

**Title:**

Lynxter S300X

Sub-title:

3D-Extrusion based printing system for soft and flexible materials

General description:

The Lynxter S300X is a cartesian 3D printer aimed at printing silicone, polyurethane and LSR (liquid silicone rubber) materials with hardness ranging from 5 to 80 A shore. Some of these materials are also biocompatible and there is almost no limit to the geometries thanks to soluble supports. Its open-source hardware and software allow customization for testing and research of new hardware, software or materials.

Features:

- Cartesian 3D printer, with open software and hardware
- Printing volume up to 30x25x20 cm³
- Closed chamber, thermally controlled up to 40 °C
- Commercial available materials as Copsil Silicones (5,10,25,40A shores) and generic silicone, Poliurethanes with 70A shore, LSR
- Soluble support to print complex geometries

Applications (less than 6-7 words for each line):

- Soft components for Exosuits, Prosthesis and Orthosis
- Sealing components for the industry
- Soft robotics actuators
- Medical devices and Surgery simulators to train surgeons
- Fashion design of smart textiles