



SINTERIT LISA PRO

Product specification

Benchtop SLS 3D printer

- bigger print volume
- built-in nitrogen chamber
- compatible with many materials
- a possibility of using 3rd party powders
- no calibration needed after delivery



General information

Technology	SLS
Laser system	IR Laser Diode 5 [W] ; $\lambda = 808$ [nm]
Dimensions	690 x 500 x 880 [mm] (27.1 x 19.7 x 34.6 [in])
Weight	90,0 [kg] (198 [lbs])

Print volume

Max size of print diagonally °	316 [mm] (12.4 [in])
Flexa/TPE - high accuracy max print volume	110 x 150 x 250 [mm] (4.3 x 5.9 x 9.8 [in])
PA - high accuracy max print volume	90 x 130 x 230 [mm] (3.5 x 5.1 x 9 [in])

Printer parameters

Size of Print Bed	150 x 200 x 260 [mm] (5.9 x 7.9 x 10.2 [in])
XY accuracy	from 0,05 [mm] (0.002 [in])
The layer height Z (min - max)	0,075 - 0,175 [mm] (0.003 - 0.007 [in])

Print features

Min. wall thickness	from 0,4 [mm] (0.015 [in])
Min. detail size	from 0,1 [mm] (0.003 [in])
Hole Diameter	from 0,5 [mm] (0.019 [in])
Moving Part Clearance	from 0,2 [mm] (0.007 [in])

Additional printer features

Nitrogen chamber	Built-in
Coupling installed in Lisa Pro	Pneumatic quick-coupling Male Plug Nipple DN7.2
Average Nitrogen consumption	0,48 [m ³ /hour]

Information provided within this document are typical values for reference and comparison only. Parameters presented in this data sheet are subject to change. Final part properties may vary based on printed part design and print orientation. Material during tests - parameters are subject to change.

Software

Software ²	Sinterit Studio 2019 Open
Supported file types	STL, OBJ, 3DS, FBX, DAE, 3MF
OS compatibility	Microsoft Windows

Communication

LCD screen	Capacitive, color
Touchscreen	7 [in]
On-board camera	Built-in
Connectivity	Wifi, Usb port

Heating system

Independent	Heated: piston, cylinder, Feed Bed, Print Bed
Max. temperature in the chamber	200 [°C] / 392 [°F]

Power

Power supply	220-240 [V] AC, 50/60 [Hz], 7 [A] or 100-130 [V] AC, 50/60 [Hz], 15 [A]
Average power consumption	1 [kW]
Maximum power consumption	1,8 [kW]

Packaging

Package contains	LISA PRO 3D printer + Set of Accessories + Manual
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Warranty

One year limited warranty

Software Versions

Supported materials	Sinterit Studio	Sinterit Studio Open	Sinterit Studio Profiles	Sinterit Studio Advanced
PA12 Smooth	●	●	●	●
PA11 Onyx ³	●	●	●	●
Flexa Grey	●	●	●	●
Flexa Black	●	●	●	●
Flexa Soft	○	○	●	●
Flexa Bright	○	○	●	●
TPE	○	○	●	●
Open Parameters	○	●	○	●

⁰ Max size of print diagonally depends on the type of material.

¹ Material refreshing ratio - percent of Fresh powder which has to be mixed with Used (unsintered) powder - to be reused to the next print.

² Technical requirements to install Sinterit Studio Software: 64-bit processor / Windows 7 or higher / Minimum 1 GB of disc space / Minimum 2 GB of RAM / Graphics adapter compatible with OpenGL 3.0 or higher.

³ PA11 Onyx can be printed only with Lisa Pro 3D Printer