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› BIQU H2 Direct Extruder Upgrade Kit for Hurakan 3D Printer User Manual

## BIQU BIQU H2 Direct Extruder Upgrade Kit

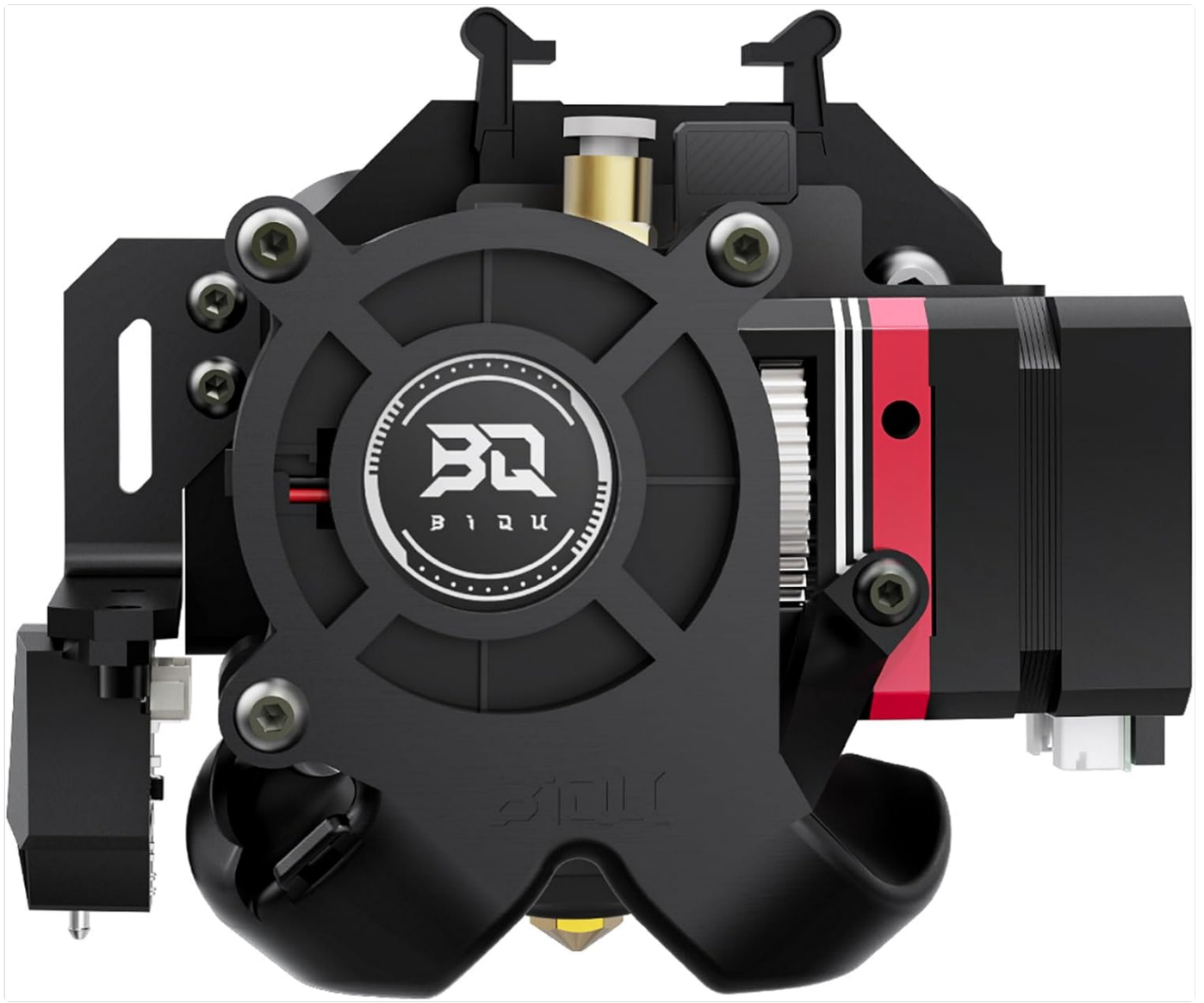
# BIQU H2 Direct Extruder Upgrade Kit for Hurakan 3D Printer User Manual

Model: BIQU H2 Direct Extruder Upgrade Kit

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the BIQU H2 Direct Extruder Upgrade Kit for the Hurakan 3D Printer. This kit enhances your 3D printing capabilities with a direct drive extruder system, automatic bed leveling, and efficient cooling.

