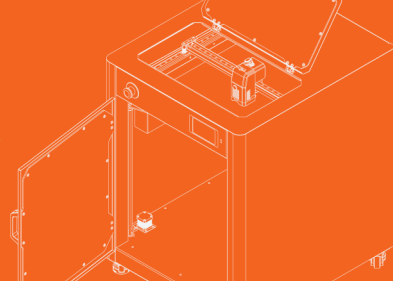


# BLOCKS RF50

## TECHNICAL DATA SHEET

Date of issue: 10.07.2024 | Update: 29.08.2024 | Version: 1.0.0



Printer	Blocks RF50	
Print Technology:	Fused Filament Fabrication (FFF)	
Body	Build Volume	500 x 500 x 500 mm <sup>3</sup>
	Chassis	Aluminium & Steel
	Shell	Steel & Acrylic
Tool Head	Hot End	All - Metal
	Extruder Gears	Hardened Steel
	Nozzle	Hardened Steel
	Max Hot End Temperature	320°C
	Nozzle Diameter (Included)	0.4 mm
	Nozzle Diameter (Optional)	0.2 mm, 0.5mm, 0.6mm, 0.8mm & 1.0mm
	Filament Cutter	Yes
HotBed	Filament Diameter	1.75 mm
	Build Plate	Flexible Textured & Smooth Steel Plate
Speed	Max Build Plate Temperature	110°C @220 V, 120°C @110V
	Max Speed of Tool Head	600mm/s
	Max Acceleration of Tool Head	32 000 mm <sup>2</sup> /s
Cooling	Max Flow Rate	30mm <sup>3</sup> /s
	Auxiliary Part Cooling Fan	Yes
Supported Filament	Air Filter	Activated Carbon Filter
	PLA,PETG, TPU, ABS, ASA, PET, PA & PC	Ideal
Sensors	Carbon/ Glass Fiber Reinforced Polymer	Yes
	Chamber Monitoring Camera	Yes
	Filament Run Out Sensor	Yes
	Filament Flow Sensor	Under Development
	Power Loss Recovery	Yes
	Chamber Temperature Monitoring	Yes
Physical Dimensions	Processing Unit Temperature Sensor	Yes
	Dimensions	677 x 795 x 955 mm (XYZ)
Electrical	Net Weight	74Kg
	Power	24v/ 220v
Electronics	Display	5-inch 1280 x 720 Touch Screen
	Connectivity	WiFi & Ethernet
	Storage	Storage 32GB EMMC & USB
	Control Interface	Touch Screen, PC Dashboard
Software	Slicer	Recommended: OrcaSlicer Compatible: Ultimaker Cura
	OS Systems	Windows & macOS

Key Features	
Resonance compensation	True Z Leveling
Auto Bed Leveling	Fully closed with HEPA filter
CAN bus communication	Status LED
BONDTECH extruder LGX lite	Industrial Linear Guides
Swappable Hot Ends	Auxiliary Extruder for Filament Rolls from 1 kg to 12 kg