MAKING RAPID PROTOTYPING RAPID AGAIN

INDUSTRY 4.0 READY
ready machine that can be controlled using web browser on your LAN or VPN.

ADVANCED SLICING SOFTWARE
that automatically generates support & sliced file can be directly sent to the cloud for printing.

MULTIPLE USERS
(upto 10) can have access to one machine and can upload the design from their desk.

AFPM
our patented 3D printing firmware-hardware combination ensures adaptive flow & temperature changes ensuring better component strength.

HIGH PERFORMANCE
on the fly gantry which can print 30% faster with high precision.

ACTIVE CARBON FILTER
which continuously cleans air inside the machine chamber.

ACTIVE LIQUID COOLED EXTRUDER
head that can print multiple materials.

FILAMENT FLOW SENSOR
that tracks consumption of material flow through extruder.

AION500MK2

divbyz.com

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

EMERGENCY STOP