



MAKE IT
SMARTER





Our products are designed and
manufactured with passion in our
workshop in the Basque Country, France

ABOUT

With expertise in additive manufacturing, Lynxter designs, develops, and manufactures modular and industrial machine tools.

We dedicate all of our efforts to remarkable innovation projects.

Our goal? **To provide the most ambitious projects with our know-how and technological solutions: MAKE IT SMARTER**

This is why we consider 3D printing a real mean of manufacturing.

We have created a complete and performant ecosystem for Industry 4.0: Ultra-versatile machines empowered by a network of expert developers.

OUR STORY

Everything started with 3 engineering friends from ENIT...

2016 LYNXTER IS FOUNDED

Born in a garage under the sun of the Basque Country

2016 PILOT PROJECTS WITH TARGET GROUPS

First pilot project with Airbus. Second one for Lycée Gustave Eiffel

2017 ESTABLISHMENT

Lynxter moves into new premises at the business incubator in Bayonne

2018 RELEASE OF THE FIRST MODULAR LYNXTER MACHINE

The S600D, a new generation of modular and open machines, challenges conventional thinking within the industry

2019 GROWTH AND INNOVATION

Business development. Tool heads for liquid deposition are added to the product range

MISSION

We open up towards a more intelligent and fairer world by reconsidering problems in their entirety and complexity

