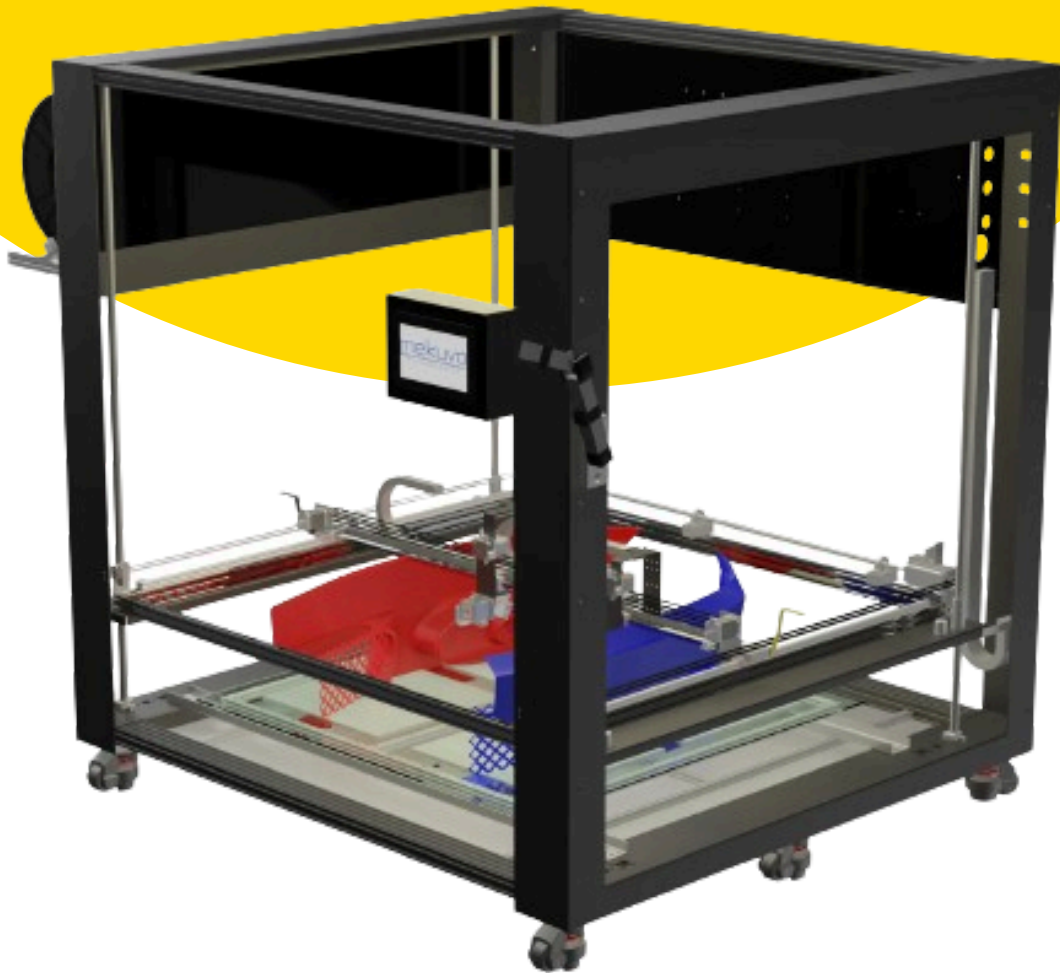


MEKUVA AKAR 1000



**Modular 3D Printer: IDEX Head,
Laser Engraving & Large Bed Size**

KEY FEATURES

1050x1050x1200mm (XYZ) Build Volume Industrial 3D Printer

User Friendly Interface

Touch Screen for Standalone Printing

USB & WIFI Connectivity with IoT

Filament Supply Sensing

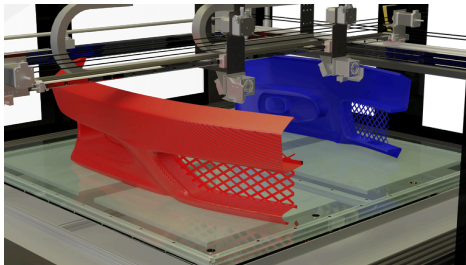
Power Outage Recovery

High-Resolution Prints with Heated Bed

Multiple Printable Materials

Stable Print Bed

Support for tall and heavy prints

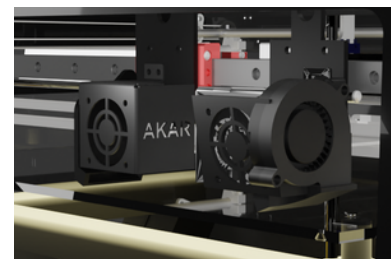


Our 3D printer is equipped with a **large and stable** print bed, engineered to support substantial weights of up to **200 kg**. Such robust construction is particularly advantageous for producing **tall prints**, as it offers a solid and reliable foundation, free from any vibrations or shaking that could compromise the integrity of the print.

Our printer's stable base guarantees precision and accuracy, making it an ideal choice for demanding and detailed 3D printing tasks.

IDEX Support

Support for Multiple types of Toolheads



IDEX Toolhead: Big-scale 3D printing perfected. Double your output with **mirror & duplication** modes, crafting up to 1m objects with unyielding precision at **half the time**. Ideal for expansive prototypes or art pieces, our toolhead merges seamless integration and consistent performance. Simplify your creative process and scale up effortlessly. Your imagination is the only limit.

