



NanoJet™ Desktop Print System

AEROSOL PRINTING MADE EASY

The NanoJet Desktop Print System is the industry leading aerosol-based solution for printed electronics and biotech applications, delivering superior performance for a variety of substrate shapes, ink types, and electronic requirements. The NanoJet Desktop Print System integrates IDS' highly reliable next generation aerosol printing technology into a fully functional printer.

Features:

- 300 x 200 x 50 mm travel
- Industrial CNC G-code control
- 150 x 150 mm heated vacuum chuck
- Plug and play installation
- Point of use aerosol generation
- Interchangeable ink cartridges
- Compact print head
- Integrated inspection camera
- Reliable, easy operation
- Easy to clean

ADVANTAGES

Superior Printing Performance

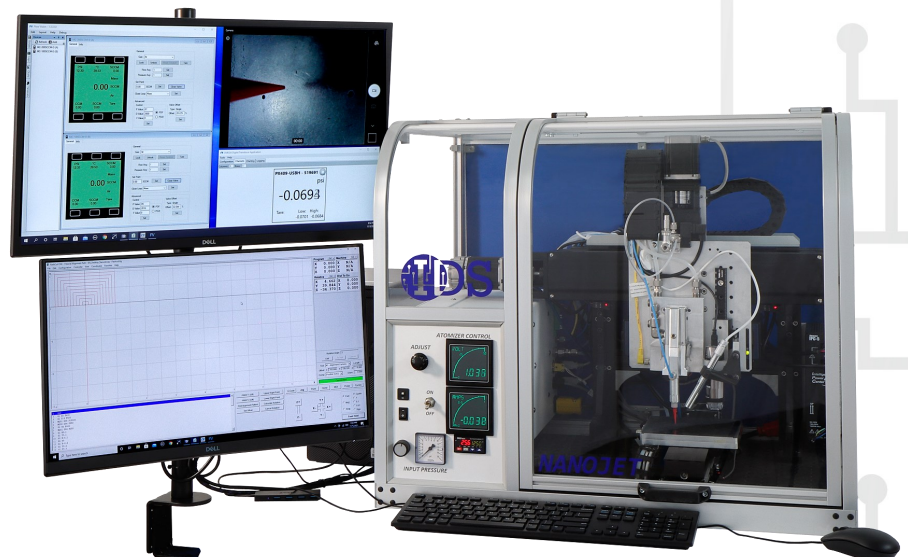
- Satellite-free
- Conformal
- High Accuracy

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



*computer and monitors not included in standard desktop configuration

Process Capabilities

PRINT STABILITY

Demonstrated 8-hour unattended print stability

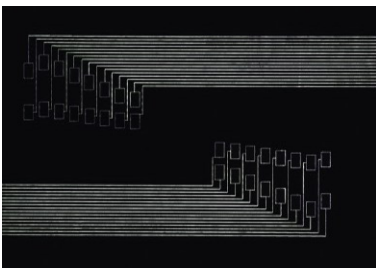
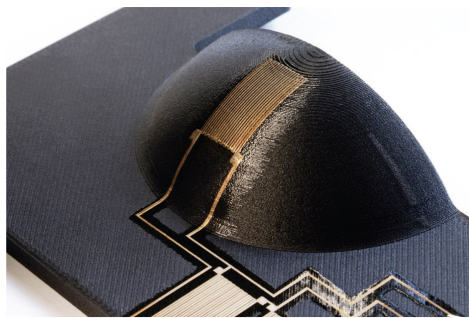
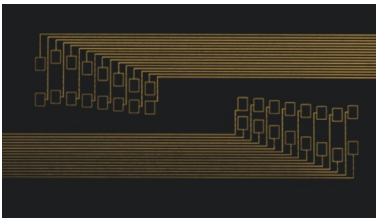
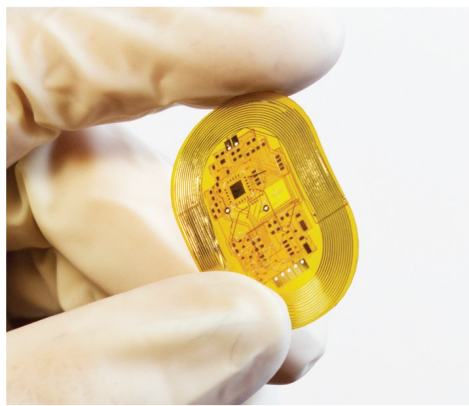
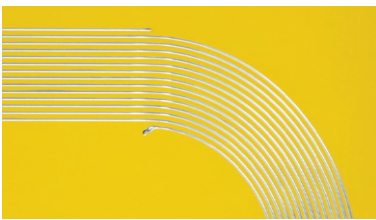
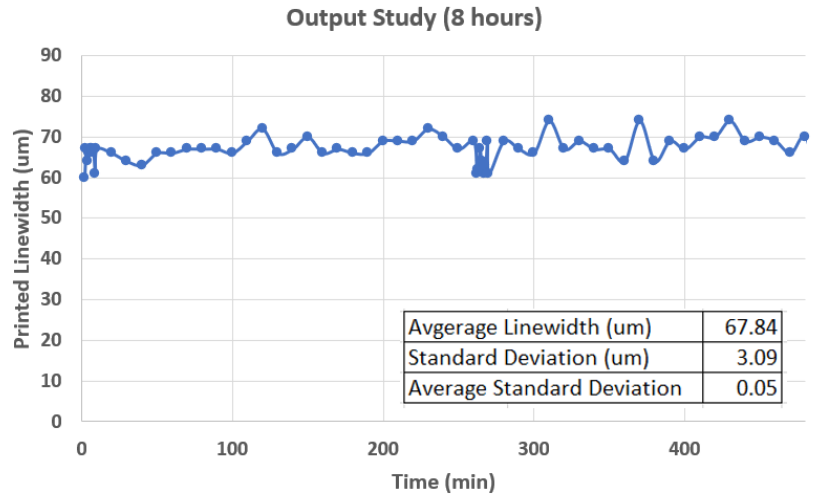
Ag nanoparticle ink

Continuous operation

MEASURED PRINT PROPERTIES

Line width 50 μm ±4μm

Resistance 73Ω ±5Ω



PROCESS ATTRIBUTES

Inks

Polymer, Metal, Resistive, Magnetic

Line

10 - 1000 μm

Single Pass Line Thickness

100 nm - 4 μm

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.

