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Anet ET5X

Anet ET5X DIY 3D Printer Instruction Manual

Model: ET5X

Brand: Anet

1. PRODUCT OVERVIEW

The Anet ET5X is a DIY 3D printer designed for enthusiasts and professionals, featuring auto-leveling, resume printing functionality, and a large build volume. Its robust metal frame ensures stable and precise printing.



Figure 1.1: Anet ET5X 3D Printer with example prints.

Key Features:

- Auto Leveling with Resume Printing Function
- 3.5 Inch LCD Color Touch Screen
- Upgraded Over-Current Protection Mainboard
- Large Build Size: 11.8 x 11.8 x 15.7 inches (300x300x400mm)
- Metal Frame & Quick Assembly

Your browser does not support the video tag.

Video 1.1: Anet ET5X 3D printer overview, showcasing its features and capabilities.

Your browser does not support the video tag.

Video 1.2: Anet ET5X DIY 3D Printer features, including auto-leveling and filament assignment.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the Anet ET5X 3D printer. Failure to follow

these instructions may result in injury, property damage, or poor print quality.

- **Hot Surfaces:** The print nozzle and heated bed can reach high temperatures. Avoid touching these components during operation or immediately after printing. Allow them to cool completely before handling.
- **Moving Parts:** The printer contains moving parts that can cause injury. Keep hands, hair, and loose clothing clear of the print head, bed, and gantry during operation.
- **Ventilation:** Operate the printer in a well-ventilated area. Some filaments may produce fumes during printing.
- **Electrical Safety:** Ensure the printer is connected to a properly grounded power outlet. Do not operate with damaged power cords or plugs.
- **Filament Handling:** Use appropriate filament types for your printer. Store filament in a dry environment to prevent moisture absorption.
- **Supervision:** Do not leave the printer unattended during operation, especially during long prints.

3. SETUP

3.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Inspect for any visible damage that may have occurred during transit. The packaging includes foam inserts to protect the printer components.

Metal Frame & Quick Assembly

Pre-assembly and modular design with quick assemble in 10min.

