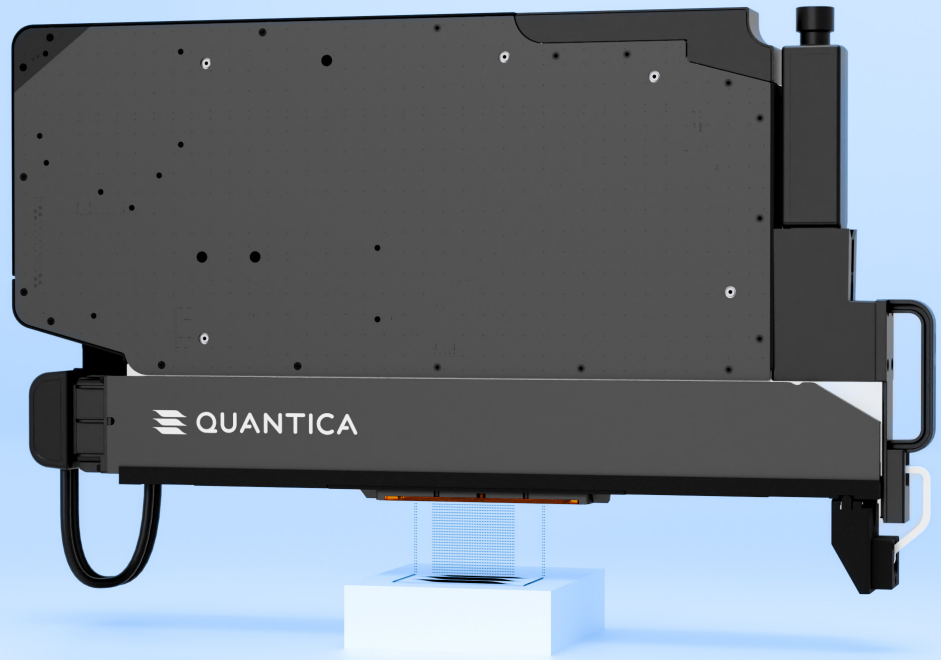


# Next-Generation Digital Manufacturing Technology

Quantica's advanced inkjet technology is uniquely capable of jetting high viscosity materials—up to **15x more viscous** than conventional inkjet—enabling the use of **certified materials** typically used for dispensing or screen printing.

This breakthrough allows for **scalable, automated manufacturing** solutions across a wide range of industrial applications, for greater efficiency and sustainability.



## Key advantages:



### Drop-on-Demand

Efficient material usage, printing only where needed to reduce waste.



### Digital

Flexible design freedom, allowing customization without physical tools.



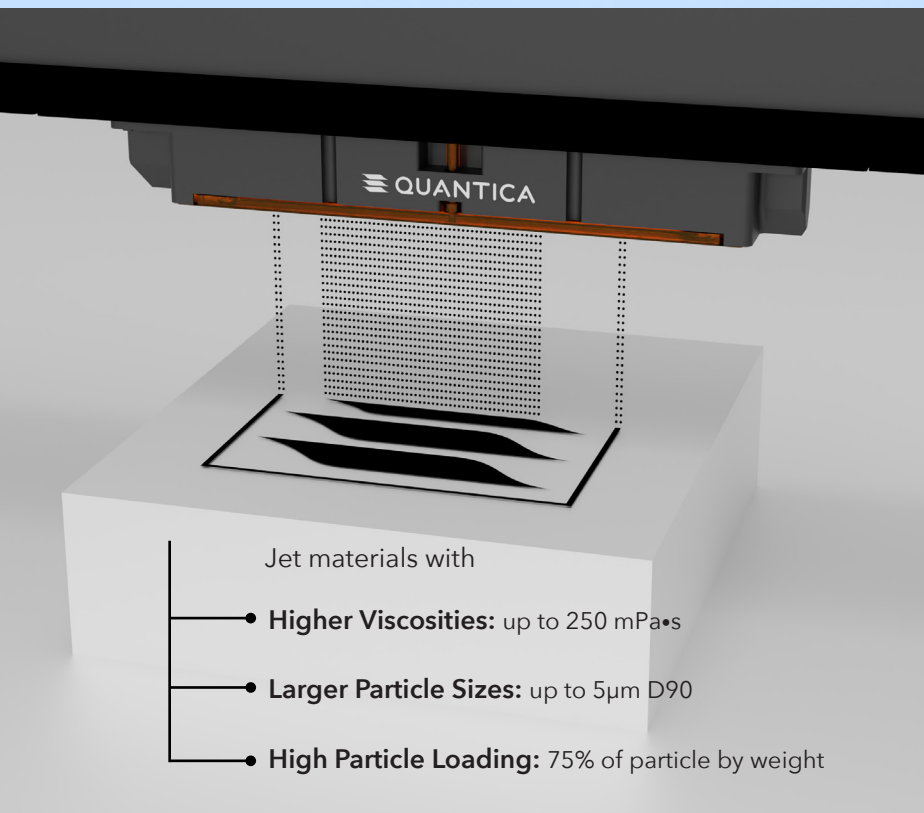
### Scalable

Supports high-speed, high-volume production lines.



