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SUNLU SUNLU T3 3D Printer (Terminator 3)

SUNLU T3 3D Printer User Manual

Model: SUNLU T3 (Terminator 3)

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your SUNLU T3 3D Printer. Please read this manual thoroughly before using the printer to ensure optimal performance and longevity.

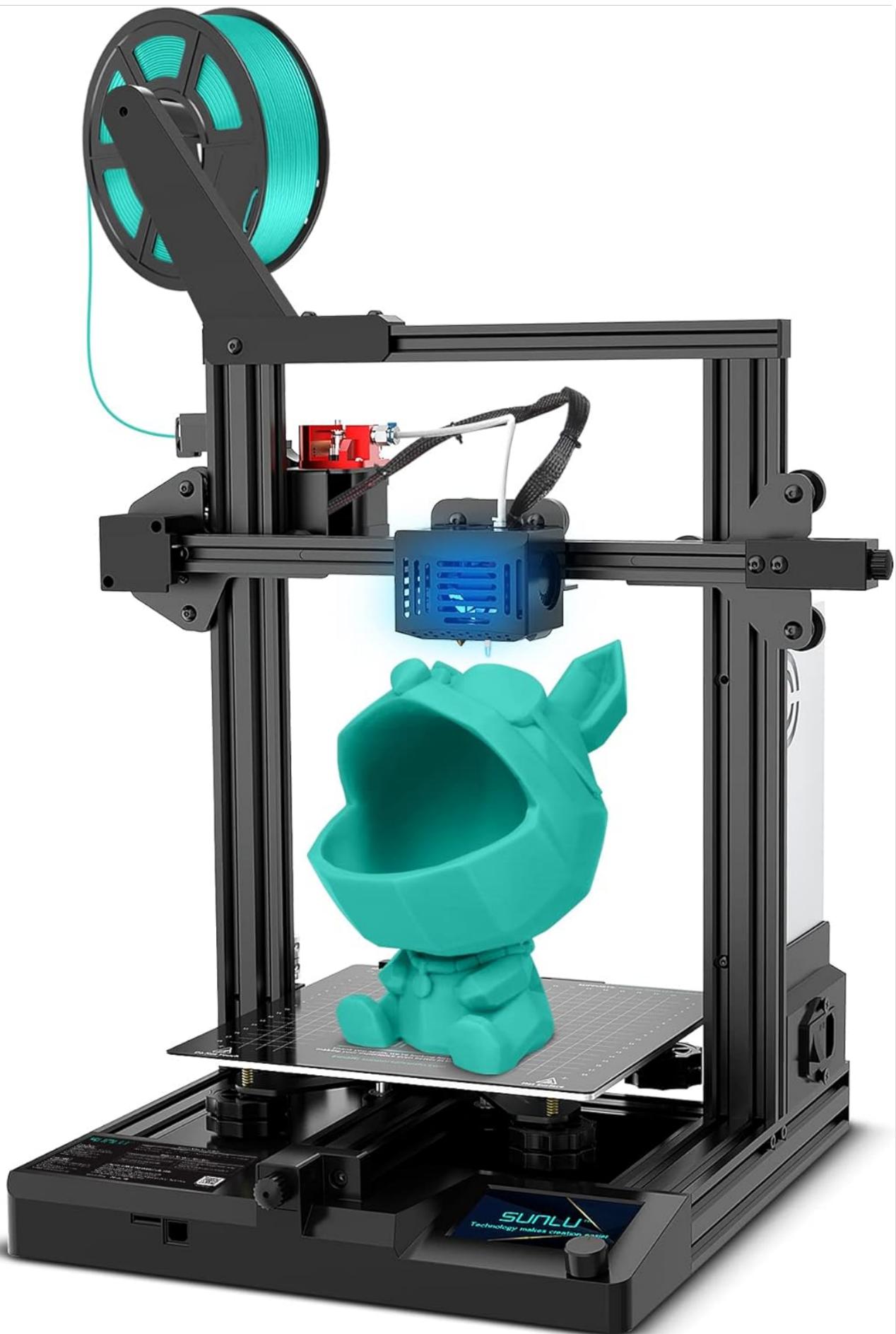


Image: The SUNLU T3 3D Printer, showcasing its design and a sample print.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions:

