

PRODUCT INFORMATION: DISPENSEJET® DJ-100 LC JET

DISPENSEJET® DJ-100 LC JET

HIGH-SPEED PIEZO JET DISPENSING FOR LIQUID CRYSTAL FLUIDS

Dispense liquid crystal (LC) fluids quickly and accurately with the DJ-100 LC jet. Cleanroom-compatible, fast and highly accurate, the DJ-100 LC jet is based on Asymtek's standard DJ-100 NC design.

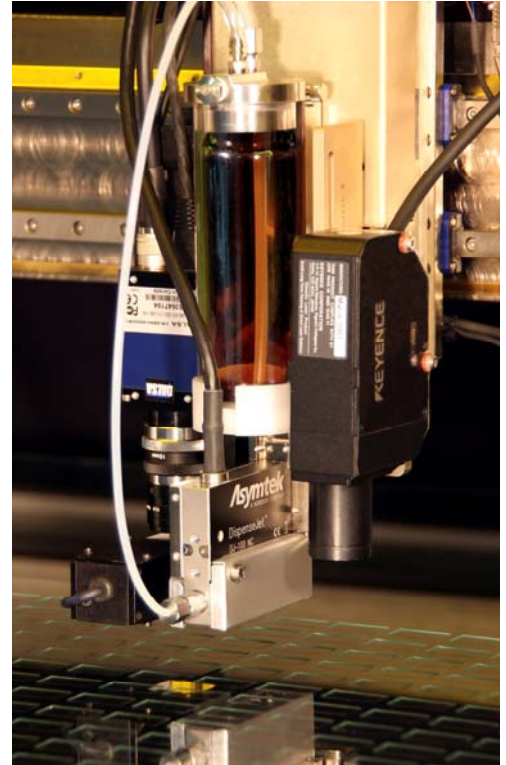
Jetting offers advantages over other LC dispensing methods and delivers better quality, increased flexibility and a low cost of ownership.

- **Speed:** High flow rate – 50 mg or more per second with a high shot rate up to 1000 dots per second.¹
- **Fluid Handling:** Bottled LC material is fed directly rather than first transferred to a syringe, eliminating potential contamination and minimizing fluid waste.
- **Set up and Maintenance:** Quick and easy to set up and clean in ten minutes or less. Minimal wetted parts.
- **Quality:** High wet-dispense accuracy; multiple dots jetted precisely where needed for One Drop Fill (ODF) of liquid crystal material.
- **Avoids common hidden expenses:** Easier and cheaper to operate.

DJ-100 LC jet advantages when combined with Asymtek's G-4000 platform:

- Piezo-drive technology allows faster and more precise jetting for LC ODF.
- Jets small dots that promote wetting and allows for complex patterns impossible with other valves.
- Automatic nozzle cleaning and purge.
- Calibrated Process Jetting (CpJ™) ensures volumetric repeatability during long production runs to improve process capability (Cpk). Dispense patterns are programmed with a specified weight. CpJ periodically samples the dispense weight per dot and computes the number of dots for each pattern. With this data, CpJ optimizes line speed based on the maximum specified shot interval.

¹short bursts



FEATURES & BENEFITS:

- ± 0.5% dispense weight accuracy
- Up to 16 times faster than other valves
- Eliminates complex setup associated with multiple pump configurations
- Designed for LC fluids
- Fewer disposable parts
- Avoids contamination of LC fluids while feeding to the jet

Packaging - Processing

Bid on Equipment

1-847-683-7720

www.bid-on-equipment.com

Asymtek®
A NORDSON COMPANY

DJ-100 LC JET SPECIFICATIONS:

JET:

Weight: 290 g (without peripherals)
 LC Bottle Feed: Merck: 100 cc; Chisso: 100 cc
 Compatibility: Asymtek's Series G-4000, Axiom™ and Spectrum™ 800 & 900 Series

AIR PRESSURE:

Fluid Pressure: 3-173 kPa (0.5-25 psi) recommended for LC

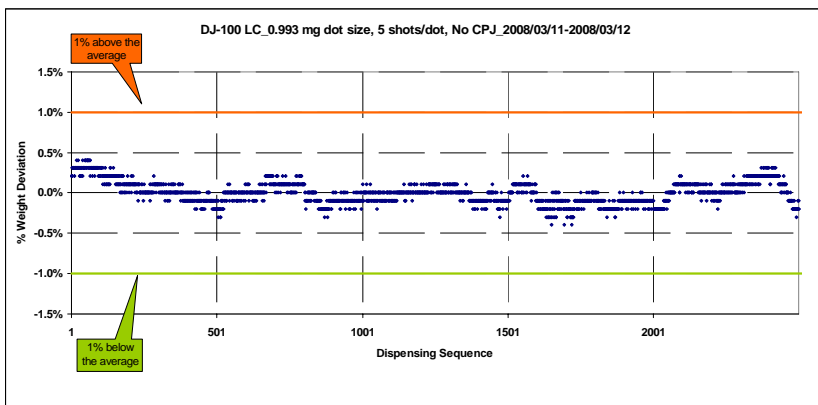
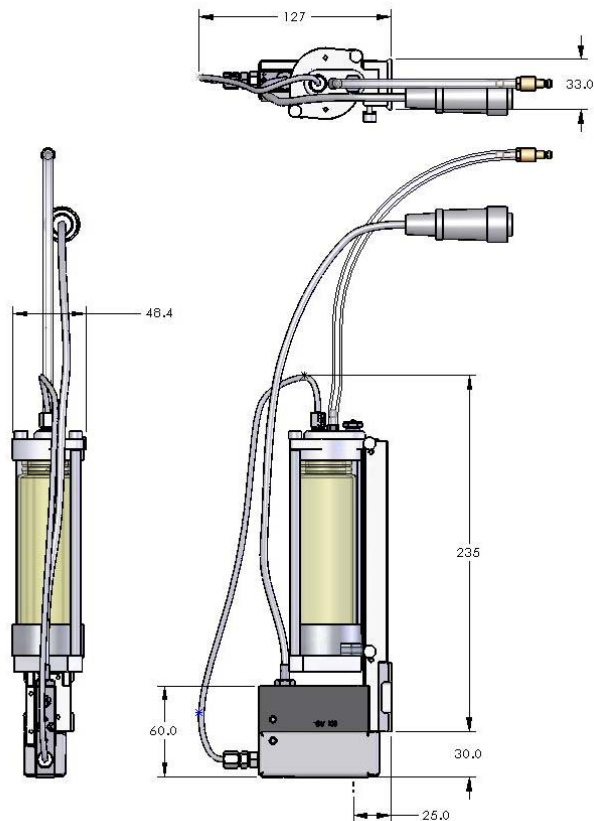
CONSUMABLES:

Includes: Seals, fluid feed tube

OPERATION:

How it Works: In operation, the jet "flies" over the panel, and using a patented high-speed mechanism, shoots precise volumes of fluid in dots, lines and patterns. Patented dot-on-dot technology creates larger dots. Lines and complex shapes are constructed from adjacent dots. Dispensing consistency is improved with active temperature controls.

Small-volume Wetted Path: Only a small volume of fluid is consumed during cleaning (1.5 cc).



Asymtek®, Axiom™, Spectrum™, DispenseJet®, and CpJ™ are registered trademarks of Asymtek. Asymtek reserves the right to make design changes to products to improve their function. These changes may occur between publications.

Contact Asymtek for your specific application requirements.

Asymtek is ISO 9001:2000 Certified

Intel's 2003-2007 SCQI award winner

©2008 Asymtek Published June 2008

Please contact these locations for the name of your local representative:

HEADQUARTERS

2762 Loker Avenue West
 Carlsbad, CA 92010-6603 USA
 U.S. Toll Free: 1-800-ASYMTEK
 Tel: (760) 431-1919
 Fax: (760) 431-2678
 Email: info@asymtek.com

INTERNATIONAL SALES

Europe: +31 (0) 43-352-4466
 China, Guangzhou: +8620-8554-9996
 China, Shanghai: +8621-5854-2345
 Japan: +81 (0) 3-5762-2801
 Korea: +82-31-765-8337
 S.E. Asia: +65 6796-9514
 Taiwan: +886-229-02-1860