



ADDITIVE 

MAKE IT
SMARTER

S600D





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S600D specifications

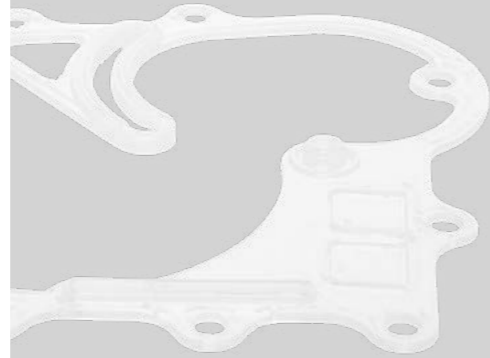
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Toolheads
specifications

FLEXIBLE AIR TIGHT JOINT
RTV1 34shA silicone



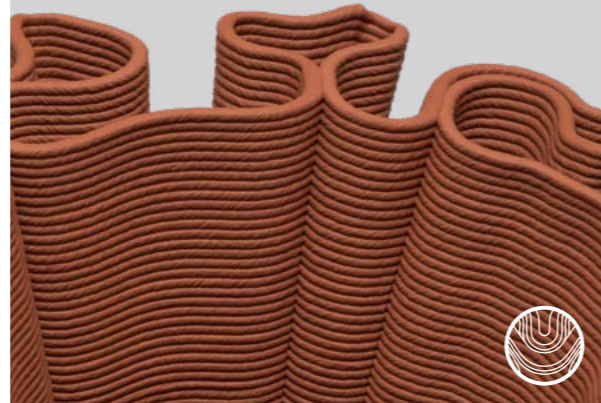
SEAL
Fluorinated RTV1 silicone



SENSOR HOLDER
PA6-CF



VASE
Clay



ORTHOPEDIC INSOLE
RTV2 40shA Silicone



BURNER
Stoneware



VENTILATION DUCT
PEKK



S600D

FIELDS OF APPLICATION

LOCAL EMERGENCY MANUFACTURING

Spare parts – Maintenance –
Jigs & Tooling

- Simplified stock management and optimized operations with short lead times.
- Increased reactivity and autonomy thanks to on-site production.

CUTTING EDGE DEVELOPEMENT

Training – Innovation –
Custom production

- Reduced development & prototyping cycles thanks to an easy-to-implement iterative approach.
- Fuels innovation by enabling material experimentation and custom manufacturing.

WHAT IF YOU COULD 3D PRINT ANY MATERIAL ON A SINGLE MACHINE?

At Lynxter, we break boundaries. The S600D is the first powerful and versatile 3D printer capable of printing a wide range of materials using different processes: thermoplastic filaments, liquid silicones and ceramic pastes.

Benefits

- Freedom to use different materials
- Large build volume
- Integrated Web interface
- Machine interconnection
- Heated enclosure
- Automatic calibration



Our products are designed and manufactured with passion in our workshop in France.



S600D

A scalable, industrial, open, and ultra-versatile multi-process center. Ready to be equipped with toolheads for a variety of materials and processes.



1 MACHINE
3 PROCESSES
5 TOOLHEADS



LIQUID
Silicone, PU, epoxy



PASTE
Ceramic



FILAMENT
Thermoplastics



LIQ11



PAS11



FIL11



LIQ21



FIL33

A single machine for all projects and materials. Choose the setup that matches your printing needs.

A powerful and unique solution for printing with silicones, thermoplastic filaments and ceramics.

1

Versatile

Multiple materials and processes on a single machine. Mix colors, materials and processes. Be creative.

Broad selection of thermoplastics, silicones, and ceramics.

2

Open

Achieve your goals with help from the Lynxter community.

Choose from our selection of preconfigured materials or experiment with new ones.

3

Scalable

A constantly evolving platform with a growing number of new modules.

4

Powerful

Rapid, precise and more powerful than traditional 3D printers. The S600D successfully prints technical materials in an instant.

