

Dixon Automatic Tool

100 Series Screwdriver Head SD-111 Inline Vibratory Track/Bowl

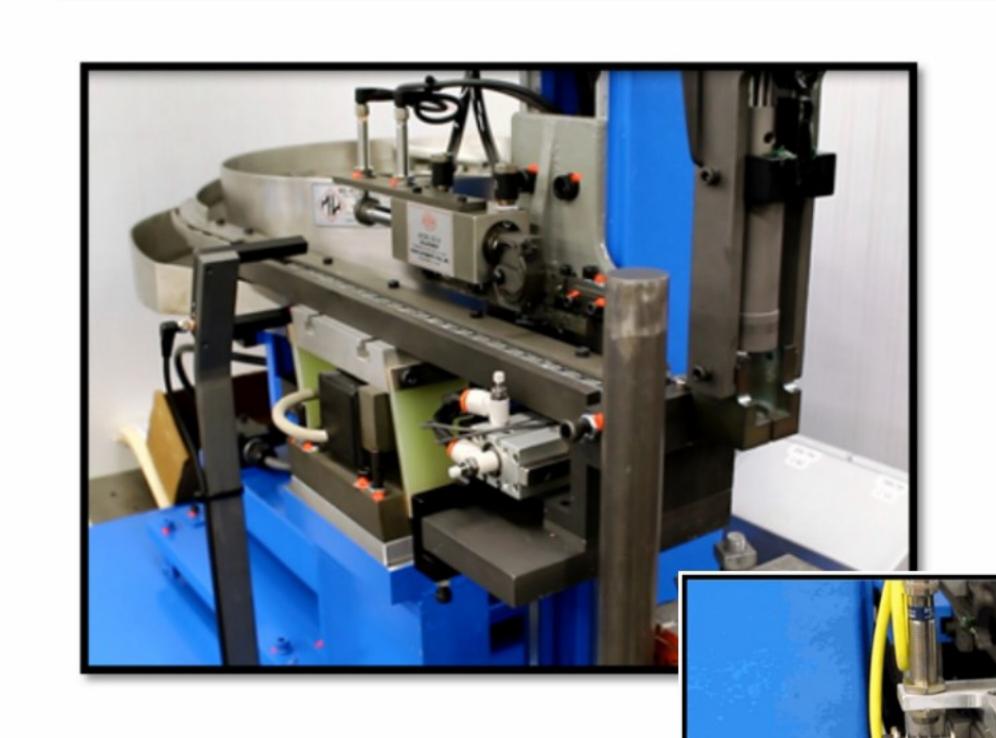


Fully automatic and equipped with a vibratory bowl feeder, a horizontal hardened vibratory feed track, support column, and transfer escapement that places each fastener into the screwdriver head's placement jaws. The placement jaws hold the fastener's threads in position until the fastener is engaged in the workpiece. The screwdriver head has built-in sensing to confirm proper insertion of each fastener into the workpiece. The baseplate size is determined by the size of the bowl feeder. This model is ideally suited for automated assembly systems.

Product Specifications

Piece Part Information	
Shank Diameter	#275 in. Screw (2.0mm - 63.5mm)
Shank Lengths	Max 4 in. (102mm)
Head Diameter	Max 1 in. (25.4mm)
Disc Shaped Parts	Max 2.5 in. dia. (64mm)
Feed Syste	m Information
Feed System	Vibratory Feeder Bowl
Bowl Size	6-36 in. (153-914mm)
Track	Vibratory Inline
Escapement	Transfer Escapement
Contains all opt	ions from base head

