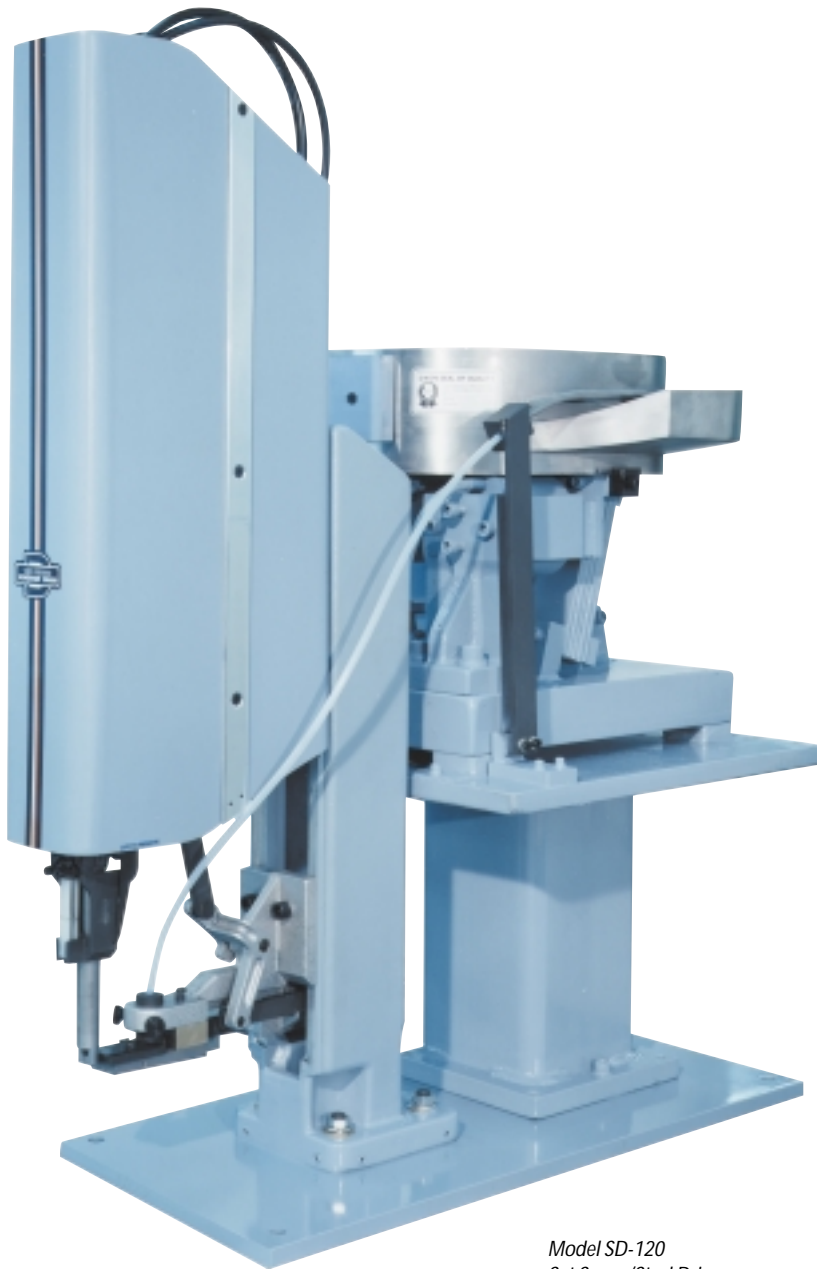




Model SD-120 Screwdrivers

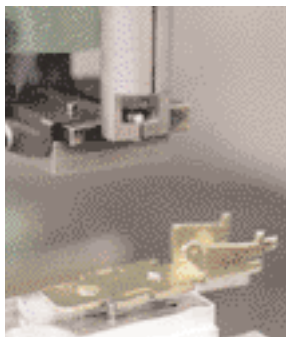


*Model SD-120
Set Screw/Stud Driver*

The Model SD-120 Screwdriver is available with 2 in. (51 mm), 3 in. (76mm), 4 in. (102mm), and 5 in. (127mm) head strokes. This Screwdriver can be furnished with a range of driving speeds and torque capacities using either DC electric or pneumatic motors. A torque and depth sensing control verifies when a fastener is properly driven during each driving cycle. Torque control settings range from 4 inch-lbs. (.5 Nm) to 120 inch-lbs. (13.5 Nm). Torque accuracy can be achieved in various ways depending on the torque requirement and specific driving application. Mechanical and electrical clutches satisfy a range wide of torque specifications, in addition to "stall" torque and DC electric torque/angle applications. Depth settings can be held to plus or minus two (2) turns with standard tooling. Closer depth tolerances can be achieved with optional controls.

