BLOCKS

PRESENTS

RD50

[1] FULLY CLOSED WITH HEPA FILTERS

Blocks RD50 is fully closed allowing to create a safer surrounding environment impeding the release of particles during the printing process.

[2] RUNOUT FILAMENT SENSOR AND FLOW FILAMENT SENSOR

With these sensors, this machine prevents failures due to the lack of filament or due to clogging in the hotend, increasing performance and success rate of prints.

[3] HEATED CHAMBER AND HEATED FILAMENT CHAMBERS

This machine its equipped with heaters in the chamber of the machine which allows to heat up the chamber up until 75°C increasing the range of technical filaments that can be used. It also has heated filament chambers which help removing humidity from the filament and do a pre-heat of the filament.

[4] REMOTE CONTROL AND BUILT IN CAMERA

This feature creates the possibility to start/pause/stop any prints remotely, see the temperature graph, the progress of the print, and watch the live stream of the print.

[5] POWER LOSS RECOVERY

Allows to recover any print in progress in the event of a power surge.

[8] SWAPPABLE PRINT CORES

Blocks' print cores are also equipped in this machine which allows to reduce the maintenance time by simply changing the print core. With range of different nozzle size print cores the user can also change the print core depending on the desired print quality and time.

[6] AUTO BED LEVELING / TRUE Z BED LEVELING

With 3 independent Z motors, the Blocks RD50 can level the print plate with a maximum standard deviation smaller than the first layer of the part. It also has active Bed Leveling correcting the Z Axis during the print.

[7] IDEX SYSTEM

This system consists on a dual x carriage which means two printing heads in the X axis. This system allows fours different printing modes: Duplicate, Mirror, Multi Color or Multi Material.

Properties

- **[9] Build Volume** (W×D×H)
  500 x 500 x 500 mm
- **[10] Machine Size** (W×D×H)
  822 x 822 x 1032 mm
- **[11] OS Softwares**
  Windows, macOS and Linux
- **[12] Print Technology** — FFF
- **[13] Print Head System**
  Dual direct drive extruder
- **[14] Filament Diameter :** 1.75 mm
- **[15] Print Head Travel Speed**
  50–200 mm/s
- **[16] Print Speed :** 60 mm/s
- **[17] Build Plate**
  Flexible Steel Plate with PEI coating and magnetic fixation
- **[18] Max Build Plate Temperature**
  120°C
- **[19] Build plate heating time**
  <2 minutes to 55°C
  <6 minutes to 100°C
- **[20] Build Plate Leveling**
  Inductive automatic leveling
- **[21] Noise Emission**
  <55 dB(A) during operation
- **[22] Supported Materials**
  PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ CarbonFiber Infused/ Metal Fill/ Wood Fill
- **[23] Layer Height**
  0.01 mm — 0.6 mm
  (depending on the print core installed)
- **[24] Nozzle Diameter**
  0.2/0.4/0.3/0.5/0.6/ 0.8/ 1.0 mm
- **[25] Max Nozzle Temperature**
  275°C — 420°C
- **[26] Hotend heating time**
  <2 minutes to max temperature
- **[27] Connectivity :** Wi-Fi, USB port
- **[28] Software**
  Marlin derived firmware
  Gcode Files Recommended:
  Cura Compatible: Slic3r and Simplify3D
- **[29] Net Weight :** 105 KG
- **[30] Power**
  24v — 14 Amps

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Get to know these and many other breakthrough features that put the Blocks RD50 at the forefront of the industrial 3D printing sector

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www.blockstec.com

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