

3D Printing Made Easy



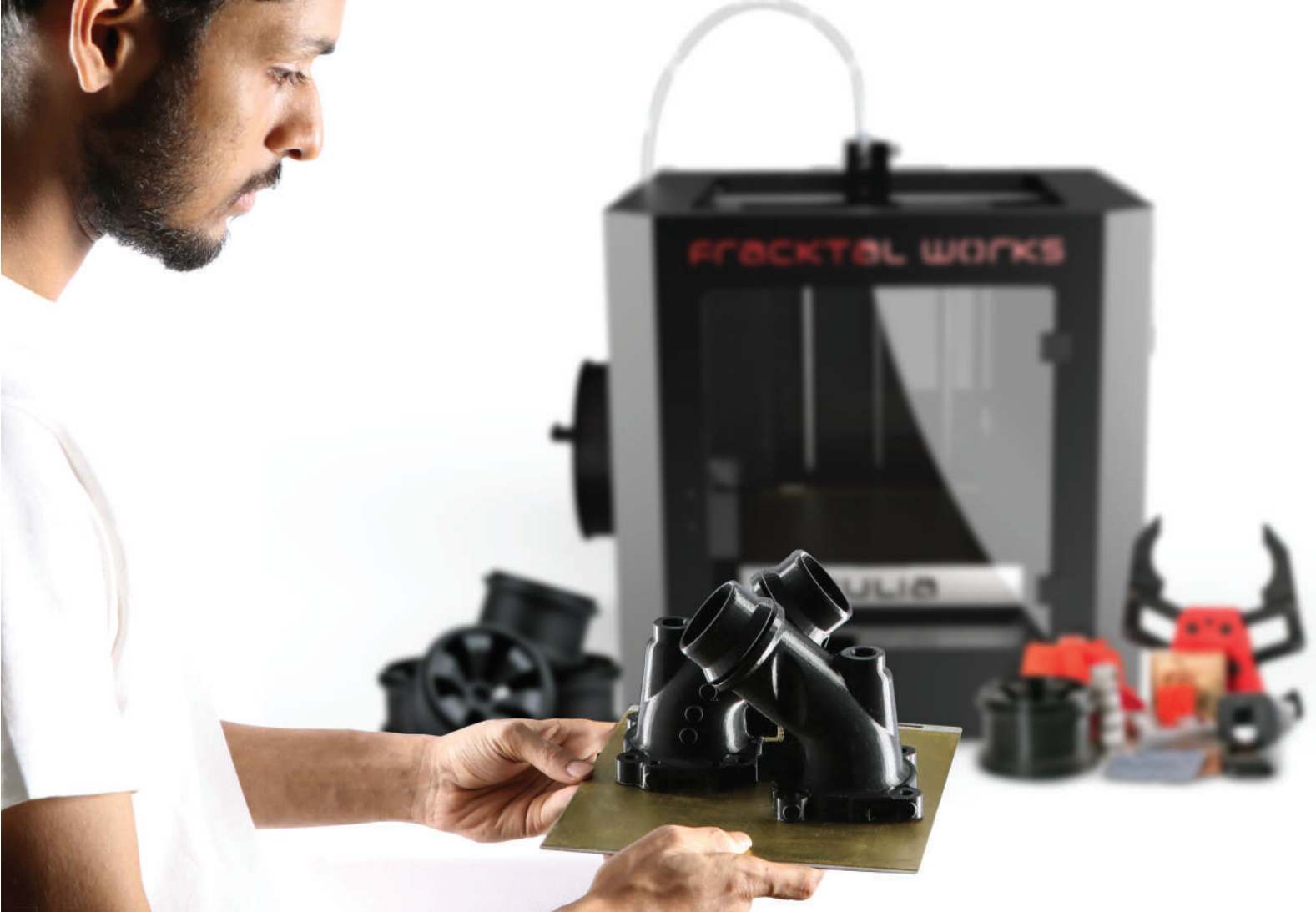
JULIA series of desktop 3D Printers from
FRACKTAL



Delivering **Accuracy** and **Consistency**

With a fully integrated system of hardware, software and materials, it's the most reliable, innovative and easy to use 3D printer on the market. Additive manufacturing has never been more accessible.

Learn more at fracktal.in



Plug and Play Operation

With automatic calibration, intuitive and easy to use software, Julia 3D printers integrate into your workflow right out of the box.