- Keep the printer away from flammable materials and heat sources.
- Ensure proper ventilation during operation.
- Do not touch the hot nozzle or heated bed during operation or immediately after printing.
- Always disconnect power before performing maintenance or cleaning.
- Keep out of reach of children and pets.
- Verify the power supply voltage switch is set correctly for your region (115V or 230V) before plugging in the device. This switch is typically located near the power input.

3. SETUP AND ASSEMBLY

3.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect for any visible damage during transit. Refer to the packing list to ensure all parts are present.



Image: A visual representation of the SUNLU T3 3D Printer's packing list, including the main unit, accessories, and tools.

3.2 Assembly Steps

The SUNLU T3 3D Printer is designed for easy assembly, typically completed in three main steps:

1. Attach the gantry to the base.
2. Mount the power supply unit/control box.
3. Install the filament spool holder.

Ensure all connections are secure and cables are properly routed.

12 in1



250mm/s
High Speed Printing



Clog Detection
Resume Printing
After Clog



Silent
Motherboard



Auto Leveling



Filament Break
Detection



Power Failure
Resume



All-metal Double
Gear Extruder



Belt Adjuster



Magnetic Platform



Easy Assembly



All-metal
Stable Body



Print Size
220*220*250



Image: An exploded view illustrating the simple three-step assembly of the printer.

3.3 Initial Leveling

The T3 printer features 16-point automatic leveling. This function assists in achieving an even print surface. It is recommended to perform auto-leveling before your first print and periodically thereafter.

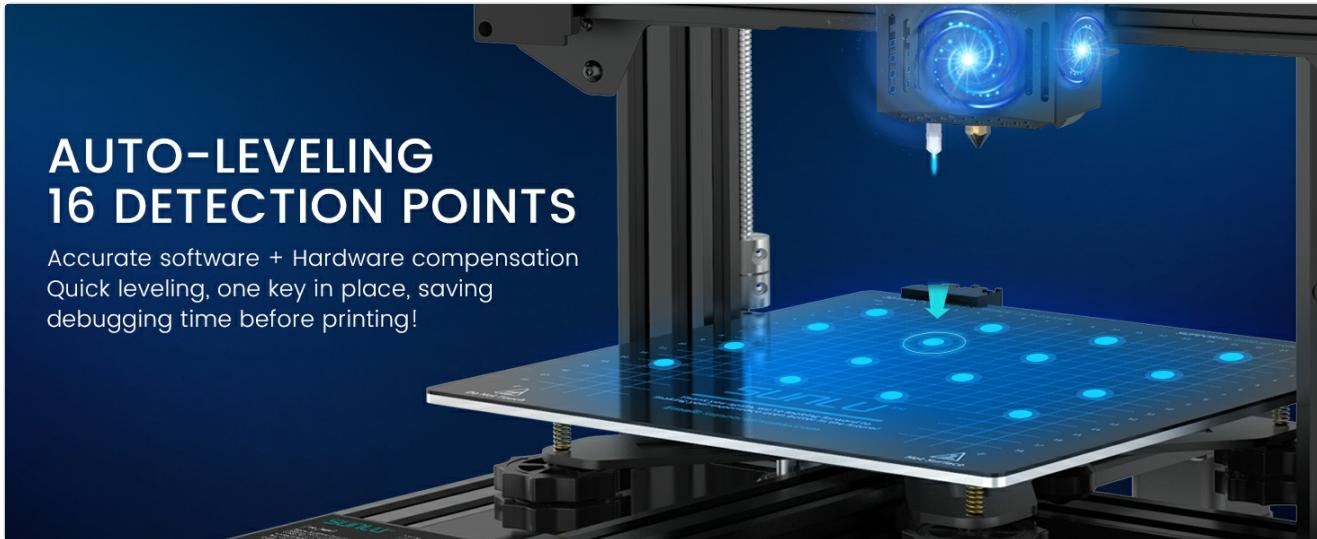


Image: The 16-point auto-leveling system in action, ensuring a precise print surface.