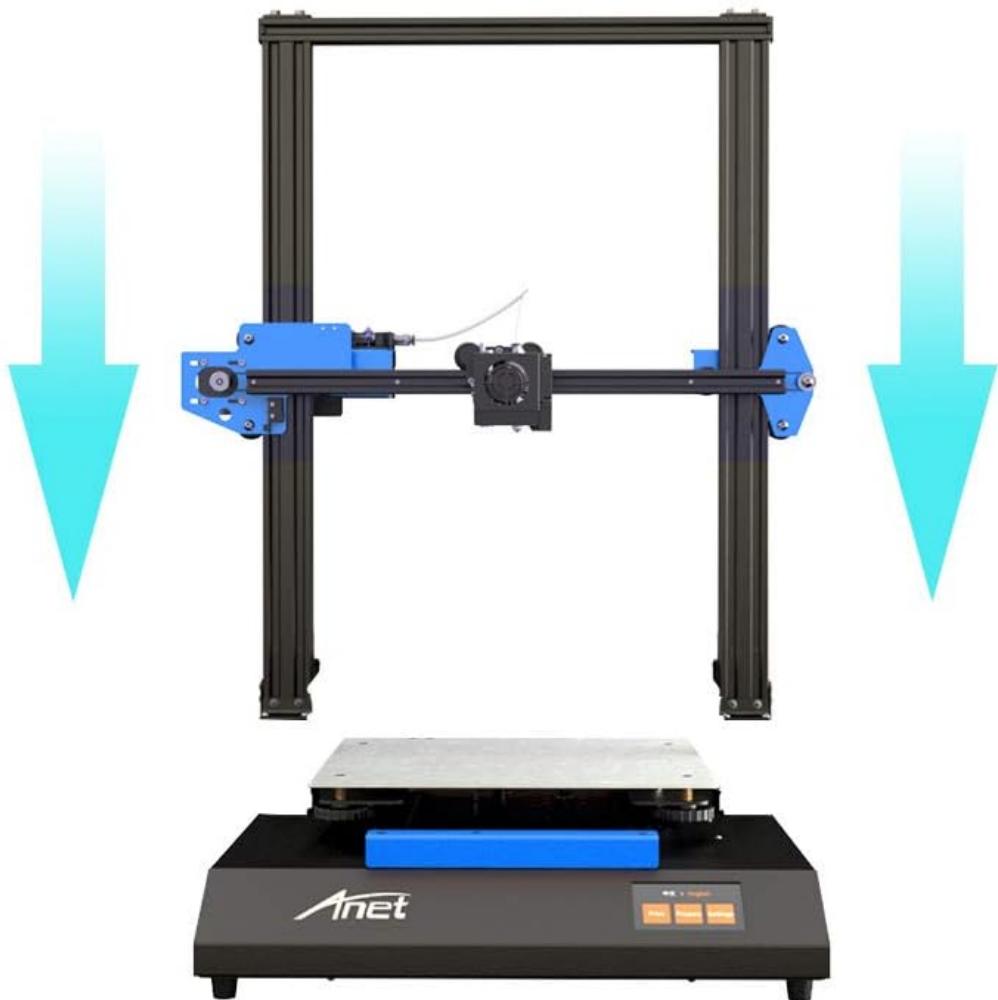


Figure 3.1: Anet ET5X components as packaged, showing the main frame and base.

3.2 Assembly

The Anet ET5X is designed for quick assembly. The main gantry comes pre-assembled and simply needs to be attached to the base unit. Follow these general steps:

1. Place the base unit on a stable, level surface.
2. Carefully align the gantry with the designated mounting points on the base.
3. Secure the gantry to the base using the provided screws and tools.
4. Connect the motor cables and other necessary wiring as indicated in the manual.
5. Attach the filament spool holder to the top of the gantry.

3.3 Initial Power On and Touchscreen Interface

Connect the power cable and turn on the printer. The 3.5-inch LCD color touchscreen provides an intuitive user interface for controlling the printer's functions.

Intuitive Touchscreen

Clear UI with user friendly interface.



Figure 3.2: The intuitive touchscreen interface of the Anet ET5X.

3.4 Automatic Bed Leveling

The ET5X features matrix automatic leveling, which measures 25 points across the print platform to ensure a perfectly level print surface. This significantly simplifies the setup process and improves print adhesion.

Matrix Automatic Levelling

Auto measures 25 points across the print platform for heat bed leveling.

