



# NanoJet™ Free Standing Printer

## AEROSOL PRINTING MADE EASY

The NanoJet Free Standing printer is the industry leading aerosol-based solution for printed electronics applications, delivering superior performance for a variety of substrate shapes, ink types, and electronic requirements. The NanoJet Free Standing printer integrates IDS' highly reliable, next-generation aerosol printing technology into a fully functional printer providing improved print performance in a reliable, user-friendly configuration for production quality printing.

## Features:

- 400 x 300 x 100 mm travel
- Industrial CNC G-code control
- 300 x 300 mm heated vacuum chuck
- Plug and play installation
- Point of use aerosol generation
- Interchangeable ink cartridges
- Compact print head
- Reliable, easy operation
- Easy to clean
- Workstation computer
- Integrated chiller
- Integrated inspection camera
- Battery backup

## ADVANTAGES

### Superior Printing Performance

- Satellite-free
- Conformal
- High Accuracy

### Production-Oriented Solution

- Mean-Time Between Assist >8 hour
- Line width standard dev. <5% variation for key performance parameters: linewidth & resistance

### Ease of Use

- Reliable
- Quick material changeover



# Process Capabilities

## PRINT STABILITY

Demonstrated 8-hour unattended print stability

Ag nanoparticle ink

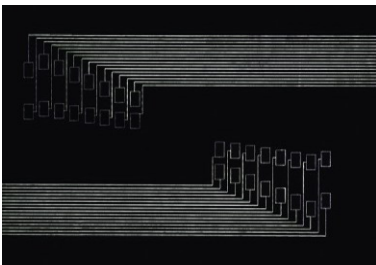
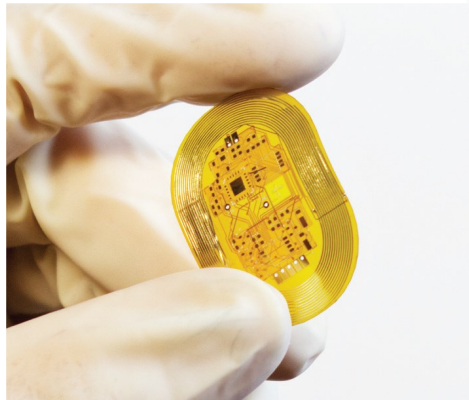
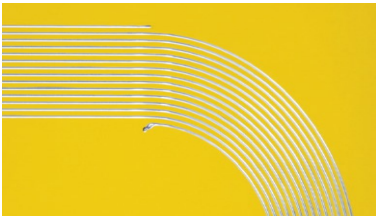
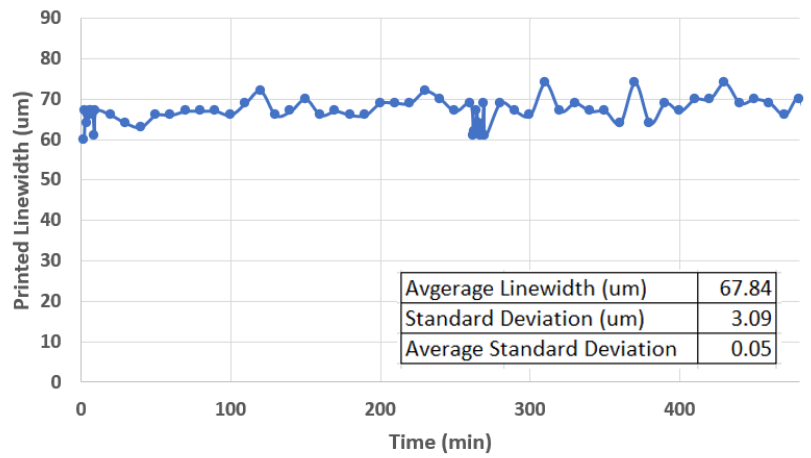
Continuous operation

## MEASURED PRINT PROPERTIES

Line width 50  $\mu\text{m}$   $\pm 4\mu\text{m}$

Resistance 73 $\Omega$   $\pm 5\Omega$

Output Study (8 hours)



## PROCESS ATTRIBUTES

Inks

Polymer, Metal, Resistive, Magnetic

Line

10 - 1000  $\mu\text{m}$

Single Pass Line Thickness

100 nm - 4  $\mu\text{m}$

Working Distance

2 - 10 mm

Print Speed

5 - 50 mm/s

## NanoJet™ Printer Utility Interface

**POWER** - 120/240VAC - 5/3A 50/60 Hz

**GAS** - Dry air or N2 - 10 psig/0.7 Bar, 200 sccm

**COOLING** - 2 lpm flow, 60 W min.

