



# INDUSTRIAL ROBUSTNESS NOW ON YOUR DESK!!

Multi Material FDM/FFF 3D Printer for  
Professional and Industrial use



# Technical Specifications

Description	Details
Print Technology	Fused Filament Fabrication(FFF)
Build Volume	300x300x500mm (X,Y,Z)
Machine Size	600x600x1190mm
Filament Diameter	1.75mm
Nozzle Sizes	0.3/0.4/0.5/0.6/0.8mm/Brass/Hardened Steel
Layer Height	0.08mm to 0.2mm (for 0.4mm Nozzle) varies based on Nozzle size
Build Plate	Hardened aluminum heated bed with Magnetic PEI sheet
Heated Bed Max Temp	120 Degree C
Extruders & Hot End	Dual direct drive all metal extruders
Primary Extruders Max Temp	Upto 420 Degree C
Secondary Extruders Max Temp	Upto 420 Degree C
Heating Chamber	Controlled heated environment up 60 Degree C
X/Y Positional Accuracy	20 Microns
Z Positional Accuracy	5 Microns
Print Head Travel Speed	20 mm/s to 120mm/s
Materials	
<ul style="list-style-type: none"> <li>• STD Polymers</li> <li>• ENGG Polymers</li> <li>• Support Polymers</li> <li>• Ceramic</li> <li>• Metal</li> </ul>	PLA, ABS, PETG, Wood Fill, TPU, TPE, PC, Nylon ASA, Carbon Fibre Infused, Glass Fibre Infused, ULTEM, PEEK, PP, PC-ABS, Nylon Composites  HIPS, PVA, Aquateck PVA, Thermax HTS High Temp  White Zirconia, Black Zirconia, Alumina, Silicon Carbide  SS-17-4, SS-316-L, Copper, Bronze, Inconel 718, H13
Casing	Aluminum
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



## Additional Features

With part costs, build speeds, accuracy, surface finish, and material properties finally rivaling traditional manufacturing methods, 4DS Smart One plus is becoming a viable alternative traditional manufacturing process.

**Automatic Bed Leveling**

**Resume Printing**

**Automatic Shutdown**

**Wifi**

**Material detection**

**Run time parameter**

**Z-Axis Microstepping**

**Fully Enclosed Body**

**Heated chamber**

**HEPA Filter**

**BL-Touch Z Probe Auto leveling**

**After sudden power loss, resume printing capability**

**Printer shuts down after completion of printing job**

**Yes**

**Material runout sensor for both extruder**

**Printing parameter can be change during printing.**

**Z-axis microtuning during the printing**

**Powder Coated Aluminium Body**

**Controlled heated chamber**

**Activated HEPA filter with exhaust fan for harmful fumes reduction**

# 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.



## Contact Details

Call: +91 120 4864300

Email: [info@4dsindia.com](mailto:info@4dsindia.com)

Visit: [www.4dsindia.com](http://www.4dsindia.com)

Head Office: D-68, Sector 2, Noida, Gautam Budh Nagar, UP-201301, India