Duper XL400 PRO FFF 3D PRINTER
Industrial Grade 3D Printer with Ai Technology

Material Station

Auxiliary Bay

duper XL400 pro
www.autoAbode.com

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MADE IN INDIA

CERTIFIED ISO 9001:2015 CERTIFIED

MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

CE Mark

INDIA'S First 100% OEM Manufacturer of Industrial Grade 3d Printer More than 350+ Installations

Manufacturing Powerhouse

Duper XL400 is a high-performance Industrial grade 3D Printer which is capable of 3D Printing high degree thermoplastics.
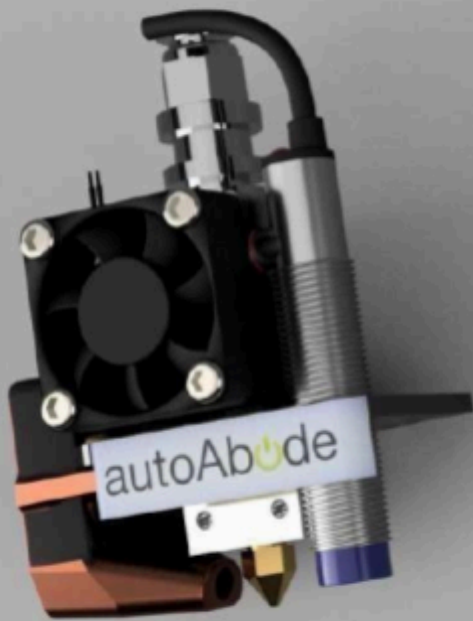
It has an independent dual extrusion system, which can be used for printing with 2 different materials at the same time. The printer works in FFF/FDM technology & supports filament from 2.75 to 2.90mm.
Advanced feeder system which supports upto 350 degrees Temp.

Key Features

‣ **400 X 400 X 400 mm Build Volume**

‣ **Remote Monitoring (On Board Camera)**

‣ **X,Y, Z Resolution: 7, 7, 3 micron**

‣ **Aluminum Lightweight chassis with durable ABS and acrylic panels**

‣ **Print Speed 20 mm3/S & Accelerations of upto 4,000mm/s2**

‣ **Fully Enclosed Machine with HEPA Air Filtration**

‣ **Standard with flexible and glass build plate**

Dual extrusion head with auto nozzle lifting and swappable feeder nozzle of different sizes.
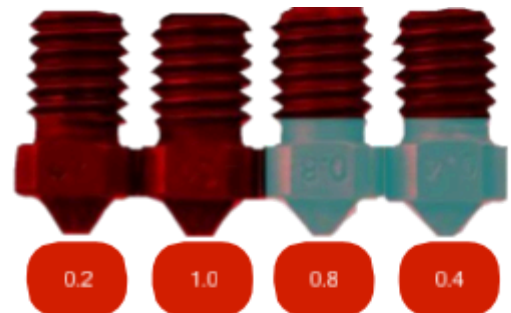
Smart Extrusion Dual with Auto Nozzle Lifting System with Swappable Nozzles

The Smart Extruder Core is a culmination of product design and endless hours of rigorous testing that delivers dependable, consistent performance and superior results.

Hardened swappable carbide Nozzles of various sizes for use with high abrasive materials and other Industrial grade materials.

| 0.2 | 1.0 | 0.8 | 0.4 |

Industrial Power, Limitless Possibilities

Independent Precision lead screws drives the complete XY carriage up and down, acting as the Z Axis, CORE XY gantry system, Generating higher accelerations at less momentum

