

Quick Start Guide

≡ 快速入门指南 ≡

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法律申明**

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Thank you for choosing Flashforge!

To get the most out of your device, we highly recommend reading this Guide carefully. The instructions and precautions provided will help ensure proper installation and smooth operation. You can also find operating guidance and practical tips through the following resources:



Scan the QR code to view a detailed unboxing guide and get started quickly.



Quick Start Tutorials: Visit the Flashforge Wiki (wiki.flashforge.com) for more tutorials on device operation and maintenance.

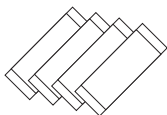
Safety Precautions

1. The heat resistance temperature of the spool should be higher than the set drying temperature to prevent the spool from deforming.
2. Make sure to only use the original power cord provided by Flashforge. Do not replace it with a third-party power cord.
3. Connect the device only to a power supply that matches the voltage specified on the product label.
4. If the device malfunctions, turn off the power, unplug the power cord, and contact Flashforge Customer Support.
5. Children and untrained personnel should not operate the device alone.
6. Do not expose the device to moisture or direct sunlight, as this may increase the risk of electric shock or accelerate the aging of plastic components.
7. If the device will not be used for an extended period, turn it off and unplug the power cord.

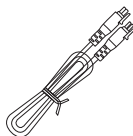
Packing List



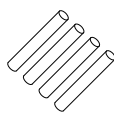
Power Cord



Desiccant *4

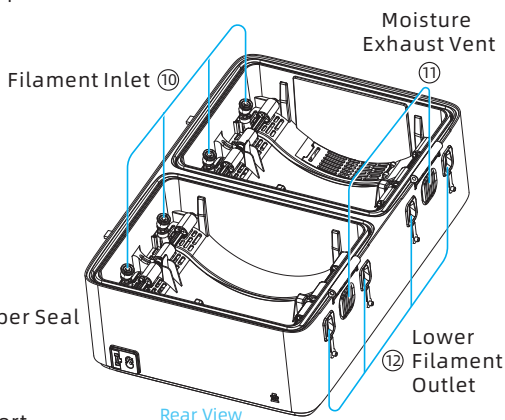
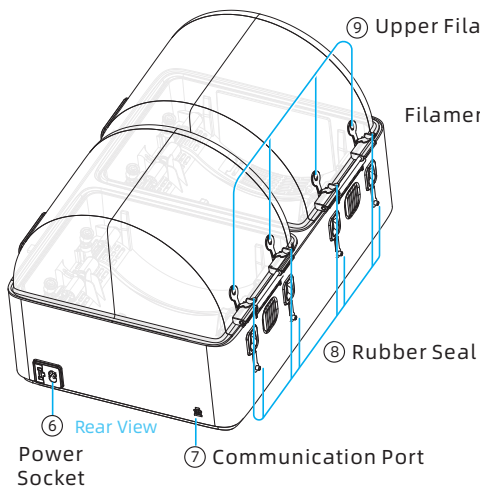
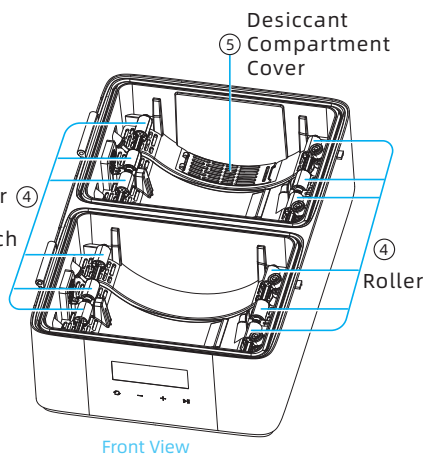
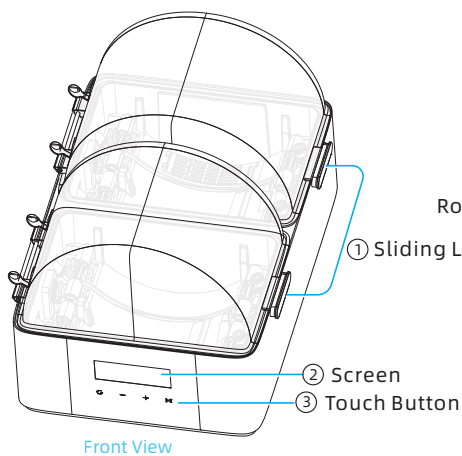


