

LABORATORY: CNR ISTI

NAME OF THE INSTRUMENT

ProJet MJP 2500 Plus

GENERAL DESCRIPTION:

The ProJet MJP 2500 Plus 3D printer is a high-precision printing system designed for the production of models and prototypes with intricate details and smooth surfaces. It is ideal for ultra-detailed and highly precise printing of single-color objects that can be rigid or flexible (the average price of usable materials is 450€/kg).

It utilizes MultiJet Printing (MJP) technology, which involves the layer-by-layer deposition of photosensitive resin-based materials.

The ProJet MJP 2500 Plus offers a wide range of compatible materials, including rigid, flexible, and transparent resins, allowing for the creation of parts with different mechanical and optical properties.

Its generous print area allows for the production of sizable models, with a maximum print size of 294 x 211 x 144 mm, with a print precision that can reach up to 16 microns.

The ProJet MJP 2500 Plus is utilized in various industries, including engineering, automotive, aerospace, and design. With its high precision, versatility, and production speed, this 3D printer represents a reliable solution for creating prototypes and complex parts with high-quality details and finishes.

TECHNICAL DESCRIPTION:

The ProJet MJP 2500 Plus 3D printer is equipped with an advanced printing system that offers high-quality performance and functionality. The machine utilizes a multi-material inkjet print head that can be configured with various material options, including rigid, flexible, and transparent resins.

The ProJet MJP 2500 Plus features a print resolution of up to 1600 x 900 x 790 DPI and is capable of printing with high-end technical materials, elastomers, rigid biocompatible materials, high-temperature resistant materials, transparent materials, or various opaque colors.

The ProJet MJP 2500 Plus is equipped with the MJP EasyClean system, which allows for simplified post-processing. This ensures that the results are free from residual support material.



Figure: ProJet MJP 2500 Plus

FURTHER INFORMATION:

- 3DSystem website: <https://www.3dsystems.com/3d-printers/projet-mjp-2500-series>
- Brochure: <https://www.3dsystems.com/sites/default/files/2020-08/3d-systems-mjp-brochure-usa4-2020-07-17-web.pdf>
- Material list: <https://www.3dsystems.com/material-finder?printer-compatibility%5B0%5D=ProJet%20MJP%202500%2F2500%20Plus>
- Material technical characteristics: <https://www.3dsystems.com/sites/default/files/2020-08/3d-systems-visiJet-m2-material-selection-guide-a4-us-2020-08-20-web.pdf>
- User guide: https://support.3dsystems.com/s/article/projet-mjp-2500-user-guide?language=en_US

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