Materials & Accessories Ecosystem

A wide range of materials to suit every application, from prototyping to end-use parts coupled with an ecosystem of accessories and nozzles to give you 3D printing that is tailored to your needs.



Industry 4.0 ready connected 3D Printing

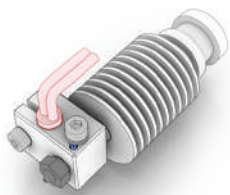
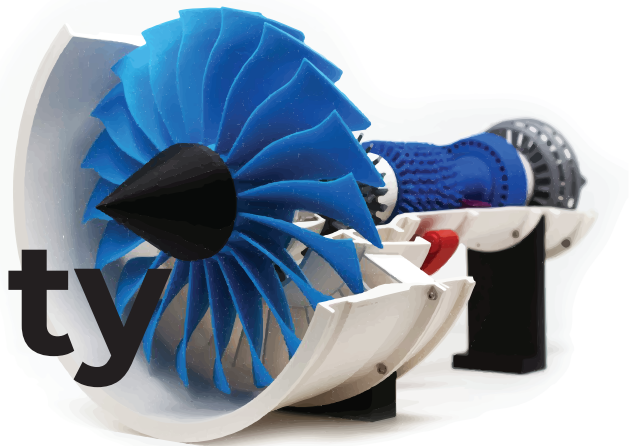
Powerful networking features over Wi-Fi and LAN enable you to execute, control and monitor your 3D Prints remotely, ensuring seamless management of a single, or a fleet of 3D Printers.



Support, Training & Resources

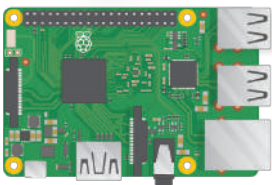
We are with you every step of the way. With training, seminars, online resources we ensure you have everything you need to get started. Our after-sales and support team is just a call away to promptly rectify any issue or concern.

Engineered for **Performance** and **Reliability**



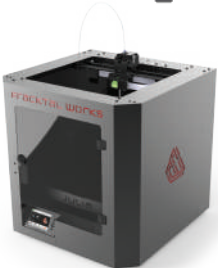
High Quality Swappable Nozzles

Original E3D Nozzles at the core of Julia, ensures maximum uptime, performance and reliability while being able to process a wide variety of materials.



Embedded Linux Inside

The brains of Julia is a full-blown 64 bit Linux Computer that controls and handles the Touchscreen, Embedded web server and everything else on the printer.



Sturdy Sheet Metal Construction

A complete sheet metal chassis with precision machined CNC parts ensures ultimate life and durability, making Julia a worthwhile long-term investment.

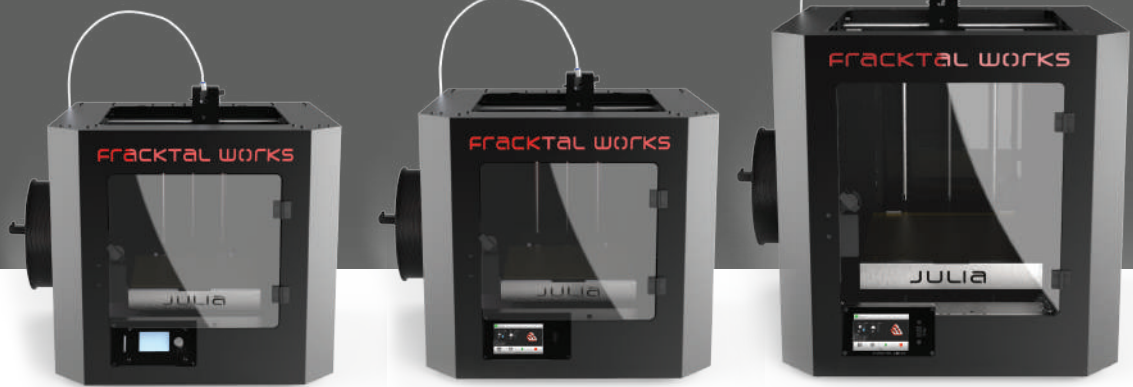


Heated Build Platform

A heated platform that can reach up to 130°C ensures maximum reliability and performance while printing engineering grade materials like ABS, PC and Nylon.