4-Pin Data Cable



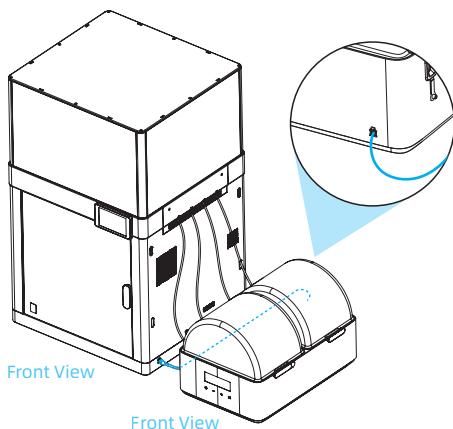
PTFE Tube *4

Component Overview

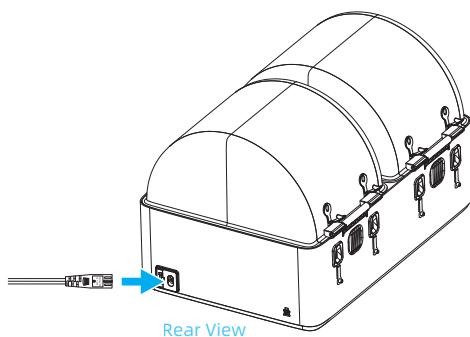


Connect VDS to Your Printer (Flashforge Creator 5 Series)

1. **Device Placement:** Place the VDS on the right side of the printer, with its filament outlets facing the printer.
2. **Cable Connection:** Connect the provided 4-pin data cable to the communication ports on both the VDS and the printer.



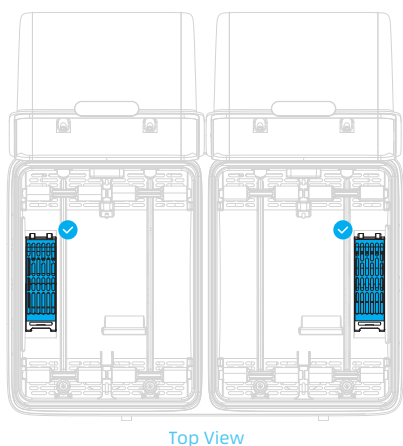
3. **Power Connection:** Plug the power cord into the VDS, then connect it to a power source.



4. **Desiccant Installation:** Remove the desiccant packs from their packaging and place them into the desiccant compartments on both sides inside the device (as shown).

Note

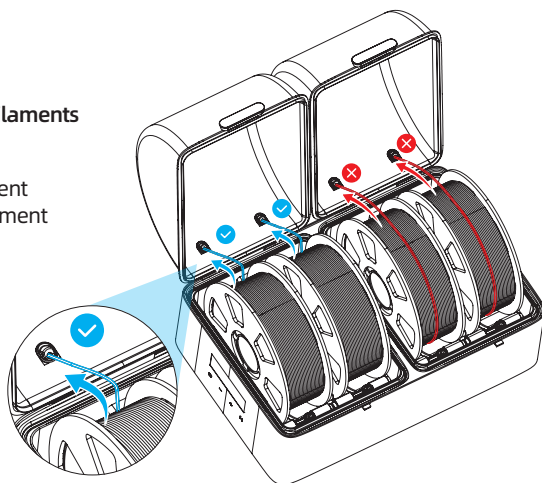
Do not tear open the desiccant packs or pour the desiccant beads directly into the compartments.



5. Loading Filament into the VDS.

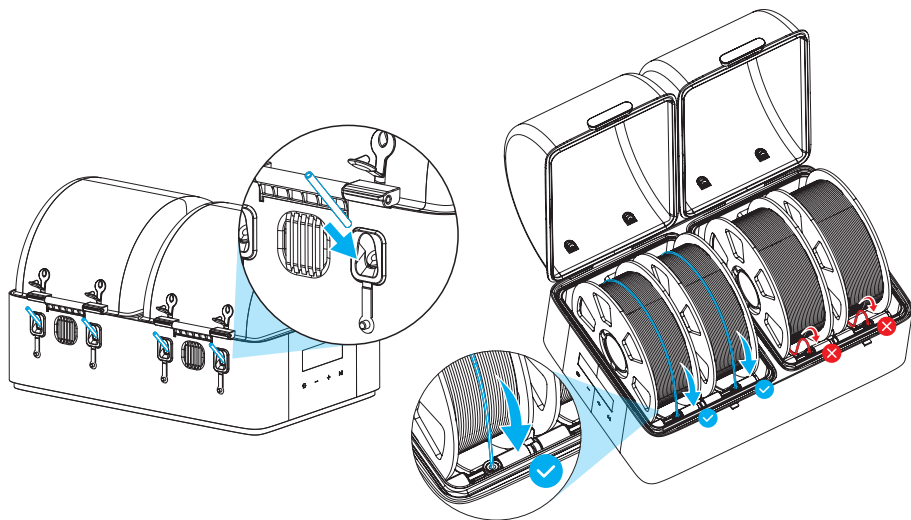
Method 1: For TPU and Carbon Fiber Filaments

Insert the filament into the upper filament outlet, then feed it into the printer's filament inlet.



Method 2: For Other Filaments

First, insert the PTFE tube into the lower filament outlet and secure it. Then push the filament through the internal filament inlet until it passes through the PTFE tube and reaches the printer.



