Quick start guide

3D Printer
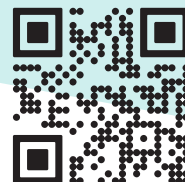
Fracktal Works
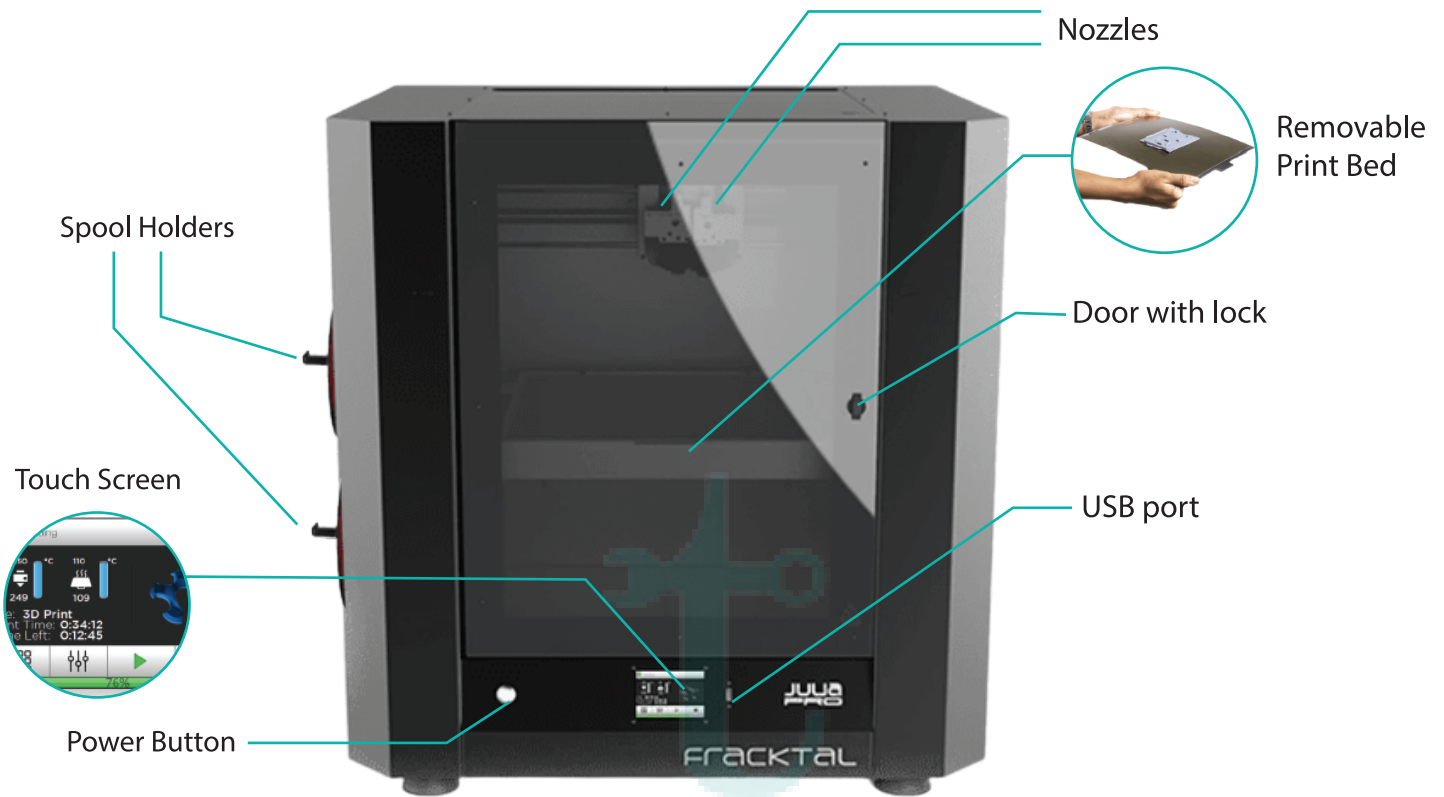# Julia Pro Dual

Scan to Download the Software

Machine Appearance & Accessories

Nozzles

Removable Print Bed

Spool Holders

Door with lock

Touch Screen

USB port

FRACKTAL

JUUA PRO

Power Button
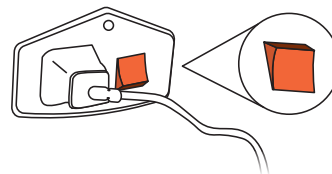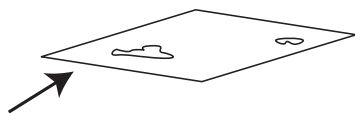
Machine Startup & Testing
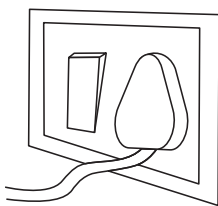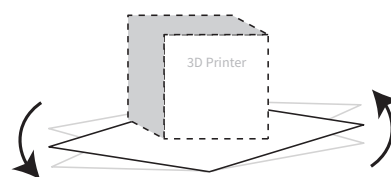
① Switch on the Main switch.