Learn more at fracktal.in

Best in class Specifications



Classic

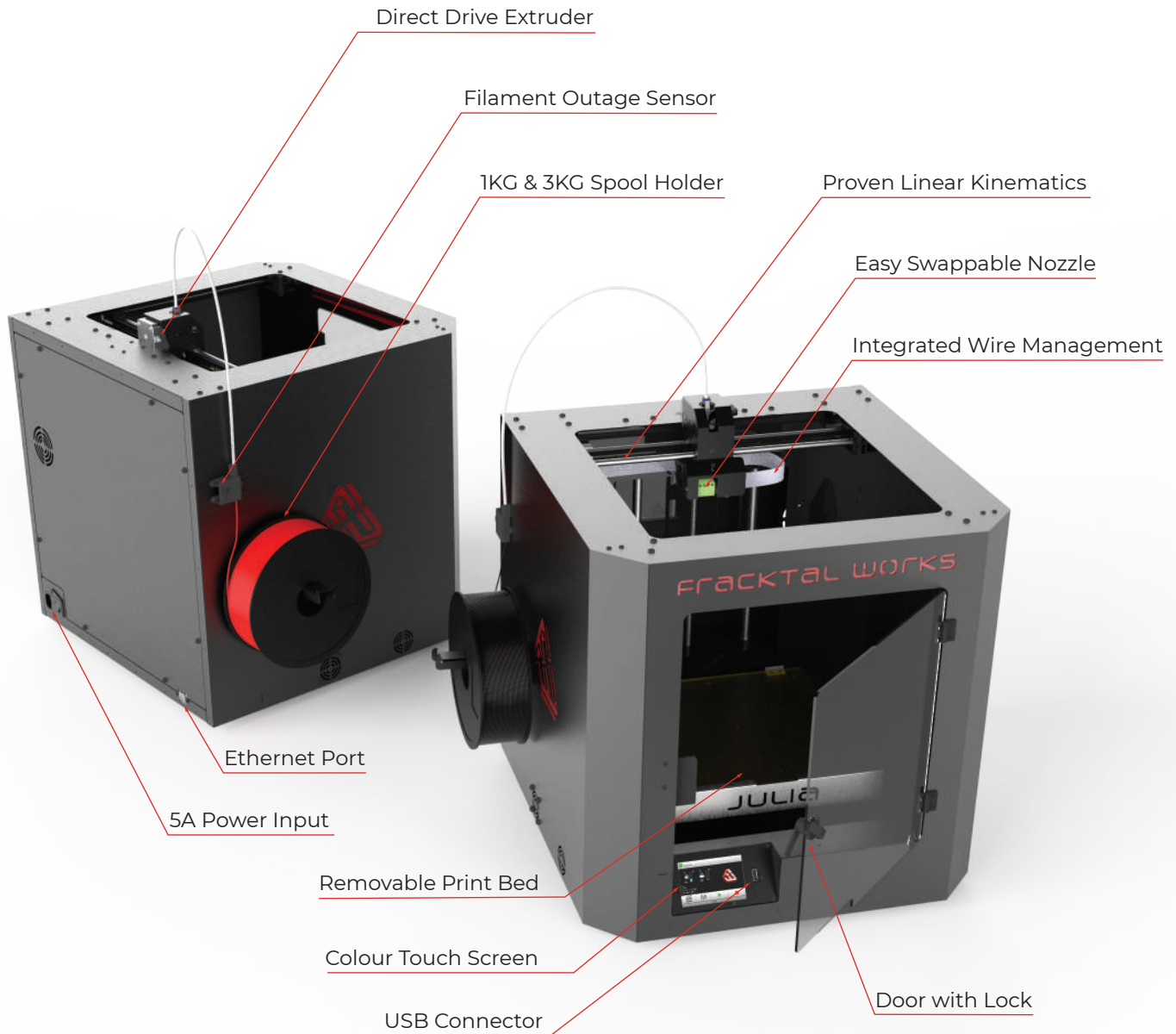
Advanced

Extended

Technology	Fused Deposition Modeling (FDM)	
Print Head	Direct Drive Extruder with Swapable Nozzles	
Build Volume	Julia Classic and Advanced 200mm x 200mm x 200mm 8000 cc	Julia Extended 250mm x 250mm x 300mm 18750 cc
Filament Diameter	1.75 mm	
Layer Resolution:	0.25 mm Nozzle : 20 - 150 micron 0.4 mm Nozzle : 100 - 300 micron 0.6 mm Nozzle : 100 - 450 micron	
XYZ positioning Resolution	X Y : 6.25 micron Z : 1 micron	
Build Speed	Maximum of 972 mm ³ /min with 0.6mm Nozzle	
Build Plate Temperature	130°C	
Build Plate Levelling	Active nozzle-tip probe based levelling	
Supported Materials	PLA, PLA+, ABS, ABS+, ASA, HIPS, PETG, TPU 85A, TPU 95A, Nylon*, Nylon-CF*, Nylon-CF*, PC*	
Filament Sensor	YES	
Nozzles	0.25 mm, 0.4 mm, 0.6 mm in High Temperature and Hardened variants	
Nozzle Temperature	Upto 290 °C using High Temperature nozzles	
Power Rating	Julia Classic and Advanced 750 W	Julia Extended 1000W
Connectivity	Julia Classic SD Card, USB to PC	Julia Advanced & Extended USB Drive, WiFi, LAN
Monitoring	Julia Classic N/A	Julia Advanced & Extended Camera over WiFi, LAN
User Interface	Julia Classic Monochrome Graphic LCD with Dial	Julia Advanced & Extended Full Colour TFT with Touch Screen
