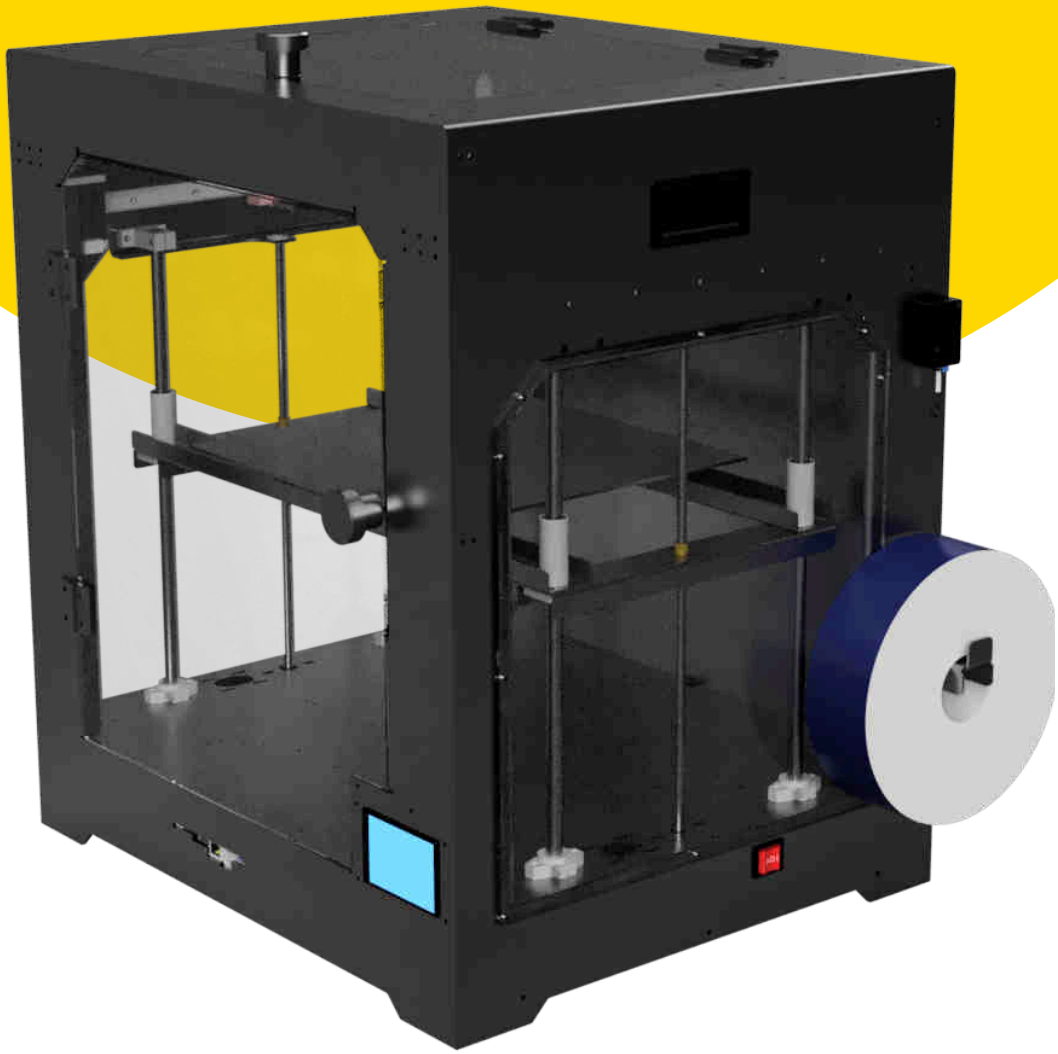
MEKUVA

AKAR 300 CORE XY



3x faster printing, Fully Enclosed & Budget-Friendly

mekuva TECHNOLOGIES

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mekuva.com

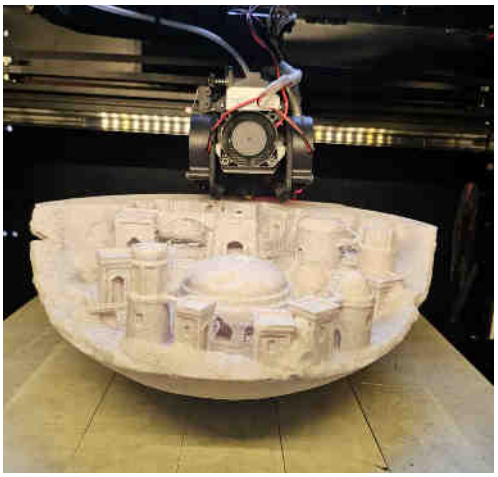
KEY FEATURES

Single Nozzle Print-320x300x290mm(XYZ)
Klipper 3X Faster
Large Build Volume
Industrial 3D Printer
User Friendly User Interface
Touch Screen for Standalone printing
SD Card & WiFi connectivity
Filament Supply Sensing
High-Resolution prints with Heated bed
Multiple Printable materials

Direct Drive Extrusion

Print flexible and high temp materials

3X Faster Printing Speed



Range of filaments

PLA / TPU / ABS / HIPS / PETG /ASA / PP/ PVA / Glass Fiber Infused / Carbon Fiber Infused / Metal Fill / Wood Fill

DC Heated Bed

Filament Run-out Sensor

When the filament over the printer will give an alarm and pauses the and the printer.
Worry-free printing experience

Unibody Metal Design

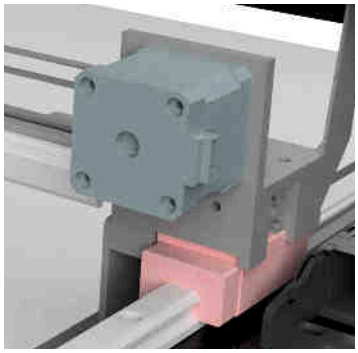
Crafted with Precision: Our Unibody Metal Design offers a seamless, sturdy, durable frame. Experience sophistication and strength in one singular form.

