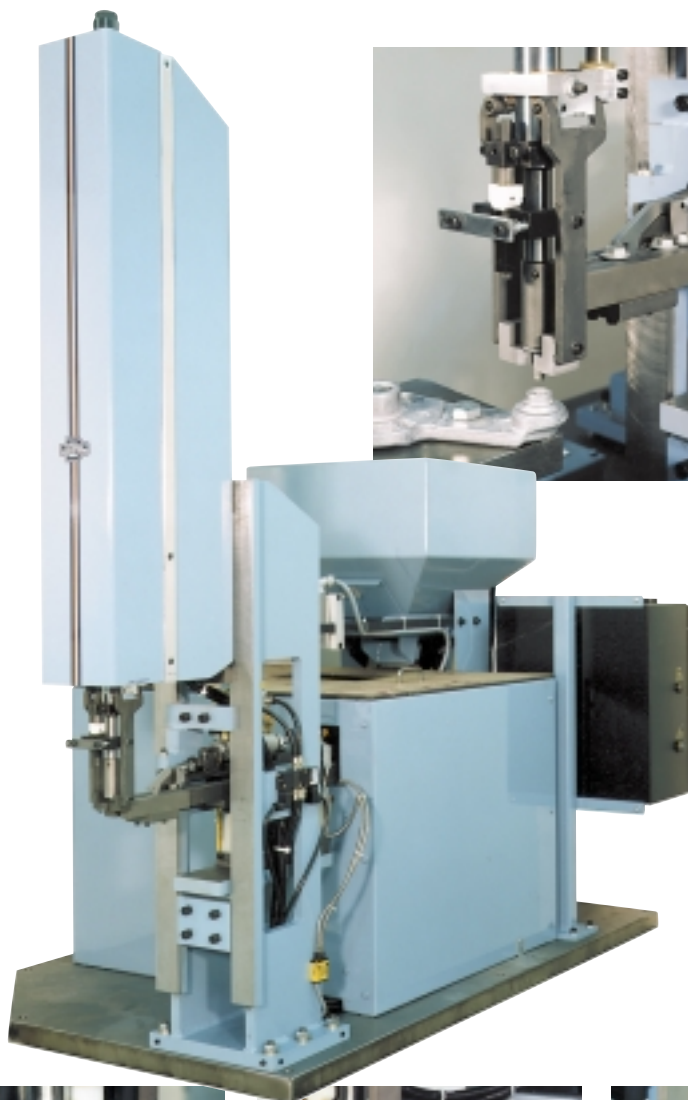




Model SD-164 High Torque Screw/Nut Driver

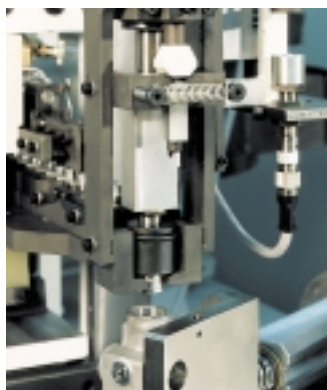
The Model SD-164 Screw/Nut Driver is available with 3 inch (76mm), 4 inch (102mm), and 5 inch (127mm) stroke drive spindles. The high torque head can be finished with a range of driving speeds and torque capacities using either DC electric or pneumatic motors. A torque sensing control verifies when a fastener is properly driven during each driving cycle. The driving head has a torque range up to 122 ft. lbs. (165 Nm). Available tightening options are: mechanical clutch, stall torque, DC electric torque control and angle control.

Fasteners are oriented and fed from a vibratory bowl feeder. The bowl size is selected to suit the fastener being fed. The fasteners are fed into an inline vibratory feed track to an escapement mechanism. The escapement transfers one fastener at a time into the placement jaws of the driving head. The placement jaws hold the fastener in position until the threads are engaged in the workpiece. The placement jaws are then opened mechanically.



Model SD-164 Driver tooled to drive a 5/16-20 x 7/8 inch long oversize hex washer head bolt into a die cast aluminum component. The bolts are driven to a 20 ft.-lbs. (27 Nm) torque setting.

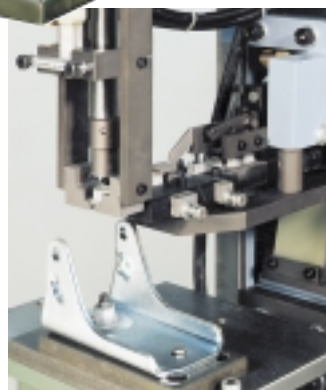
Model SD-164 High-Torque Screw/Nut Driver complete with DC electric motor, vibratory feed system, and with optional sound enclosure, supply hopper, and torque monitoring controls.



Model SD-164 Driver with DC electric motor/torque transducer tooled to control the torque development using angle controlled tightening method. The port plugs are driven into a combo valve at 20 ft.-lbs. (27 Nm) torque. The driving head is equipped with an optional depth sensor.



Model SD-164 Driver with DC electric motor/spindle torque transducer and controller. The driver is tooled to drive a M10 dog point set screw into a fuel injector body at a 8 ft.-lbs. (10.8 Nm) torque setting.



Model SD-164 Driver complete with pneumatic motor, torque transducer, and control monitor to display dynamic torque applied to the hex nut being driven into a hinge mounting stud. The hex nut is fed and driven onto a hinge mounting stud at a 26 ft.-lbs. (35 Nm) torque setting.



Model SD-164 Driver with pneumatic motor, pressure switch and tooled to feed and drive a M8 hex nut onto the shank of a coupling assembly. The nut is driven to a stall torque setting at 21.7 ft.-lbs. (29 Nm).

Model SD-164 High Torque Screw/Nut Driver

Driving Head Features:

Air Motor (Standard)

Single direction or reversible 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. Standard proximity switches are 24 VDC (PNP) pre-wired. Other voltages and switch styles optional.

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), **good-part** (forward).

Head Cover

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

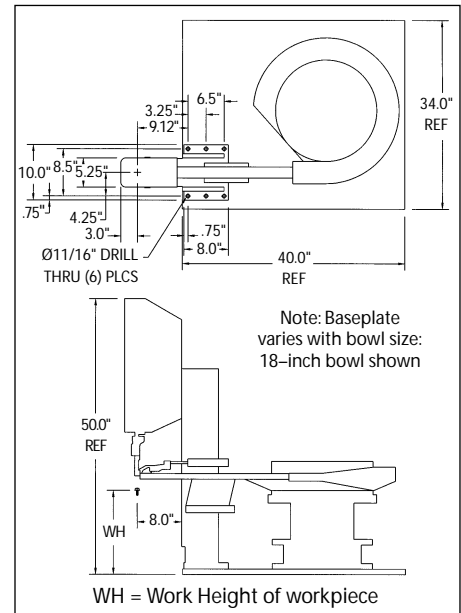


Model SD-164



Model SD-164 Driving Head

Dimensional Data



NOTE: We reserve the right to make further technical changes without notice.



Typical Bowl Feeder



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