

Creality K1 Max – AI-Powered Large-Format 3D Printer with Lidar & 600mm/s Speed

Product Description:

The Creality K1 Max is the heavyweight champion of high-speed 3D printing. With a spacious 300 x 300 x 300 mm build volume and a blazing 600mm/s print speed, it's made for creators who need size and speed. Powered by Klipper firmware, it offers lightning-fast acceleration, smart automation, and cloud control in a sleek, enclosed CoreXY machine.

Equipped with an AI LiDAR sensor and intelligent camera, the K1 Max delivers effortless auto-leveling, spaghetti detection, and real-time monitoring. Its reinforced chassis and vibration-damping system ensure exceptional precision—even during rapid prints. This is industrial-grade capability in a desktop form.

Specifications:

Feature	Details
Build Volume	300 x 300 x 300 mm
Print Speed	Up to 600mm/s (Default 300mm/s)
Max Acceleration	20,000mm/s ²
Layer Height	0.1 – 0.35mm
Extruder	Direct Drive, All-Metal
Nozzle Diameter	0.4mm (standard, replaceable)
Filament Compatibility	PLA, ABS, PETG, TPU, Nylon, Carbon Fiber
Bed Surface	PEI Magnetic Flex Plate
Leveling System	AI LiDAR + Strain Sensor Auto-Leveling
Camera	AI Camera with Spaghetti Detection & Monitoring
Enclosure	Fully Enclosed with Carbon Air Filter
Firmware	Klipper (Creality OS)
Connectivity	Wi-Fi, LAN, USB
Display	4.3" Touchscreen

Frame Structure

Rigid Unibody Metal Chassis

Contents:

- Creality K1 Max 3D Printer (Fully Assembled)
- PEI Magnetic Build Plate
- Power Cable
- USB Flash Drive
- Filament Sample
- Tool Kit
- Spare Nozzle
- User Manual

Applications:

- Large Prototypes
- Functional Mechanical Parts
- Educational Engineering Projects
- Design Studios & Industrial Testing
- Multi-part Assembly Prints
- Carbon Fiber Functional Prints

Features and Benefits:

- Massive Build Volume: Print large objects or multiple parts at once.
- AI-Powered LiDAR Leveling: Next-gen precision with zero manual adjustment.
- CoreXY Speed Engine: Hit 600mm/s while maintaining flawless quality.
- AI Camera Monitoring: Detects failed prints or foreign objects in real-time.
- Enclosed Frame + Carbon Filter: Better results with tough filaments like ABS.
- All-Metal Extruder: Compatible with abrasive and high-temp filaments.
- Smart Connectivity: Print from the cloud, app, or local USB/Wi-Fi.

Packaging:

Each K1 Max ships fully assembled, protected by dual-layer foam packaging, and boxed for secure transport. Ready to print right out of the box.