5

Smart

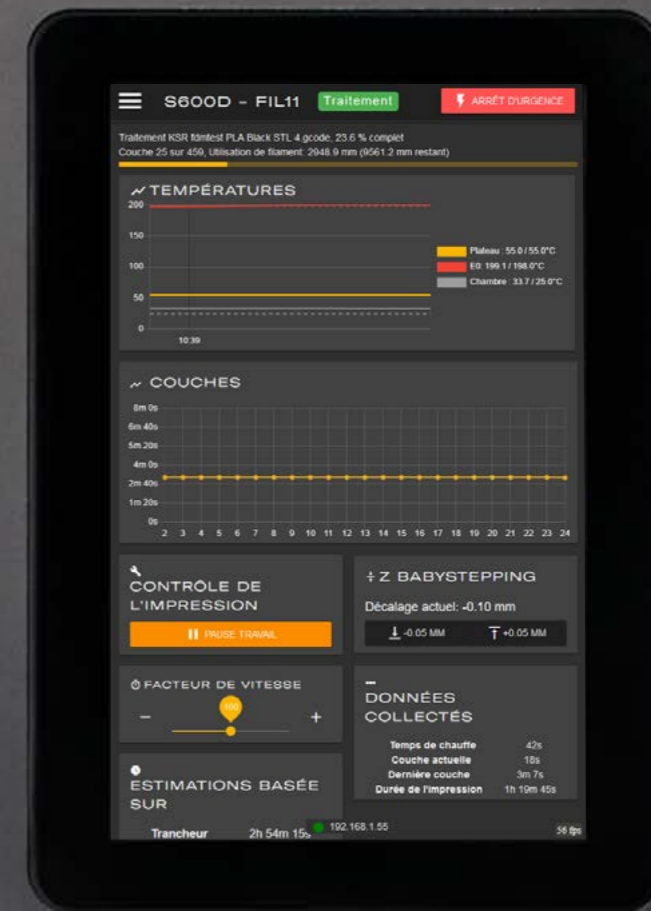
Automatic piloting system.

Remote connectivity.

6

Safe

The S600D respects the health and safety of the user thanks to its closed and filtered printing environment (HEPA 14 + activated carbon filtration).



Lynxter



LIQUID

Silicone, PU, epoxy

EXTENSIVE RANGE OF VISCOSITIES AND HARDNESS LEVELS

Liquid materials are packaged in 55ml syringes and used with our LIQ11 and LIQ21 toolheads. For larger projects, 960ml cartridges can be used.

Compatible materials *

- RTV1 Silicone
- RTV2 Silicone
- LSR (experimental)
- Polyurethane (experimental)
- Epoxy (experimental)

*The list of compatible materials is evolving. Our team is working on new print profiles every day.



LIQUID

Silicone, PU, epoxy

Take additive manufacturing to the next level by 3D printing silicones.



1

Precise and clean dosage

Stack lines and liquid dots with precision thanks to the industrial dosing pump for high-precision dosing of materials.

2

Different flow rates, finishes, and materials: Modulate

Switch between different nozzles with suitable diameters and properties. Accessorize the toolhead with different cross-linking solutions.

3

The reliability of industrial dispensing at the heart of your 3D printer

No trade-offs. Components of unrivaled durability designed for intense usage with all types of materials.

4

From small to large parts

Make the most of the substantial build volume: Up to $\varnothing 390 \times 600$ mm.



LIQ11

SINGLE-COMPONENT LIQUID EXTRUSION TOOLHEAD

Benefits

- Use with single-component materials
- Simple & easy to use
- Heat the material cartridge and dosing system

LIQ21

TWO-COMPONENT LIQUID TOOLHEAD

Benefits

- Print two-component technical and medical-grade materials
- Easy to clean
- Seamlessly adjust the mixing ratio



FILAMENT

Thermoplastics

AN OPEN APPROACH TO EXCELLENCE

The $\varnothing 1.75\text{mm}$ thermoplastic filament is the most widespread standard among users and suppliers.

Compatible materials *

- PEKK
- TPU
- PC
- PA CF
- PLA
- ABS
- PETG CF
- TPC ESD
- ABS ESD
- PETG
- PP
- ...

