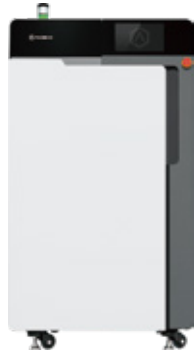


# Raise3D RMS220 Series

Rapid Manufacturing Simplified



**Raise3D RMS220**  
SLS Printer



**Raise3D Build Unit 220**  
Build Unit



**Raise3D C220-P**  
Cleaning Station

Raise3D RMS220 Series is a set of powerful selective laser sintering (SLS) production system, optimized for productivity, stability, and easy to use and maintenance. It enables the highspeed printing of engineering plastics and composites. When running at full capacity, the max throughput for parts can reach up to 5kg/day, which allows the users to produce end-use parts efficiently.

## High-Efficiency Batch Production

- Maximum daily output of 5 kg (using PA12)
- Large build volume of 220 × 220 × 350 mm
- Print speed of 2.2 L/h (20% packing density)
- Maximum scanning speed of 30,000 mm/s

## Extraordinary Precision and Reliability

- Dimensional accuracy of  $\pm 0.2$  mm
- Minimum thin-wall thickness of 0.5 mm (using Raise3D PA11)
- 4 zone self-calibrating IR heating system ensures consistent and repeatable print results







## Low Total Cost of Ownership (TCO) and High Output

- 75W laser ensures high productivity and high turnover rates of machine
- Easily get started within 10 minutes
- 0.58 m<sup>2</sup> footprint minimizes space requirements and reduces energy consumption

## Industrial and Functional SLS Material

- Supports a broad range of materials: Raise3D PA12, Raise3D PA12 GB, Raise3D TPU90A, Raise3D TPU90A White, Raise3D PA11
- Fast material change, taking only 45 minutes (1/3 the time of traditional SLS printers)

## Application

- |  |  |  |
|--|--|--|
|  Tools and fixtures  |  Industrial complex parts |  Circuit housings       |
|  Electrical switches |  Customized shoe insoles  |  Automotive spare parts |

# Raise3D RMS220 Series Technical Specification

| Raise3D RMS220 Specification |   |
|------------------------------|---|
| Print Technology             | Selective laser sintering (SLS)   |
| Print Volume (W × D × H)     | 220 × 220 × 350 mm (8.7 × 8.7 × 13.8 inch)  |
| Laser                        | 75 W fiber laser, wavelength 1064 nm  |
| Galvo                        | High speed, high precision galvo system, with F-theta length<br>max scanning speed 30000 mm/s |
| Material type                | Powder  |
| Printing Speed               | 2.2 L/h (packing density 20% by weight)   |
| Max Powder Temp.             | 220 °C  |
| Max Platform Temp.           | 180 °C  |
| Max Cylinder Temp.           | 180 °C  |
| Active Cooling               | Yes   |
| RFID                         | Yes   |
| Hopper Size                  | 31.5 L, 40 L if extended with material box  |
| Powder Level Sensor          | Yes   |
| Layer Height                 | 0.05-0.40 mm<br>We recommend 0.1-0.25 mm layer height for stable printing.                    |
| Connectivity                 | Wi-Fi, LAN, USB, real-time camera   |
| Air Filter                   | HEPA + activated carbon filter  |
| Slicer                       | ideaMaker   |
| Input File Formats           | STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS   |
| Operation System             | WINDOWS/ macOS/ LINUX   |
| Export File Format           | .slscode  |

| Raise3D C220-P Specification |   |
|------------------------------|---|
| Print Volume (W × D × H)     | 220 × 220 × 350 mm (8.7 × 8.7 × 13.8 inch)          |
| Supported Printer            | Raise3D RMS220 Series SLS Printer                   |
| Hopper Size                  | Fresh powder hopper: 20L<br>Used powder hopper: 20L |
| RFID                         | Yes   |

| Materials           |   |
|---------------------|---|
| Supported Materials | Raise3D PA12 Powder/ Raise3D PA12 GB Powder/ Raise3D TPU90A Powder/<br>Raise3D TPU90A White Powder/ Raise3D PA11 Powder |