



Model SD-200 Screwdriver

Radial Arm and Stationary Applications

The Dixon Model SD-200 Screwdriver combines a driving head, escapement, rotary screw hopper and track into one integral unit, and can be stationary mounted, or mounted on a cantilever arm. The Screwdriver can be pneumatically or electrically controlled, and is manually initiated by either a remote stylus control, palm buttons, or foot switch. The hopper is actuated by mechanical linkage during each operating cycle. An electric motor driven hopper is optional. A vibratory bowl could

be substituted on stationary applications.

During each cycle, a mechanically operated escapement transfers one screw at a time from the track to the placement jaws. The driving head has a 3-inch stroke. The first 1/2 inch of travel is used to engage the fastener into the screwdriver's jaws or collet. The remaining 2 -1/2 inches are active stroke.

When the screwdriver is attached to the optional cantilever arm bracket the

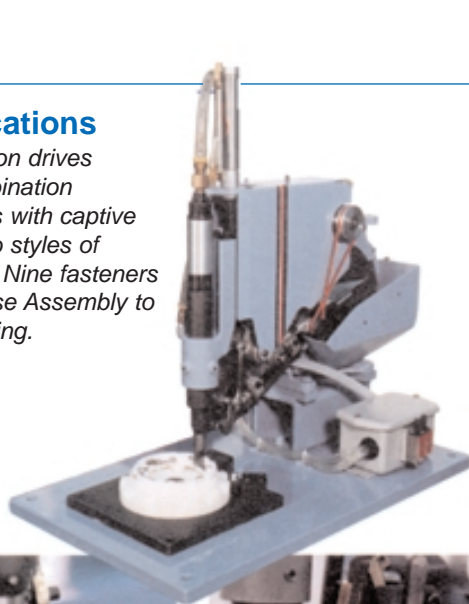
screwdriver can be easily raised or lowered to suit various work heights as required for the workpiece and fixture.

Benefits

- Meets ergonomic issues and reduces operator fatigue.
- Straight vertical motion of driving head reduces cross threading
- Ensures fast and positive alignment of screw holes when used with optional cantilever and template.
- Ideal for smaller fasteners.

Stationary Applications

This stationary application drives M3.5 x 8 mm long combination slotted pan head screws with captive square washers into two styles of Smoke Detector Bases. Nine fasteners are driven into each Base Assembly to a 6 inch lbs. torque setting.

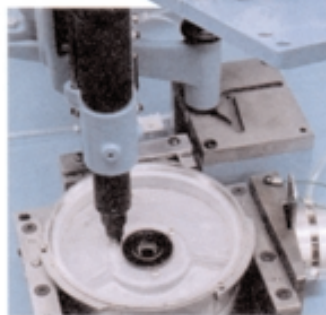
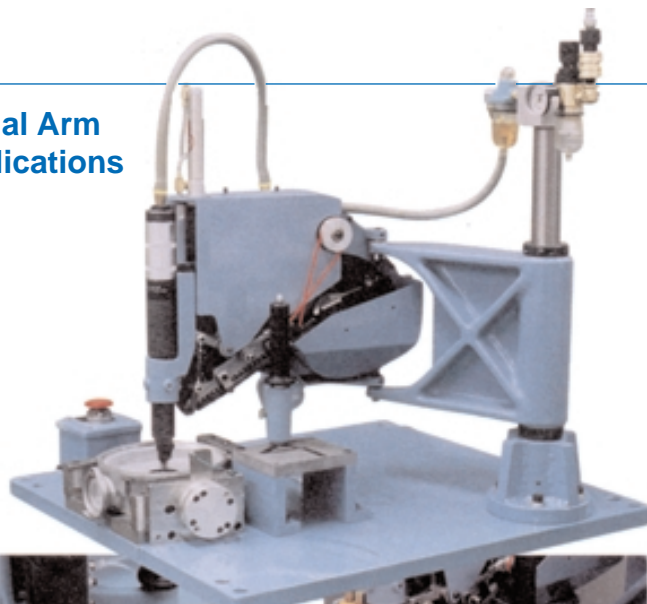


A stationary Model SD - 200 application to drive a M4 x 12 mm long combination slot/cross recess pan head screw with square captive washer into Terminals Blocks. The fasteners are driven to a 4-inch lbs. torque setting.



A view of the escapement fingers transferring a fastener with a captive lock washer from the track to the vacuum placement tooling. The vacuum tooling shown allows for a near zero clearance application in the workpiece.

