

TRIDENT *INKJET FOR* PRINTABLE ELECTRONICS

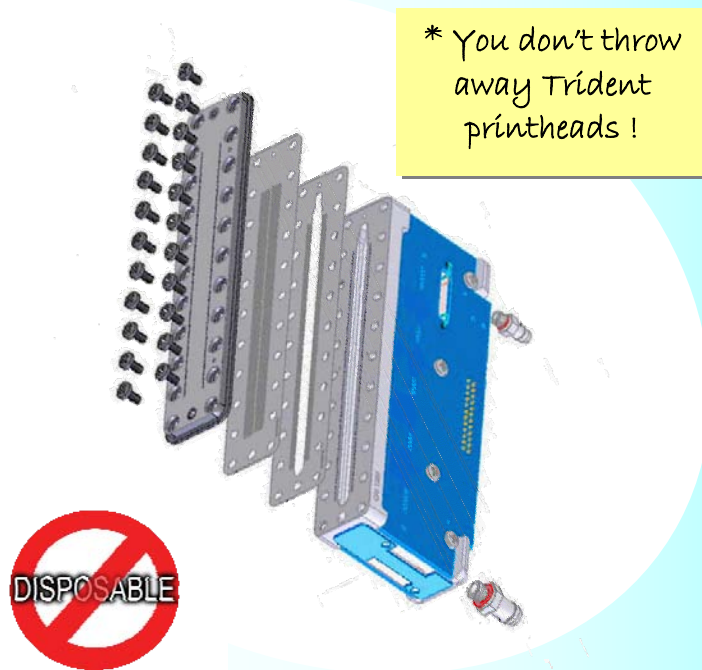
Up to 5 times higher resolution than screen printed electronics !

Trident offers two printheads specifically designed for these applications:

- **PixelJET[®] 64**
- **256JET[™] D**

Unique Features include:

- 256 or 64 Individual orifice jetting.
- Industrial stainless steel construction, inert to corrosive fluids.
- Removable, cleanable, & repairable * stainless steel nozzle plate.
- Long printhead life.
- Highly accurate and flexible design.



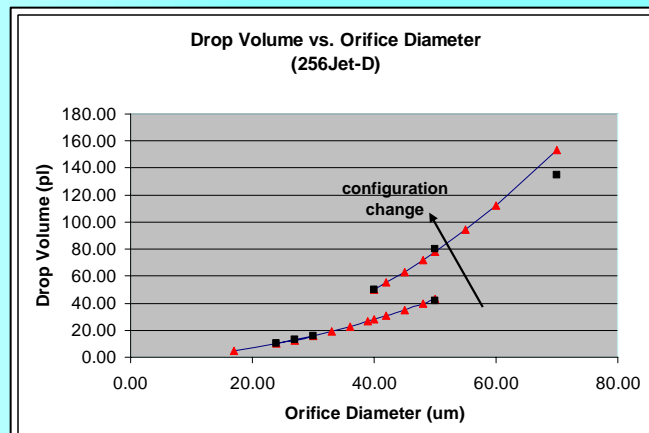
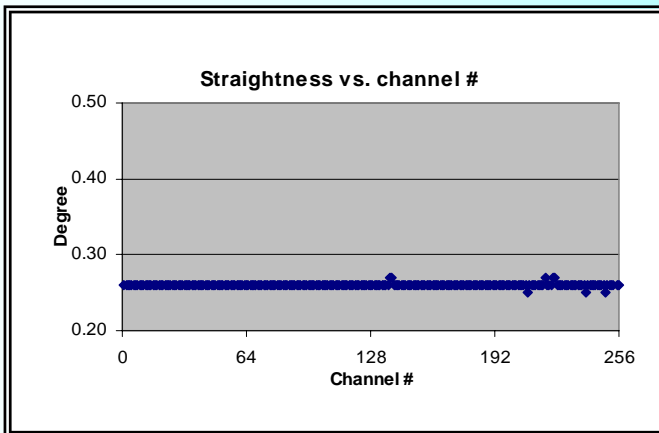
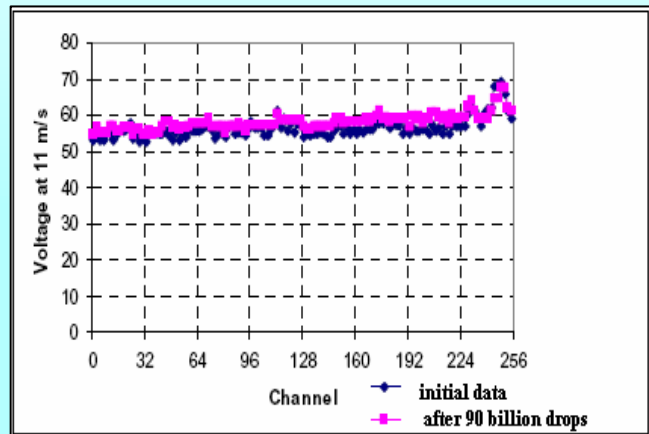
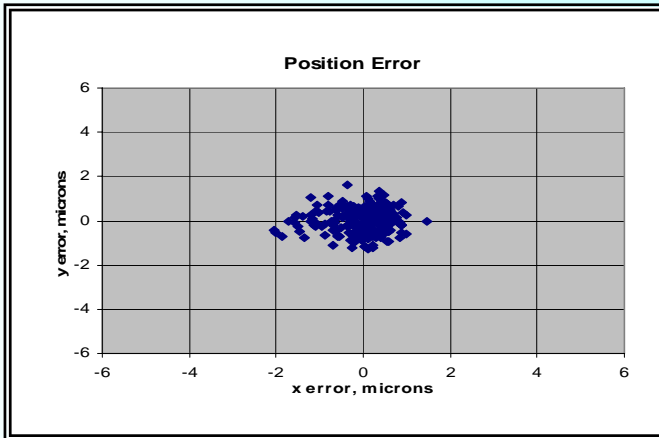
These two print heads can be used with Trident's optional calibration electronics which are capable of individually adjusting the waveform and drive voltage of each of the 256 or 64 channels involved in jetting of fluids.

Trident has been a world leader in the design and manufacture of industrial, piezoelectric ink jet printheads for more than 20 years.

TRIDENT Inkjet for Printable Electronics

Specifications:

	256Jet	PixelJet
Number of addressable channels	256	64
Nozzle Pattern	Single row, inline	Single row, inline
Nozzle spacing	0.397mm	0.747mm
Native resolution	64 dpi	34 dpi
Drop Volume (per PH configuration)	7, 30, 50, 80 pL	7, 30, 50, 80 pL
Drop Velocity	5-8 m/s @ 1mm standoff	5-8 m/s @ 1mm standoff
Drive Voltage	< 90 Volts	< 90 Volts
Drop volume variation	±2% per jet	±2% per jet
Straightness	< 0.5 degree	< 0.5 degree
Maximum Frequency	10 KHz	10 KHz
Nozzle position accuracy	±2.0 µm	±2.0 µm
Operating Temperature	Up to 70 °C	Up to 70 °C
Fluid viscosity range (at jetting temperature)	6-14 cp	6-14 cp
Fluid surface tension range	25-35 dyne/cm	25-35 dyne/cm
Compatible jetting fluids	A wide variety of LEPs	A wide variety of LEPs
Life expectancy	100 billion jetting cycles	100 billion jetting cycles
Displacement accuracy excluding print system error	±7.5 µm @ 1mm standoff	±7.5 µm @ 1mm standoff
Physical dimensions (W x L x D)	43.2x134.6x114.3mm	28X71mmx73.7mm



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