*The list of compatible materials is evolving. Our team is working on new print profiles every day.



FILAMENT
Thermoplastics

Technical multi-material parts, optimized manufacturing time.

- 1 Wide range of compatible materials**
Wide variety of compatible thermoplastic filaments, including technical, recycled, food-safe, flexible, and high-temperature resistant filaments.
- 2 High-temperature extruder**
A dedicated liquid cooling system makes it possible to extrude at temperatures of up to 450°C. Enjoy the liberty of printing the most demanding high-temperature filaments.

- 3 Different flow rates, finishes and materials: Modulate**
Simply set up your toolhead with magnetic heating blocks and nozzles with suitable diameters and properties.
- 4 Automatic nozzle leveling**
Makes it simple to change the toolhead, nozzles and achieve a successful first layer. Facilitates calibration when printing with multiple materials.



FIL11 SINGLE EXTRUSION FILAMENT TOOLHEAD

FIL33 TRIPLE FILAMENT EXTRUSION TOOLHEAD

Benefits

- Simple, easy to use, strong and compact
- High-temperature build chamber (80°C) – suitable for printing PEKK
- Build volume: ø390 x 600mm

Benefits

- 3 separate nozzles (independent extrusion lines)
- Temperature-controlled build chamber (60°C)
- Build volume: ø390 x 600mm



PASTE

Ceramic

TECHNICAL OR TRADITIONAL CERAMIC PASTE

Ceramic paste for 3D printing is packaged in 55ml syringes. PAS11 gives you the freedom to choose from a wide range of different ceramic materials.

Compatible materials *

- Alumina
- Cordierite
- Porcelain
- Clay
- Sandstone
- ...

*The list of compatible materials is evolving. Our team is working on new print profiles every day.



PASTE
Ceramic

Get creative with
PAS11 technology

- 1 3D print ceramics on your S600D**
PAS11 is well-suited for different types of projects: industrial, artistic and research.
- 2 Introducing precise ceramic robocasting**
PAS11 features a microdispensing pump which dispenses the material precisely. The PAS11 toolhead for ceramic 3D printing is pressurized to ensure consistent extrusion. The deposited lines of paste are fine, precise and regular.



PAS11 TOOLHEAD FOR 3D PRINTING OF CERAMICS

Benefits

- Wide variety of compatible pastes
- Large build volume: Ø390mm x 600mm
- High-speed movement
- Precise and accurate lines
- Modular: add extra functions to the PAS11 tool to widen the field of applications





