

SX-44

Industrial PBF 3D Printers

High-Speed Powder Bed Fusion
High Use Rate of the Nylon Powder
Intelligent Dual-Blade Recoater



SX-44

◆ Overview

SX-44 3D printer uses the Powder Bed Fusion (PBF) tech to print parts , with which a laser selectively sinters the particles of a polymer powder, fusing them together and building a part, layer by layer.

◆ Advantage

- High-Speed Powder Bed Fusion
The optimized scanning and heating system have effectively improved the printing speed. Products about 5KG can be printed out within 24 hours.
- High Use Rate of the Nylon Powder
The original revival technology of PA powder makes the powder utilization rate close to 100%.
- High Use Rate of the Printer
The external powder tank realizes continuous powder feeding and powder replenishment at any time. And the quick tank loading reduces the machine preparation time, thus improving the use rate of the printer.
- Intelligent Dual-Blade Recoater
The dual-blade recoater brings better surface smoothness and details for the industrial-quality parts, which also decreases the amount of powder overflow, thus improving the material use rate.

◆ Ideal Applications



Automotive



Medical



Animation



Prototype



Education



Footwear

SX-44

◆ Technical Data

Machine Size	1775×1315×2095mm
Forming Cylinder Size	440×440×450mm
Equipment Net Weight	1980 KG
Recommend Layer Thickness	0.06~0.3mm adjustable
Scanning System	High precision 3D dynamic focus
Laser System	CO ₂ laser system, 60W
Galvanometer Scanner	Three-axis dynamic focusing scanning system
Maximum Molding Temperature	220℃
Temperature Control System	8-zone independent temperature control
Operating System	Windows10/11
System Control Software	self developed SX-44
Power Requirements	380V, 3~/N/PE, 50Hz
Forming Materials	PA12, PA12GB, TPU-23, Other Materials
Environmental Requirements	20~30 degrees celsius, humidity within 30%~60%