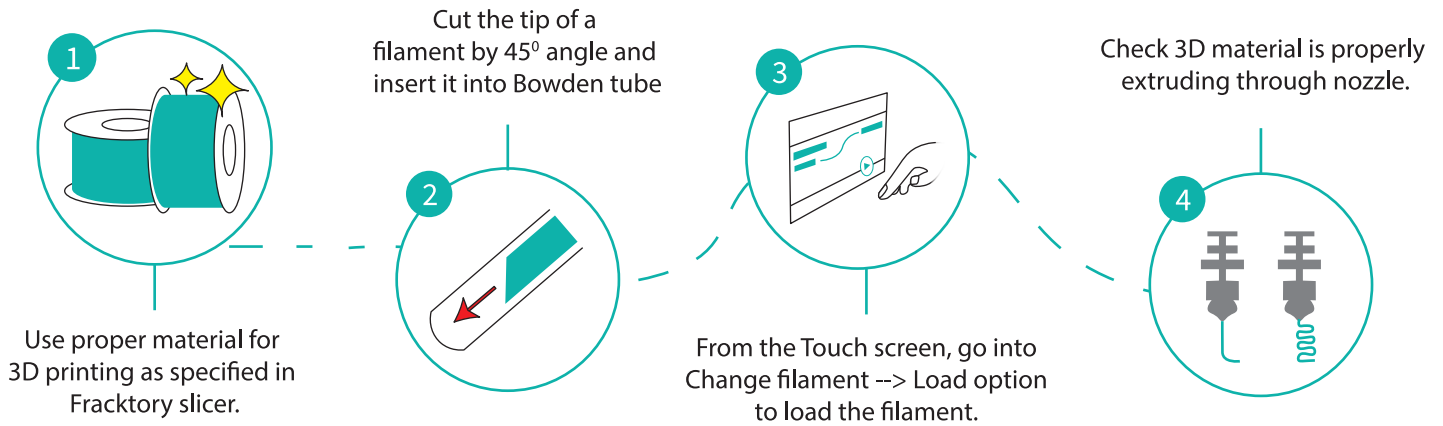② Switch on the machine switch placed at the backside (right side) of the machine.
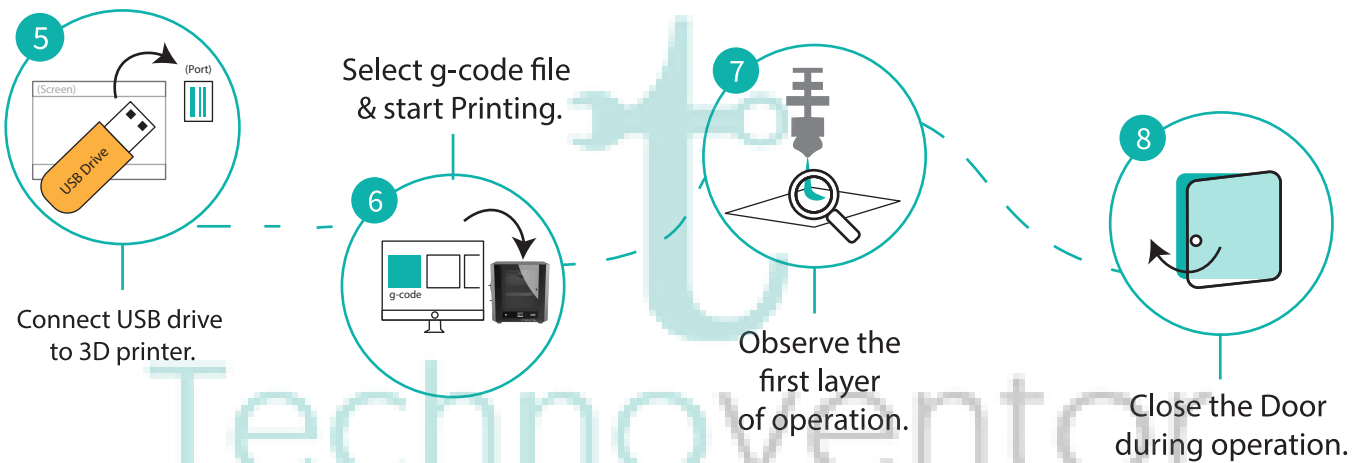
③ Check the bed surface clean or not?

④ Check the bed levelling.