— **Democratize** additive manufacturing against its own resistance to change

— **Boost** the additive manufacturing industry

— **Optimize** the exploitation of natural resources

— **Allow** emergency manufacturing

— **Raise** the performance level of products and manufacturing processes

— **Promote** latent innovation for a better world

DARE



EXPERIMENT



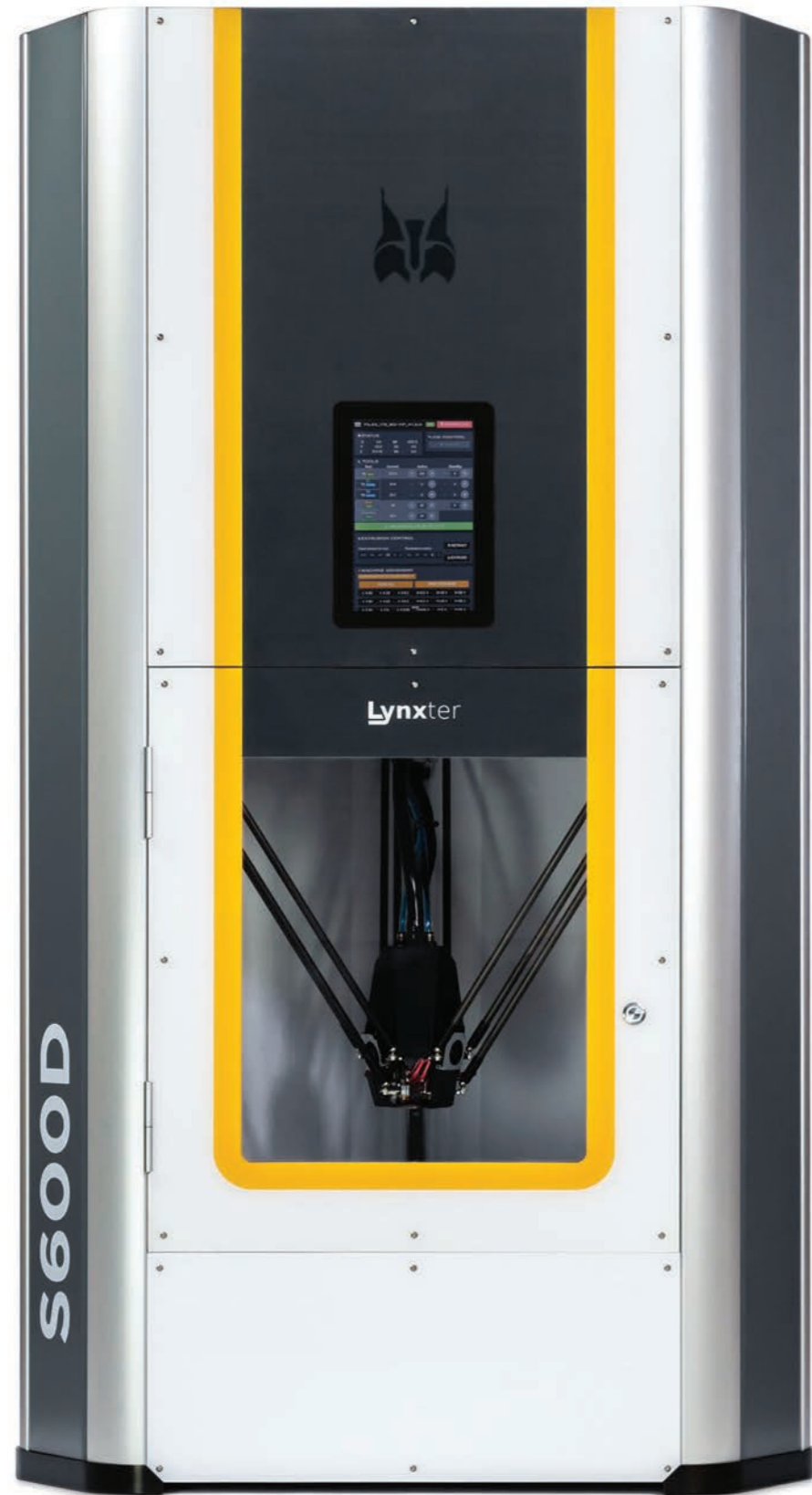
INNOVATE

MULTI MATERIALS
MULTI PROCESSES



S600D

A scalable, industrial, open, and ultra-versatile multi-process center ready to be setup with tool heads that allow deposition of a variety of materials



THE TOOL HEADS



Filament extrusion tool
3 in : 3 out
Triple extrusion



Liquid extrusion tool
1 in : 1 out
Mono-component

Silicone, PA, PET-G Carbon, PEKK, ASA,
Polycarbonate, TPU, TPC, HIPS, ABS-ESD,...

MULTIPLE APPLICATIONS

Emergency manufacturing, small series,
multi-materials



Functional
prototypes



Research and
development

1

Versatile

Multi-materials and multi-processes on one single machine. Colors, materials, and processes to mix. To invent.

Broad selection of thermoplastics, silicones, and other materials to come.

2

Open

Achieve your projects with help from the Lynxter community.

Choose between our selection of materials or experiment with new ones.

3

Scalable

A center in constant evolution thanks to an increasing list of new units.

4

Performant

Rapid, precise and more powerful solutions than in traditional 3D printers allow our customers to put technical materials into action in an instant.