Embark on grand-scale printing with IDEX Toolhead.

Silicone Heater

100 ° C in just 10 minutes (2200 Watt)



Power Loss Print Resuming feature



Range of filaments

PLA / TPU / TPE / PETG / PVA /
Glass Fiber Infused / Carbon Fiber
Infused / Metal Fill / Wood Fill /
(Optional Pellets)



Hiwin HGR15C XY Linear Motion

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



Ball Screw for Z-Axis

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



Get the Full Experience

- With 7 inch touch screen
- High-Speed Printing
- Improved Print Quality
- Advanced Calibration
- Flexible & Responsive UI

Unibody Metal Design

Precision Crafted: Experience the
sophistication and durability of our
Unibody Metal Design."



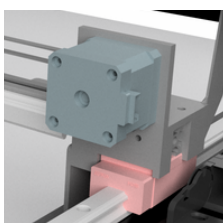
Supports 5 kg Spools

Print large objects requiring 2 KG or
more material without worrying about
changing the material mid-job



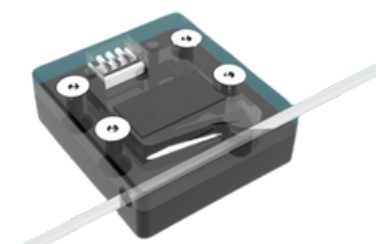
CNC Machined Parts

Our CNC milled blocks ensure
perfect XY alignment for
repeatable dimensional accuracy
in prints.



Filament Run-out Sensor

Automatically stop printing when
filament runout and resume printing
when replacing the new filament



Modified MK8 Hot-end

Our reengineered MK8 hot-end prevents
nozzle clogs and ensures 15-days
continuous, fail-free prints



TECHNICAL SPECIFICATIONS

Build Volume (WxDxH)	1050x1050x1200mm
Machine Size (WxDxH)	1960x1620x1800 mm
Print Technology	FDM/FFF
No. of Extruders	Single / Dual
Printing Speed	30–300 mm/s (30–200 mm/sec recommended)
Build Plate Type	Aluminum Plate with Toughened Glass, Optional: PEI Sheet
Max Build Plate Temp.	90°C
Heating Bed Element	Silicone Heater
Filament Compatibility	PLA / TPU / TPE / PETG / PVA / Glass Fiber Infused / Carbon Fiber Infused / Metal Fill / Wood Fill / (Optional Pellets)
Max Nozzle Temp.	300°C
Max Power Usage	3000 W
Supported File Format	GCODE & UFP
Supported Software	Mekuva Slicer, Simplify3D, Cura, Orca, PrusaSlicer
Product Weight	350 Kg
Supported Spool Sizes	1 Kg, 1.5 Kg, 2.5 Kg and 5 Kg
Compatible Nozzle Sizes	0.4, 0.5, 0.6, 0.8, 1.0, 1.2 mm
Bed Leveling	Automatic Mesh Levelling, 36 point leveling
Printer Display (Control)	5" Full Colour Touchscreen with IoT Smart Connectivity
Complementary Accessories	Scraper, Side cutter, Nose pliers, Nozzle changing wrench, Glue stick, Extra heater and thermistor, Hotend setup, Pendrive, Spirit level, Allen key set, Extra nozzles, 1 Kg PLA Filament, 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.

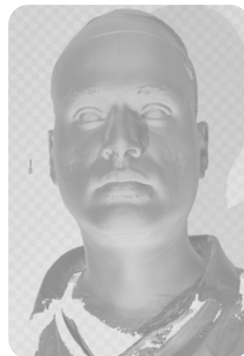
The company ensures consistent quality in every product by conducting thorough inspections for mechanical integrity and wiring at each stage of production. Each machine undergoes checks for free axis motion and perpendicularity, in addition to wiring inspections. Every 3D printer is electrically insulated 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

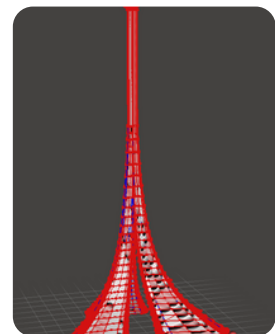
3D Printing Services



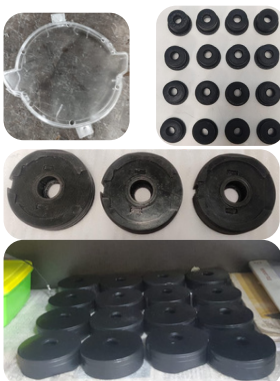
3D Scanning



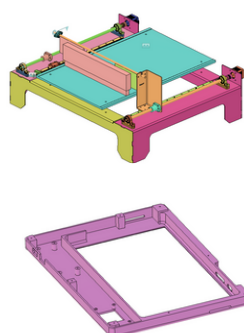
Part Design Optimization



Vacuum Casting



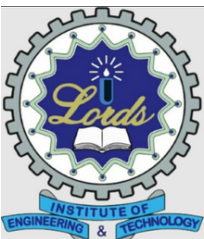
CAD Designing



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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