SINTERIT LISA PRO
Product specification

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

General information

Status	September 2018
Technology	SLS
Laser system	IR Laser Diode 5 [W] ; λ =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[0]	316 [mm] (12.4 [in])
Flexa - high accuracy max print volume	110 x 160 x 250 [mm] (4.3 x 6.2 x 9.8 [in])
PA - high accuracy max print volume	90 x 120 x 230 [mm] (3.5 x 4.7 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])

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Additional printer features

Nitrogen chamber	Built-in
Coupling installed in Lisa Pro	Pneumatic quick-coupling Male Plug Nipple DN7.2
Average Nitrogen consumption	0,15 [m^3 /hour]

Materials

Powder PA11 - polyamide 11	15-76 [μm] (0,59 - 3 [mil]), average size 40 [μm] (1,6 [mil])
PA12 Smooth - polyamide 12	20-100 [μm] (0,79 - 3,94 [mil]), average size 38 [μm] (1,5 [mil])
Powder Flexa Black	20-105 [μm] (0,79 - 4,13 [mil])
Powder Flexa Grey	20-105 [μm] (0,79 - 4,13 [mil])
Nitrogen use materials	In progress
Material refreshing ratio[1]	from 0 - 50 % depending on the material

Software

Software[2]	Sinterit Studio 2018
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 Bad, Print Bad
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

Warranty

	One year limited warranty

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[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: Windows 7 or higher / Minimum 500 MB of disc space / Minimum 2 GB of RAM / Graphics adapter compatible with OpenGL 3.0 or higher.

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