4. OPERATING INSTRUCTIONS

4.1 Filament Loading

Insert the filament into the extruder mechanism. The T3 features a double gear metal extruder for stable filament output. Ensure the filament feeds smoothly without kinks.



Image: The metal double gear extruder, designed for consistent filament feeding.

4.2 Printing Process

Load your 3D model file onto the printer via the provided TF card. Select the desired file from the printer's interface. The T3 supports high-speed printing up to 250mm/s, significantly reducing print times.



Image: A visual comparison demonstrating the speed advantage of 250mm/s printing.

4.3 Smart Features

- Filament Clog Detection:** The printer will suspend operation and return to the origin if a clog is detected. Users can then clear the clog and resume printing.

CLOG DETECTION RESUME PRINTING AFTER CLOGGED

Pause printing and return to standby when a clogged nozzle is detected.

After unclogging the nozzle, continue the printing process to complete the model printing.

Avoid failures caused by nozzle clogged.

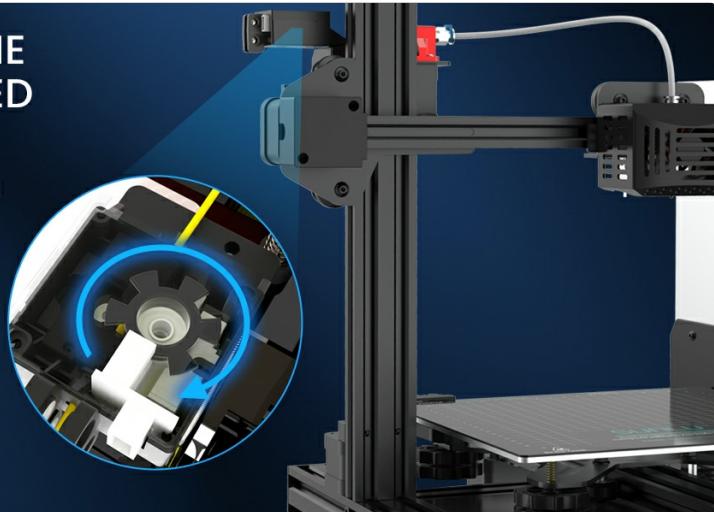


Image: Flowchart demonstrating how the printer detects and handles filament clogs.

- Filament Break Detection:** The T3 detects abnormal filament feeding, such as run-out or breakage, and pauses printing to prevent print failure.
- Power Off Resume Printing:** In case of a power outage, the printer's memory function allows it to resume printing from where it left off once power is restored.

RESUME PRINTING AFTER POWER FAILURE OR FILAMENT OUTAGE

- Built-in power failure detection module and memory module, real-time tracking of printing process.
- In the event of unexpected situations such as sudden power failure or material outage, record the printing status of the model in time and continue the printing process.

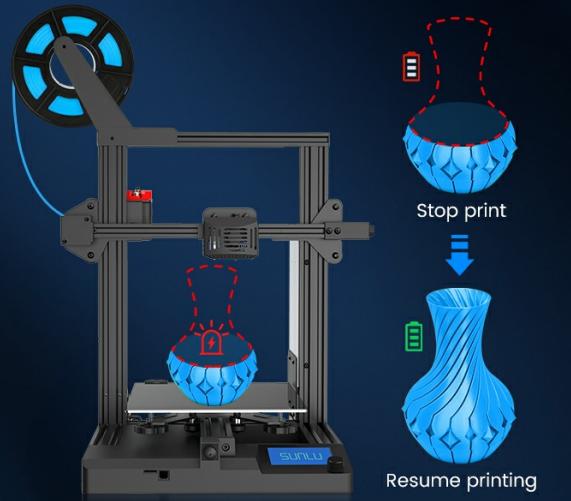


Image: Visual explanation of the power-off resume and filament outage detection features.