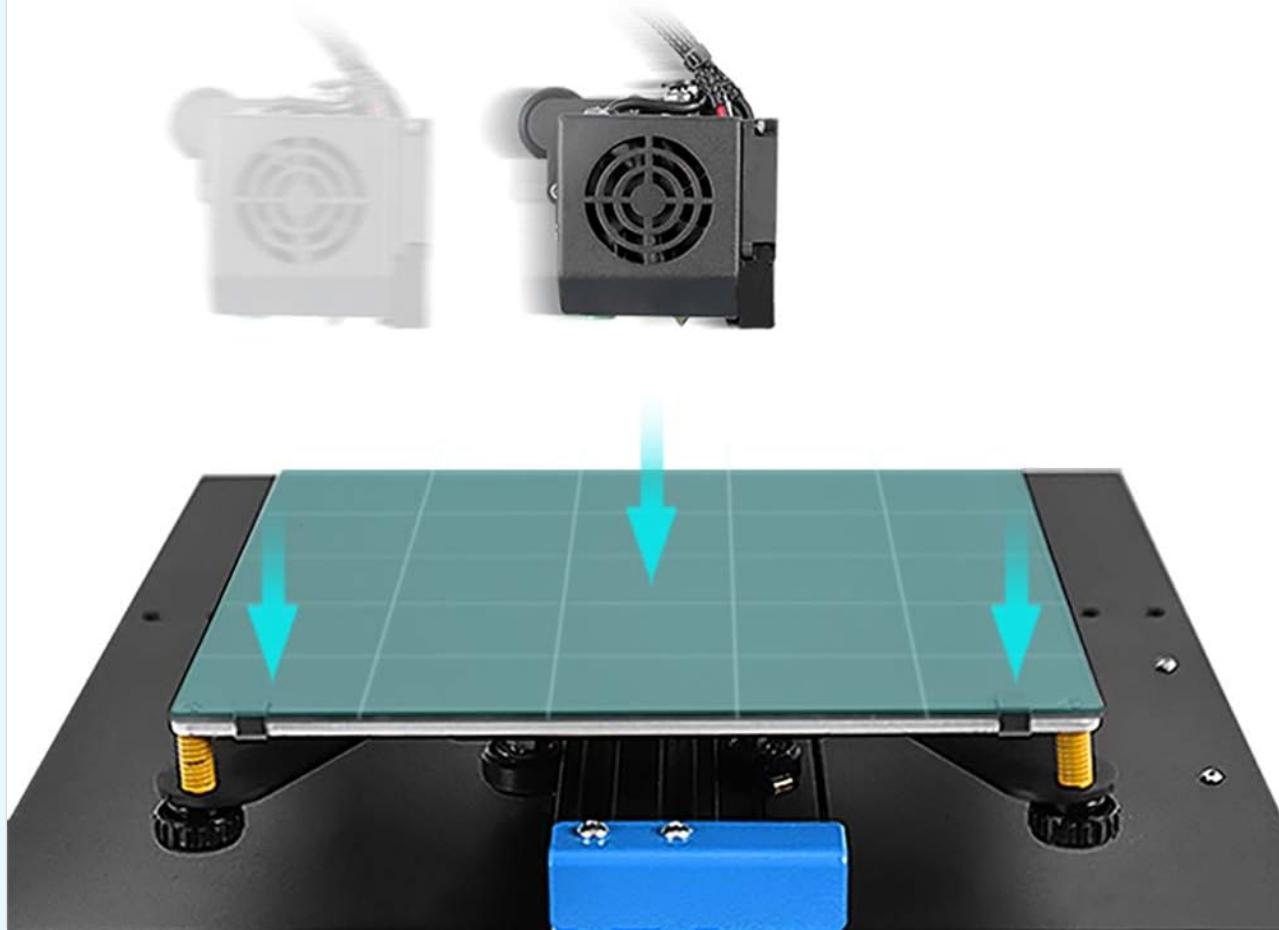


Figure 3.3: Matrix automatic leveling system in action.

3.5 Filament Loading

The printer supports automatic filament assignment, allowing for easy loading and unloading of filament with just a click. Ensure the filament is properly fed into the extruder mechanism.

Auto Filament Assignment

Automatic load and unload the filament with just a click.