### Contact-Free

No contact with substrates, ensuring material integrity and lower risk of damage.



Jet materials with

- **Higher Viscosities:** up to 250 mPa·s
- **Larger Particle Sizes:** up to 5µm D90
- **High Particle Loading:** 75% of particle by weight

## TECHNOLOGY

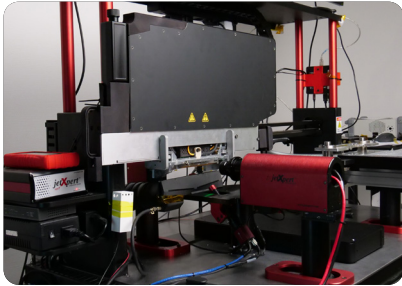
### NovoJet™ Printhead

Quantica's proprietary inkjet technology expands possibilities for jetting a wider range of materials, enabling more efficient and sustainable manufacturing processes.

Nozzle Count	96
Nozzle Diameter	50 µm
Frequency	8kHz
Flow Type	Recirculation
Temperature	25 - 80°C

## From process development to production

Quantica offers products and services that enable customers and partners to go from initial dropwatching and process development all the way to manufacturing integration.



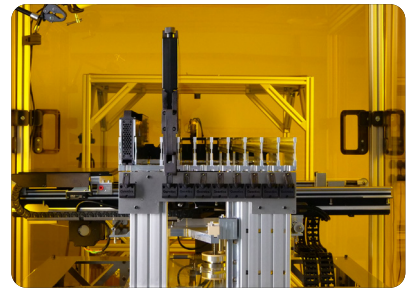
### NovoJet™ JetPack

Paired with a dropwatching system, the JetPack is used to validate and characterize new materials for the NovoJet™ printhead.



### Print Engine

Industrial inkjet printing system that is adaptable to customers needs. Integrate NovoJet™ printheads into existing production lines.



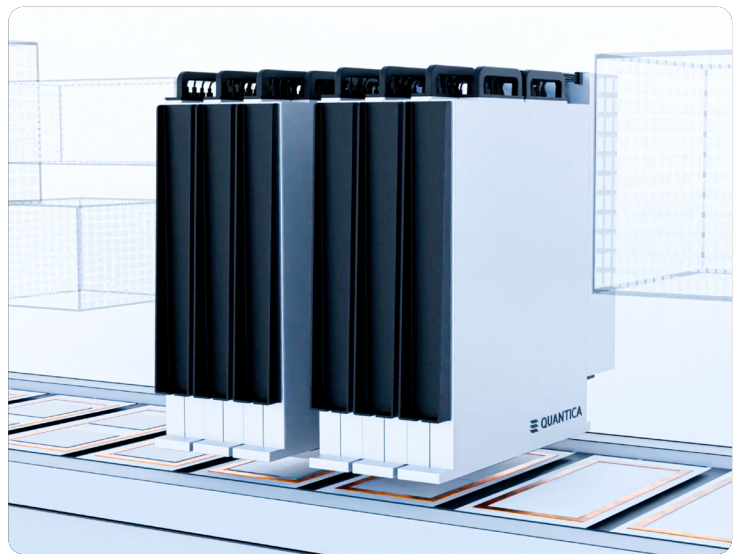
### Application Development

Quantica offers a range of services from material qualification to jetting and printing trials, to support customers unique processes and needs.

## Transforming Industries with Advanced Digital Manufacturing Solutions

Quantica's technology is transforming industries by enabling customers to optimize and automate their manufacturing processes, seamlessly transitioning from analog to digital workflows.

Quantica can digitally print adhesives, coatings, encapsulations, insulations, conductive pastes, active and reactive layers for:



Automotive



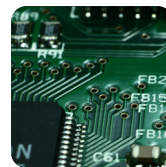
Energy



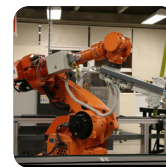
Displays



Packaging



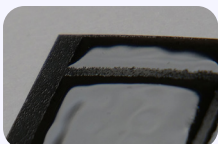
Electronics



Industrial Manufacturing



Consumer Products



Quantica successfully jetted a UV-curable industrial adhesive with a room temperature viscosity of 13,000 mPa·s onto various substrates. With temperature and shear thinning, the viscosity at jetting reduces to around 100 mPa·s. This material is used as a sealant for fuel cell and e-motor production applications.