

PRODUCT INFORMATION: DISPENSEJET® DJ-100 JET

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HIGH-SPEED JET DISPENSING

Asymtek's jetting solutions are the preferred way to dispense a large variety of fluid types quickly and accurately. The new DispenseJet® DJ-100 family of piezo-electric jets further expands Asymtek's jetting solutions. Incorporating over 15 years of jetting experience, the DJ-100 series of jets offers unique advantages to Asymtek's line of jetting products.

Jetting offers many benefits over traditional needle dispensing to deliver speed, quality, flexibility and low cost of ownership.

Speed:

- Patented "Jet-on-the-Fly" technology. In operation, the jet "flies" over the part or substrate, and shoots precise volumes of fluid in dots, lines and patterns. High flow rates up to 200 mg/second; high shot rate up to 150 dots per second; no Z-axis motion

Quality:

- Patented Calibrated Process Jetting™ (CpJ) process control feature utilizes weigh scale feedback to maintain consistent dispense volume
- High wet-dispense accuracy; smaller wet-out areas; round, uniform dots; improved line quality with no "dog-bones" and improved knit line.

Flexibility:

- Patented "Dot-on-Dot" process technology Low Cost of Ownership. Jetting multiple shots in the same location creates larger dots.
- Lines and complex shapes are constructed from adjacent dots.

Avoid common problems: No bent needles; no chipped die; no dripping; reduced part interference; no effects from warping; no corner build-up.



Features & Benefits:

- Simple to use and operate
- Capable of jetting from dispense gaps greater than 3 mm
- Piezo-electric drive technology
- Fast – jetting eliminates z-axis motion
- Accurate – jetting is highly repeatable
- Dot diameter as small as 200 µm (0.008 in.)
- Low Cost of ownership

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Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com

DJ-100 SPECIFICATIONS:

TYPICAL APPLICATIONS:

DJ-100 (200 & 300 μm nozzle sizes available)

- Viscosity ranges from 1-200,000 cps
- UV-cure adhesives
- Surface Mount Adhesives

DJ-100 NC (100 & 150 nozzle sizes available)

- Viscosity ranges from 1-1000 cps
- Low viscosity, water like fluids
- Bio Reagents
- Flat Panel Display ODF

DJ-100 GH (200 & 300 μm nozzle sizes available)

- Viscosity ranges from 1000 – 500,000 cps
- Surface Mount Adhesives
- Corner & Edge bonding Adhesives

JET:

Weight: 290 g (without syringe)

Syringe: 5, 10, 30 or 50 cc

FLUID PRESSURE:

Fluid Pressure: 0.3-2 Bar (5-30 psi)

NOZZLE:

Orifice Diameter: 0.100 to 0.300 mm (0.004 to 0.012 in.)

Shot Size: as small as 0.0010 μl (1.0 nl)

SERVICE:

Offline Cleaning: Takes about 15 minutes.

Cleaning fluids: Use only solvents compatible with the fluids being dispensed, as specified by the material supplier.

Valve comes with protective case, cleaning kit, and spare o-ring seals.

CONSUMMABLE PARTS:

Includes: low cost o-rings



You'll benefit from capabilities beyond traditional needle dispensing:

- ✓ Jets in tight spaces as small as 175 μm
- ✓ Small fillet sizes as small as 250 μm
- ✓ Dot diameter as small as 200 μm
- ✓ Shot volumes as small as 1.0 nanoliter
- ✓ Jet stream size as small as 50 μm
- ✓ Slim design increases dispense area.

Platform Compatibility:

- Spectrum™ S-900 series
- DispenseMate® D-5xx series
- Spectrum™ S-820 series
- Axiom™ X-1000 series

Please contact us for the name of your local representative.

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Contact Asymtek for your specific application requirements.

Asymtek is ISO 9001:2000 Certified
Intel's 2003-2007 SCQI award winner

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