



Motorized Z Pneumatic Inker

Push-button Z Height Adjustment with Small Dot Mode for High Volume Off-line Inking

The innovative Motorized-Z design combines an operator friendly, fast and precise Z adjustment, with an internal dual air regulation system to provide the first dependable high-speed small dot capability available in a pneumatic inker. The Motorized-Z is suitable for off-line and cabled-in in-line applications on Electroglas and KLA/TEL probers.

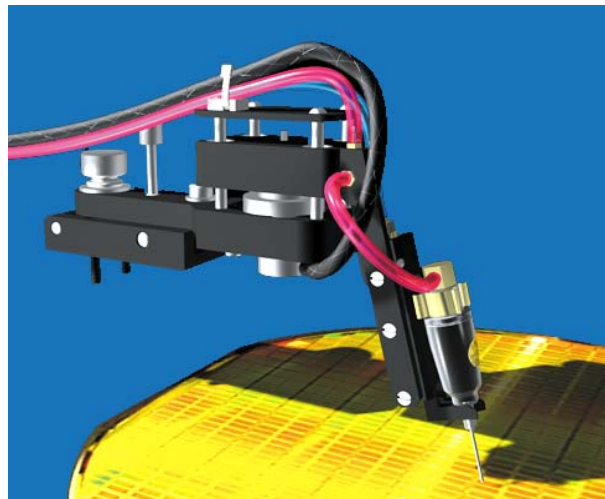
Motorized-Z inkers incorporate the convenience of DieMark™ cartridges with the reliability of a microprocessor controlled pneumatic dispensing system for the ultimate inking solution. Ink dots are deposited via pneumatic actuation of the inker shuttle mechanism and a simultaneous pulse of air into the cartridge reservoir. There is no filament and no direct contact with the wafer surface.

As the shuttle extends to the downward position, the air pulse to the cartridge forces ink out of the cartridge barrel and forms a drop at the end of the needle tip. When the shuttle is at its lowest position, the drop makes contact with the wafer surface and forms a dot.

The dot size is determined by cartridge air pulse duration, adjusted via the controller settings. Depending on the ink cartridge model, ink type and dot size mode selected, a 6 mil* to 50 mil* dot is possible.

The Z-UP and Z-DOWN buttons on the controller enable motorized adjustment of the inker Z height in 0.0005" increments each time either button is depressed. This fast, precise method of setting inker Z height simplifies and shortens setup time.

* All ink dot characterization testing performed at ambient temperature of 70° degrees F, relative humidity of 50% using polished, unetched silicon wafers (no passivation)



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Key Features & Benefits

- ▶ Operator friendly, fast and precise setup
- ▶ Variable dot size – 6 mil* to 50 mil*
- ▶ Accurate and repeatable pneumatic inking system increases reliability and reduces ink related rework
- ▶ High speed ink dot deposition – up to 10 dots per second
- ▶ Programmable dot counter with audible alarm



Motor-Z Pneumatic Controller

