

MEKUVA

AKAR 300 PRO



**Affordability Meets Versatility:
Dual Extrusion, Industrial Strength**

mekuva
TECHNOLOGIES

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KEY FEATURES

320x320x420 mm (XYZ) Volume Industrial 3D Printer

Auto Bed Leveling (BL Touch)

User Friendly User Interface

Touch Screen for Standalone Printing

SD Card & USB connectivity

Filament Supply Sensing

Power Outage Recovery

High-Resolution Prints with Heated Bed

Multiple Printable Materials

Dual Extrusion System

Print soluble support materials



Range of filaments

PLA / ABS / PC / NYLON / TPU /
PETG / PVA / Glass Fiber Infused /
Carbon Fiber Infused / Metal Fill /
Wood Fill and more



Power Loss Print Resuming feature



AC Heated Bed

100 ° C in just 5 minutes (1200 Watt)



Filament Run-out Sensor

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



Hiwin HGR15C XY Linear Motion

Perfect linear motion for XY axes helps the machine to achieve perfect 3D prints.



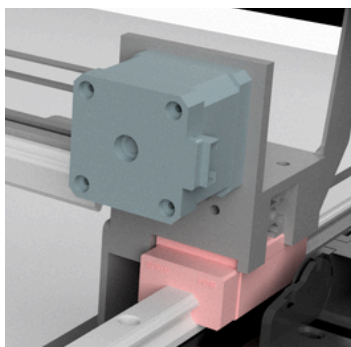
Unibody Metal Design

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



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.



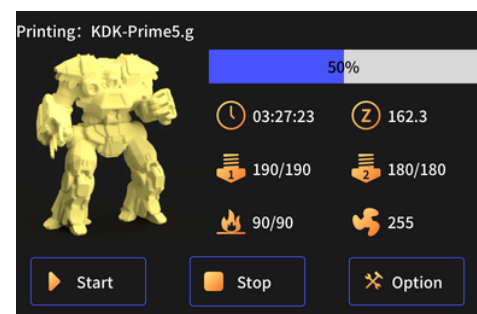
Ball Screw for Z-Axis

Helps in smooth and long life of Z-axis motion system



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.



Modified MK8 Hot-end

We've reengineered the standard MK8 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.



TECHNICAL SPECIFICATIONS

| | |
|----------------------------------|---|
| Build Volume (WxDxH) | 320x320x420 mm |
| Machine Size (WxDxH) | 550x565x760 mm |
| Heated Chamber | 55°C |
| Print Technology | FDM/FFF |
| No. of Extruders | Single / Dual |
| Printing Speed | 30-150 mm/s (30-80mm/sec recommended) |
| Build Plate Type | Aluminum Plate with Toughened Glass, Optional: PEI Sheet |
| Max Build Plate Temp. | 110°C |
| Heating Bed Element | Silicone Heater |
| Filament Compatibility | PLA / ABS / HIPS / PC / TPU / TPE / NYLON / PETG / ASA / PP / PVA / Glass Fiber Infused / Carbon Fiber Infused / Metal Fill / Wood Fill |
| Max Nozzle Temp. | 300°C |
| Max Power Usage | 1100 W |
| Supported File Format | STL,OBJ,AMF |
| Supported Software | Simplify3D, Cura, Slic3r, PrusaSlicer |
| Product Weight | 90 Kg |
| Supported Spool Sizes | 1 Kg, 1.5 Kg |
| Compatible Nozzle Sizes | 0.25, 0.4, 0.5, 0.6, 0.8, 1.0 mm |
| Bed Leveling | Automatic, 25 point bed leveling |
| Printer Display (Control) | 3.5 inch Full Colour Touchscreen |
| Complementary Accessories | Scaper, Side cutter, Nose plier, Nozzle changing wrench, Glue stick, Extra heater and thermistor, Hotend setup, Pendrive, Spirit level, Allen key set, Extra nozzles, 1 Kg PLA material, and extra screws. |

Industrial 3D Printers For High-Tech Manufacturing



Enabling You to Prototype Faster and Better

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.

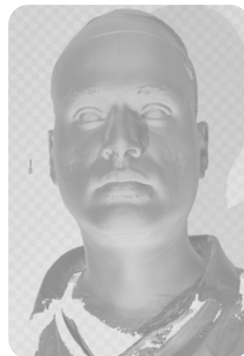
The company ensures consistent quality in every product by conducting thorough inspections for mechanical integrity and wiring at each stage of production. Each machine undergoes checks for free axis motion and perpendicularity, in addition to wiring inspections. Every 3D printer is electrically insulated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

Other Services We Offer

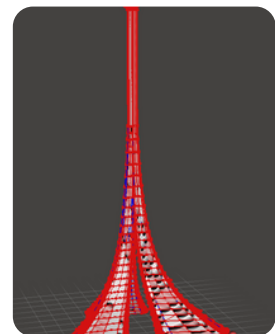
3D Printing Services



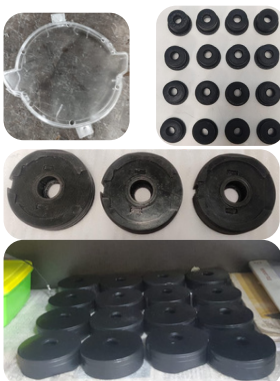
3D Scanning



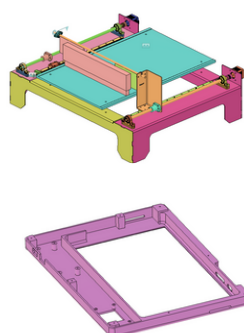
Part Design Optimization



Vacuum Casting



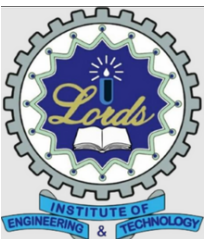
CAD Designing



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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