

OPTIMUS P1

READY SET INNOVATE

ft
febtop



LARGE-FORMAT INDUSTRIAL 3D PRINTER

Offer you a freedom of making for your designs and businesses

febtop Tech
OPTIMUS P1

THE MOST TRUSTED OPEN MARKET 3D PRINTER



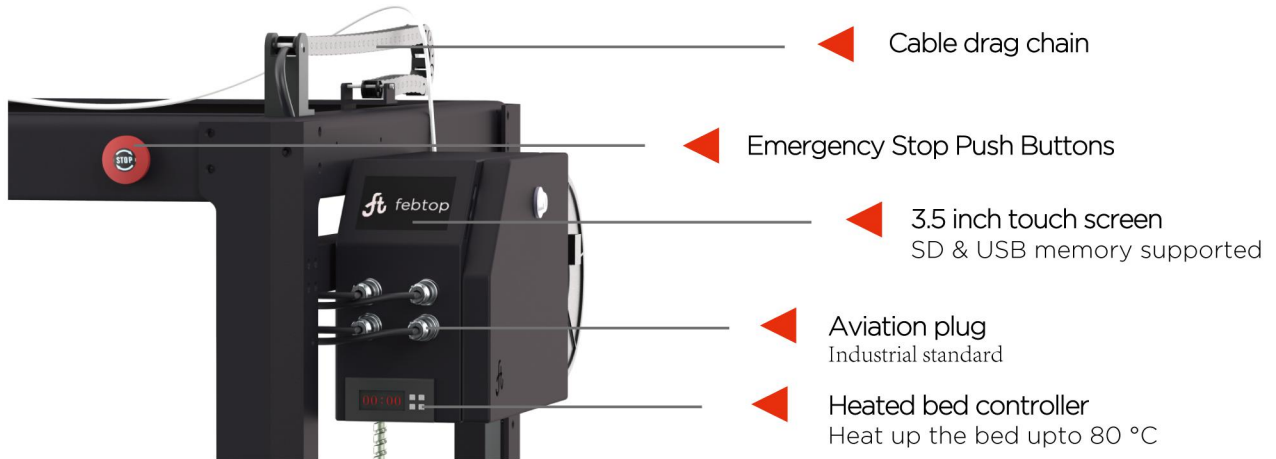
OPTIMUS P1 is the game changer of big size 3D printer. Because of its innovative design, we can offer high quality industrial grade 3D printer with affordable price. Big size offers customer another dimension of making. You never need to cut your big print into pieces and spend days to put it together like a puzzle. P1 works with big range of 3D printing materials like PLA, PETG and more. Auto-bed leveling guaranteed a perfect first layer print.

600mm*600mm*1000mm

The print size

OPTIMUS P1

Your Next Evolution of Large Format 3D Printers. OPTIMUS P1 is designed to be the GAME CHANGER of large format 3D printer, with Industrial grade components and affordable. You never bother to cut a life sized objects into hundred pieces to print



