

**Title:**

Lynxter S600D

Sub-title:

Big volume 3D-FDM printing system for printing and research of advanced materials

General description:

The Lynxter S600 is a delta-configuration 3D printer designed for high-speed, large-volume extrusion of advanced materials. Its open-source hardware and software allow customization for testing and research across various fields, empowering users to innovate by easily integrating new hardware or software. The current setup supports filament printing, but interchangeable toolheads are on the market for silicones and pastes printing, maintaining large-volume capabilities.

Features:

- Delta-configuration 3D printer, with open software and hardware
- High 3D printing speed, up to 500 mm/s
- Printing volume up to 39x60 cm³
- Closed chamber, thermally controlled up to 80 °C
- Commercial available materials are PLA, ABS, ASA, PA, PP, PC, PETG, PEKK, CF/ GF additivated
- Upgradable to 3D print elastomers and pastes at big volumes (with geometrical constraints)

Applications:

- Tough components for Exosuits, Prosthesis and Orthosis
- Hardware and software research for new 3D printing functionalities
- Tough components for the automotive industry and harsh environments