- Magnetic Build Plate:** The flexible magnetic build surface allows for easy removal of finished 3D models without deformation. It also features ultra-fast heating.

MAGNETIC BUILD PLATE

- The magnetic platform with excellent thermal conductivity heats up faster
- Quick heating into the printing process
- Material adhesion is multiplied to avoid non-sticking the baseplate
- The model is easy to stick and easy to take without deformation

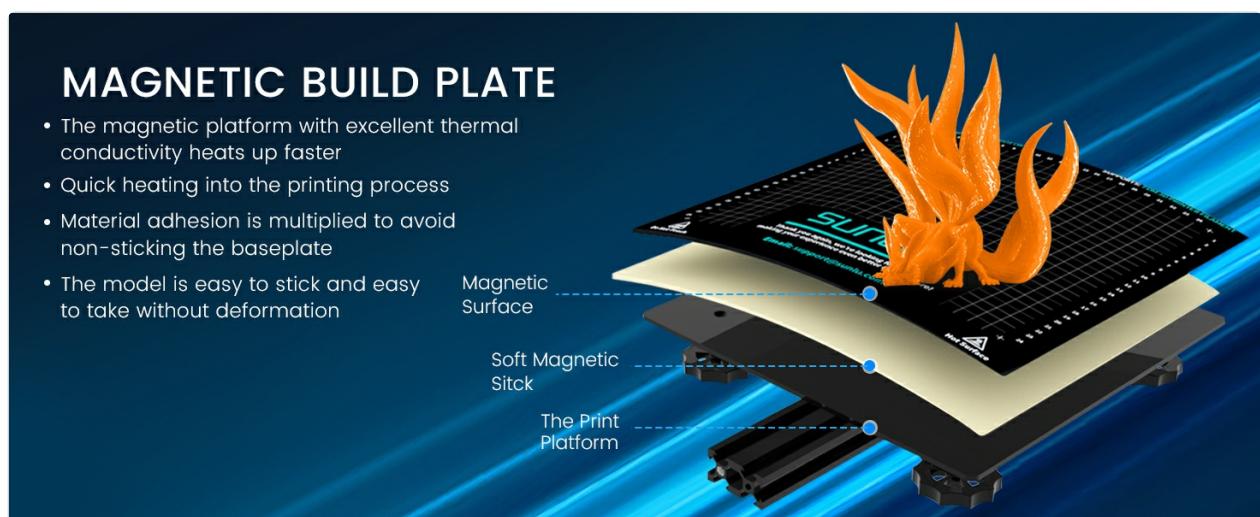


Image: Layers of the magnetic build plate, highlighting its flexibility and adhesion properties.

5. MAINTENANCE

5.1 Belt Tension Adjustment

Over time, belts may loosen, affecting print accuracy and potentially causing noise. The T3 features X-axis and Y-axis belt adjusters to maintain proper tension and printing accuracy.



Image: Instructions for adjusting the X-axis and Y-axis belts to ensure optimal tension.

5.2 General Cleaning

Regularly clean the print bed, nozzle, and other accessible parts to prevent debris buildup. Use appropriate tools and cleaning solutions as recommended by the manufacturer.