100 Series Screw/Nut Driving Head



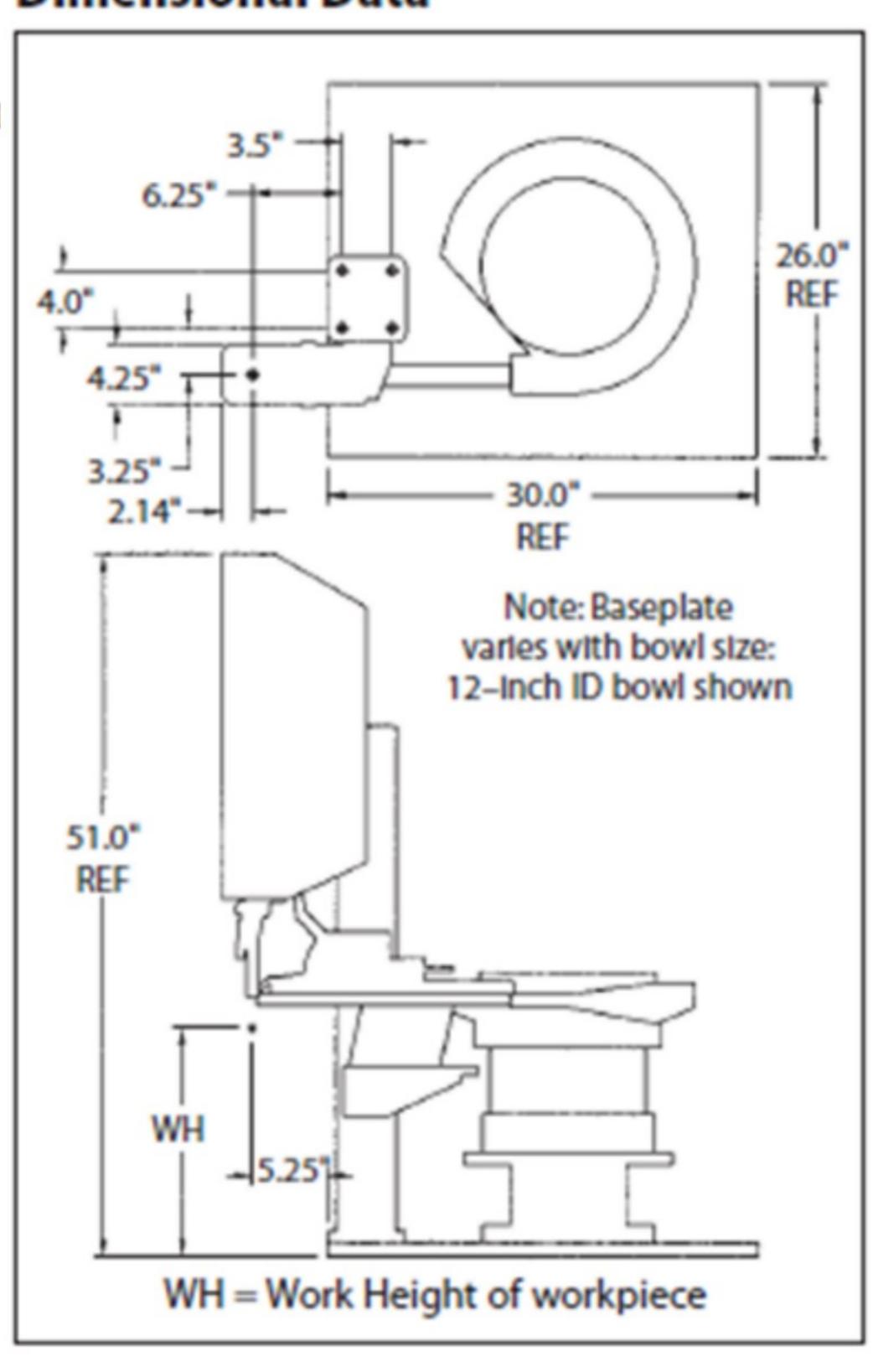


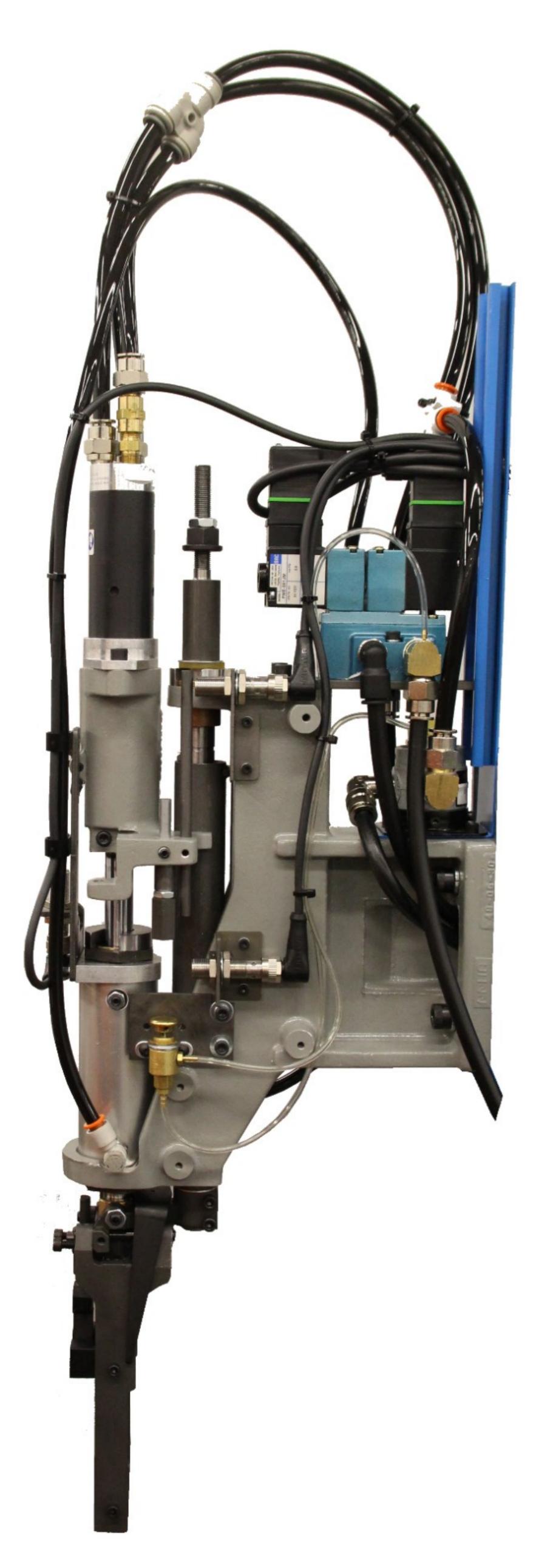
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100 Series Screwdriver Head

SD-100 Series Screw/Nut Driving Head - Standard features include a pneumatic motor with driving or reversible rotations, and selected for a range of speeds and torque capacities. Optional D.C. and servo motors are available. Pneumatic control valve with DIN connectors. Control switches also provide for the driving head to return and other auxiliary functions as may be required. The basic driving function starts the driving spindle to advance together until the fastener, held in the placement jaws, spindle and placement jaws advance together until the fastener engages the workpiece. The placement jaws are then forced opened by a cam as the driving spindle completes the fastener's insertion. Note: When vacuum is employed, the placement jaws are opened before the fastener is driven into the workpiece.

