

Magforms SLA 3D Printer Technical Specifications



PRINTER PROPERTIES

3D Printer

SL 600

SL 800

3D Printer Size Crated (WxDxH)

1500 x 1550 x 2150mm
59.1 x 61 x 84.6 in

3D Printer Size Uncrated (WxDxH)

Without monitor and LED light:
1390 x 1345 x 1940 mm
54.7 x 53 x 76.4 in
With monitor and LED light:
2040 x 1430 x 2172 mm
80.3 x 56.3 x 85.5 in

Without monitor and LED light:
1760 x 1730 x 2100 mm
(65.7 x 68.1 x 82.7 in
With monitor and LED light:
2400 x 1800 x 2420 mm
(94.5 x 68.1 x 95.3 in

3D Printer Weight Crated

1156 kg
2549 lbs

3D Printer Weight Uncrated

965kg
2127 lbs

1700 kg
3748 lbs

Electrical Requirements

220-240 VAC
50/60 Hz
Single Phase
2.2 kW

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50/60 Hz
Single Phase
2.2 kW

Operating Temperature Range

22-26 °C
71.6-78.8 °F

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71.6-78.8 °F

Humidity Range

35-45 %RH
Non-condensing

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Non-condensing

Laser

Solid-state frequency tripled Nd:YVO4

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Recoater Rim

Marble

Marble

Accessories

UPS
Drain Device
Post Curing Apparatus

UPS
Drain Device
PCA800 Post Curing Apparatus

PRINTING SPECIFICATIONS

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SL 600

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Max Build Volume (xyz)

600 × 600 × 400 mm
23.6 × 23.6 × 15.7in

800 × 800 × 550 mm
31.5 × 31.5 × 21.7in

Full

208 L
55.3 U.S. gal

510 L
136 U.S. gal

Resin Vat Capacity

~245 kg
540 lbs

~610 kg
1345 lbs

Accuracy

L ≤ 100 mm: ± 0.1 mm
L ≤ 3.94 in: ± 0.004 in
L > 100 mm: ± 0.1% × L
L > 3.94 in: ± 0.1% × L
*Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.

L ≤ 100 mm: ± 0.15 mm
L ≤ 3.94 in: ± 0.006 in
L > 100 mm: ± 0.15% × L
L > 3.94 in: ± 0.15% × L
*Accuracy may vary depending on parameters, part geometry and size, pre-processing or post-processing methods, materials and environment.

Slicing Thickness

0.05-0.15 mm
0.002-0.006 in

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0.002-0.006 in

Intelligent Scanning Strategy

Viable Laser Beam

Viable Laser Beam

XY Resolution

0.025 mm
0.001 in
*XY resolution describes image grayscale adjust.

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Fine Feature/Outer Surface Scanning

0.15-0.2 mm
0.006-0.008 in

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0.006-0.008 in

Larger Feature/Internal Surface Scanning

0.5-0.6 mm
0.020-0.024 in

0.5-0.6 mm
0.020-0.024 in

MATERIALS

Build Materials

Please refer to the TDS and MSDS for more information for the printing material.

Please refer to the TDS and MSDS for more information for the printing material.

Material Packaging

10 kg per barrel

10 kg per barrel

SOFTWARE AND NETWORK

3D Printer Software

Magforms iBuild 2.0

Magforms iBuild 2.0

Printer Operating System

Windows® 10

Windows® 10

Input Data File Formats Supported

SLC,CLI

SLC,CLI