Physical Dimensions (L x B x H)	Julia Classic and Advanced 435mm x 445mm x 385mm	Julia Extended 485mm x 485mm x 480mm
Net Weight	Julia Classic and Advanced 23 Kg	Julia Extended 35 Kg

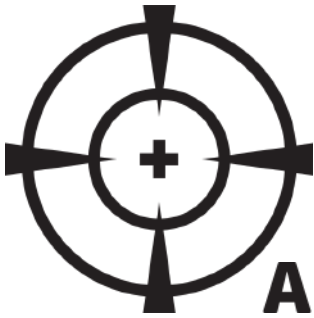
* Requires High Temperature or Hardened Nozzle with special build substrate

Complete Solution, Compact Package



An all-in-one solution that combines precision linear motion, integrated high-end electronics, heating and material management systems in a beautiful aesthetic design

Learn more at fracktal.in



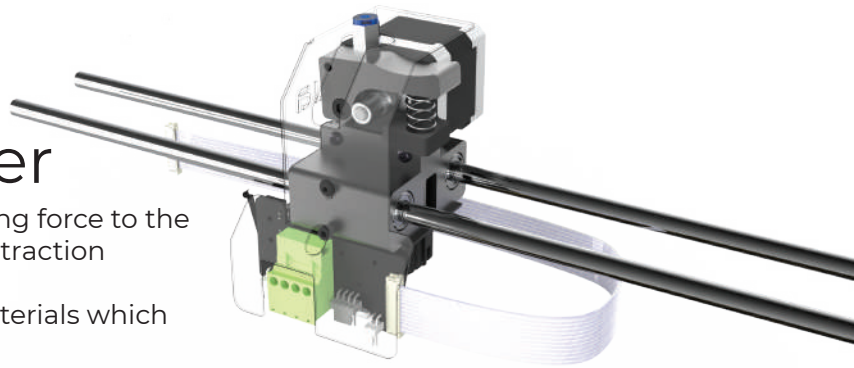
Automatic Calibration

A novel innovation from Fracktal enables the nozzle tip itself to touch the build plate at several points to accurately calibrate the bed level and initial print height before every print.

Unlike the competition which either needs you to manually level the bed, or has a probe independent of the nozzle tip which results in inaccuracy based on temperature or environmental factors, Julia's bed leveling system calibrates itself accurately regardless of your printing and bed temperature.

Direct Drive Extruder

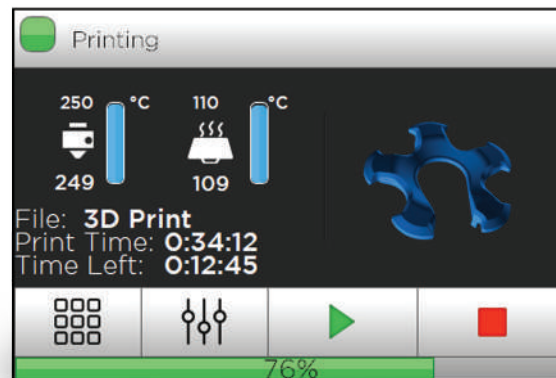
A Direct Drive extruder applies maximum pushing force to the printing filament with accurate extrusion and retraction response for best print quality. This extruder is essential for printing Flexible Materials which wouldn't be possible without it.



