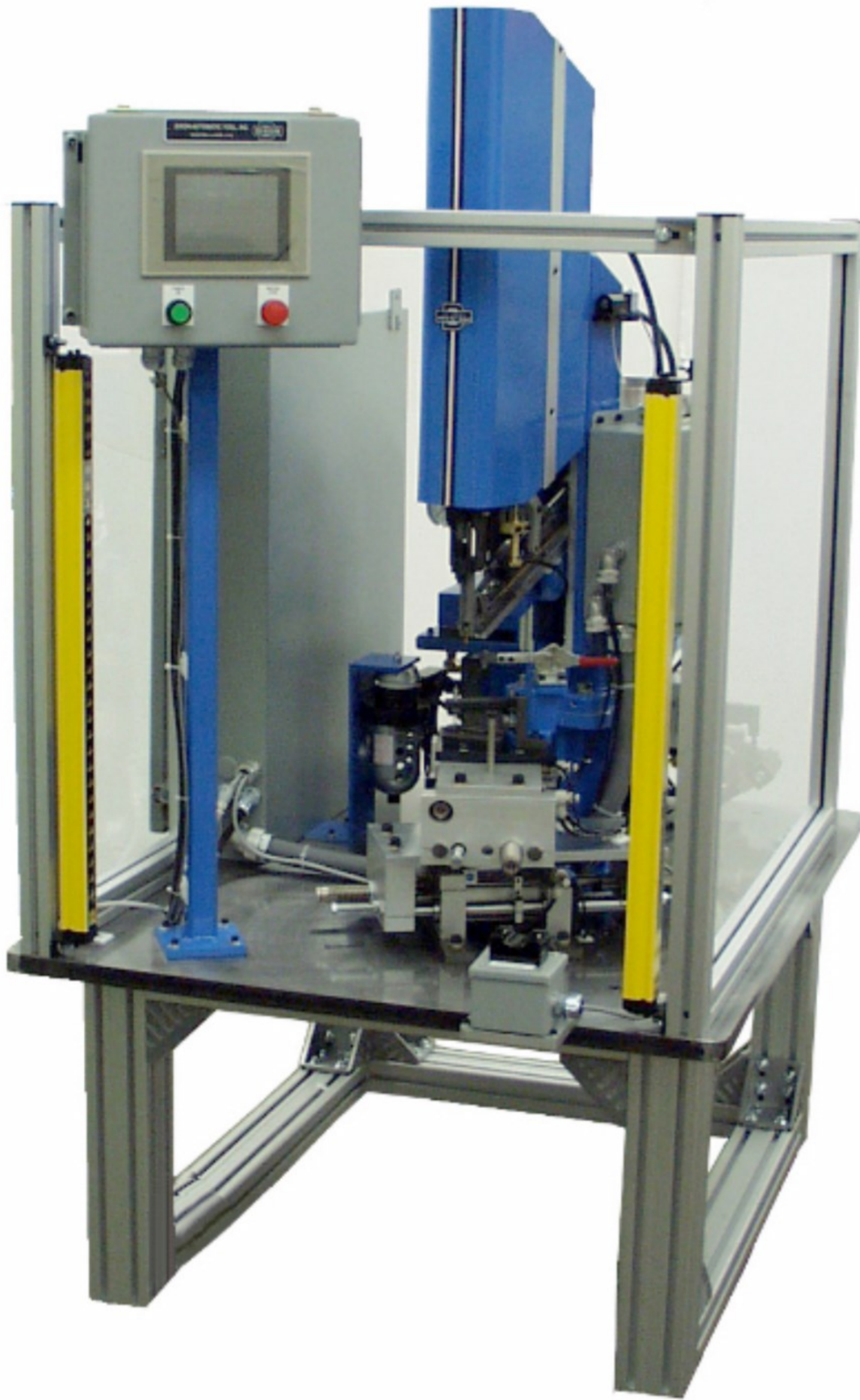




# Dixon Automatic Tool

## Assembly Cells

### Model 3300



The Model 3300 Screwdriving Cell is an ideal work station for semi-automated assembly operations. This work cell requires an operator to manually place and clamp the workpiece assembly into a holding fixture. The fixture is mounted on a pneumatic-operated three (3) positioned slide. The screwdriving cycle is initiated by the operator. Several different screwdriving heads can be used when the driving requirements are required. Vibratory feeder bowl sizes are determined by the size of the fastener. Light curtain sensors are suggested for all of our work cells.

- Complete with:  
Driving head, feed system, a programmable Cartesian Slides and Fixtures, machine base, guarding, and controls.
- Controls:  
- Servo System with Servo Controller  
- Touch Screen Panel  
- Easy Programmability  
- Standard Error Messaging  
- Nema 12 Electrical Enclosure
- Guarding:  
- Aluminum Extrusion Structure  
- Light Curtains  
- Mesh Guard Panels  
- One Opto-Touch Hand Tie Down

#### Cartesian Slide Features:

1. Can be tooled to drive fasteners into multiple work pieces
2. Ideally suited for applications requiring random placement of fasteners into a wide selections of work pieces.
3. Placement work area on the slides is 305mm x 305mm

#### Options And Accessories

##### Screwdriver Heads:

- Pneumatic Motors\*:  
- Adjustable Mechanical Clutch  
- Stall Torque Sensing
- DC Electric Motors:  
- Transducer Torque Control  
- Transducer Torque / Angle Control  
- Current Sensing Torque Control
- Servo Motors:  
- Velocity Control  
- Torque/Angle Control
- Depth Control Features:  
- Standard Proximity Switches Sense Forward And Return Positions\*  
- Analog Output Of Precision Depth Setting
- Driving Precision:  
- Torque Control  
- Depth Control  $\pm 1/2$  Turn  
- Depth Control  $\pm 2$  Turn\*

##### Optional Placer Heads:

- Strokes:  
- 50.8 mm - 200 mm
- Pressing Force:  
- 178 N - 889 N
- Pressing Depth Precision:  
-  $\pm 0.063$  mm (Fastener Dependent)

##### Specifications:

- Voltage Standard (120V 60Hz)
- Air Supply (80-100 psi)

##### Controls\*:

- On Screen Coordinate Programming
- Built In Error / Troubleshooting Functions
- Andon Stack Light
- Ready Light To Enter Light Curtain
- Diagnostics Including Password And I/O Diagram
- PLC Controlled
- Modem Access (Optional)

##### Feeder Bowls:

- Drum Fed
- Vibratory Feeder

Feeders are selected based on the customers part requirements. Feeder bowls up to 533 mm.

##### Nesting / Fixturing:

- 305 mm x 305 mm Cartesian Slide Work Area
- Total Fixture and Part Weight Up To 4.5 kg For Typical Motion Profiles

##### Base With Adjustable Feet\*:

- Leveling Feet
- Welded Construction
- Ground Mounting Surface

Base sizes up to 1219 mm x 1676 mm. Size is determined by bowl size in conjunction with Customer Target part size

\* Indicates standard equipment