

## Sinterit Lisa 2

Benchtop SLS 3D printer - product specification



GENERAL INFORMATION	
Status	September 2018
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 <sup>0</sup>	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])

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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 2	Pneumatic quick-coupling Male Plug Nipple DN7.2
Average Nitrogen consumption	0,15 [m <sup>3</sup> /hour]
MATERIALS	
Powder PA11 - polyamide 11	15-76 [µm] (0,59 - 3 [mil]), average size 40 [µm] (1,6 [mil])
Powder 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 <sup>1</sup>	from 0 - 50 % depending on the material
SOFTWARE	
Software <sup>2</sup>	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	

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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 2 3D printer + Set of Accessories + Manual
WARRANTY	
	One year limited warranty

<sup>0</sup> Max size of print diagonally depend on the type of material.

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

<sup>2</sup> 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.