Colour TouchScreen

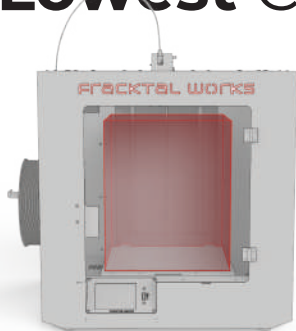
A Full Colour Touchscreen gives you the best experience while using the printer.

You can see the preview of the file being printed, and all important metrics right on the printer itself. 3D Printing has never been easier.

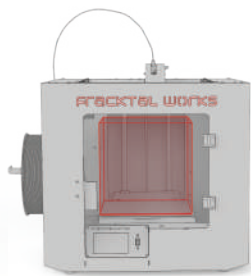


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Lowest Cost Per Unit Volume



Julia Extended
250mm x 250mm x 300mm
18750 CC



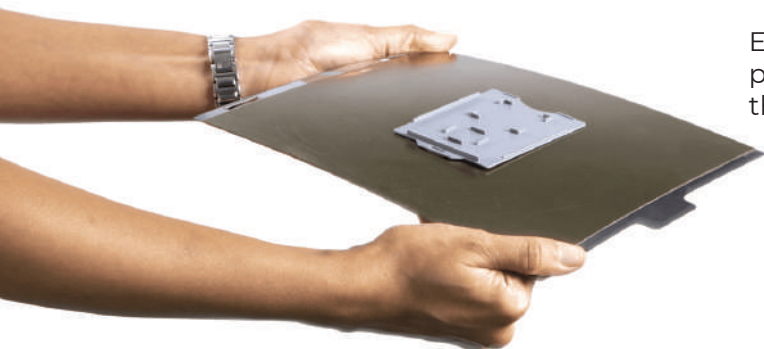
Julia Classic & Advanced
200mm x 200mm x 200mm
8000 CC

When it comes to 3D Printing, **Size Matters.**

The Maximum Build Volume determines the biggest part you can make on your 3D printer.

Julia offers the **Lowest Cost/CC** of any 3D printer in the same category, giving you the most value for your money.

FLEXBUILD



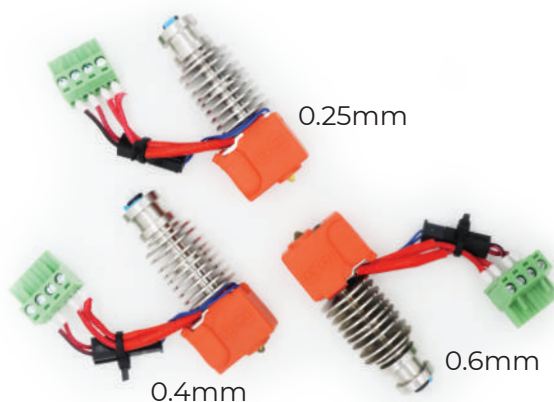
Julia's range of FlexBuild plates are coated with Special substances which strongly hold on your part while printing while still allowing you to remove the 3D print after completion by simply flexing the plate.

Each FlexBuild plate is engineered to work with specific print materials and can be easily replaced because of the strong magnets on the printer snapping it in place.

Swappable Nozzles

Interchangeable Nozzles guarantee maximum uptime for your 3D printer.

With a wide range of nozzles size you can print with amazing accuracy up to 20 microns using the 0.25mm nozzle or print large parts at extremely fast build rates using the 0.6mm nozzle



Learn more at fracktal.in

Ensuring Print Success

Powerful features enable Julia to print for long hours without failure.



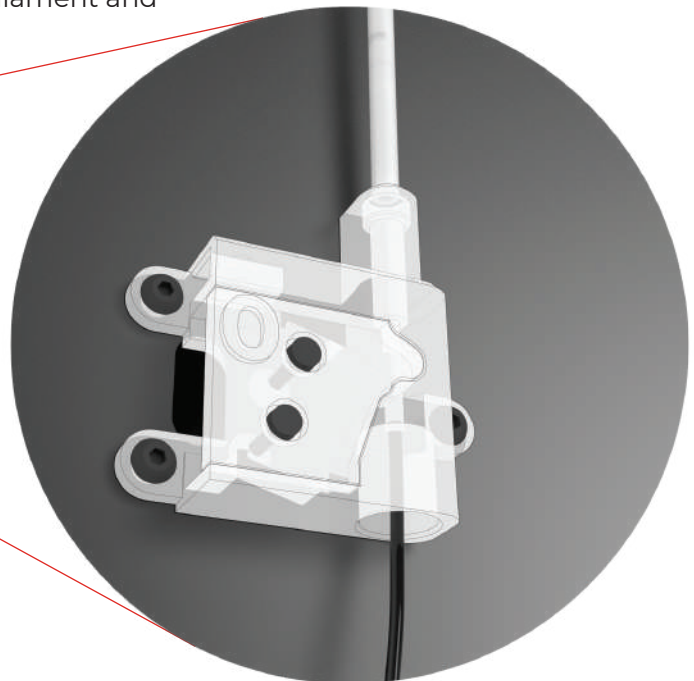
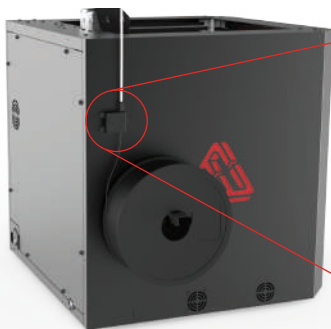
Print Restore