5

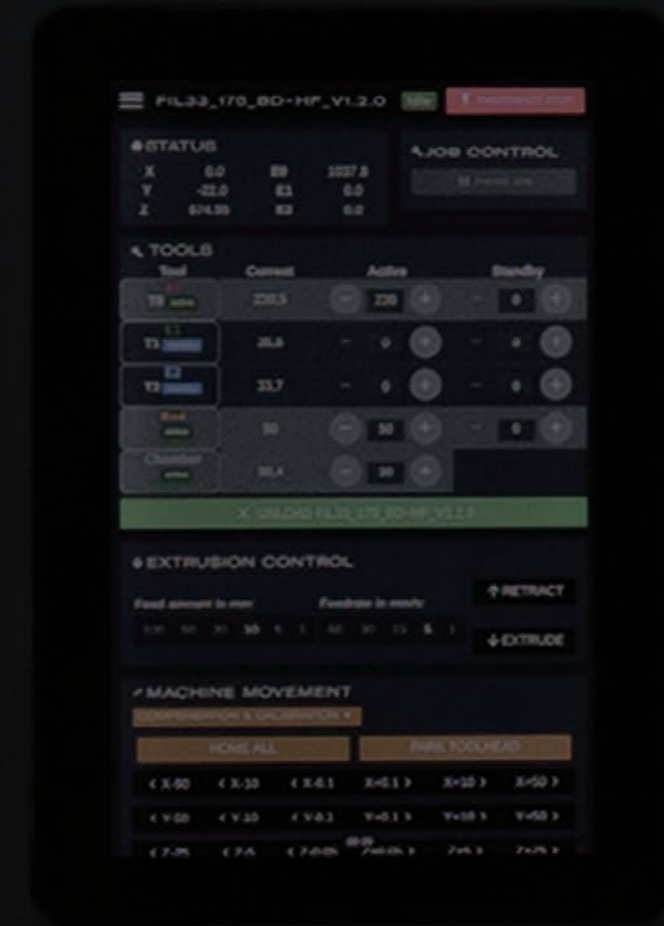
Smart

Automatic piloting system. Remote connectivity.

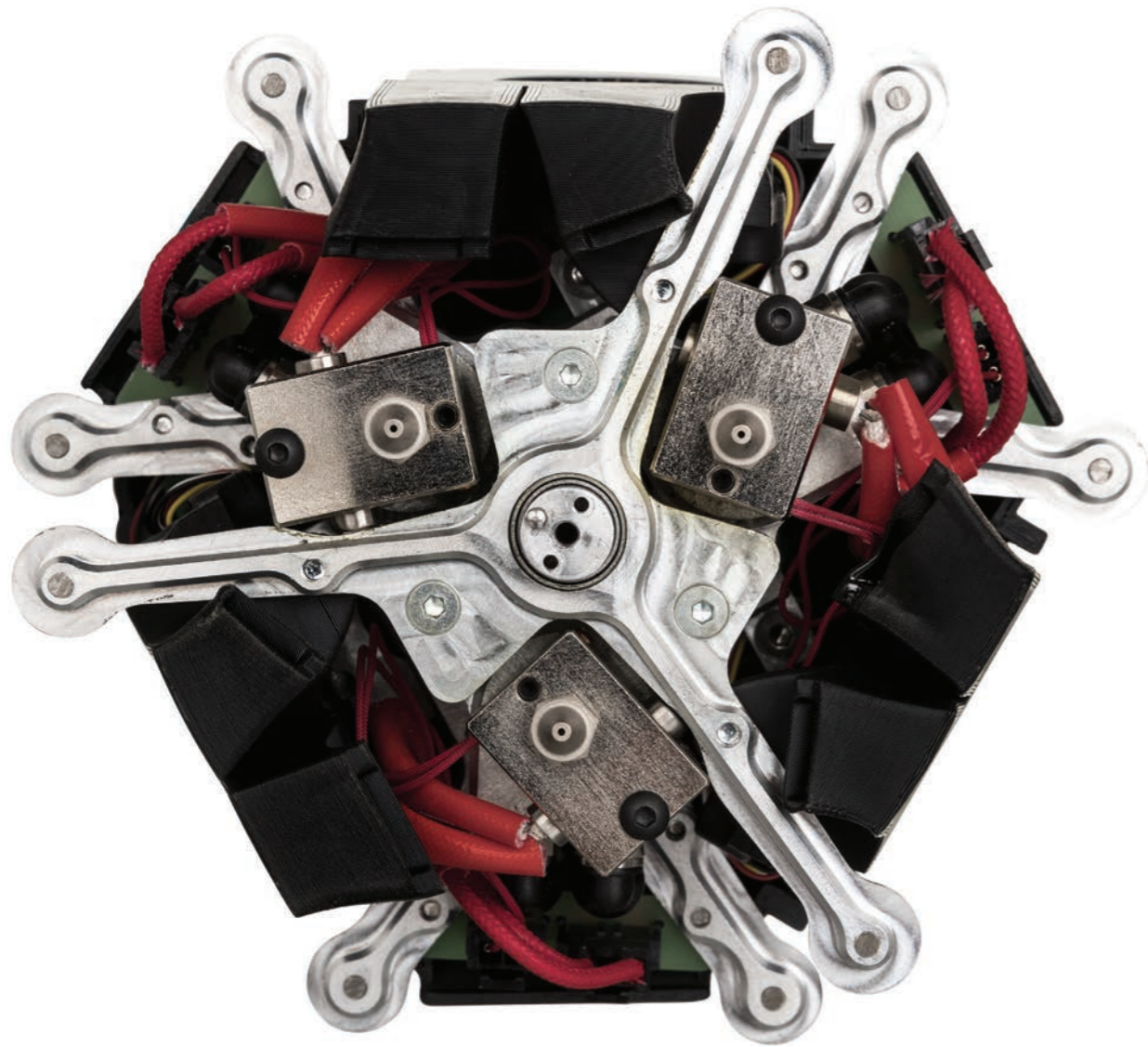
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Secure