### Product Overview



*Image 1.1: The BIQU H2 Direct Extruder Upgrade Kit, fully assembled, showcasing its compact design and integrated components.*

## **What's in the Box**

# What's in the Box?



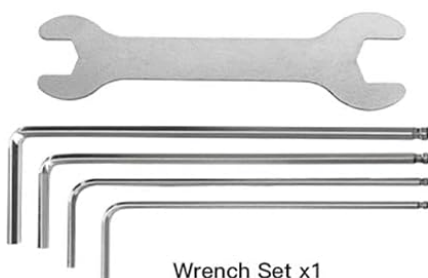
H2 Direct Extruder Upgrade Kit x1



Package Box x1



User Manual x1



Wrench Set x1



Zip Ties x3



I.D.2xO.D.4x20mm  
PTFE Tube x1



BTT Duck x1

\*All images are illustrative, for reference only. Please refer to the actual product because product updates may make the actual product slightly different from the illustrations.

*Image 1.2: A visual representation of all items included in the BIQU H2 Direct Extruder Upgrade Kit package.*

- H2 Direct Extruder Upgrade Kit x1
- Package Box x1
- User Manual x1 (This document)
- BTT Duck x1
- Zip Ties x3
- Wrench Set x1
- I.D.2xO.D.4x20mm PTFE Tube x1

## 2. SETUP AND INSTALLATION

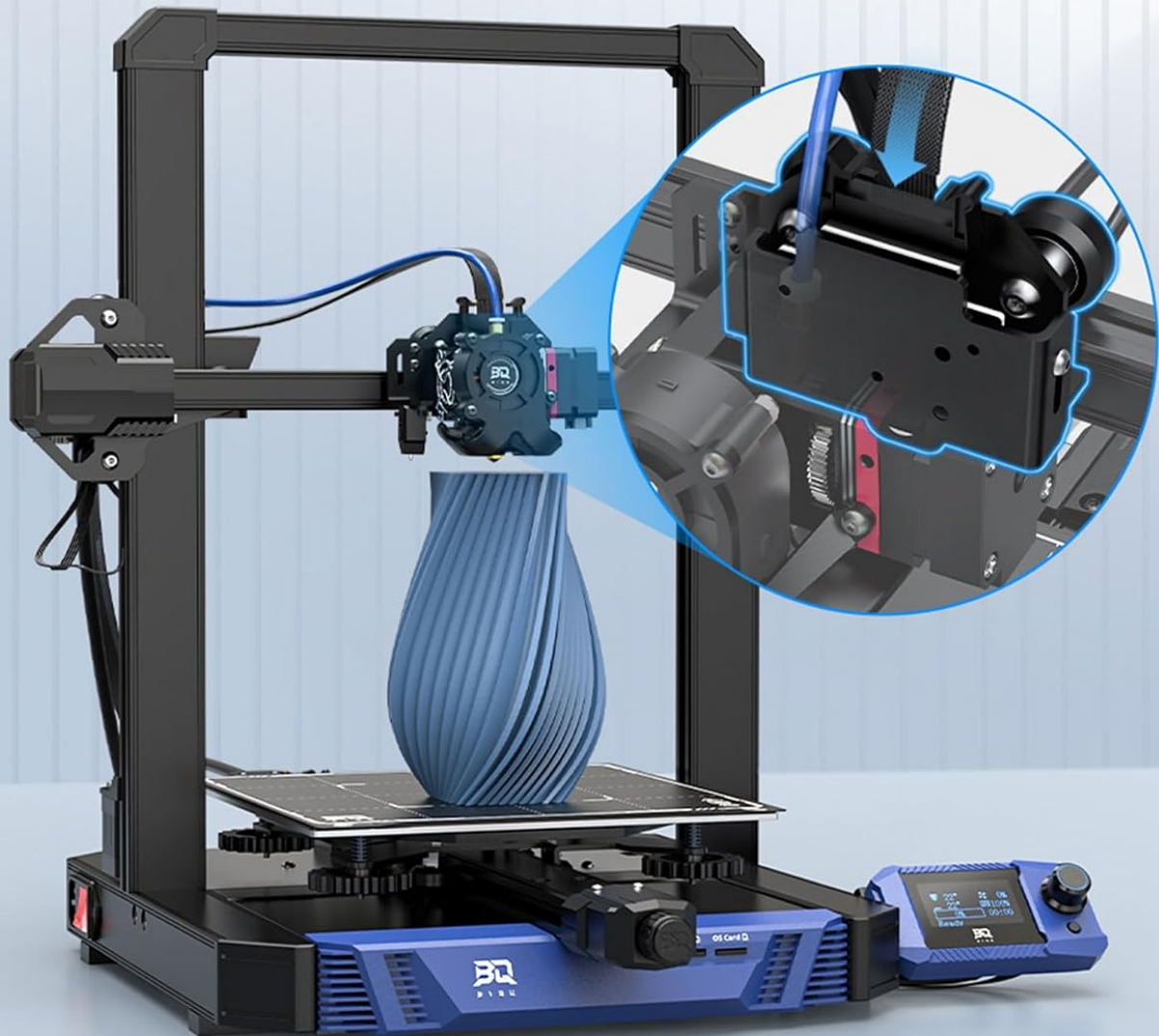
The BIQU H2 Direct Extruder Upgrade Kit is designed for straightforward installation on the Hurakan 3D Printer. Ensure your printer is powered off and disconnected from the mains before beginning installation.

