

NEWSPACE MARKET · COMPANY PROFILE



Space Foundry

United States · spacefoundry.us

5

PRODUCTS

2

SERVICES

2

WITH DATASHEETS

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as of 20 August 2026



Space Foundry

Space Foundry is a San Jose, California-based technology company founded in 2019, pioneering plasma jet printing as a direct-write manufacturing technology for conductive electronic materials on planar and complex three-dimensional surfaces. Co-founded by Dr. Ram Prasad Gandhiraman, inventor of plasma jet printing, and Dennis Nordlund, the company holds 8 granted US patents and has published 20+ peer-reviewed articles on the underlying science. Space Foundry's patented plasma jet printing process aerosolizes metal-ion inks, introduces them into a reactive plasma environment, performs in-situ reduction of metal ions to zero-valent metal, and deposits conductive material — copper, silver, gold, graphene, or dielectrics — directly onto the target surface in a single dry step requiring no pre- or post-treatment. The technology supports conformal printing on complex 3D shapes, overhead and vertical surfaces, and flexible substrates, making it uniquely suited for aerospace structures, radomes, aircraft skins, UAV bodies, satellite antennas, and sensor arrays. The company has delivered systems to 15+ global customer installations including NASA Ames Research Center, NASA Marshall Space Flight Center, Sandia National Laboratories, Idaho National Laboratory, NextFlex, and universities in the US, Europe, Australia, India, and New Zealand. Space Foundry has demonstrated printing in microgravity via parabolic flight with NASA Armstrong and is actively developing in-space manufacturing capabilities for electronics fabrication in orbit. The product portfolio spans desktop R&D systems, conformal printers for complex surfaces, roll-to-roll systems for flexible substrates, robotic arm integrations, and large industrial gantry systems, with equipment leasing and contract printing

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Custom Process and Product Development

Space Foundry develops custom processes and products for customers, including proof of concept and pilot studies, to meet specific technical specifications.

Printed Service

Space Foundry offers a printed service where they develop a complete process for printing customer-defined patterns with required technical specifications onto the customer's chosen platform.

Product catalogue



SPACE FOUNDRY

PJP-CP26 Conformal Printer

Plasma jet printer for direct-write electronics on curved and complex 3D surfaces -- antennas, frequency-selective surfaces, and RF structures.

Process	Single-step atmospheric-pressure plasma jet printing, no pre- or post-treatment
Substrate type	Curved, vertical, and complex 3D surfaces
Applications	Printed antennas, frequency selective surfaces, IML/OML printing, sensors and RF structure
Target markets	Aerospace & defense, automotive

[price on request](#) [datasheet](#)



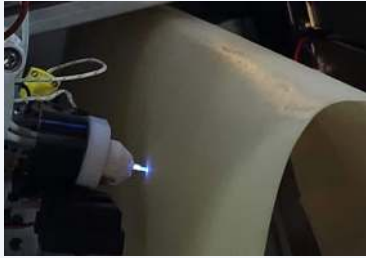
SPACE FOUNDRY

PJP-DT155 Desktop System

Compact plasma jet printing platform for R&D, process development, and proof-of-concept multi-material printing on planar surfaces.

Process	Single-step atmospheric-pressure plasma jet printing, no pre- or post-treatment
Target use	Corporate R&D, university research, process development
Substrate type	Planar surfaces
Materials	Copper, silver, and dielectric inks

[price on request](#) [datasheet](#)



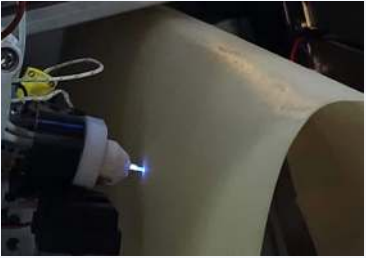
SPACE FOUNDRY

Plasma Jet Printing Technology

Space Foundry offers plasma jet printing technology for direct-write manufacturing of electronics on planar and complex 3D surfaces, including in-space manufacturing applications.

Printing Process	Plasma jet printing (patented)
Materials Supported	Conductive (copper, silver), Dielectric
Surface Types	Planar, curved, vertical, complex 3D surfaces
Pre/Post-treatment	Not required
Adhesion	Reliable adhesion via plasma activation
Substrate Compatibility	Improved compatibility across multiple substrates
Printing Orientations	Multiple orientations, including non-planar geometries

price on request



SPACE FOUNDRY

Plasma Jet Printing Technology (Various Configurations)

Space Foundry offers plasma jet printing technology for direct-write manufacturing of electronics on planar and complex 3D surfaces, including in-space manufacturing applications.

Process	Single-step atmospheric-pressure plasma jet printing
Format	Continuous roll-to-roll
Applications	Flexible electronics, continuous production workflows

price on request



SPACE FOUNDRY

Robotic Arm Integration Printer

Plasma jet print head integrated onto a robotic arm for conformal printing on complex 3D aerospace parts, including upside-down and OEM-integrated printing.

Process	Single-step atmospheric-pressure plasma jet printing, orientation independent
Integration	Robotic arm-mounted print head, OEM integration supported
Applications	Complex 3D parts, upside-down printing, aerospace manufacturing

price on request

Contact Space Foundry

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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