5.3 Hot End Maintenance

Periodically inspect the hot end assembly. Ensure all components are securely fastened and free from filament residue. If necessary, carefully disassemble and reassemble the hot end, ensuring proper seating of all parts.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power upon startup	Incorrect voltage switch setting, loose power connections, internal wiring issue.	Verify the power supply voltage switch (115V/230V) is correctly set. Check all power cable connections. If issues persist, contact support.
Filament not extruding / Clogging	Nozzle clog, tangled filament, incorrect temperature.	Utilize the printer's clog detection feature to pause and clear the nozzle. Ensure filament is untangled and loaded correctly. Verify print temperature settings.
Prints not adhering to bed	Uneven bed, dirty print surface, incorrect bed temperature, first layer height issues.	Perform auto-leveling. Clean the magnetic build plate. Adjust bed temperature according to filament type. Calibrate first layer height.
Visible ringing or ghosting on prints	Loose belts, excessive print speed/acceleration, unstable printer placement.	Adjust belt tension using the X-axis and Y-axis adjusters. Reduce print speed and acceleration settings in your slicer. Ensure the printer is on a stable surface.

Problem	Possible Cause	Solution
Filament run-out or breakage during print	Empty spool, brittle filament, excessive tension.	The printer will pause automatically. Replace the filament and resume printing. Store filament properly to prevent brittleness.

7. SPECIFICATIONS

Feature	Detail
Model	SUNLU T3 (Terminator 3)
Printing Technology	FDM (Fused Deposition Modeling)
Print Size	220 x 220 x 250 mm (8.66 x 8.66 x 9.84 inches)
Maximum Printing Speed	250 mm/s
Product Dimensions	17.32 x 15.75 x 18.5 inches
Item Weight	15.98 pounds (approx. 7.25 kg)
Material	Aluminum (frame)
Color	T3 Black
Motherboard	32-bit silent motherboard
Noise Level	Lower than 45dB (Full Silent Printing)
Leveling	16-point 3D Touch Auto Leveling
Extruder	Double Gear Metal Extruder
Build Surface	Removable Magnetic Platform
On-mode Power Consumption	360 watts