## Installation Steps

1. **Prepare the Printer:** Power off your Hurakan 3D printer and disconnect it from the power source. Carefully remove the existing extruder assembly.
2. **Mount the Kit:** Fix the H2 Direct Extruder Upgrade Kit directly onto the Hurakan's compatible X carriage. Ensure all mounting screws are securely fastened.
3. **Connect Wiring:** Connect the necessary cables from the new extruder assembly to the Hurakan's mainboard. This step may require some experience with 3D printer wiring. Refer to the Hurakan's mainboard documentation for specific pinouts if needed.
4. **Initial Checks:** After installation, perform a visual inspection to ensure all components are correctly seated and cables are not pinched.

# Hurakan, Hassle-Free Installation

Fix the kit directly onto Hurakan with the compatible X carriage, connect the cable, and you're ready to start 3D printing.



*Image 2.1: Diagram illustrating the direct mounting of the H2 Extruder Upgrade Kit onto the Hurakan 3D printer's X carriage.*

## 3. KEY FEATURES AND COMPONENTS

The BIQU H2 Direct Extruder Upgrade Kit integrates several advanced components to optimize your 3D printing experience.

### BIQU H2 V2S Direct Drive Extruder

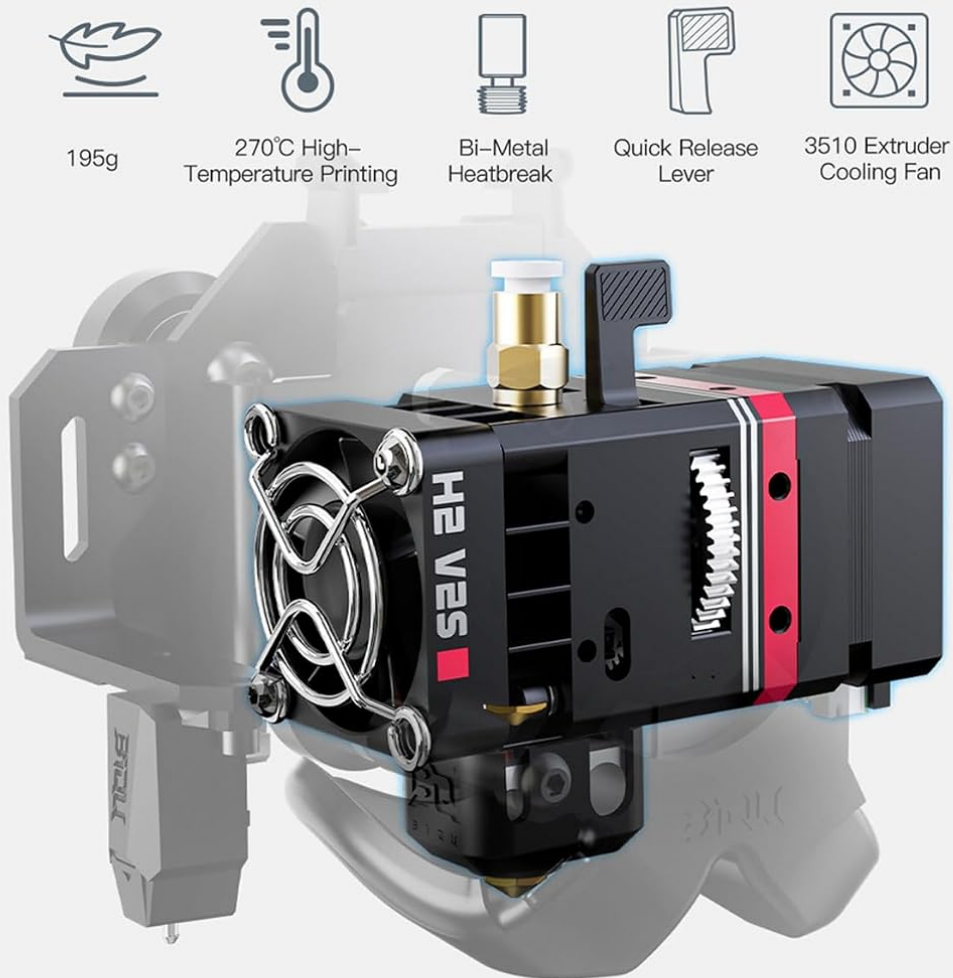
This extruder features a dual-gear system with a 7:1 ratio, providing a strong 770N extrusion force. An adjustable tensioner allows for precise control over filament grip, making it highly versatile for various filament types, including flexible

materials like TPU.

## H2 V2S Direct Drive Extruder

### Master Various Filament Printing

Boasts a dual-gear 7:1 ratio for 770N extrusion force and an adjustable tensioner, this kit shines in its ability to print various filaments, with a particular mastery over flexible ones like TPU.



\*Note: This kit is compatible with all H2 series extruders: H2 V2.0, H2O, H2 500°, H2 SMART, H2 V2S, H2 V2S Lite, and H2 V2S Rev.

*Image 3.1: The BIQU H2 V2S Direct Drive Extruder, highlighting its key features such as lightweight design, high-temperature printing capability, bi-metal heatbreak, quick release lever, and cooling fan.*

### BIQU MicroProbe V2

The MicroProbe V2 simplifies bed leveling by enabling automatic bed leveling. This feature contributes to a smoother and more streamlined printing process, ensuring consistent first layers.

# MicroProbe

## Leveling Made Effortless

Simplifies the process by enabling automatic bed leveling, giving you a smoother, streamlined printing.