Dimensional Data





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Standard 100 Series Head Components		
Head Stroke	2 in., 3 in., 4 in., 5 in. (50.8 mm, 76.2mm, 101.6mm, 127mm)	
Torque	4-120 inlbs (.5-13.5Nm) STD. Up to 180 Optional	
MC-9 Control-Pac	Four-way Pneumatic Valve (24 VDC)	
Proximity Switches	24 VDC PNP Standard Others Optional	
Valves	24 VDC Low Watt Coils Standard Others Optional	
Depth Settings	Plus Minus 2 Standard +/- 1/2 Optional	
Drive to Depth	Yes	
Air Supply (PSI)	90 (6.3 Bar)	
100 Series Motor Components		
Pneumatic		
Clutches		
	2-20 inlbs (.23 to 2.8 N-m)	
	15-35 inlbs (1.7 to 3.9 N-m)	
	25-50 inlbs (2.8 to 5.6 N-m)	
	40 inlbs and above commercial air motor and clutch required, most manufactures supported.	
Pneumatic	250 to 3000 RPM	
DC Motor		
DC Electric	Transducer Torque Control or Torque/Angle Control All Brands	
Torque	4-180 inlbs (.5-20.34Nm)	
Servo Motor		
Current Sensing Torque Control	Servo Motor	
Torque	4-180 inlbs (.5-20.34Nm)	

www.dixonautomatic.com