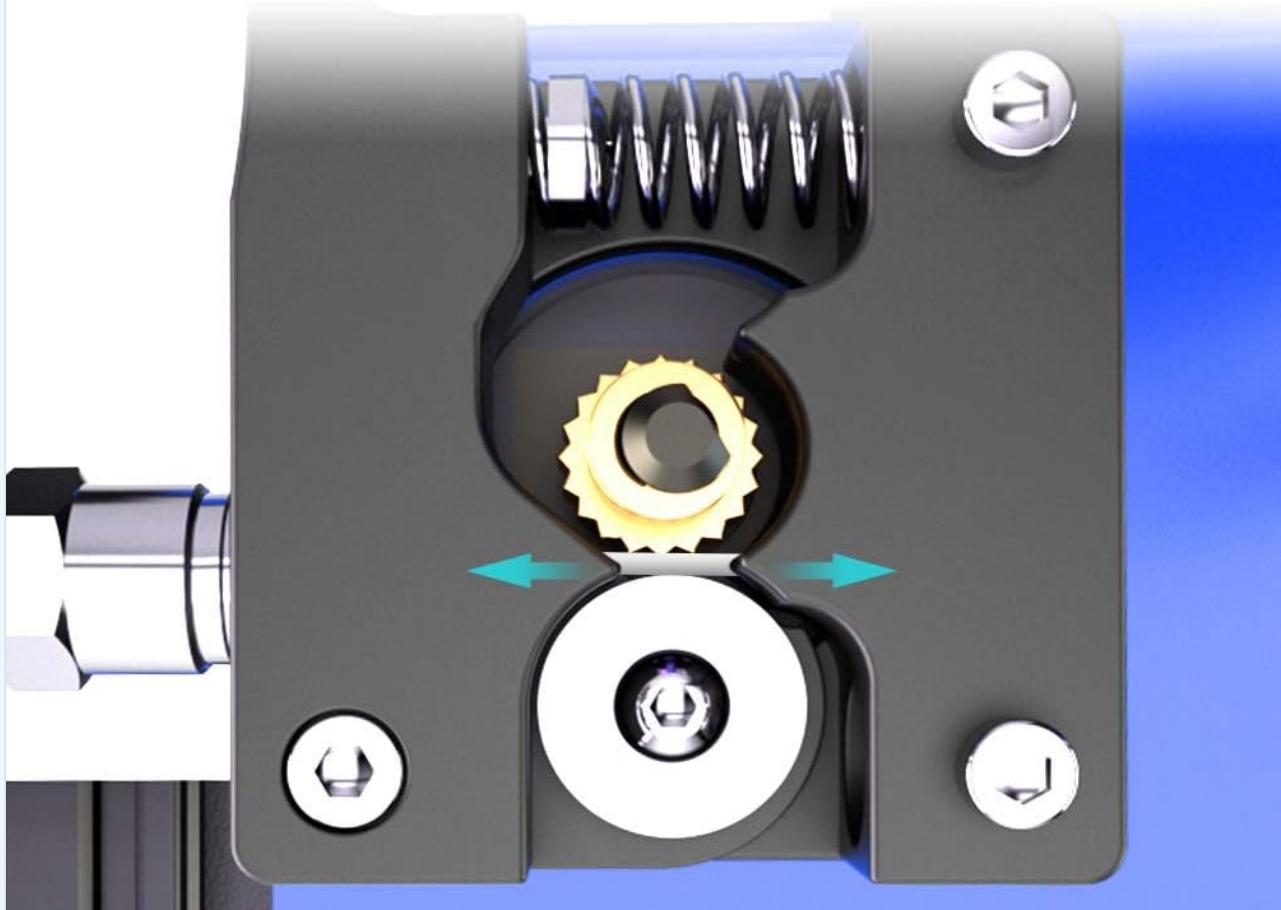


Figure 3.4: Automatic filament loading mechanism.

4. OPERATING

4.1 Printing Process

Once the printer is assembled, leveled, and filament is loaded, you can begin printing. Prepare your 3D models using compatible slicing software (not included) and transfer the G-code files to the printer via SD card or USB connection.



Figure 4.1: The Anet ET5X printing a large model.

4.2 Resume Printing Function

The Anet ET5X is equipped with a resume printing function, allowing it to recover and continue printing from the exact point it left off in case of an unexpected power outage. This feature helps prevent failed prints and saves material.

Power Outage Recovery

Resume printing and recover from exactly where it left off. No worries



Accident Power Loss



Resume Printing

Figure 4.2: Power Outage Recovery feature.

4.3 Ultra Large Print Volume

The printer boasts an ultra-large print volume of 300x300x400mm (11.8x11.8x15.7 inches), enabling the creation of significantly larger models compared to standard desktop 3D printers.