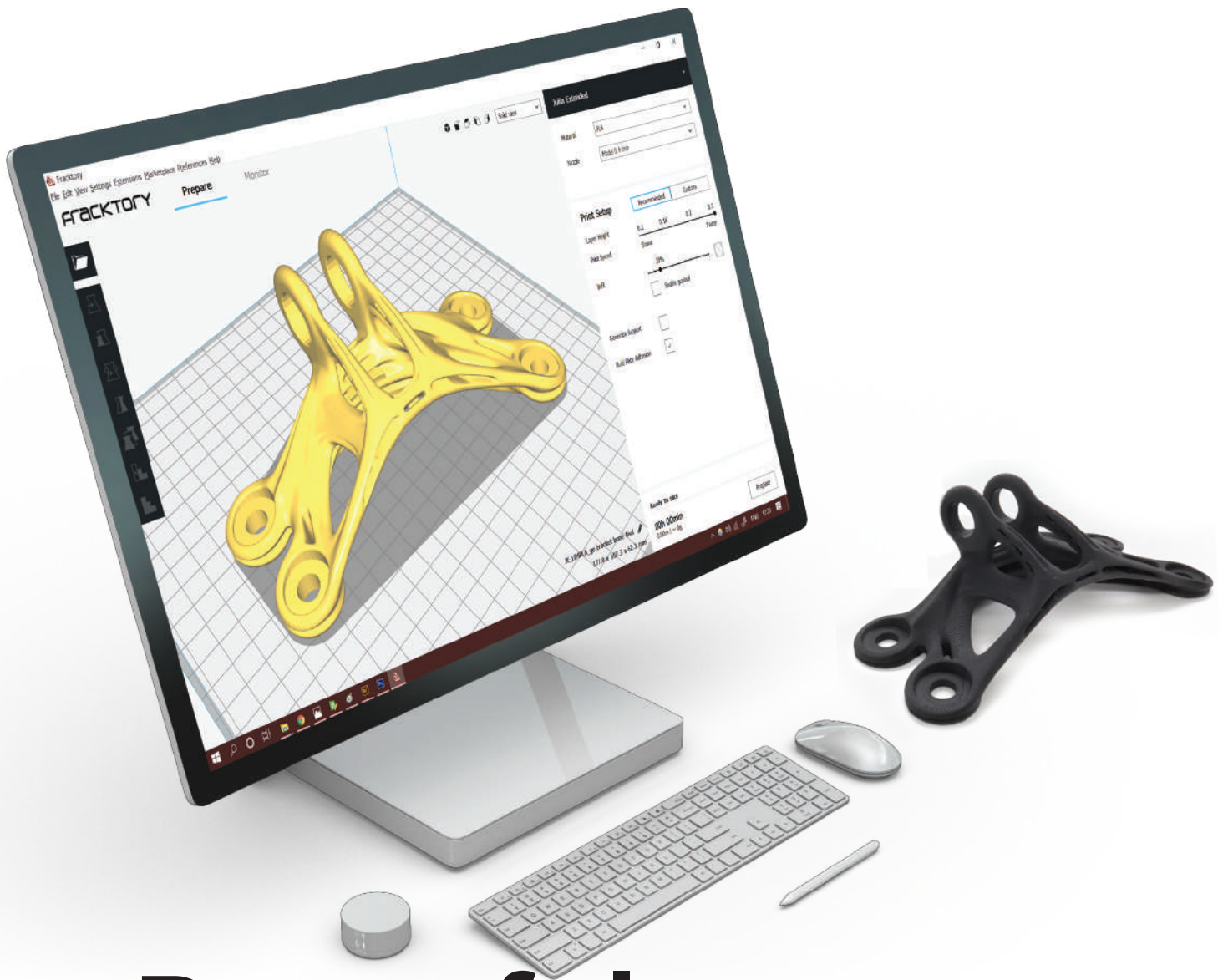
Julia constantly saves the progress of your print. This ensures the printer knows exactly where to resume from in the case of a power failure.

