

# Technical Specifications

PRINTER	RMF500	
CONSTRUCTION	Build Volume ( W × D × H )	
	Single Extruder Print	Dual Extruder Print
	500 × 500 × 500 mm	500 × 500 × 500 mm
	Machine Size ( W × D × H )	
	1366 × 991 × 2341 mm	
ELECTRICAL	Power Supply Input	30 A @ 3-Phase 380 V AC
	Power Supply Output	24 V, 350 W; 12V, 75W;
GENERAL	Print Technology	FFF
	Print Head	Independent Dual Electric Nozzle Extrusion System
	Filament Diameter	1.75 mm
	XYZ Positioning Resolution	1, 1, 0.09765 micron
	Print Head Travel Speed	≤300 mm/s
	Build Plate	PEI Build Plate with Vacuum Manifold
	Max Build Plate Temperature	110°C
	Heated Bed Material	Steel
	Build Plate Leveling	Auto leveling
	Supported Materials	PA12 CF/ PA12 CF Support ( PPA CF, PET CF and PPS CF Coming Soon )
	Layer Height	0.05-0.75 mm
	Nozzle Diameter	0.6 mm ( Default ), 0.4/ 0.8/ 1.0 mm ( Available )
	Max Nozzle Temperature	330°C
	Connectivity	Wi-Fi, LAN, USB port, Live camera
	Operating Ambient Temperature	13-39°C, 30-70% RH Non-Condensing( HOLD )
	Storage Temperature	-40 to 54°C, 10-85% RH Non-Condensing( HOLD )
SOFTWARE	Slicing Software	ideaMaker
	Supported File Types	STL/ OBJ/ 3MF/ OLTP
	Supported OS	Windows/ macOS/ Linux
	Machine Code Type	GCODE
PRINTER CONTROLLER	User Interface	13.3-inch Touchscreen
	Network	Ethernet, Wireless 802.11 b/g/n, Dual Mode Wi-Fi
	Screen Resolution	1920 × 1080
	Motion Controller	ARM Cortex M4
	Logic Controller	NXP I.MX6Q 1GHz, IM L2 Cache
	Memory	1 GB
	Onboard Flash	8 GB
	OS	Embedded Linux
	Ports	USB 2.0 × 1

