

LASERFORM OVEN

FOR PARTS BUILT WITH LASERFORM ST-100 MATERIAL

Technology:	Selective Laser Sintering, SLS
Material Class:	Powder; Metal



Ensure reliable, repeatable results with LaserForm ST-100 material parts

The LaserForm oven is the only oven made specifically for sintering and infiltrating parts, prototypes, or tools made with LaserForm ST-100 material. Its unique combination of features and automation deliver the reliable, repeatable results you need to improve designs, meet deadlines, and shorten production cycles.

Count on simple, automated, operation. The LaserForm oven is pre-programmed: just push a button and it automatically adjusts the temperature for each step of the process. Sensors automatically make additional adjustments in each of the three temperature zones, if needed. Nitrogen flow stops when the oven reaches a pre-set temperature, and the oven powers itself down at the end of the process. A built-in motorised crane makes loading and unloading parts a one-person job.

Get the control you need for the results you want. The LaserForm oven's controller automatically records critical run data, which you can use to verify consistent operation and results. Sensors monitor each cycle; process deviation alarms notify you of problems, and the controller automatically shuts down if the temperature cannot be maintained.

Choose from a full line of accessories. LaserForm oven accessories include:

Crucibles — graphite containers for holding parts and bronze during the infiltration process

Metal cart with a hydraulic lift surface, for lifting parts from the SLS system, setting up crucibles for the oven, and transporting hot crucibles from the oven

Consumables, including bronze ingots for infiltrating "green" LaserForm ST-100 material parts and alumina powder for covering and supporting parts in the oven.

Benefits

- One-button automated operation
- Temperature sensors, controls and alarms
- Built-in crane for loading and unloading parts
- Automatic recording of run data



LaserForm Oven Specifications



Specifications

Temperature	Up to 1070°C
Electrical	Supply Voltage: 240 VAC, 3 phase, 50/60 Hz
Power	18.9 kVA peak; 11.3 kVA average
Inner Size	61 cm diameter x 46 cm high
Footprint	1.3 m x 1.52 m
Footprint with Clearance	3.35 m x 3.05 m
Crane Lift Capacity	136 kg
Nitrogen Requirements	99.998% purity, 30 l/m
Facility Cooling and Exhaust Requirements	Remove heat at rate of 63 MJ/h as well as smoke removal

3D Systems Europe Ltd.

Mark House
Mark Road
Hemel Hempstead, Herts.
HP2 7UA
telephone + 44 1442 282 600
fax + 44 1442 282 601
e-mail marketing@3dsystems.co.uk

3D Systems GmbH

Postfach 12 02 07
D-64239 Darmstadt
Germany
telephone + 49 61 51 / 3 57-0
fax + 49 61 51 / 3 57-333
e-mail info@3dsystems-europe.com

www.3dsystems.com

Nasdaq: TDSC

FRANCE

telephone +33 1 69 35 17 17

HONG KONG

telephone +852 29 23 50 77

ITALY

telephone +39 039 689 04 00

SPAIN

telephone +34 937 41 49 49

USA

telephone +1 661 295 5600 ext. 2882

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