When the power returns, Julia prompts to restore printing the file. Now print long hours without the fear of power outages.

Filament Runout Detection

Julia will automatically pause when material runs out, and prompt you on the touchscreen as well over the local network. Follow the guided process to easily replace the filament and continue printing.





Powerful software at the heart of your Workflow

FRACKTORY

Our 3D Printing application, Fractory has extensively tested preconfigured profiles auto-adjust settings for each material and Nozzle, ensuring great print success. The open, flexible system lets you customize values, creating a 3D printing experience that's tailored to your needs.

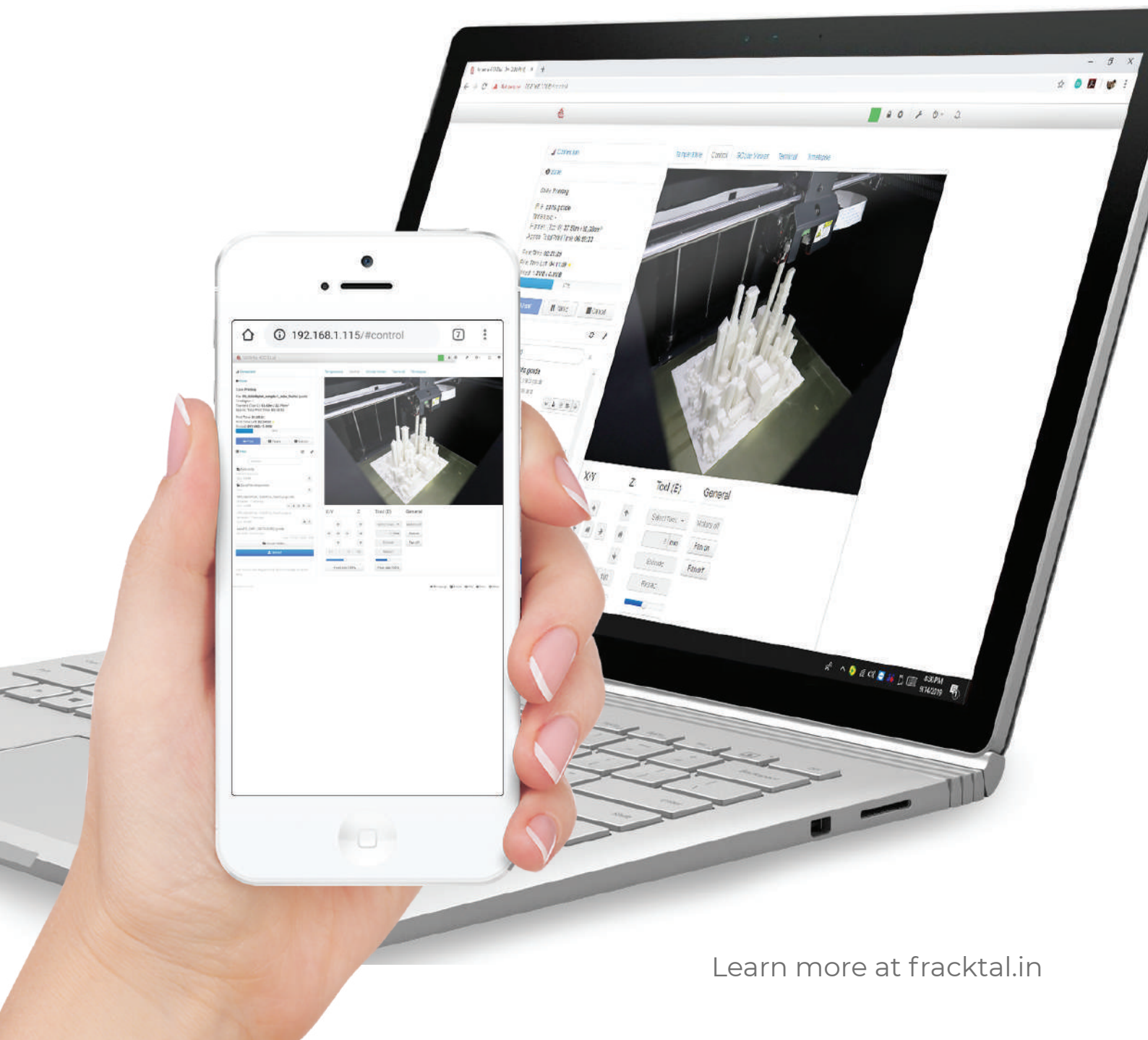
Powerful settings: You can print multiple objects (each with different settings) and achieve better printing results, with over 400 settings in total.