Radial Arm Applications

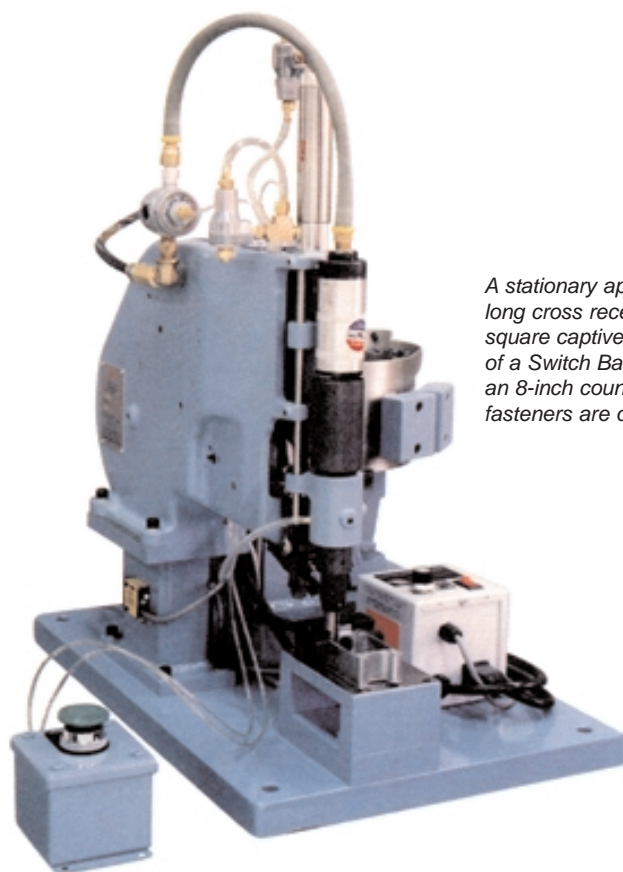


A Radial-Arm screwdriving application tooled to drive three #8 cross recess pan head screws into an End Bell Assembly to a 20-inch lbs. torque setting.



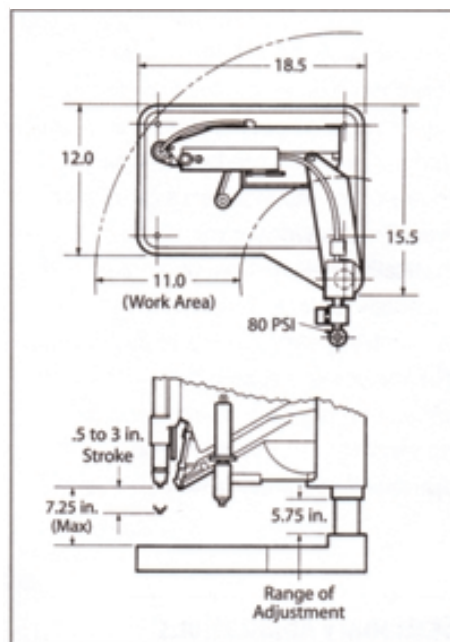
A Radial-Arm screwdriving application tooled to drive six #4 Cross recess pan head screws into a Bottle Warming Housing. Four fasteners are driven inside the housing and two fasteners attach the housing cover. The fasteners are driven to a 10-inch lbs. torque setting.

Model SD-200 Screwdriver



A stationary application to drive #6 x 3/8 inch long cross recess pan head screws with square captive wire clamps into the bottom of a Switch Base. The fasteners are fed from an 8-inch counterclockwise feeder bowl. The fasteners are driven to 30-inch lbs. torque.

Dimensional Data for Radial Arm Application



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

Specifications

Screw sizes	No.0 through No.10 (5 mm) up to 1 inch long (25.4 mm)
Driving Stroke	2.5 inches
Torque Range	5 to 75 inch-lbs. (.06 to 8.5 Nm)
Motor Speeds	400-2500 rpm (free speed)
Hopper Capacity	45 cubic inches
Bowl Feeder	8-inch Diameter (CCW)
Operating Cycles	Up to 60 cycles per minute

Power supply	80 psi air supply-optional electrical power 115 VAC 60 Hz
Air Requirements	8 to 18 cubic feet per minute (cfm) typical. A free-running 2000-rpm air requires 18 cfm
Fixtures and templates	Optional to suit application
Filter-regulator lubricator unit	Furnished as standard



Main office and factory

DIXON AUTOMATIC TOOL, INC.

2300 Twenty-Third Ave., Rockford, IL 61104 U.S.A.

Phone: 815 / 226-3000 • Fax: 815 / 226-8613

E-mail: sales@dixonautomatic.com

www.dixonautomatic.com

For application review contact the Dixon factory or sales representative in your area.