

Product Catalogue

# MEKUVA AKAR FDM 3D PRINTERS

Industrial 3D Printers For High-Tech  
Manufacturing

**mekuva**  
TECHNOLOGIES

OUR FLAGSHIP PRINTER

# AKAR 1000

The AKAR 1000 represents the pinnacle of modular 3D printing technology, offering unparalleled versatility and precision. Its innovative design includes a large build volume, a range of toolheads for diverse applications, and user-friendly features like a touchscreen interface and IoT connectivity. Crafted for both ease of use and high efficiency, the AKAR 1000 is ideal for professionals seeking reliable, high-quality 3D printing solutions.



## Key Features

- Build Volume:** 1050x1050x1200mm (XYZ), enabling large-scale projects.
- Modular Toolheads:** Optional Laser, Pellet, and more for varied applications.
- User Interface:** Intuitive touch screen for standalone printing and easy operation.
- Connectivity:** USB & WIFI enabled, with smart IoT features.
- Material Compatibility:** PLA, ABS, PETG, TPU, Nylon, and more.
- Advanced Capabilities:** Filament supply sensing, power outage recovery, and automatic mesh leveling.
- Speed and Temperature:** Printing speed of 30-300 mm/s and a max build plate temperature of 120°C.

Powered by



FAST YET LARGE, FEATURE PACKED PRINTER

# AKAR 600 PRO

A top-tier, large-scale 3D printer delivering unmatched performance. This powerhouse boasts a integrated with smart web control and AI failure detection. Klipper's advanced firmware streamline your printing process. Accommodating a variety of materials, including specialized filaments, it features a dual extrusion system for complex projects. Essential features like Wi-Fi connectivity, filament sensing, and a 1200 Watt AC heated bed ensure efficiency and precision. The AKAR 600 PRO, powered by Klipper, is the ultimate tool for sophisticated, seamless 3D printing experiences."

## Key Features

- Build Volume:** 600x600x620mm (XYZ) for expansive projects.
- Dual Extrusion System:** Enables printing with soluble support materials.
- Connectivity:** Includes SD Card & Wi-Fi for seamless operation.
- Material Flexibility:** Compatible with a wide range of filaments including PLA, TPU, PETG, and more.
- Fast Heating Chamber:** Reliable ABS prints with 60°C temp.
- Advanced User Interface:** Features a 7" touchscreen for smart printing control.
- Speed and Temperature:** Printing speed of 30-300 mm/s and a max build plate temperature of 120°C.

Powered by





UNMATCHED RELIABILITY AND VALUE

## AKAR 600

### Key Features

- **Build Volume:** 600x600x620mm (XYZ) for large-scale projects.
- **User Interface:** Touchscreen for standalone printing.
- **Connectivity:** Equipped with SD Card & USB options.
- **Dual Extrusion System:** Facilitates printing with soluble support materials.
- **Material Compatibility:** Supports PLA, TPU, PETG, Carbon Fiber, Metal Fill, and Wood Fill
- **Additional Features:** Auto bed leveling, power outage recovery, and filament supply sensing for a worry-free printing experience.

AFFORDABILITY MEETS VERSATILITY

## AKAR 300 PRO

### Key Features

- **Build Volume:** 300x320x420mm (XYZ), suited for a variety of projects.
- **Dual Extrusion:** Enables use of soluble support materials
- **Connectivity:** Equipped with SD Card & USB options.
- **User Interface:** Touchscreen for standalone printing.
- **Material Compatibility:** Wide range including PLA, TPU, PETG, Carbon Fiber, Metal Fill, and Wood Fill.
- **Fast Heating Chamber:** Reliable ABS prints with 60°C temp.
- **Additional Features:** Auto bed leveling, power outage recovery, filament supply sensing.



