## 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	Technology Laser Galvo Material type Printing Speed Max Powder Temp. Max Platform Temp. Max Cylinder Temp. Max Cylinder Temp. Active Cooling RFID Hopper Size Powder Level Sensor Layer Height Connectivity Noise Environment Air Filter	Selective laser sintering (SLS) 75 W fiber laser, wavelength 1064 nm High speed, high precision galvo system, with F-theta length max scanning speed 30000 mm/s Powder 2.2 L/h (packing density 20% by weight) 220 °C 180 °C 180 °C 180 °C Yes Yes 31.5 L, 40 L if extended with material box Yes 0.05-0.40 mm We recommend 0.1-0.25 mm layer height for stable printing. Wi-Fi, LAN, USB, real-time camera <65 dB(A) when running Operating: temperature 15-30°C, humidity ≤ 50%RH without condensing Storage: temperature -10°C-60°C, humidity ≤ 50%RH without condensing HEPA + activated carbon filter	
Materials	Supported Materials	Raise3D PA12 Powder/ Raise3D PA12 GB Powder/ Raise3D TPU90A Powder/ Raise3D TPU90A White Powder/ Raise3D PA11 Powder	
Software	Slicer Input File Formats Operation System Export File Format	ideaMaker STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS WINDOWS/ macOS/ LINUX .slscode	
Controls	User Interface Network Screen Resolution Motion Controller Logic Controller Memory Flash Operating System Interfaces	11.5" Touchscreen Wi-Fi, Ethernet 2560 × 1600 GigaDevice Arm Cortex-M4 200MHz FPU Rockchip RK3568 Arm Quad Cortex-A55 2GHz 4 GB 32 GB LINUX USB 3.0×1, Ethernet×1	



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leaning 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)		
	Supported Printer	Raise3D RMS220 Series SLS Printer		
	Hopper Size	Fresh powder hopper: 20L		
		Used powder hopper: 20L		
	RFID	Yes		
General	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		
	Supported Materials	Raise3D PA12 Powder/ Raise3D PA12 GB Powder/ Raise3D TPU90A Powder/		
Materials		Raise3D TPU90A White P	owder/ Raise3D PA11 Powder	
	User Interface	7" Touchscreen, buttons with backlight		
	Connectivity	Wi-Fi, Ethernet		
	Screen Resolution	1280 × 800		
	Motion Controller	GigaDevice Arm Cortex-M4 200MHz FPU		
Controls	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		