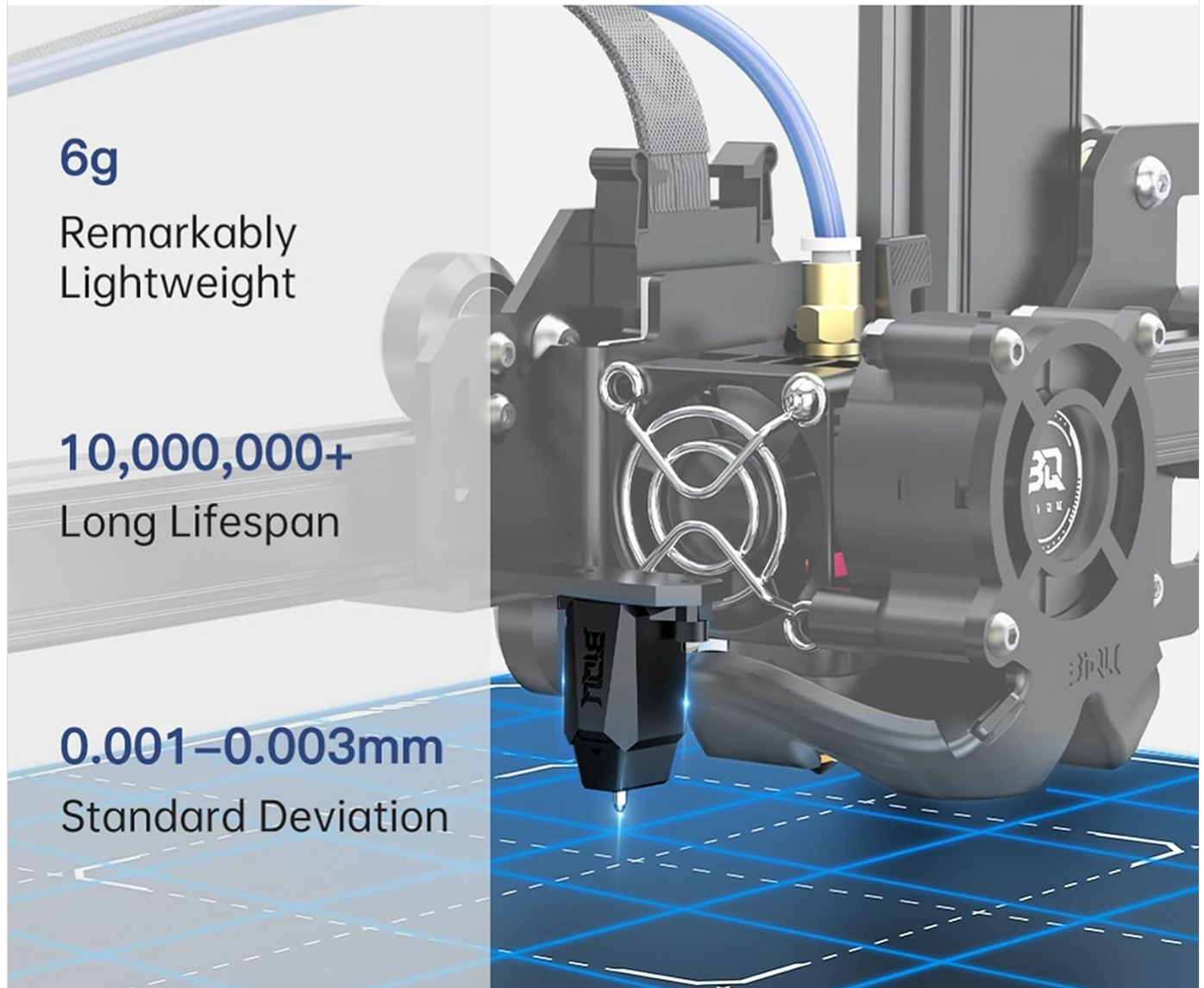


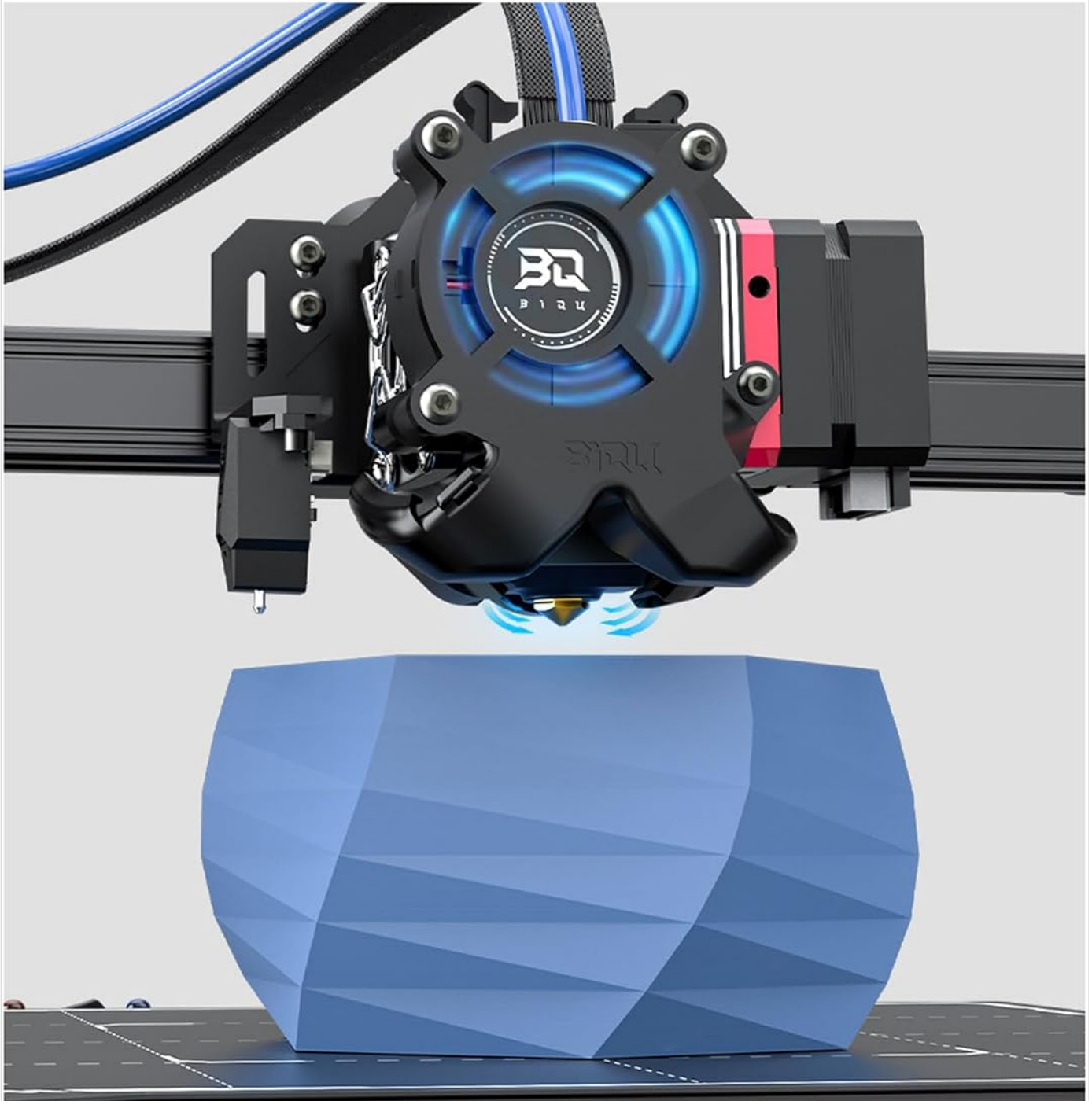
Image 3.2: The BIQU MicroProbe V2, illustrating its lightweight design, long lifespan, and high precision for bed leveling.

### BIQU 4020 Blower Fan

The integrated 4020 blower fan and duct provide rapid cooling at 8000 RPM. This efficient cooling solidifies the extruded filament quickly, leading to improved print quality and precision.

# Cooling Perfection Precision in Every Print!

Coupled with the 4020 blower fan & duct, offering 8000rpm rapid cooling, which solidifies the filament once it has been extruded from the nozzle, you'll achieve perfect prints every time.