Respects the health and security of the user thanks to its closed and filtered printing environment (HEPA 14 + activated carbon filtration).



Lynxter



- PA
- PET-G CARBON
- PEKK
- ASA
- POLYCARBONATE
- TPU
- TPC
- HIPS
- ABS-ESD
- PETT
- ...



TRIPLE FILAMENT EXTRUSION TOOL (3 IN:3 OUT)

Switch seamlessly between three materials with different properties and colors in one single part

RAPID, PRECISE AND CLEAN TRIPLE EXTRUSION

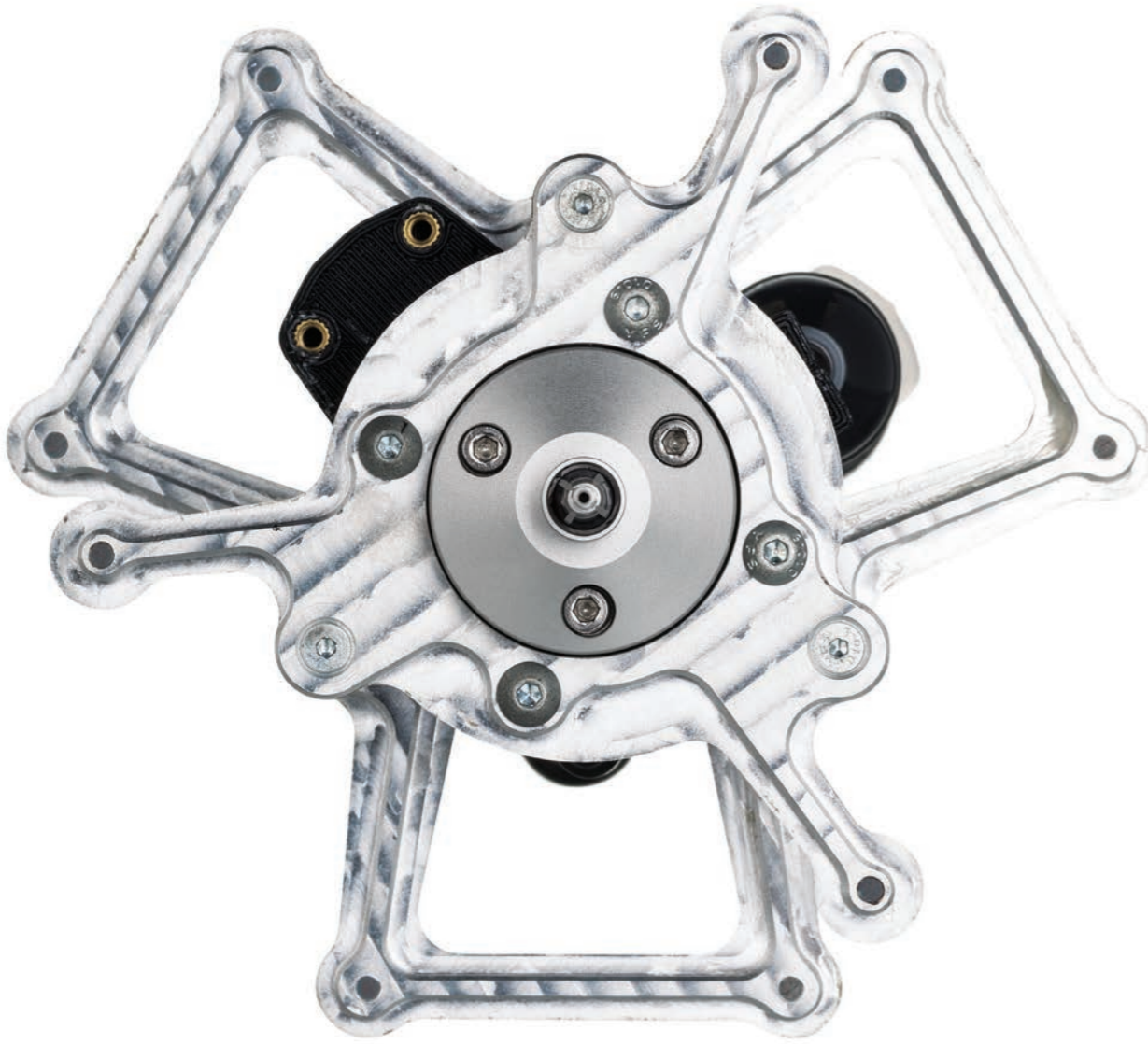
Automatic nozzle levelling, cleaning and closing system