Customize with ease: Adjust print settings to suit your model, test the latest developments and save personalized printing profiles.

Remote 3D Printing Monitoring & Control

Connecting your 3D Printer over Wi-Fi and LAN enables you to execute, control and monitor your 3D Prints remotely, ensuring seamless management of a single, or a fleet of 3D Printers from any device, PC, Laptop or mobile phone on the go.

Using the inbuilt Webcam, you can not only view the progress of your prints, but record and save time-lapse that can be shared on Facebook, YouTube or Instagram.



Learn more at fracktal.in

Materials

Perfect for any Application

With the Julia, you can choose from a huge range of materials. Through a seamless blend of hardware, software, and materials, you can enjoy remarkable results, and a simpler, more enjoyable printing experience. Our open filament system makes it possible to test existing or custom-formulated materials with ease.



PLA & PLA+ Amazing Visual Quality, Dimensional Tolerance

PLA features good tensile strength and surface quality, which makes it ideal for creating high-resolution parts and prototypes that require aesthetic detail. With PLA+ get even higher strength and temperature resistance than PLA.

ABS & ABS+ Durable, Tough and Temperature Resistant

PLA features good tensile strength and surface quality, which makes it ideal for creating high-resolution parts and prototypes that require aesthetic detail. With PLA+ get even higher strength and temperature resistance than PLA.



TPU Flexible, Wear and Tear Resistant

Julia is compatible with TPU with shore hardness of 85A to 98A with elongation up to 600% at break. TPU is extremely wear and tear resistant, making it perfect for Soft Grips, RC Tires, Shock Absorbers, Gaskets and Seals

Learn more at fracktal.in

Industrial Strength & Toughness

Nylon Rugged & Strong

Nylon is a fantastic all-rounder. It offers a high strength-to-weight ratio, plus excellent durability and low friction. Handling up to 80 °C, it's a great choice for functional prototypes, end-use products, and tools.



Carbon Fiber Nylon

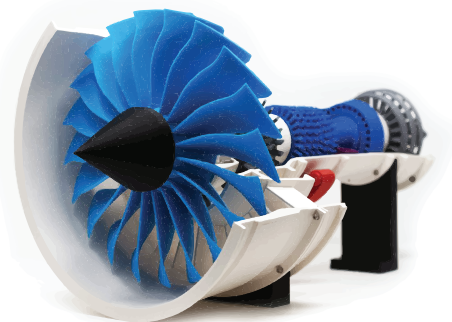
Ultimate Strength to Weight Ratio, Toughness & Rigidity

By adding micro-carbon fibers to nylon, you get a tough filament capable of printing parts with stiffness, impact resistance, and high tensile strength. This composite gives you the durability of nylon combined with the stiffness of carbon fiber.

PC Impact & Heat Resistant

With PC (polycarbonate), you can print strong and tough parts that retain dimensional stability when subjected to temperatures as high as 110 °C.

This material is perfect for tooling for low volume production, jigs & fixtures and other applications requiring demanding physical properties.



PETG

Chemical Resistant, & Tough

PETG is chemical-resistant and offers great dimensional stability, tensile and flexural strength. It can handle temperatures up to 70 °C. Choose PETG for functional prototypes and mechanical parts.

Dedicated Support

FRACKTAL CARE

We are with you every step of the way. With training, seminars, online resources we ensure you have everything you need to get started. Our after-sales and support team is just a call away to promptly rectify any issue or concern.

Talk to us: Talk to our qualified after-sales representative to solve every problem promptly.

Installation & Training: Optional Installation and Training packages gets you and your team up to speed with using 3D printing from the get go

Spares: Parts you need for your printers are always in stock and can be quickly shipped to you.

Learn: We constantly update our already extensive knowledge base with useful print resources, handy tips and informative guides.

