



HIGH-QUALITY METAL AND CERAMIC ADDITIVE MANUFACTURING AT SCALE

Powderless NanoParticle Jetting™
(NPJ) Technology



Industrial



Consumer



Medical



COMPLETE AND AUTOMATED MANUFACTURING SOLUTION

XJet's solution delivers world-class 3D printing capabilities, with the benefits of an End-2-End production ecosystem

Software

- Print tray planner
- Multi-system monitor
- Intuitive operator SW



System

CARMEL1400C NPJ
Ceramics system
CARMEL1400M NPJ
Metal system

Materials

- Alumina
- Zirconia
- STST 316L
- Soluble support materials



**Support Material
Automated Removal
Technology (SMART)**

UNIQUE FEATURES

Industrial scale InkJet printing system, enabling high volume production of high quality parts

- An easily detachable build tray
- High-resolution direct material jetting
- Extra-thin layers
- Soluble support material printed in parallel to model
- Simple ink refill capability
- Quick and easy setup between jobs – under 20 minutes
- Unattended 24/7 operation



POWDERLESS, AUTOMATED PROCESS

From file to part, XJet delivers a safe, simple, automated digital process that uses less energy and reduces materials waste.

- Avoid handling of loose powder
- Automated support removal
- No depowdering required
- Low and isotropic shrinkage rate
- Lower temperature in sintering (for metals)
- No machining required

PRINT



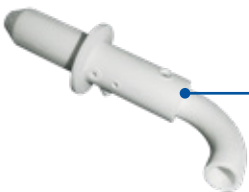
WASH



SINTER



A NEW LEVEL OF END-USE AM PARTS QUALITY



200 μ m
Details and Inner Cavities

Enabling unique applications:
heat exchanger, flow filter,
pharmaceutical labs consumables



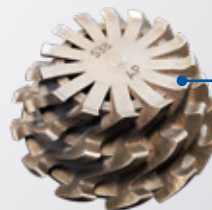
1.6 μ m
Smooth Surface

End use products with no
machining nor post process



50 μ m
Accuracy

Enabling pre-assembled
components, high-end industrial
parts with no machining



>99.5%
Density

Bringing the full material
properties of traditional
manufacturing

ENABLING INNOVATION ACROSS INDUSTRIES



At XJet, we specialize in the creation of complex parts with high resolution and smoother assemblies that were once impossible with traditional manufacturing methods.

With a team of the brightest minds in the industry, XJet has pioneered additive manufacturing. Our 3D print technology includes Direct Material Jetting™, **Print-Wash-Sinter** process, and NanoParticle Jetting, for which we are patent owners.

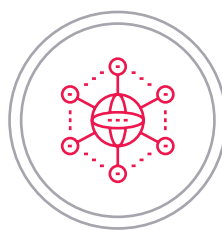
FAST FACTS



XJet
founded
2014



ESG
Strong
benefits



Global
leading
customers



80
patents



#1
quality



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