# **Laser Sintering Production System**



# Introduction >>

S600DL is equipped with dual laser, dual digital dynamic focusing system, intelligent division of labor and collaborative scanning mode, not simply expand the building volume, but greatly improve the production efficiency at the same time, to ensure the quality of parts. The building size of the equipment reaches 600×600×800mm, which is the largest building volume equipment in the industry at present and suitable for large size parts.

# Applications >>



Size X × Y × Z (mm)

Weight (Kg)







2700 × 1830 × 2300

1,000



# SLS 3D Printer Specification

## Build Chamber Size $X \times Y \times Z$ (mm) Effective Space Size $X \times Y \times Z$ (mm) Dimension of Main Machine W × D × H (m) Dimension of Control Unit $W \times D \times H$ (m) Weight of Main Machine (kg)

CO<sub>2</sub> Laser Power (w)

Focusing

Building Speed (mm/h)

Layer Thickness (mm)

Diameter of Laser Beam (mm) Maximum Scanning Speed (mm/s) Maximum Operating Temperature (°C) Powder Pyrometer Long Term Stability (°C/Year)

Powder Feeding Type

Data Format

Data Processing Software

Options for Color of SLS Parts

STL

Windows 10.0

Voxeldance Additive - TPM3D Version

**S600DL** 

1,750

10~25

0.42

25,000

230/160

600 × 600 × 800

590 × 590 × 790

1.65 × 1.52 × 2.36

0.60 × 1.06 × 1.92

140 x2 Double laser

0.06 ~ 0.2 Adjustable,

3-axis, dynamic focusing

Recommended Values 0.12

• Powder discharged upside,

Powder fed both sides

White, black or other colors

Auto Lock for Platform Yes Lifting Trolley Manual Active Cooling Yes Thermal Management for Control Cabinet Chiller

Powder Recoater Smart dual blade

**Electrical Protection** PL-e Dual-channel security control

Nitrogen generator Integration

380V, 3P/N/PE, 32A, 50/60Hz, Avg 4kW Power

# Part & Powder Processing Station (600ver)

TPM3D released an innovative clean production solution, the Part & Powder Processing Station (PPS), which provides a perfect solution to prevent powder leakage. The PPS solution not only keeps your work place from any dust pollution, but also helps save your production time and cost. Both automatic and manual operation modes are available on the PPS, which provides you with more flexibilities when using the TPM3D SLS AM system.

Powder Feeding Rate (Kg/h)	50
Maximum Power (Kw)	4
Intake Pressure (MPa)	≥0.5
Air Flow Requirement (L/min)	≥200
Dust Explosion-Proof Grade (GB3836 / GB12476)	Dust Explosion - Proof Zone 22
Working Noise (dB)	≤70
Power	380V, 3P/N/PE, 10A, 50/60Hz, Avg 2kW
Maximum Capacity	1 SLS System





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