Ultra Large Print

300x300x400mm ultra large print volume
Dream big, print big

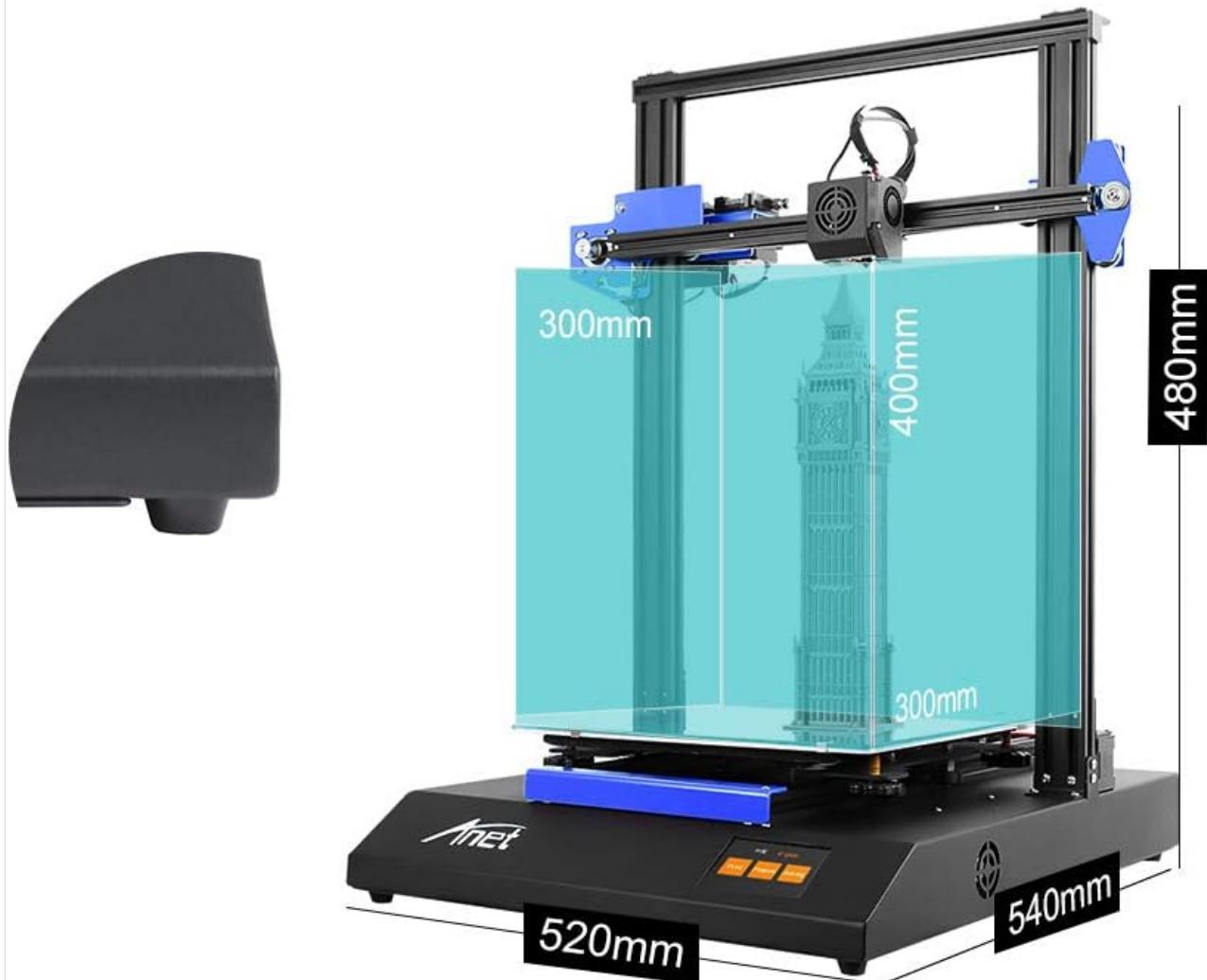


Figure 4.3: Ultra Large Print Volume capabilities.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Anet ET5X 3D printer.

- **Cleaning:** Regularly clean the print bed, nozzle, and gantry rails to prevent debris buildup. Use a soft cloth and appropriate cleaning solutions.
- **Nozzle Maintenance:** Periodically check the nozzle for wear or clogs. Replace the nozzle if print quality degrades significantly. The printer comes with an extra 0.4mm nozzle.
- **Belt Tension:** Ensure the X and Y axis belts are properly tensioned. Overly loose or tight belts can affect print accuracy. Adjust using the eccentric nuts if necessary.
- **Lubrication:** Apply a small amount of lubricant to the Z-axis lead screws periodically to ensure smooth movement.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Anet ET5X 3D printer.

6.1 Common Print Issues

- **Poor Bed Adhesion:** Ensure the print bed is clean and level. Adjust Z-offset if the first layer is not sticking or is too squished. Consider using an adhesive like glue stick or hairspray.
- **Filament Clogging:** This can be caused by heat creep, incorrect temperature settings, or dirty nozzles. Ensure proper cooling of the hotend and try a cold pull to clear clogs.
- **Layer Shifting:** Often caused by loose belts, motor issues, or physical obstructions. Check belt tension and ensure smooth movement of all axes.

6.2 Z-Axis Homing Issues

Some users have reported Z-axis homing issues where the printer does not home correctly. This can sometimes be related to firmware bugs or sensor calibration. Anet has indicated plans to release open-source firmware to address such issues.

6.3 Firmware Updates

Anet is actively working on firmware updates to improve functionality and address known bugs. Check the official Anet website or support channels for the latest firmware versions and installation instructions.