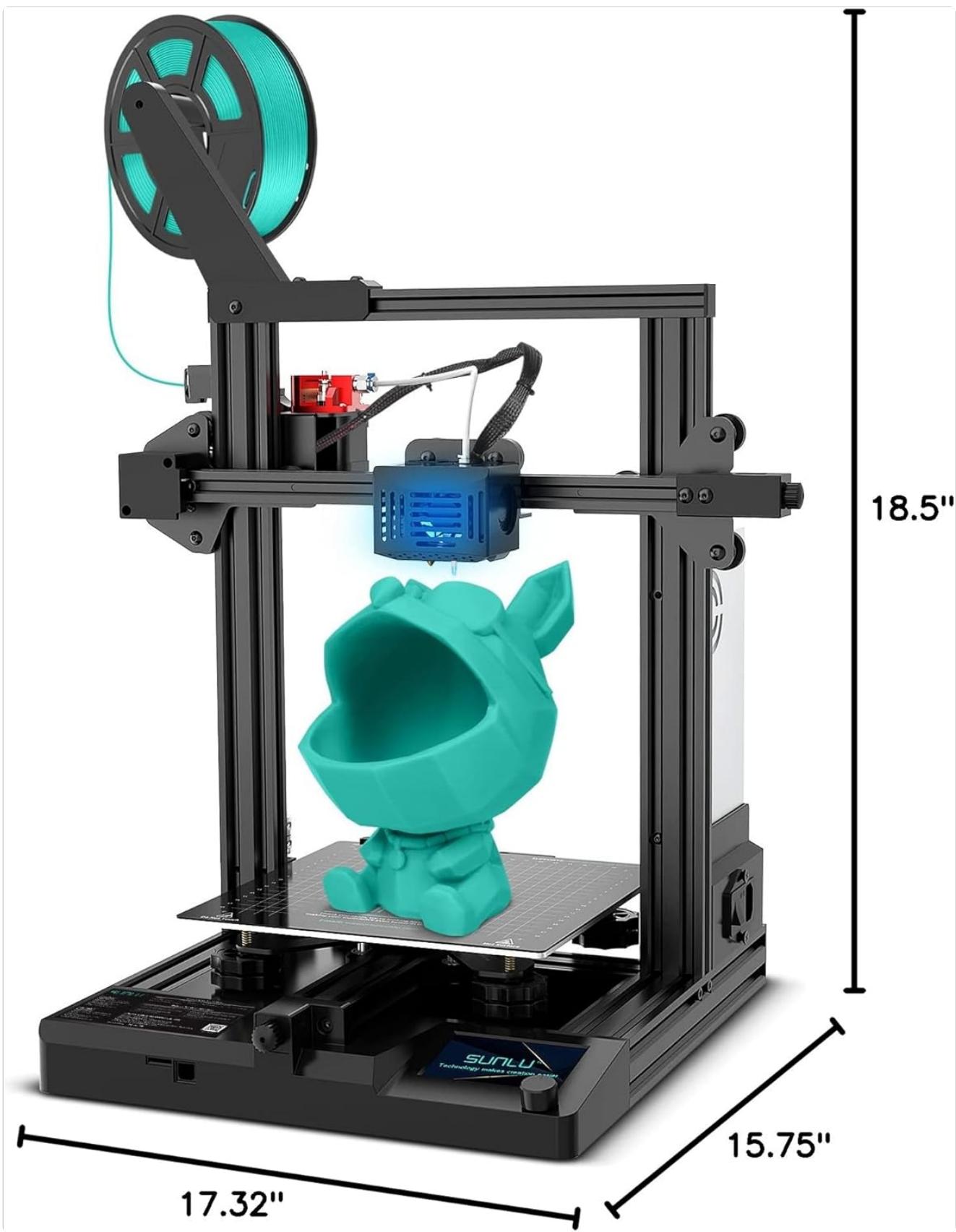


Image: The physical dimensions of the SUNLU T3 3D Printer.

8. WARRANTY INFORMATION

Specific warranty details are not provided in the available product information. Please refer to the official SUNLU website or contact SUNLU customer service for comprehensive warranty terms and conditions.

9. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries, please visit the official SUNLU store or contact their customer service department.

[Visit the SUNLU Store on Amazon](#)

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Related Documents - SUNLU T3 3D Printer (Terminator 3)

	<p>SUNLU T3 3D Printer User Guide - Setup, Operation, and Troubleshooting</p> <p>Comprehensive user guide for the SUNLU T3 3D printer, covering setup, installation, interface functions, leveling, filament loading, slicing software (Cura), printing, troubleshooting (FAQ), and after-sales service.</p>
	<p>SUNLU S8 Pro 3D Printer User Guide</p> <p>Comprehensive user guide for the SUNLU S8 Pro 3D printer. Learn about setup, operation, printing techniques, troubleshooting, and product specifications for this FDM 3D printer.</p>
	<p>SUNLU TPU Filament Safety Data Sheet (SDS) - Product Information and Handling</p> <p>Comprehensive Safety Data Sheet (SDS) for SUNLU TPU Filament (Model 16483 and GB/T 17951), detailing identification, hazards, composition, first aid, firefighting, handling, storage, exposure controls, physical properties, stability, toxicology, ecological information, disposal, transport, and regulatory information.</p>
	<p>SUNLU FilaDryer S4 User Guide - 3D Printing Filament Dryer</p> <p>Comprehensive user guide for the SUNLU FilaDryer S4, a 3D printing filament dryer. Learn about setup, operation, troubleshooting, and recommended drying temperatures for various filament types.</p>
	<p>SUNLU FilaDryer S2: User Manual and Guide for Filament Drying</p> <p>Comprehensive user manual for the SUNLU FilaDryer S2, detailing setup, operation, personalized settings, troubleshooting, and tips for optimal 3D printing filament drying. Learn how to dry PLA, PETG, ABS, and more.</p>



[ABS-GF Filament Safety Data Sheet \(SDS\) - SUNLU](#)

Safety Data Sheet (SDS) for SUNLU ABS-GF Filament, providing comprehensive information on product identification, hazards, composition, first aid measures, firefighting, accidental release, handling, storage, physical and chemical properties, stability, toxicology, ecological information, disposal, transport, and regulatory information.