▼ Customized Mold of Aluminum Part

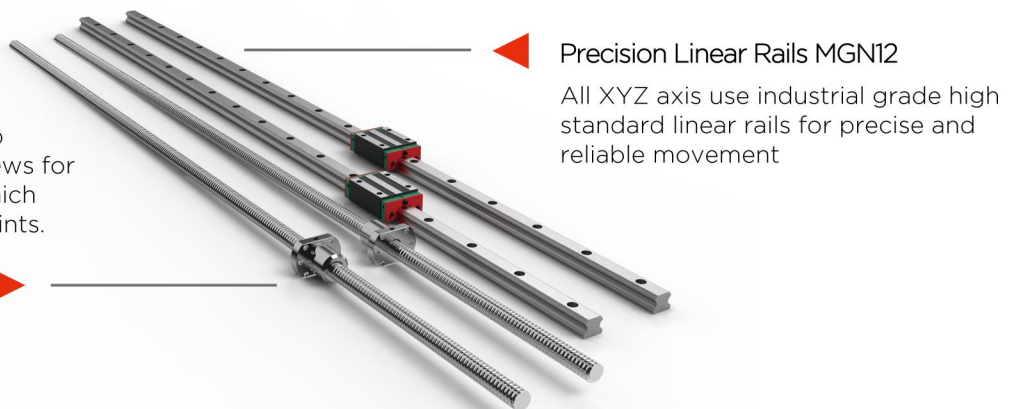


▼ Industrial grade wheel for easy movement

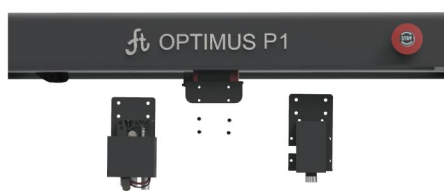


Z axis powered by a 57 industrial step motor with precision ball bearing screws for layer heights as small as 1 Microns, which provides extremely high resolution prints.

Ball bearing lead screws SFU 1610



High standard quality



Two in one 3D printer

OPTIMUS P1 is not only a 3D printer. Transform your P1 into a Laser engraver/cutter able to engraving beautiful gray photos on wood, engraving logo on even steel surface with our 7w laser head. Safety first when working with laser.

Modular design

OPTIMUS P1 has an innovative modular design. P1 only has 6 modular parts. All modules are designed and engineered for easily assembly. You can start printing from unpack the box in less an hour! Another benefit of modular design is that shipping cost can be dramatically reduced.



Fully Enclosure Housing

Optional Fully closed enclosure made of 1.5mm aluminum sheet and acrylic door. The fully closed housing combined with heated bed offers you the possibility print more types of materials. The enclosure gives more safe and lower noise. The transparent front doors, with two separated open allow you to monitor the printing process any time. With enclosure, air filter can be added to P1 as a option.

For more information, please visit our website(www.febtop.com)

OPTIMUS P1 Specifications

3D printer. Laser

Machine Dimensions: 85 x 90 x 150 cm

Machine Weight: 55kg

Package Dimensions: 90 x 94 x 20 cm

Connection :

Supplied SD card, USB Memory supported

Frame:

All 6061 aluminum body, customized mold profiles

Power Supply :

110v/220v MineWell with output of 24V/16A

Interface: 3.5inch touch screen

Motors:

NEMA 17 1.2A, 1.8 step angle for XY, Dual NEMA 23 2.0A. 1.8 step angle for Z. NEMA17 0.6A for Extruder; TMC 2208 Quiet Stepper Drivers.

Electronics:

MKS GEN V1.4 with Custom Marlin Firmware

Motion:

MGN16 linear guide rails for X, Y, Z axis



Drive system:

10mm GT2 timing belt for X, Y axis, SFU1610 ball bearing lead screw for Z axis

3D printer

FDM:

Fused Deposition Modeling Printing technology

Print bed:

Anodised aluminium with heated bed upto 80 °C

Bed Leveling:

Fully auto bed leveling with inductive sensor on 25 point mesh, BLtouch optional for glass bed

Fully closed enclosure:

Optional 1.5mm aluminum cover, dual separate front doors.

Build Volume: 60 x 60 x 100 cm

Layer Resolution:

0.05 mm to 0.8 mm (dependent on nozzle size)

Nozzle: 0.4, 0.8, 1.2 mm nozzles

Filament diameter: 1.75mm

Print head:

24V 60W heater, NHC 100K thermistor

Part cooling: 5020 blower fan

Extruder: Direct drive geared extruder

Laser

Laser Type: Diode laser

Spectrum : 450 nm

Head Weight: 0.5kg

Focus leng: 25mm

Power : 2W; 7W (Optional)

Working Volume: 60 X60 cm

Materials:

Materials - WOOD, Leather, Anodized Alumium and many more



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