*Image 3.3: The 4020 blower fan in operation, demonstrating its role in cooling the printed object for enhanced precision.*

## Component Overview

# Dimensions

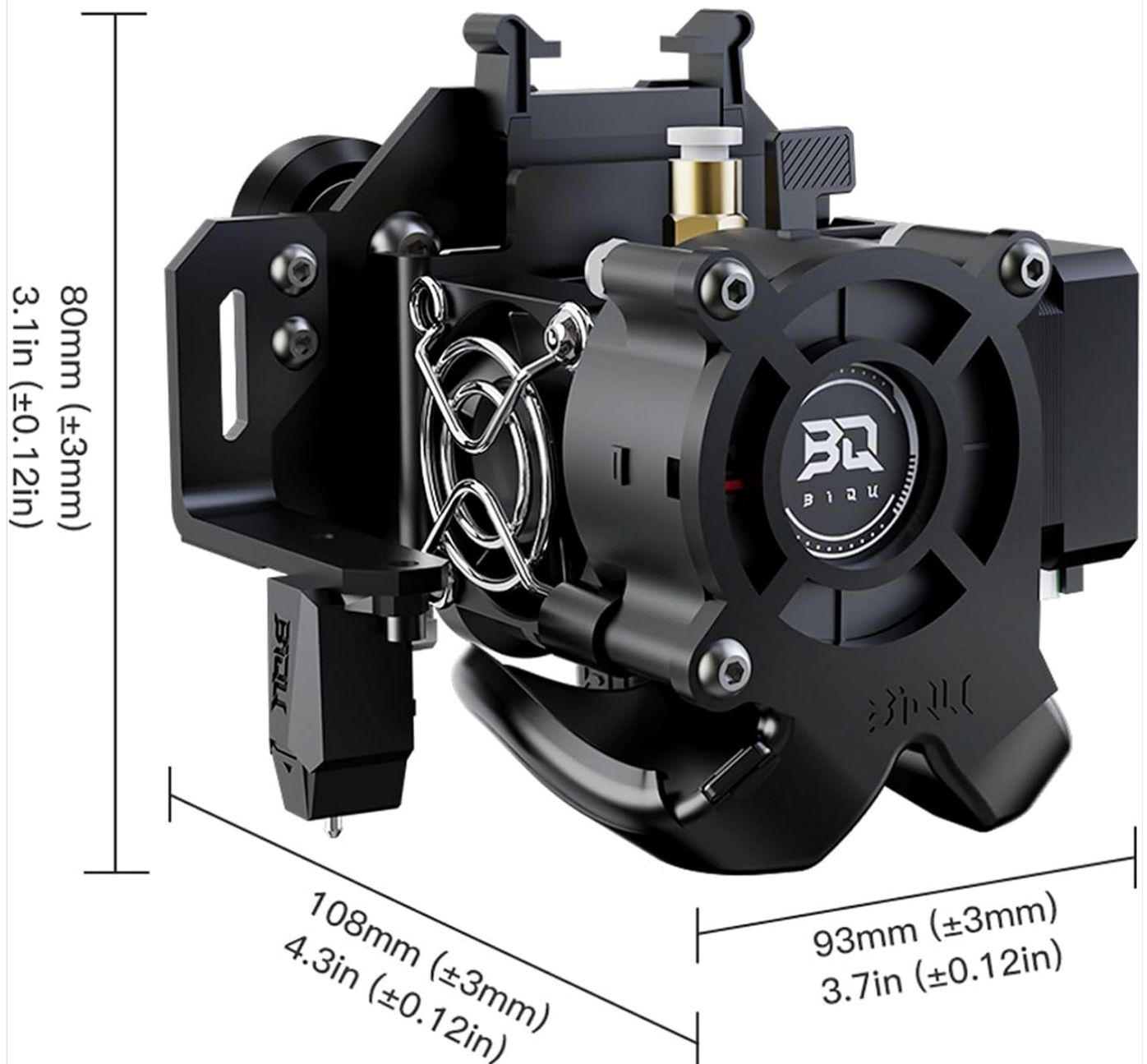


Image 3.4: A composite image showing the individual key components: H2 V2S Extruder, MicroProbe, Hurakan Compatible X Carriage, and 4020 Part Cooling Fan.