Precise & Affordable Large Format Printing

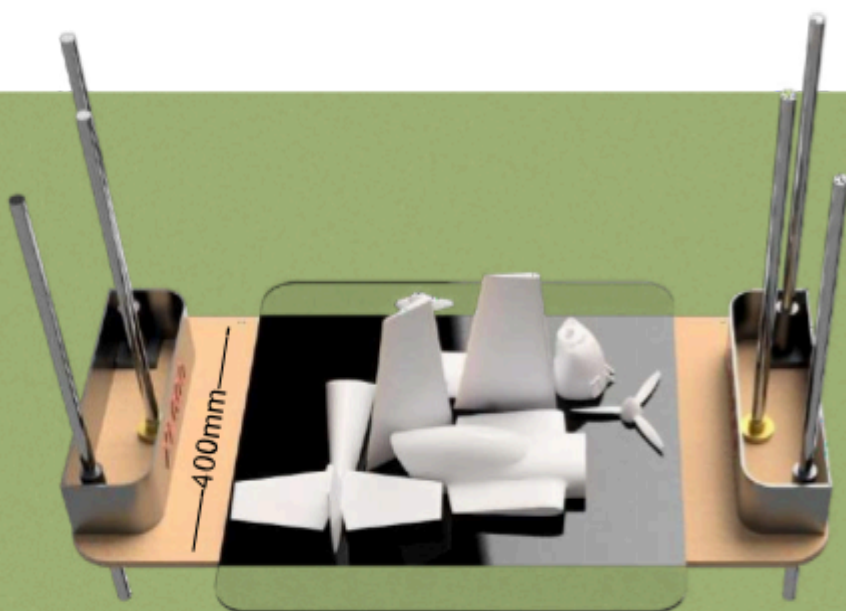Material Station

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On Board Camera for easy monitoring of long 3d prints over WiFi. High Resolution 8MP Camera for capturing fine details

32 Bit Micro controller for dedicated communication & File handling. With 16GB of File storage, you will never run out of space in duper XL3D Printer

32 Bit

HiWin Linear Guided Rail Gantry System for ultra Precise and Smooth Movements of the Print Head.Less Noise. High Accelerations.

400mm

High Performance Independent Drivers
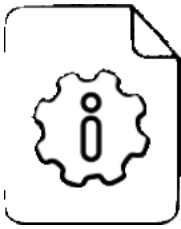
Auto Z Axis Trimming Plane Compensation. Pause & Print Option Auto-Bed Levelling

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Noise: <51db(A)

TECHNICAL Data Sheet

Build Volume	**400x400x400mm Cube**
Filament Diameter	**2.75 to 2.90mm**
Layer Resolution	**20 microns to 800 microns (depending upon nozzle dia)**
XYZ resolution	**7, 7, 3 microns**
Min layer Thickness	**50 microns & above**
Print Speed & Accelerations	**15mm cube per sec & 4,000 mm/sec square**
Nozzle & Build Plate temp	**upto 350 degree C for nozzle and upto 150 degree C for platform (under 2 min)**
Levelling technology	**Fully automatic calibrating & bed levelling system.**
Build Platform	**PEI Coated borosilicate glass with removable Build Plate**
Material	**Supports all available open source materials (NFC Support is also enabled)**
Filament runout	**Sensor for both nozzles**
Connectivity	**USB, LAN, WIFI, SD Card**
Interface	**7 Inch Touch Screen**
Live Monitoring	**Live Cam**

Control Software	**Cloud based control software. Runs on any web platform (chrome, ie, safari, etc)**
	Full control over all parameters of the machine
	Monitor, pause, print from anywhere within the organization.
	create multiple users with limited or full access to the machine

Slicing Software	**World best slicing software, SImplify3d Included**
	Supports all open source slicers and print preparation apps
	Supports all advanced and basic features like automatic support generation, variable layer height, 3d model fixing and repairing, realtime scaling and positioning of parts
	Predefined material profiles for all leading material platforms. like Ensinger, BASF, DSM, Polymaker, and others
Filtration System	**HEPA 13 Air Filtration System**

In the box: 3D Printer, Extra Extruder Kit, Spare Drivers, 8 Nozzles with Allen key Set, Spool of Material, Manual & Starter kit

Upgradable to Metal 3D Printing solution

SOFTWARE

Software	Cloud based platform software, access through web / desktop mobile devices, advanced algorithms. efficient user interface. easily print, monitor and manage print jobs, imported directly from CAD
Supported Input Files	TL, OBJ, X3D, 3MF, BMP, JPG, PNG
Supported OS	MAC OSX / Windows/ Mobile

ELECTRICAL

AC Input	240 V, 50Hz,7A
RF Module Operating Band	2.4GHz Wifi

MATERIAL

Feeder Type	Dual-geared, abrasion- resistance, reinforced for composite materials & Bowden tube.
Model Material	Automatic Material System
Support Material	PLA, Tough PLA, ABS, Nylon, CPE, CPE+, PP, PC, TPU 95A, PVA, Tough PLA, CPE, CPE+, PVA, composite materials etc and other thermoplastic polymers. Carbon Fiber Reinforced. compatible Support third party filament

WARRANTY/SPARES/SERVICE

Standard Warranty on Machine	36 months or 3 years

ASSISTANCE

Each duper XL400 PRO will be delivered by our logistics team to ensure safe delivery of the

product Our Trained professionals will provide proper training and assistance.