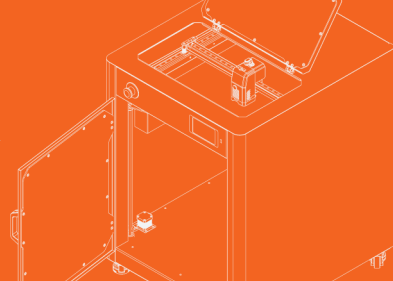


BLOCKS RF50

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 ³ |
| | 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 ² /s |
| Cooling | Max Flow Rate | 30mm ³ /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 |