HIGH EFFICIENCY AT AN AFFORDABLE PRICE

## AKAR 300

### Key Features

- **Build Volume:** 310x320x420mm (XYZ) (single Toolhead), suited for a variety of projects.
- **Optional Dual Extrusion:** Supports Dual Extrusion (Opt.).
- **Connectivity:** Equipped with SD Card & USB options.
- **User Interface:** Touchscreen for standalone printing.
- **Material Compatibility:** Wide range including PLA, TPU, PETG, Carbon Fiber, Metal Fill, and Wood Fill.
- **Additional Features:** Auto bed leveling, power outage recovery.



DOUBLE THE PRODUCTIVITY, HALF THE COST

## AKAR 200 IDEX



### Key Features

- **Build Area:** 370x250x200mm (XYZ) for single/dual color print, 150x250x200mm for mirror/copy prints.
- **Independent Dual Extrusion (IDEX):** Enables simultaneous use of two different materials or colors, expanding creative possibilities.
- **Mirror and Copy Printing Modes:** Allows printing of two identical or mirrored objects at the same time, doubling productivity.
- **Connectivity:** Equipped with SD Card & USB options.
- **User Interface:** Touchscreen for standalone printing.
- **Material Compatibility:** Wide range including PLA, TPU, PETG, Carbon Fiber, Metal Fill, and Wood Fill.
- **Additional Features:** Auto bed leveling, power outage recovery.

FULLY ENCLOSED & HIGH-TEMP

## AKAR 200 PRO

### Key Features

- **Build Volume:** 250x250x300mm (XYZ), suited for a variety of projects.
- **High Temp Support:** Max Nozzle Temp : 420°C, Bed Temp : 150°C, Chamber Temp : 90°C
- **Connectivity:** Equipped with SD Card & USB options.
- **User Interface:** Touchscreen for standalone printing.
- **Material Compatibility:** Wide range including PEEK, PEKK, ULTEM, TPU, PETG, Carbon Fiber, Metal Fill, and Wood Fill.
- **Additional Features:** Auto bed leveling, power outage recovery.



FAST YET LARGE, FEATURE PACKED PRINTER

## AKAR 200

### Key Features

- **Build Volume:** 270x220x270mm (XYZ), suited for a variety of projects.
- **Connectivity:** Equipped with SD Card & USB options.
- **User Interface:** Touchscreen for standalone printing.
- **Material Compatibility:** Wide range including PLA, TPU, PETG, and Wood Fill.
- **Additional Features:** Auto bed leveling, power outage recovery.



## 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

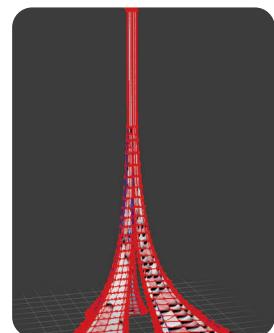
### 3D Printing Services



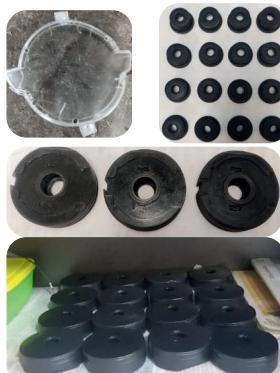
### 3D Scanning



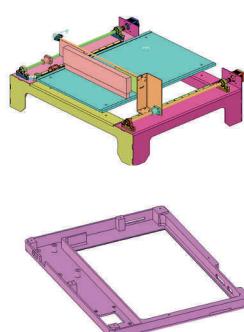
### Part Design Optimization



### Vacuum Casting



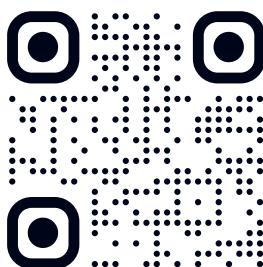
### CAD Designing



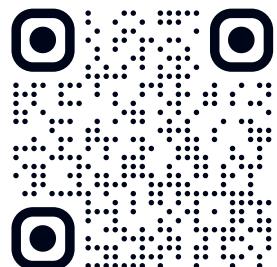
### Traditional Production



## Client Installations



Website



Maps

 [mekuva.com](http://mekuva.com)

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