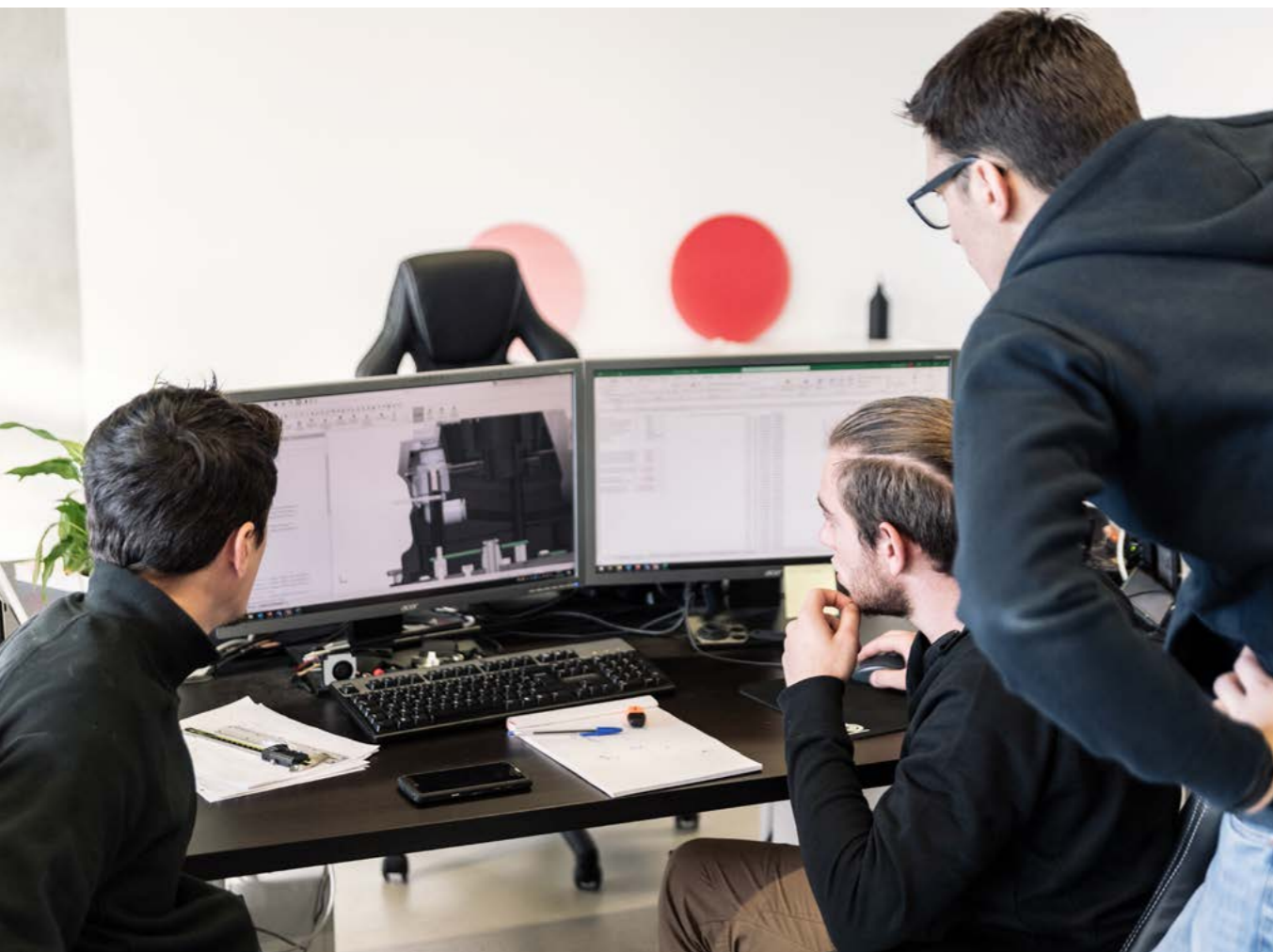
MATERIALS, OPTIMIZED MATERIAL SUPPLY SYSTEM

Attach the material supply unit to your S600D and select the best materials for your projects.

Choose from our selection of preconfigured materials for guaranteed results or experiment freely.

Numerous materials with preconfigured print profiles are available on the S600D; a library of preset files.

CREATE DESIGN PRODUCE



CAM

The S600D can be interfaced with any CAM software*.

Benefits

- Library containing all print profiles (preconfigured settings)
- Quick and easy to use, just plug & play!
- Adjust settings to optimize manufacturing strategies.

* Simplify 3D is included when you purchase a S600D: lifetime license, training, unlimited access etc.

EMBEDDED SOFTWARE

The S600D is based on open source firmware (entirely revised by Lynxter) and interfaces easily with third-party software (web and .gCode). Easy to configure and customize, the S600D is ideal for highly specialized projects.

Multiple settings – easy to use: calibration, automated loading and priming of materials, digital inventory, remote monitoring etc.

Benefits

- Touch screen
- Ergonomic interface
- Remote control via web interface.
- Regular updates

LYNXTER OFFERS TECHNOLOGICAL SOLUTIONS TO ENCOURAGE INNOVATION

- **DEVELOPMENT OF CUSTOMIZED APPLICATIONS**

We provide tailored solutions to our customers' unique projects

- **SPECIALIZED TRAINING**

We offer specialized training to help our customers develop their knowledge of additive manufacturing and related issues.

- **CUSTOMER SERVICE**

Our customer service team is happy to assist you. We also provide access to an online training platform with a collection of tutorials, (videos and written articles).

