

Smart One Big

PRECISION MEETS ECONOMY



**Multi Material FDM 3D Printer for
Professional and Industrial use**

Technical Specifications

Description	Details
Print Technology	Fused Filament Fabrication (FFF)
Build Volume	500x500x500mm (X,Y,Z)
Machine Size	970 x 910 x 1540 mm
Filament Diameter/Granule Size	1.75mm
Nozzle Sizes	0.4/0.5/0.6/0.8mm/1mm, Material: Brass/Hardened SS
Layer Height	0.08mm to 0.32mm (for 0.4 mm Nozzle) varies based on Nozzle size
Build Plate	Aluminum heated bed with Magnetic PEI sheet And Borosilicate Glass
Heated Bed Max Temp	120 Degree C
Extruders & Hot End	Dual Direct Drive All Metal Extruders
Extruders Max Temp	Upto 420 Degree C (For Both Extruders)
Heated Chamber	Controlled heated environment up 60 Degree C
X/Y Positional Accuracy	20 Microns
Z Positional Accuracy	5 Microns. Built on Wobble X technology for smooth Z axis movement
Print Head Travel Speed	20mm/s to 180mm/s
Materials	STD Polymers: PLA, ABS, PETG, Wood Fill, TPU, TPE, PC, Nylon ENGG Polymers: ASA, Carbon Fibre Infused, Glass Fibre Infused, ULTEM, PEEK, PP, PC-ABS, Nylon Composites Support Polymers: HIPS, PVA, Aquateck PVA, Thermax HTS High Temp Ceramic: White Zirconia, Black Zirconia, Alumina, Silicon Carbide Metal : SS-17-4, SS-316-L, Copper, Bronze, Inconel 718, H13
Casing	20mm/s to 180mm/s
Processor	32-bit ARM Cortex-M4
Screen	7 Inch Full View Color Display Touch Screen
Software	1. Slicing Software - Simplify 3D/ Cura 2. Input File Format - STL/OBJ/3MF 3. Operating Software - Windows, Mac, Linux 4. Output File Format - G code

Features	
Camera	Monitor running prints with Wifi Camera. Stop / Pause / Resume / Cancel prints from any where.
Automatic Bed Leveling	BL-Touch Z Probe Auto leveling
Resume Printing	After sudden power loss, resume printing capability
Automatic Shutdown	Printer shuts down after completion of printing job
Wifi/LAN Connectivity	Yes
Material detection	Material runout sensor for both extruder
Run time parameter	Printing parameter can be change during printing.
Z-Axis Microstepping	Z-axis microtuning during the printing
Fully Enclosed Body	Powder Coated Aluminum Body
Heated chamber	Controlled Heated Chamber
HEPA Filter	Activated HEPA filter with exhaust fan for harmful fumes reduction.
Electrical Specifications	
Power Voltage Input	220-240VAC, 50Hz
Power Wattage	1200W (Without Chamber Heater), 2300W (With Chamber Heater)
Power requirements	Universal power
Certifications	
Regulatory Compliance	CE
Low emission and chemical exposure certification-UL Greenguard	Yes
ISO certification	ISO 9001/2015
Dimension and Weight	
Machine Size	970 x 910 x 1540 mm
Machine Weight	Approx 150kg (Without Packaging)
Environmental Parameter	
Noise	55db<

About 4D Simulations

4D Simulations, a brand of Adroitec Information Systems Pvt. Ltd., stands at the cutting-edge of Additive Manufacturing. Every day, we're committed to **exploring new frontiers in 3D printing**, providing tailor-made solutions across diverse sectors.

Boasting over **35+ years of rich heritage**, our journey intertwines the art of traditional engineering with the latest advancements in additive manufacturing and smart engineering techniques. We represent the evolution of technology, from past to future.

Our collaboration with renowned international players enables us to specialize in a variety of 3D printing technologies, including **Fused Deposition Modeling, Fused Granular Fabrication, Stereolithography, SLM(Selective Laser Melting/Powder Bed Fusion/ DED), Programmable Photopolymerization technology (P3™), PolyJet, SAF (Selective Absorption Fusion)** and more. We're not just participants in the industry; we're innovators shaping its future.

Our expertise encompasses a wide spectrum, from **CAD, Reverse Engineering, and Concept Design to 3D Printing, Tooling, and Digital Creation**. We offer end-to-end solutions, focusing on enhancing our customers' capabilities in research and development, rapid prototyping, and personalized engineering projects.

We provide technologies that not only fit but **advance our customers' business objectives**, leading to higher productivity, faster prototyping cycles, and the adoption of the latest in smart engineering and reverse engineering methodologies. This commitment to excellence ensures our clients experience remarkable business growth.

At 4D Simulations, we invite our customers to join us on this journey of innovation. Together, let's grow and uncover the limitless possibilities in the dynamic realm of Additive Manufacturing.



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