

Raise3D RMS220 Series Technical Specifications

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.

Printer	Raise3D RMS220	
Print Volume (W × D × H)	220 × 220 × 350 mm (8.7 × 8.7 × 13.8 inch)	
Machine Size (W × D × H)	Printer	Build Unit 220
	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	Printer (Material box & powder not included)	Build Unit 220 (Powder not included)
	Net Weight: 283 kg (623.9 lbs)	Net Weight: 62 kg (136.7 lbs)
Power	Input	190-240VAC, 50/60Hz, 230V@16A
General	<p>Technology Selective laser sintering (SLS)</p> <p>Laser 75 W fiber laser, wavelength 1064 nm</p> <p>Galvo High speed, high precision galvo system, with F-theta length max scanning speed 30000 mm/s</p> <p>Material type Powder</p> <p>Printing Speed 2.2 L/h (packing density 20% by weight)</p> <p>Max Powder Temp. 220 °C</p> <p>Max Platform Temp. 180 °C</p> <p>Max Cylinder Temp. 180 °C</p> <p>Active Cooling Yes (available soon)</p> <p>RFID Yes (available soon)</p> <p>Hopper Size 31.5 L, 40 L if extended with material box</p> <p>Powder Level Sensor Yes</p> <p>Layer Height 0.05-0.40 mm We recommend 0.1-0.25 mm layer height for stable printing.</p> <p>Connectivity Wi-Fi, LAN, USB, real-time camera</p> <p>Noise <65 dB(A) when running</p> <p>Environment Operating: temperature 15-30°C, humidity ≤50%RH without condensing Storage: temperature -10°C-60°C, humidity ≤50%RH without condensing</p> <p>Air Filter HEPA + activated carbon filter</p>	
Materials	Supported Materials	Raise3D PA12 Powder/ Raise3D PA12 GB Powder/ Raise3D TPU90A Powder/ Raise3D TPU90A White Powder/ Raise3D PA11 Powder
Software	<p>Slicer ideaMaker</p> <p>Input File Formats STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS</p> <p>Operation System WINDOWS/ macOS/ LINUX</p> <p>Export File Format .slscode</p>	
Controls	<p>User Interface 11.5" Touchscreen</p> <p>Network Wi-Fi, Ethernet</p> <p>Screen Resolution 2560 × 1600</p> <p>Motion Controller GigaDevice Arm Cortex-M4 200MHz FPU</p> <p>Logic Controller Rockchip RK3568 Arm Quad Cortex-A55 2GHz</p> <p>Memory 4 GB</p> <p>Flash 32 GB</p> <p>Operating System LINUX</p> <p>Interfaces USB 3.0×1, Ethernet×1</p>	

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Cleaning Station	Raise3D C220-P	
Print Volume (W × D × H)	220 × 220 × 350 mm (8.7 × 8.7 × 13.8 inch)	
Machine Size (W × D × H)	Machine body	Incl. control panel & tower light
	1238 × 823 × 1740 mm (48.7 × 32.4 × 68.5 inch)	1384 × 823 × 1928 mm (54.5 × 32.4 × 75.9 inch)
Weight	Net Weight (Material box or powder not included)	
	263 kg (579.8 lbs)	
Power	Input	190-240VAC, 50/60Hz, 230V@2.6A (External vacuum not included)
General	Supported Printer	Raise3D RMS220 Series SLS Printer
	Hopper Size	Fresh powder hopper: 20L Used powder hopper: 20L
	RFID	Yes (available soon)
	Connectivity	Wi-Fi, LAN, USB
	Noise	<70 dB(A) when running, external vacuum not included
	Environment	Operating: temperature 15-30°C, humidity ≤ 50%RH without condensing Storage: temperature -10°-60°C, humidity ≤ 50%RH without condensing
	Air Filter	HEPA
Materials	Supported Materials	Raise3D PA12 Powder/ Raise3D PA12 GB Powder/ Raise3D TPU90A Powder/ Raise3D TPU90A White Powder/ Raise3D PA11 Powder
Controls	User Interface	7" Touchscreen, buttons with backlight
	Connectivity	Wi-Fi, Ethernet
	Screen Resolution	1280 × 800
	Motion Controller	GigaDevice Arm Cortex-M4 200MHz FPU
	Logic Controller	Rockchip RK3568 Arm Quad Cortex-A55 2GHz
	Memory	2 GB
	Flash	16 GB
	Operating System	LINUX
	Interfaces	USB 3.0×1, Ethernet×1