EXPERT TEAMS WITH EXCEPTIONAL KNOW-HOW ARE READY TO SUPPORT YOUR PROJECTS



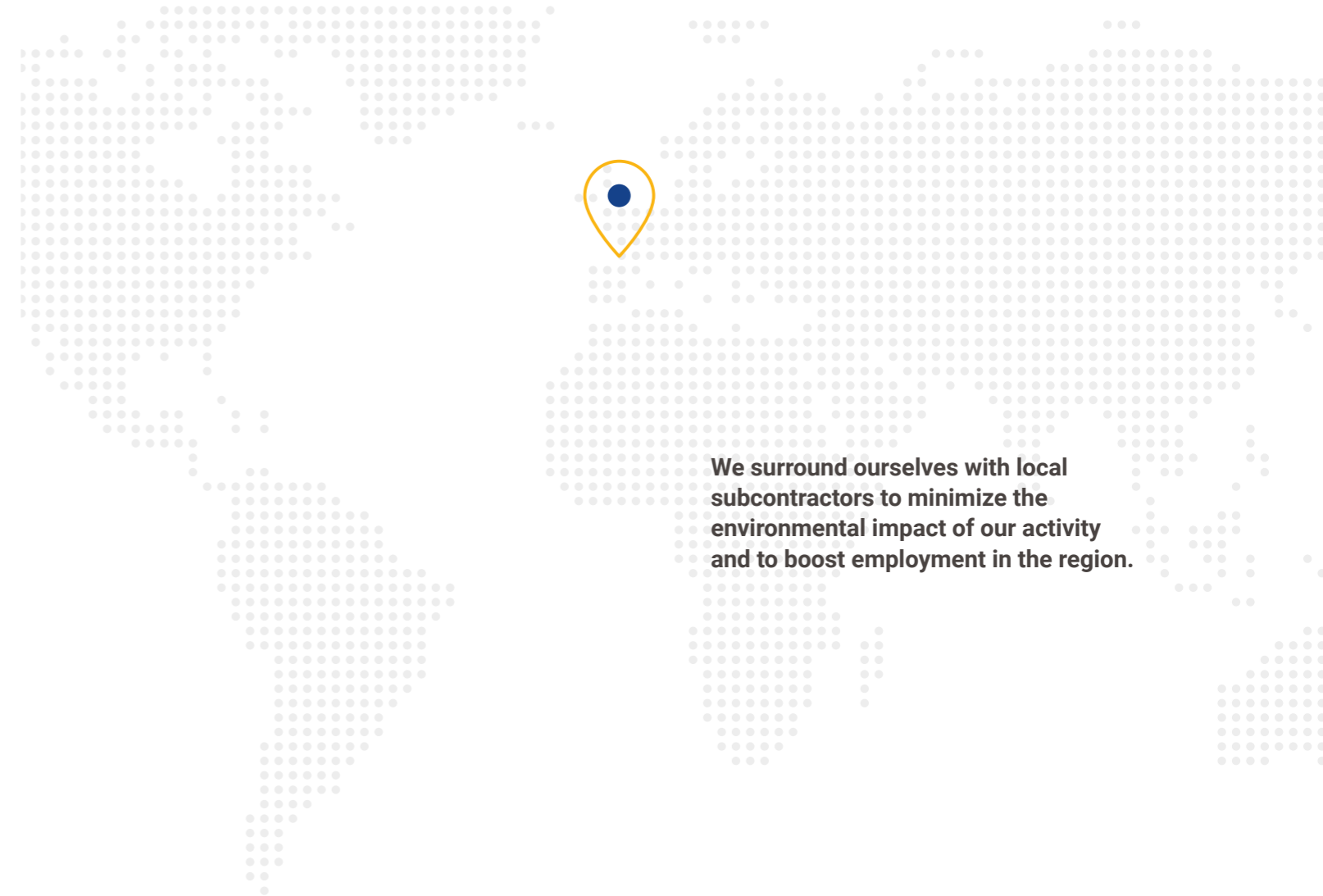
MISSION

We strive for a more intelligent and fairer world by entirely rethinking complex problems

- **Democratize** additive manufacturing and overcome resistance to change
- **Boost** the additive manufacturing industry
- **Optimize** the exploitation of natural resources
- **Enable** emergency manufacturing
- **Improve** product performance and manufacturing processes
- **Promote** latent innovation for a better world

LOCATION

Our products are designed and manufactured with passion in our workshop in France.



