

Raise3D RMS220 Technical Specifications

Printer	Raise3D RMS220	
Print Volume (W × D × H)	220 × 220 × 350 mm (8.7 × 8.7 × 13.8 inch) / 17 L	
	Printer	Build Unit 220
Machine Size (W × D × H)	Machine body: 861 × 685 × 1560 mm (33.9 × 27 × 61.4 inch) With tower light: 861 × 685 × 1760 mm (33.9 × 27 × 69.3 inch)	536.5 × 333 × 1005 mm (21.1 × 13.1 × 39.6 inch)
Weight	Net Weight: 283 kg (623.9 lbs) (Powder container & powder not included)	Net Weight: 62 kg (136.7 lbs) (Powder not included)
Input	200-240VAC, 50/60Hz, 230VAC@15A	20-26VDC, 24VDC@6A
General	Technology Selective laser sintering (SLS) Laser 75 W infrared fiber laser, wavelength 1064 nm Galvo High speed, high precision galvo system, with F-theta lens 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 We recommend 0.1-0.2 mm layer height for stable printing. Connectivity Wi-Fi, LAN, USB, real-time camera Noise <65 dB(A) when running Environment Operating: temperature 15-30°C, humidity ≤ 30-70%RH without condensing Storage: temperature -10°C-60°C, humidity ≤ 30-70%RH without condensing Air Filter HEPA + activated carbon filter Atmosphere Air/ Nitrogen (Built in nitrogen generator in RMS220, compressed air required.)	
Materials	Supported Materials Raise3D PA NEXT Black Powder/ Raise3D PA NEXT GB Black Powder/ Raise3D PA11 Black Powder/ Raise3D TPU86A Black Powder/ Raise3D TPU86A White Powder/ Raise3D TPU90A Black Powder/ Raise3D PA12 Black Powder/ Raise3D PA12 GB Black Powder Support selected third-party materials OMP (Open Material Program) Optional fully open material license available	
Software	Slicer ideaMaker Input File Formats STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS Operation System WINDOWS/ macOS/ LINUX Export File Format .slscode	
Controls	User Interface 11.5" Touchscreen Network Wi-Fi, Ethernet Screen Resolution 2560 × 1600 Motion Controller GigaDevice Arm Cortex-M4 200MHz FPU Logic Controller Rockchip RK3568 Arm Quad Cortex-A55 2GHz Memory 4 GB Flash 32 GB Operating System LINUX Interfaces USB 3.0 × 1, Ethernet × 1	