## 4. OPERATION

Operating the BIQU H2 Direct Extruder Upgrade Kit involves standard 3D printing procedures, with enhanced capabilities due to the direct drive system and automatic leveling.

### Filament Loading

Due to the direct drive design and quick release lever, loading and unloading filament is simplified. Insert the filament into the extruder's input port and guide it until it engages with the dual gears. The adjustable tensioner allows for optimal grip on various filament diameters.

## Automatic Bed Leveling

Utilize the BIQU MicroProbe V2 for automatic bed leveling. Initiate the bed leveling sequence through your printer's control interface. The MicroProbe will accurately map the print surface, compensating for any irregularities and ensuring a perfect first layer.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BIQU H2 Direct Extruder Upgrade Kit.

- **Nozzle Cleaning:** Periodically clean the nozzle to prevent clogs and ensure consistent extrusion.
- **Extruder Gears:** Inspect the dual-drive gears for any filament debris and clean them as needed.
- **Cooling Fan:** Ensure the 4020 blower fan is free from dust and obstructions to maintain efficient cooling.
- **PTFE Tube:** Check the PTFE tube for wear or damage and replace if necessary.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with the BIQU H2 Direct Extruder Upgrade Kit.

- **Extrusion Issues (Under/Over-extrusion):**  
Check filament tension using the adjustable tensioner. Ensure the nozzle is not clogged. Verify print settings (flow rate, extrusion multiplier) in your slicer software.
- **MicroProbe Not Deploying/Incorrect Readings:**  
Ensure all wiring connections to the MicroProbe are secure. If the probe is mounted too high, preventing proper deployment or causing the nozzle to hit the bed first, adjust its mounting position. Some users have found it necessary to slightly modify mounting holes for optimal adjustment.
- **Cooling Fan Noise/Malfunction:**  
Inspect the 4020 blower fan for any obstructions or damage. If the fan exhibits unusual noise or fails to operate, it may require replacement.
- **Temperature Reading Errors (e.g., Thermistor Issues):**  
Verify the thermistor wiring connections. A faulty thermistor can lead to incorrect temperature readings, potentially preventing heating or causing thermal runaway errors. If issues persist, the thermistor may need replacement.
- **General Wiring Concerns:**  
Incorrect or loose wiring to the mainboard can cause various issues. Double-check all connections against your Hurakan's wiring diagram. If you are unsure, consult with experienced users or technical support.

## 7. SPECIFICATIONS

| Feature              | Detail                                      |
|----------------------|---------------------------------------------|
| Extruder Type        | BIQU H2 V2S Direct Drive Dual-Gear Extruder |
| Extrusion Force      | 770N (with 7:1 gear ratio)                  |
| Auto-Leveling Sensor | BIQU MicroProbe V2                          |
| Cooling Fan          | BIQU 4020 Blower Fan (8000 RPM)             |

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Compatibility      | Hurakan 3D Printer (with compatible X carriage) |
| Item Weight        | 14.1 ounces (approximately 400 grams)           |
| Package Dimensions | 3.93 x 3.93 x 2.75 inches                       |



### H2 V2S

Master all materials,  
excel in flexibles.



### MicroProbe

Make auto bed leveling  
a breeze.



### Hurakan Compatible X Carriage

Direct mount your H2 series  
extruder onto the Hurakan.



### 4020 Part Cooling Fan

Ensure superior print precision  
and detail.

Image 7.1: Detailed dimensions of the BIQU H2 Direct Extruder Upgrade Kit.

## 8. WARRANTY AND SUPPORT

BIQU provides technical support for the H2 Direct Extruder Upgrade Kit. If you encounter any problems during the use of the product, please contact the manufacturer or seller for assistance. Installation instructions and firmware configuration guidance are typically provided with each kit or available through official support channels.

For specific warranty details, please refer to the documentation included with your purchase or contact BIQU customer service directly.

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This manual is for informational purposes only. Specifications are subject to change without notice.

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**