FROM THERMAL PERFORMANCE TO FUNCTIONAL MATERIAL

Three independent extrusion lines water-cooled separately: high temperature manufacturing for technical parts

MULTIPLE MATERIALS AND FINISHES: MODULATE

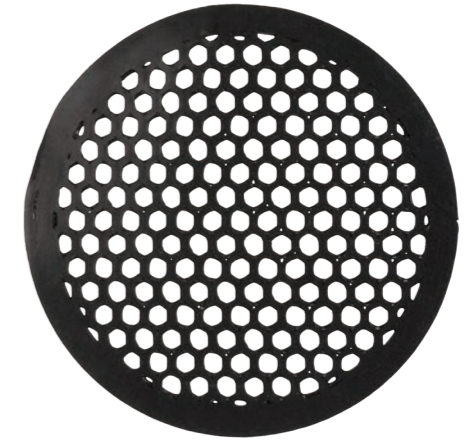
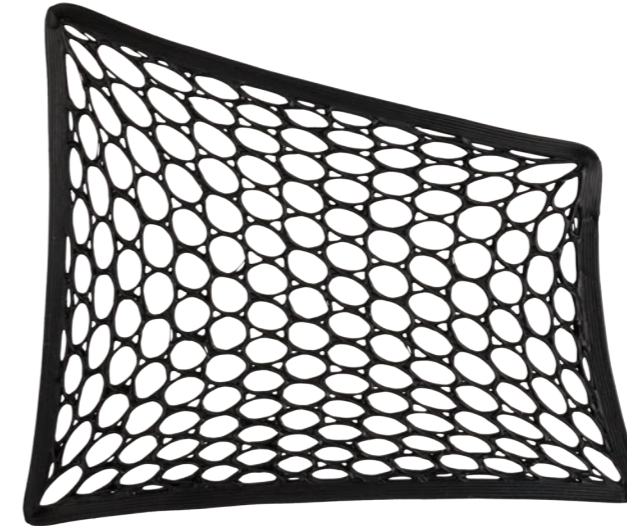
Customize heating blocs and nozzle diameters



LIQUID TOOL MONO COMPONENT (1 IN : 1 OUT)

Material deposition of dots
and lines

- SILICONE
- RESINE EPOXY
- POLYURETHANE
- ACRYLIQUES
- ...



