



DIXON AUTOMATIC TOOL, INC.

Products for Automated Assembly

Model AP-110 Part Placer



The Model AP-110 Part Placer is ideally suited for automated assembly systems. It is fully automatic and equipped with a vibratory bowl feed system, inclined hardened feed track, transfer escapement, support column, and interlocking controls. The placement head has built-in sensing to confirm proper placement of each piecepart. The placement jaws hold the piecepart in position until the piecepart is engaged in the workpiece. The AP-110 provides a pressing force of 38.6 kilograms (85 pounds). A larger cylinder can be installed to increase the pressing force to 79 kilograms (175 pounds) depending on the placement force requirements. The baseplate size is determined by the size of the vibratory bowl feeder. Control options can be selected to meet the requirement of each application.

Feed System Information

Feed System	Vibratory Feeder Bowl
Bowl Size	228.6-914mm (9-36 in.)
Track	Incline Gravity Fed Track
Escapement	Mechanically Linked Standard Optional Air Escapement

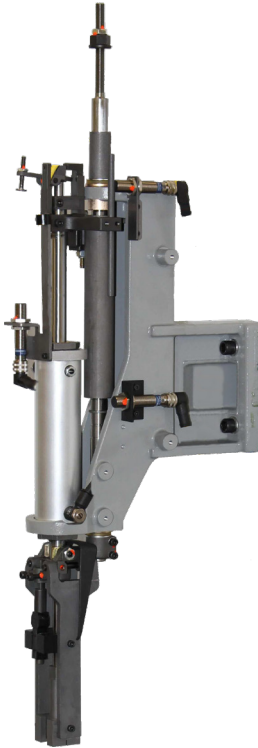
Piece Part Information

Shank Diameter	2.84mm - 6.35mm (.112 in. - .250 in.)
Shank Lengths	Max 38.1mm (1.5 in.)
Head Diameters	Max 14mm (.56 in.)

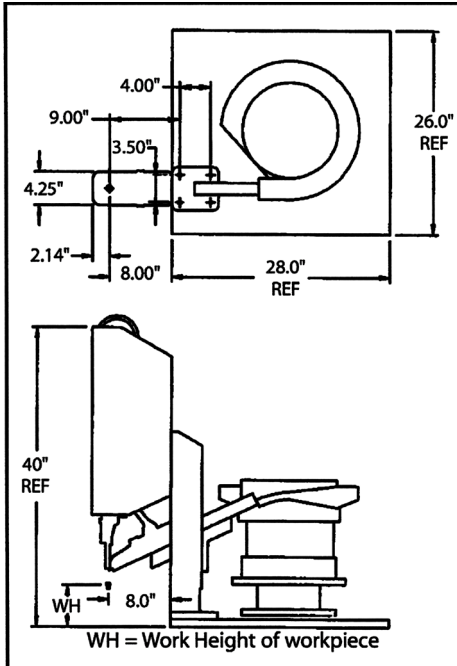


AP-110 Clip Tooling

AP-110 Part Placer Head



AP-110 Dimensional Data



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

CAD drawings are available

Note: Baseplate varies with bowl size:
12-inch ID bowl shown

Standard Head Features

Head Stroke	50.8mm, 76.2mm 101.6mm, 127mm (2 in., 3 in., 4 in., 5 in.)
Pressing Force	178-778N (40-175 lbs.) Standard Max 378N(85 lbs. Force) 38.1mm (1.5 in.) Cylinder Optional Max 778N (175 lbs. Force) 50.8mm (2.0 in.) Cylinder
Air Supply	6.3 Bar (90 PSI)
Proximity Switches	Std: 24 VDC PNP Others Optional
Valves	Four-way pneumatic valve (24 VDC)
Inline Load Cells Can Be Added	



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