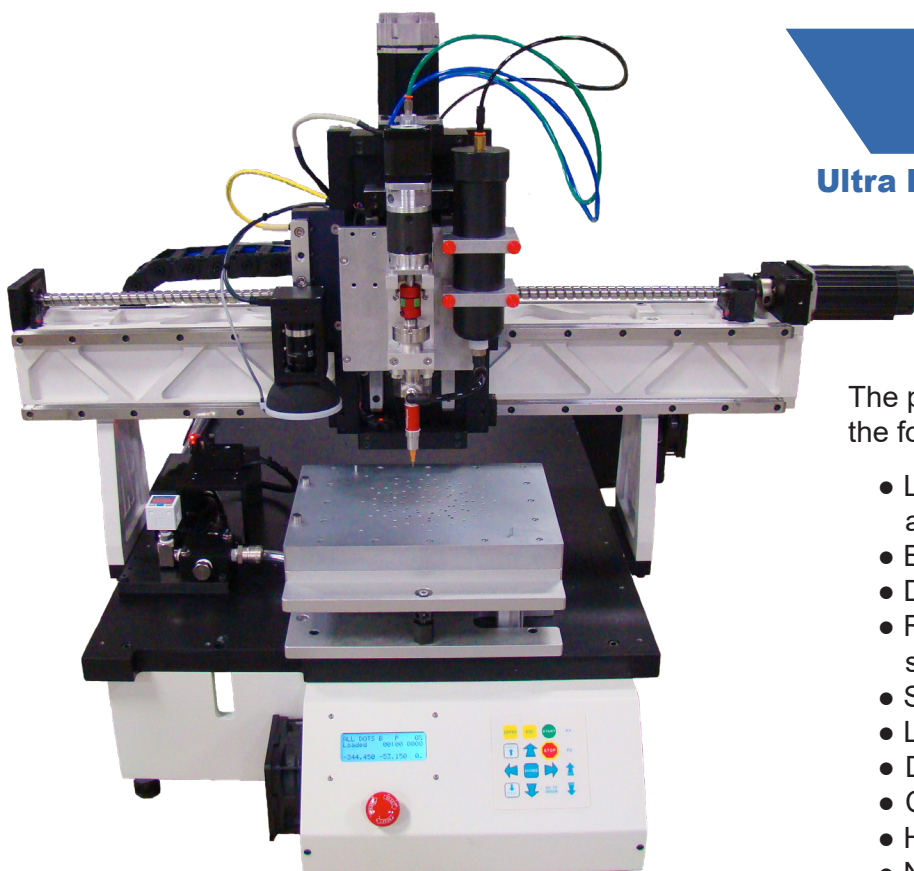




Progressive Cavity Pump Dispenser

Ultra Precise Patterns for Conductive Paste

Customer required accurate and repeatable conductive paste deposits onto their substrate.

The popular RPX Series machine was chosen for the following:

- Large precision ground base plate for accurate & stable fixturing
- Brushless digital servo motors
- Dual (linear) encoder system
- Rigid pre-loaded ball screws and ball slides in each axis
- Six axis motion control capability
- Latest embedded control technology
- Dual USB Ports & Network LAN connectivity
- CF card memory storage
- Hundreds of pre-programmed functions
- No PC required
- No external dispenser controller required

Custom Designed PC Pump System

A special positive displacement pump was constructed to allow accurate and repeatable deposits of lines, dots and shapes directly imported from CAD file(s).

This pump was controlled by the main motion processor as a 4th axis to allowing “real time” vector tip following of the XY axes. This means consistent bead widths regardless of speed and acceleration changes of the robot.

System includes PC pump with 6oz cartridge tank, vision system, an automatic XYZ tip calibration station, vacuum table integration (with mechanical retracting pins) and a tip purging / wiping / cleaning station.