Custom All Metal Hotend

We've reengineered the standard hot-end's heat break and thermistor assembly for superior reliability, eliminating nozzle clogs from heat creep. Enjoy continuous, 15-day fail-free prints with this popular, easy-to-find replacement part hot-end.

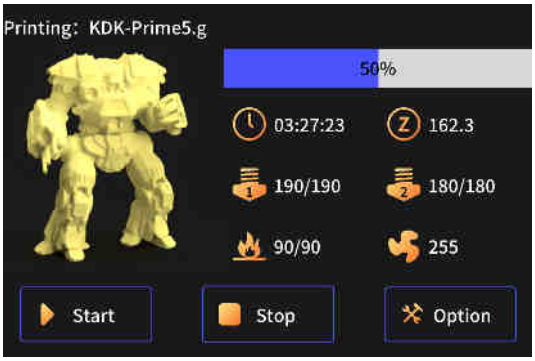
CNC Machined Parts

XY motion system rests on CNC milled blocks which perfectly maintains the XY perpendicularity. This is very important to achieve to repeatable dimensional accuracy of the printed parts.



3.5" Full Colour Touch UI

Experience unmatched control with our 3.5 inch Touchscreen. Designed for 3D printing precision, it offers intuitive navigation and simple controls, ensuring optimal performance and streamlined operations.



TECHNICAL SPECIFICATIONS

Build Volume (WxDxH)	**Single Nozzle Print 320x300x290mm**
Machine Size (WxDxH)	**540x480x590 mm**
Print Technology	**FDM/FFF**
No. of Extruders	**Single / Dual**
Printing Speed	**30-150 mm/s**
Build Plate Type	**Aluminum Plate on top Toughened Glass with PEI Sheet applied (Optional) / Carbon fiber tile**
Max Build Plate Temp.	**100°C**
Heating Bed Element	**DC Heater**
Filament Compatibility	**PLA / ABS / HIPS / TPU / TPE / NYLON / PETG / ASA / PP / PVA / Glass Fiber Infused / Carbon Fiber Infused / Metal Fill / Wood Fill**
Max Nozzle Temp.	**350 °C**
Max Power Usage	**350 W**
Supported File Format	**STL,OBJ,AMF**
Supported Software	**Mekuva Slicer, Simplify3D, Cura, Slic3r, PrusaSlicer**
Product Weight	**45 Kg**
Compatible Nozzle Sizes	**0.25, 0.4, 0.5, 0.6, 0.8, 1.0 mm Diameter**
Complementary Accessories	**Scaper, Side cutter, Nose plier, Nozzle changing wrench, Glue stick, Extra heater and thermistor, Hotend setup, Pendrive, Sprit level, Allen key set, Extra nozzles, 1 Kg PLA material, and extra screws.**

Industrial 3D Printers For High-Tech Manufacturing

At Mekuva Technologies Pvt. Ltd., we are experts in prototyping, specializing in the production of professional 3D printers and offering a range of services including 3D printing, industrial design, and various traditional manufacturing services. Our portfolio boasts collaborations with entrepreneurs, startups, and industry leaders. We firmly believe that commitment holds paramount value in business. Regardless of your company's size, expect unmatched and consistent high-level customer support from us.

The company ensures consistent quality in every product by conducting thorough inspections for mechanical integrity and wiring at each stage of production. Each machine undergoes checks for free axis motion and perpendicularity, in addition to wiring inspections. Every 3D printer is electrically insulated to prevent loose connections, and we use the recommended gauge electrical wires and mechanical components for the assembly of each machine.

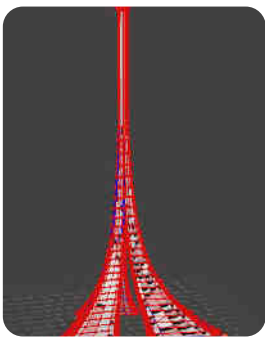
Enabling You to Prototype Faster and Better

Other Services We Offer

3D Printing Services

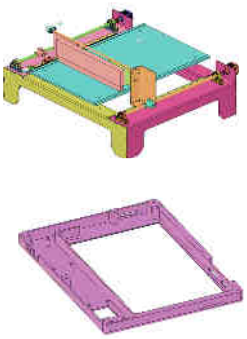
3D Scanning

Part Design Optimization



Vacuum Casting

CAD Designing



Traditional Production

Client Installations

About Mekuva Technologies Pvt Ltd

Mekuva Technologies Private Limited is a manufacturer of Industrial-grade 3D printers, Dedicated to providing users with powerful 3D printers and high-performance materials.

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