7. SPECIFICATIONS

Attribute	Value
Brand	Anet
Product Dimensions	11.8"D x 11.8"W x 15.7"H
Item Weight	21.3 pounds (9.7 Kilograms)
Color	Black
Compatible Devices	Laptop, Smartphone
Date First Available	April 20, 2020

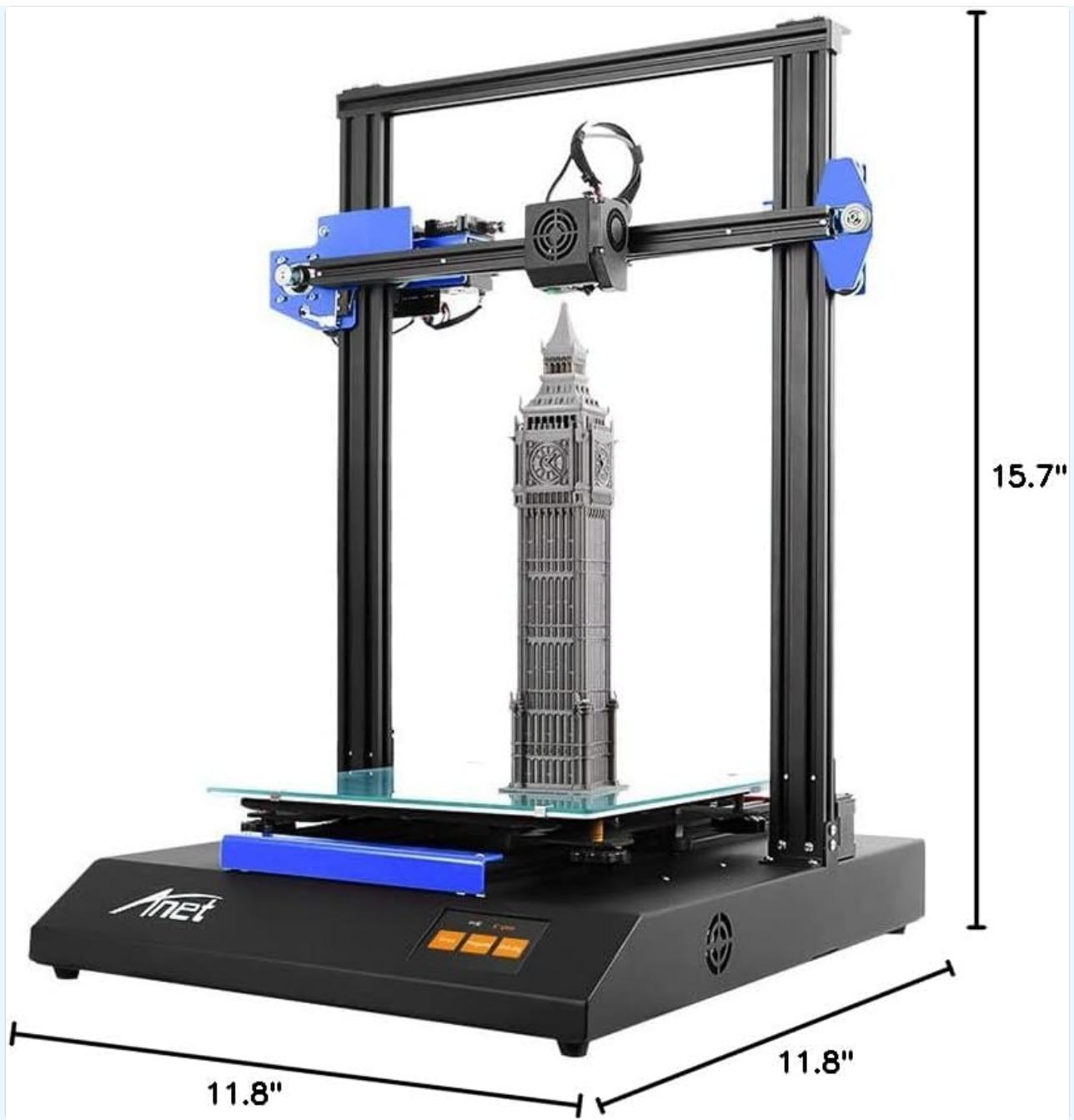


Figure 7.1: Anet ET5X 3D Printer dimensions.

8. WARRANTY AND SUPPORT

For warranty details, please refer to your purchase documentation or contact the retailer where you purchased the Anet ET5X 3D Printer.

For additional support, including troubleshooting tips, FAQs, and firmware updates, please visit the official Anet website or their Amazon store page:

- [Anet Official Store on Amazon](#)
- You can also refer to the [User Manual \(PDF\)](#) or [User Guide \(PDF\)](#) provided with the product.