We surround ourselves with local subcontractors to minimize the environmental impact of our activity and to boost employment in the region.



We work with an international network of partners and distributors. Please contact us to find your nearest distributor.

SPECS. S600D

Build volume

Ø390mm x 600mm

Layer height

50µm à >1mm

Max. moving speed of toolhead

500mm/s

Build surface

Removable
Hot-swappable
Precision-ground surface

Print job protection

Material run-out detection

Piloting

Standalone touch screen and Web interface

Connectivity

Ethernet

Automatic calibration

Build surface levelling
Geometrical correction
Tool height levelling

Dimensions

I 913 x L 851 x H 1644 mm

Toolhead

Modular. Quick mechanical, electronic
and water-cooling connectors.

X,Y,Z resolution

12.5µm, 12.5µm, 12.5µm

Material supply

Modular

Thermal environment

Heated build surface: 20°C to 200°C
Build chamber: 20°C to 80°C
Water-cooled toolhead

Manufacturing file format

Gcode standard

Customizable firmware

Lynxter S600D firmware (RepRapFirmware base)

Power

230V AC 16A 50-60Hz

Health and safety

Removable double HEPA H14/activated
carbon filtration
Locked machine access



FIL11



FIL33

Filament diameter	Ø1,75mm	Ø1,75mm
Extrusion lines	1	3
Build volume	Ø390 x H.600mm	Ø360 x H.600mm
Maximum enclosure temperature	80°C	60°C
Maximum extrusion temperature	450°C	450°C
Filament feeding system	Bowden	Bowden
Retractable nozzles	No	Yes
Nozzle diameter	Ø0,25mm to Ø1,2mm	Ø0,25mm to Ø1,2mm
Nozzle material	Brass - Steel - Plated Copper - Stainless Steel	Brass - Steel - Plated Copper - Stainless Steel
Multi-extrusion	No	Yes
High-temperature filament compatible (e.g PEKK)	Yes	No



LIQ11



LIQ21



PAS11

Liquid material input	1	2	1
Liquid material output	1	1	1
Build volume	Ø390 x H.600mm	Ø360 x H.600mm	Ø390 x H.600mm
Single-component material compatible	Yes	Yes	Yes
Two-component material compatible	No	Yes	No
Maximum enclosure temperature	40°C	40°C	40°C
Viscosity	10-3 Pa.s to 1000 Pa.s	10-3 Pa.s to 1000 Pa.s	10-3 Pa.s to 1000 Pa.s
Volumetric flow rate	0.03 to 3,3ml/min	0.03 to 3,3ml/min	0.05 to 5,5ml/min
Volumetric resolution	0,03ml/rev	0,03ml/rev	0,05ml/rev
Precise start and end points	Yes	Yes	Yes
Chemical resistance	Yes	Yes	No
Abrasion resistance	No	No	Yes
Nozzle thread	Luer-Lock	Luer-Lock	Luer-Lock
Nozzle diameter	Ø0,23mm to Ø1,04mm	Ø0,23mm to Ø1,04mm	Ø0,23mm to Ø1,04mm
Nozzle material	Steel	Steel	Steel
70°C heating option	Yes	No	Yes
Large volume option (960cc)	Coming Soon	Coming Soon	Coming Soon

WE FOCUS ON REMARKABLE
INNOVATION PROJECTS.
OUR GOAL?

TO PROVIDE THE MOST
AMBITIOUS PROJECTS WITH
OUR KNOW-HOW AND
TECHNOLOGICAL SOLUTIONS:
MAKE IT SMARTER





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