Material Startup

1 Use proper material for 3D printing as specified in Fracktory slicer.

2 Cut the tip of a filament by 45^0 angle and insert it into Bowden tube

3 From the Touch screen, go into Change filament --> Load option to load the filament.

4 Check 3D material is properly extruding through nozzle.

Operation

5 Connect USB drive to 3D printer.

6 Select g-code file & start Printing.

g-code

7 Observe the first layer of operation.

8 Close the Door during operation.

*Check parameters in slicer for both the extruders when doing Dual Nozzle 3D Printing

*Disable "Extruder 1" in slicer to use julia pro as a single nozzle 3D printer.

Post Processing & Maintenance

9 Once the bed is cooled, carefully remove the flexible bed along with the 3D printed object.

10 Remove the 3D model, support, and extra material from the flexible bed.

11 After printing operation, unload, and store filament at proper dry place.

12 Clean the 3D printer and place the flexible bed at it's original position.
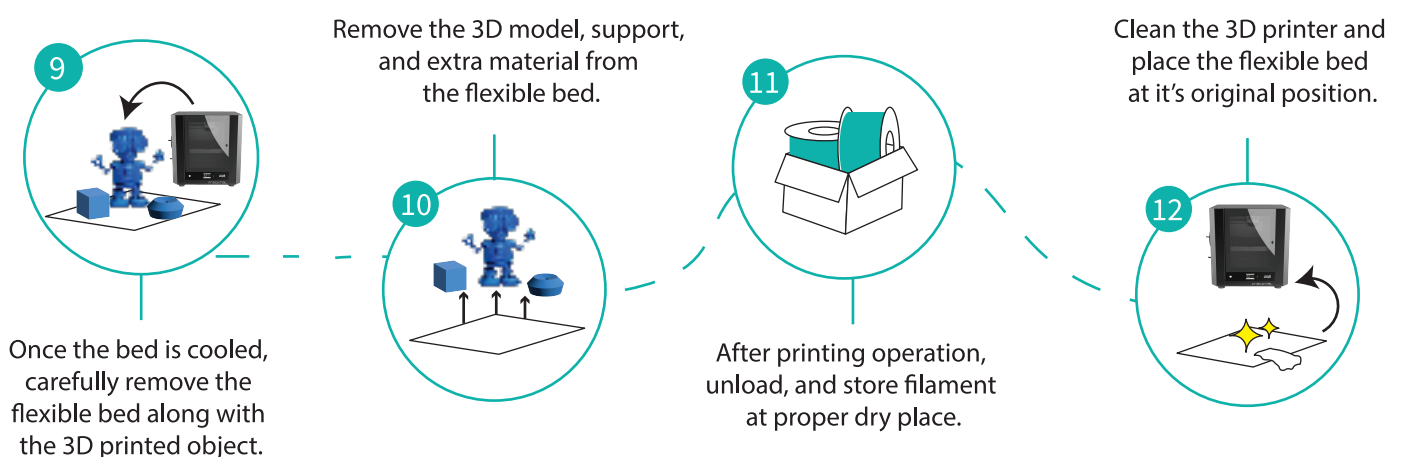
DO's

✓ Always keep machine clean, dry and moisture free.

✓ Always keep proper ventilation surrounding to machine.

✓ Use good quality filament materials.

✓ Clean nozzle and flex bed periodically.

✓ Lubricate X-Y-Z axis using WD-40.

✓ Always switch off the machine while performing maintenance.

DONT's

✗ Do not put the printer near any heat source or inflammable area.

✗ Do not put the printer on any vibrational or unstable environment.

✗ Do not touch nozzle or bed during printing operation.

✗ Do not connect to supply other than AC 230V / 50 Hz.

✗ Do not use any other power cable except one supplied.

✗ Do not interfere with machine while printing operation is going on

✗ Do not use two incompatible materials.

Machine Specification

Machine Size	650 mm x 700 mm x 1200 mm
Build Volume	370 mm x 400 mm x 400 mm
Print Technology	FFF
Filament Diameter	1.75 mm
Nozzle Diameter	0.4 mm to 1.2 mm
Layer Resolution	0.25 mm nozzle: 60 – 180 micron 0.4 mm nozzle: 100 – 300 micron 0.6 mm nozzle: 150 – 450 micron
XYZ Resolution	8 Micron, 8 Micron, 2 Micron
Calibration	Active Automatic Levelling & Calibration
Nozzle Temperatures	Upto 390 °C
File Transfer	Advanced: USB Pen Drive, WIFI, LAN

Build Plate
PEI Flexbuild Surface For all other materials Nylon Surface For Nylon, Nylon CF

Build Plate Temperature
Upto 150 °C

Compatible Materials
ABS, PLA, Tough PLA, PLA+, PETg, PVA, PVA+, BVOH, Polycarbonate, Nylon 12, Carbon Fiber Nylon, Carbon Fiber PLA.

Supplied Slicing Software
Fracktory Desktop Slicer

Supported File Types
STL, OBJ, X3D, 3MF, PNG, JPG

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