Redefining X Ceramic & Metal AM

XJet & NanoParticle Jetting™ Technology
3 Dimensions of NPJ Innovation

The culmination of many years of intensive research, XJet’s disruptive NPJ technology features “three dimensions” of innovation:

- **Technology**
- **Main Applications**
  - Short-run manufacturing
  - On-demand manufacturing
  - Functional prototyping
- **Key Benefits**
  - Unlimited design flexibility
  - Unrivaled geometrical and physical properties
  - Unprecedented simplicity and safety

**Proprietary NanoParticle Jetting™ Technology**

XJet’s NanoParticle Jetting™ (NPJ) technology is redefining the metal and ceramic additive manufacturing (AM) arenas. The patented inkjet technology enables the production of metal and ceramic AM parts of the highest quality – featuring unprecedented levels of detailing, finish and accuracy – without compromising throughput or build time. With unrestricted support material planning, fabrication and removal, designers can focus on a part’s functionality rather than its manufacturability.

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**How It Works**

- **Dispersion**
  - Liquid suspensions for build and support materials are delivered in sealed cartridges, offering unrivaled user safety and operational simplicity.

- **Detail**
  - Thanks to its unique inkjet technology and use of nanoparticles in ultrathin layers, NPJ technology enables superfine details, smooth surfaces and high accuracy at unprecedented levels.

- **Design Freedom**
  - With support structures made of a separate material removed effortlessly, manufacturers can easily create finished parts of virtually any geometry, including those with tiny holes, thin walls, challenging arches and sharp edges.

Leveraging these innovations, manufacturers can produce dense, high-quality and high-definition metal and ceramic parts.
The XJet Edge

Renowned team
XJet has assembled a world-class team of skilled industry veterans, many of whom helped develop trailblazing inkjet and AM technologies at market pioneers such as Objet, Indigo, Scodix and HP Scitex.

Groundbreaking technology
XJet’s proprietary NPJ technology empowers the manufacturing of detailed high-quality parts with virtually unlimited geometries – all produced in a safe, convenient and productive manner.

Partner-driven approach
With a deep understanding of industry concerns and requirements, XJet partners with its customers to define, examine and execute new solutions to difficult challenges.

Forward-thinking roadmap
Leveraging its robust inkjet technology, XJet plans to introduce a growing number of metal and ceramic build materials to anticipate evolving industry needs.

About XJet
XJet is a provider of groundbreaking metal and ceramic additive manufacturing technologies and products. With a decade of research behind it, XJet's revolutionary NanoParticle Jetting™ technology enables the production of metal or ceramic parts with the same ease and versatility of inkjet printing without compromising throughput or quality. XJet's world-class team of skilled industry veterans and dynamic R&D specialists holds over 60 registered and pending patents. Leveraging its proprietary technology and proven expertise, XJet is redefining the metal and ceramic AM industries.