PRECISE AND CLEAN EXTRUSION

High volumic accuracy, precision of flow from the beginning to the end

A GREAT VARIETY OF MATERIALS

Wide range of viscosities and high chemical resistance

MULTIPLE MATERIALS AND FINISHES: MODULATE

Customize nozzle diameters, temperature controlling units and cross-linking solutions

LYNXTER OFFERS TECHNOLOGICAL SOLUTIONS TO ENCOURAGE INNOVATION

SERVICES

Expert teams with exceptional know-how are ready to support your projects



— Development of customized applications

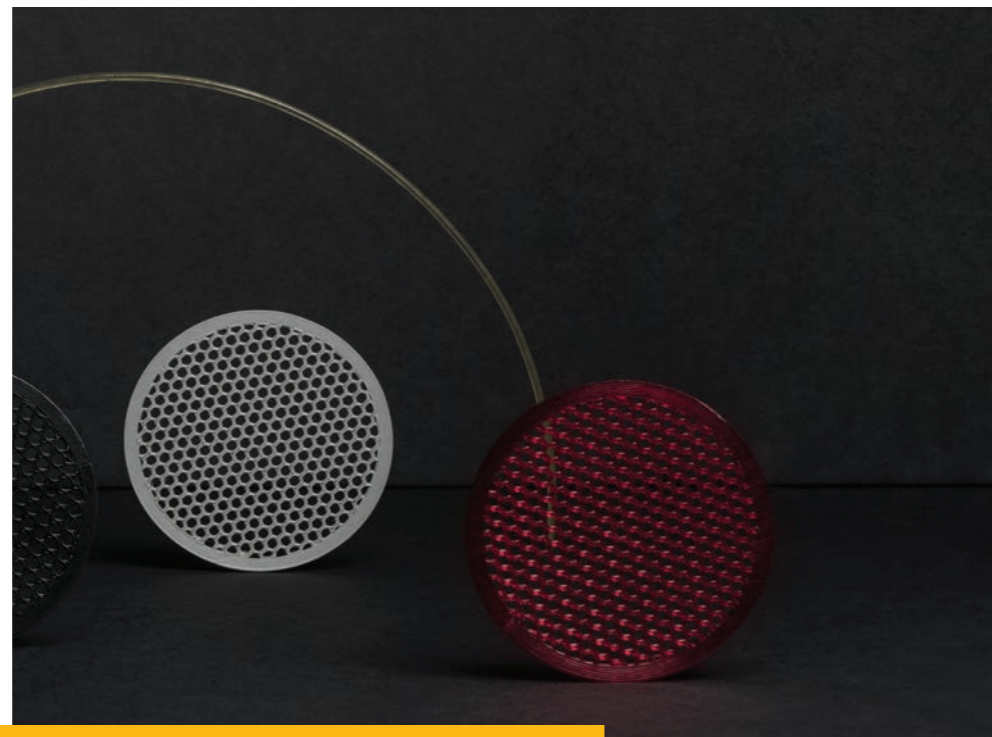
We answer questions about details and specifications to help our customers carry out their unique projects and ambitions

— Specialized advices and learning courses

We support our customers with unique learning courses to develop their knowledge about issues linked to additive manufacturing

— Customer service

We help our customers kick off their projects in order to maximize the potential of their ideas and work



THEY SUPPORT US



AIRBUS



bpifrance

SPECIFICATIONS

La S600D in every detail

Building volume

Ø390mm x 600mm

Removable tool head

Easy mechanical attachment, electronic plugs and liquid cooling

Layer height

50µm to >1mm

X,Y,Z resolution

12.5µm, 12.5µm, 12.5µm

Max. moving speed of tool head

500mm/s

Consumable supply

Modular

Building surface

Removable
Hot-swappable
Ground surface

Thermal environment

Heated building surface: 20°C to 200°C
Building volume: 20°C to 80°C
Water-cooled tool head

Manufacturing job protection

Emergency recovery in case of power cuts
End of consumable sensors

Manufacturing file format

Gcode standard

Piloting

Stand alone touch screen and web interface

Customizable firmware

Lynxter S600D firmware (RepRapFirmware base)

Connectivity

Ethernet

Power

230V AC 16A 50-60Hz

Automatic calibration

Building surface levelling
Geometrical correction
Tool height levelling

Health and safety

Removable double HEPA H14/activated carbon filtration
Locked machine access

Dimensions

I 913 x L 851 x H 1644 mm



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