AION500MK2

8 REASONS YOU CAN'T GO WRONG.

IOT-ENABLED, INDUSTRIAL GRADE 3D PRINTER WITH PATENTED ADVANCE FUSION PLASTIC MODELLING (AFPM) TECHNOLOGY.

AION 500 MK2 is high speed, IoT-enabled, massive size 3D printer that offers a professional-level build volume at an affordable price point. Armed with our patented AFPM (Advanced Fusion Plastic Modeling) technology, the printer renders a stronger and durable output. With multiple connectivity options and sensors, it is one of the most advanced 3D printers available. Offering a large build size, ultra-fast print speeds, minimal post processing and unmatched precision, the AION 500 MK2 is designed for versatility.

1 COLLABORATIVE

Machine can be accessible from web browser for up to 10 user accounts and can be accessed and controlled on a secure connection.
Now, not only the operator but also the designers can keep an eye on the progress of their valuable in process 3D print.

2 HIGHER PRODUCTIVITY

High performance adaptive active liquid cooled extruder head that can print with multiple materials without changing any hardware for long hours at one go with industry's best throughput

3 MOTION ON THE FLY

With our years of experience in machine building we have developed unique X-Y motion system in AION 500 that moves Z axis as print is being build on stable build platforms. With this mechanism Aion 500 MK2 can print up to 30% faster without compromising on precision.

4 SAFER PRINT

Active carbon filter continuously cleans air inside the machine chamber, providing safer work environment for users.

5 AFPM-THE NEW STANDARD IN 3D PRINTING

Our patented 3D printing firmware–hardware combination ensures adaptive flow & temperature changes in material deposition ensuring better Component strength.

6 INDUSTRY 4.0 READY

Aion 500 MK2 is ready for industry 4.0. You can control Aion 500 using web browser on your LAN or VPN. The operator keeps an eye on the production process via live imaging, while necessary presence is reduced. This machine is also ready with interface for robot handshake in case of implementation of complete automatic print setup.

7 FAIL-SAFE PRINTING

Aion 500 MK2 comes with patented precision filament flow sensor that tracks consumption of the material flow through extruder & compares that with the consumption indicated in the G code. In case of clogging, the machine resolves the condition pro-actively by cleaning nozzle automatically.

8 ADVANCED SLICING SOFTWARE

Automatic pre-processing including slicing, automatic support generation, part packing and nesting computing part build time and material consumption. Sliced file can be directly sent to the cloud for printing.

TECH SPECS

BUILD SIZE
500mm X 500mm X 500mm

NOZZLE DIAMETER
0.4mm / 0.6mm / 0.8 optional

EXTRUDER
Dual

NOISE LEVEL
<55 dB

PRINTING SPEED
300mm/s Variable as per material profile)

MAX EXTRUDER TEMPERATURE
400°C

DIMENSIONS
L- 955mm X W- 1040mm X H- 925mm

CONNECTIVITY
USB, Wi- FI, SD Card, Ethernet

ACCURACY
80 – 250 micron

WEIGHT
250 Kg

INPUT POWER
220V - 10A - 50Hz

BUILD MATERIAL
ABS +, PLA, Metal fill, Carbon Fibre, Polycarbonate, Polyurethane, PC- ABS

• Available with optional Packages
• Subject to alteration. Only specifications in our offer and order confirmations are binding.

DIVIDE BY ZERO

GOOD DESIGN INDIA DESIGN MARK

3D PRINTING PIONEERS

Divide By Zero Technologies is one of the pioneer companies to take 3D printing technology to SME sector in India purely because the machines are professional, affordable and adhere to international quality standards. Over the years we have launched a range of high quality, Industrial 3D printers which already cater to various business, giving opportunities to engineers, designers, architects, educators, medical researchers and innovators to realize and visualize their ideas.

Our clientele is spread across the country with presence in cities like Mumbai, Delhi, Bangalore, Chennai, Pune, Ahemadabad, Rajkot, Coimbatore, Malaysia, Dubai and many more. We work in a close loop with professionals and customers from various fields to improvise on existing technology and providing the additional benefits of advance 3D printing technology to our existing and potential clients.

CLIENTS

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MAKING RAPID PROTOTYPING

RAPID AGAIN