Laser Sintering Production System



Introduction >>

S480 has a large molding range and high scanning speed, is suitable for the manufacture of large quantities of plastic parts or small-volume parts in batch; when used in combination with S480, it has the manufacturing capability of small parts and large parts, and gives consideration to economical efficiency and extremely high capacity of parts production, which is the preferred equipment matching scheme for additive manufacturing service agencies.

Applications >>>











Appliances

Education

Part & Powder Processing Station (480ver)

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.

Size $X \times Y \times Z$ (mm)	2285 × 1700 × 2070
Weight (Kg)	500
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 or 2 SLS Systems

S 3D Printer Specification

Build Chamber Size X×Y×Z (mm)	480 × 480 × 600
Effective Space Size X×Y×Z (mm)	470 × 470 × 590
Dimension of Main Machine $W \times D \times H$ (m)	1.60 × 1.48 × 2.09
Dimension of Control Unit $W \times D \times H$ (m)	$0.60 \times 1.06 \times 1.92$
Weight of Main Machine (kg)	1,450
CO ₂ Laser Power (w)	100

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

3-axis, dynamic focusing 10~25

0.06 ~ 0.2 Adjustable,

Recommended Values 0.12

0.31 21,000 230/160

• Powder discharged upside, Powder fed both sides

Data Format

Windows 10.0

Data Processing Software Voxeldance Additive - TPM3D Version Options for Color of SLS Parts

White, black or other colors

Single blade

STL

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

Electrical Protection PL-e Dual-channel security control

Nitrogen generator Integration

380V, 3P/N/PE, 32A, 50/60Hz, Avg 3.5kW Power

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Powder Recoater



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