The Model SD-120 is ideally suited for headless fasteners and threaded studs for a broad range of assembly applications where accuracy and dependability is required in an automatic process.

Fasteners are oriented and fed from a vibratory bowl feeder. The bowl size is selected to suit the fastener being fed. Bowl sizes can range from 6 inches (153mm) to 36 inches (914mm). The fasteners are fed into a feed tube to a cross shuttle escapement mechanism. The escapement transfers and positions one fastener at a time into the placement jaws of the driving head. Each fastener is captivated within the jaws until the fastener's thread is properly engaged. The placement jaws are then opened mechanically.



Left: Typical Driving Applications

Model SD-120 Screwdrivers

Driving Head Features:

Air Motor (Standard)

Reversible or nonreversible rotation with various torque ranges and speeds. Optional DC electric motors available.

MC-9 Control-Pac

Four-way valve and junction box with terminal strip. Other voltages and switch styles optional. Standard proximity switches are 24 VDC (PNP) pre-wired.

Sensing Control Assembly

Mechanism provides good-part sensing for both torque and depth applications.

Proximity Switch

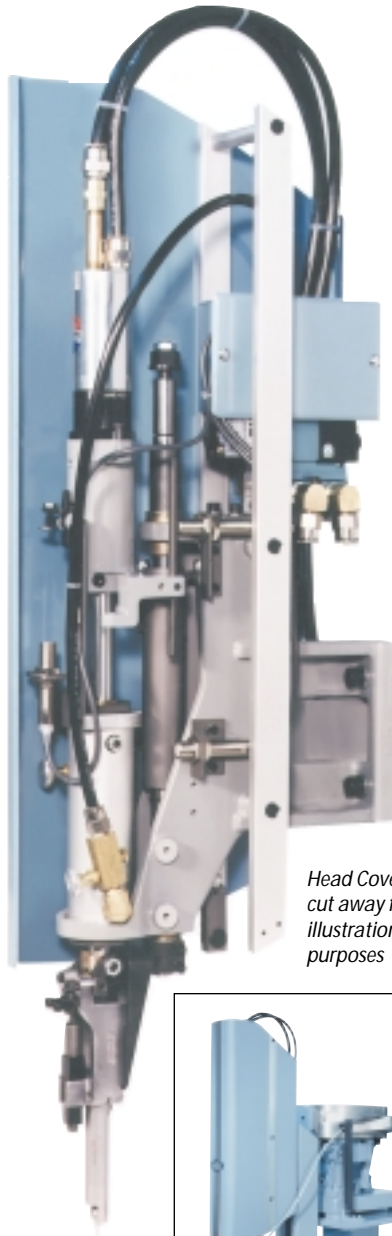
Three (3) proximity switches provided: **returned** position, **intermediate** (usually made just prior to screw entering work, typically used for a reject timer), **goodpart** (forward).

Optional Blocking Air Motor Valve

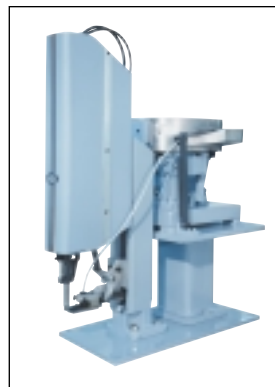
Optional valve package used to control depth of fastener engagement to plus or minus 1/2 turn.

Head Cover

(shown in small photo at right)
Slides upward for access to head.

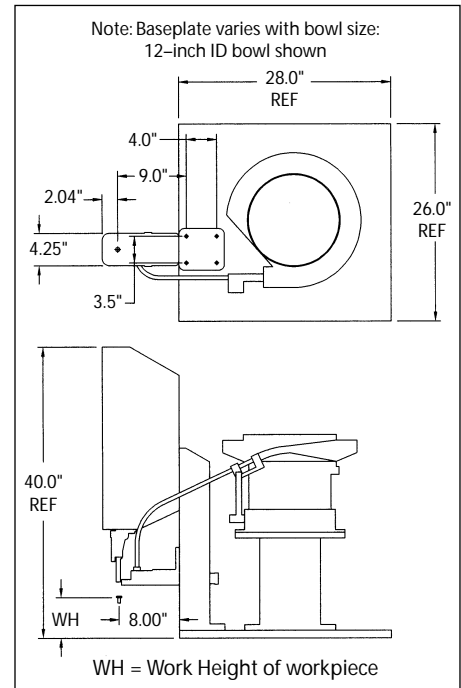


Head Cover
cut away for
illustration
purposes



SD-120

Dimensional Data



NOTE: We reserve the right to make further technical changes without notice.
CAD drawings are available



Typical Parts



Main office and factory

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