

MEKUVA  
**AKAR 600**



**Experience Unmatched Reliability  
and Value**

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TECHNOLOGIES

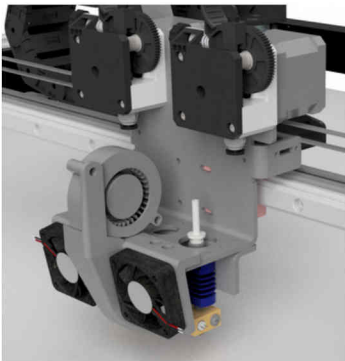
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# KEY FEATURES

**600x600x620mm (XYZ) Large Build Volume Industrial 3D Printer Auto Bed Levelling (BL touch sensor)**  
**User Friendly User Interface**  
**Touch Screen for Standalone printing**  
**SD Card & WiFi connectivity**  
**Filament Supply Sensing**  
**Power Outage Recovery**  
**High-Resolution prints with Heated bed**  
**Multiple Printable materials**

## Dual Extrusion System

Print soluble support materials

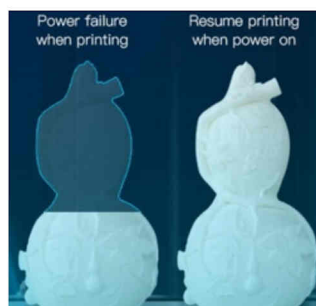


## AC Heated Bed

100 ° C in just 5 minutes (1200 Watt)



## Power Loss Print Resuming feature



## Range of filaments

PLA / TPU / PETG / PVA / Glass  
Fiber Infused / Carbon Fiber  
Infused / Metal Fill / Wood Fill



## Filament Run-out Sensor

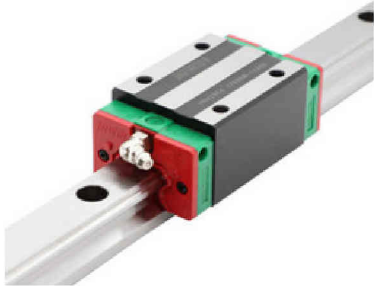
When the filament over the printer will give an alarm and pauses the and the printer.

Worry-free printing experience



## Hiwin HGR15C XY Linear Motion

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



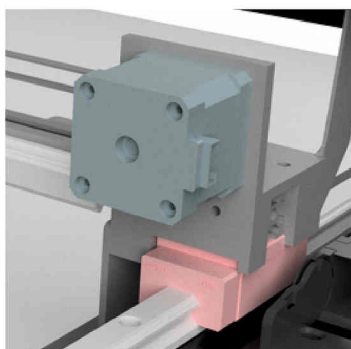
## Unibody Metal Design

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.



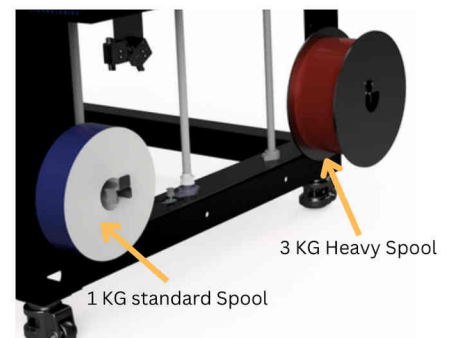
## Ball Screw for Z-Axis

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



## Supports 3 kg Spools

Worry free printing large objects which require atleast 2 KG or more material to finish the job. No need to worry about changing the material during the print jobs



## 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

<b>Build Volume (WxDxH)</b>	<b>600x600x620mm</b>
<b>Machine Size (WxDxH)</b>	<b>1030x920x900 mm</b>
<b>Print Technology</b>	<b>FDM/FFF</b>
<b>No. of Extruders</b>	<b>Single / Dual</b>
<b>Printing Speed</b>	<b>30-200 mm/s (30-80mm/sec recommended)</b>
<b>Build Plate Type</b>	<b>Aluminum Plate with Toughened Glass, Optional: PEI Sheet</b>
<b>Max Build Plate Temp.</b>	<b>100°C</b>
<b>Heating Bed Element</b>	<b>AC Heater</b>
<b>Filament Compatibility</b>	<b>PLA / TPU / TPE / PETG / PVA / Glass Fiber Infused / Carbon Fiber Infused / Metal Fill / Wood Fill</b>
<b>Max Nozzle Temp.</b>	<b>265°C</b>
<b>Max Power Usage</b>	<b>1300 w</b>
<b>Supported File Format</b>	<b>GCODE &amp; UFP (Cura)</b>
<b>Supported Software</b>	<b>Simplify3D, Cura, Slic3r, PrusaSlicer</b>
<b>Product Weight</b>	<b>135 Kg</b>
<b>Supported Spool Sizes</b>	<b>1 Kg, 1.5 Kg, 2.5 Kg and 3 Kg</b>
<b>Compatible Nozzle Sizes</b>	<b>0.25, 0.4, 0.5, 0.6, 0.8, 1.0 mm</b>
<b>Bed Leveling</b>	<b>Automatic, 25-point leveling</b>
<b>Printer Display (Control)</b>	<b>3.5-inch full-color touch UI display with a knob</b>
<b>Complementary Accessories</b>	<b>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.</b>

## 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

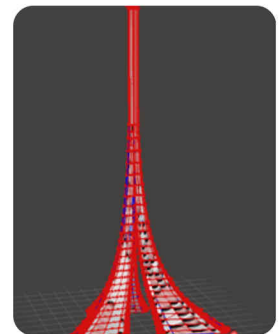
### 3D Printing Services



### 3D Scanning



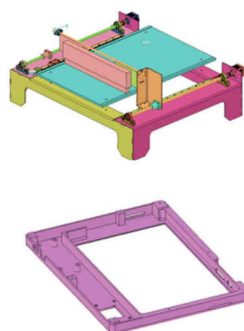
### Part Design Optimization



### 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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