Tips

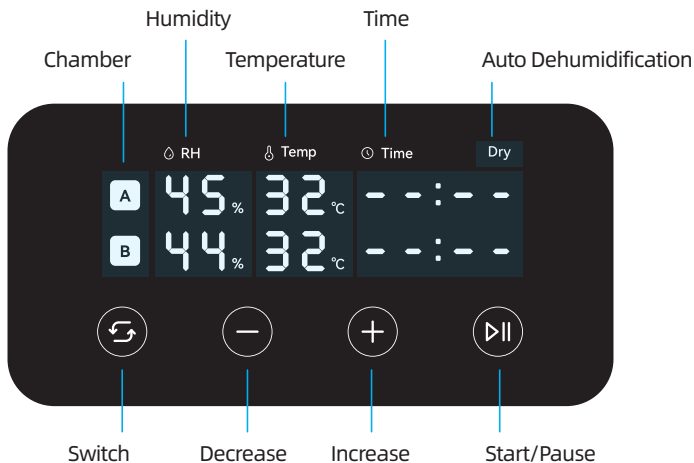
- To establish a fully enclosed connection between the VDS and the printer, you can purchase additional PTFE tubes and cut them to your desired length.
- A fully enclosed connection also requires additional printed accessories. The print files for these accessories can be downloaded from our official Wiki.

Use VDS for Drying

Standalone Mode (Controlled via VDS)

Interface Overview

1. Press [↻] to cycle through the drying temperature and time settings for Chamber A and Chamber B (four parameters in total).
2. Press [+]/[-] to adjust the current drying temperature or time.
 - ① Temperature: Each press increases or decreases the temperature by 5°C (range: 45-85°C).
 - ② Time: Each press increases or decreases the time by 30 minutes (range: 1-48 hours).
3. Press [▶||] to start the drying task for the selected chamber using the current settings.
4. Once drying is complete, the VDS will chime and display "END". After 10 seconds, it will automatically enter standby mode.



⚠ Operating Instructions

Start and Control

Start Drying: Set the desired drying temperature and time for the corresponding chamber.

Press [▶||] to start drying.

Note: To dry both chambers simultaneously, start them one after the other.

Stop Drying: Select the corresponding chamber (staying on the temperature or time display), then press [▶||].

Stop Both Chambers: Long-press [▶||] to stop both Chamber A and Chamber B simultaneously.

Tip: When selected, the value of the corresponding chamber will flash.

Auto Dehumidification

Description: The system automatically monitors humidity inside the chambers and activates dehumidification within a preset range (the humidity range can only be adjusted when connected to a printer).

Enable/Disable: Long-press [↻].

Icon Display: When enabled, the "Dry" icon appears in the upper-right corner of the screen; the icon disappears when disabled.

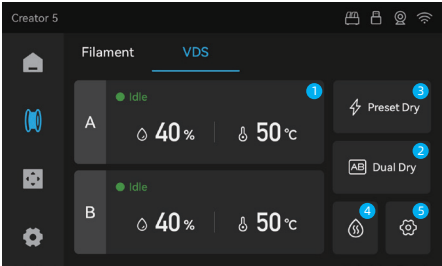
Connected Mode (Controlled via Printer)

Note: Screenshots are for reference only. Actual interface may vary depending on the firmware version.

Once the VDS is connected to a printer, the [] icon will appear on the printer screen. On the Filament interface, a VDS tab is available; tap to access and configure the settings.

Interface Overview

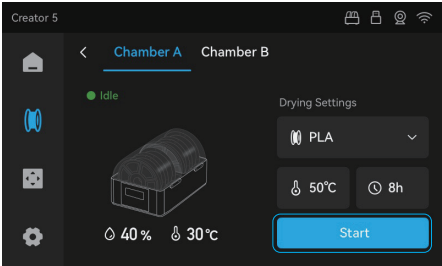
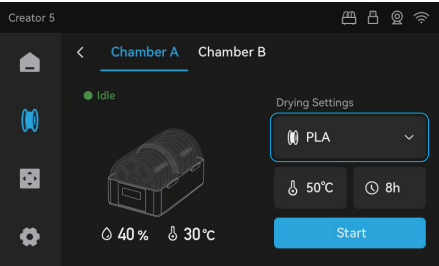
- 1. Single-Chamber Drying:** Tap the Chamber A or Chamber B display area to control each chamber.
- 2. Dual-Chamber Drying:** After setting the drying temperature and time for both Chamber A and Chamber B, you can start drying in both chambers simultaneously.
- 3. Preset Drying:** Preset drying temperatures and times are provided for common filament types such as PLA, PETG, and ABS, allowing you to start drying quickly.
- 4. Auto Dehumidification:** Tap [] to access the auto-dehumidification settings and enable the feature.
- 5. Settings:** Tap [] to access additional settings.



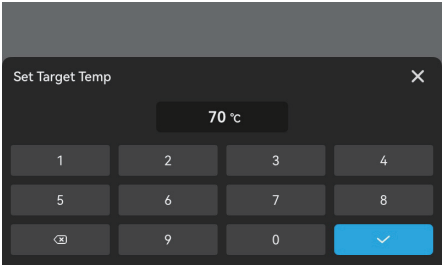
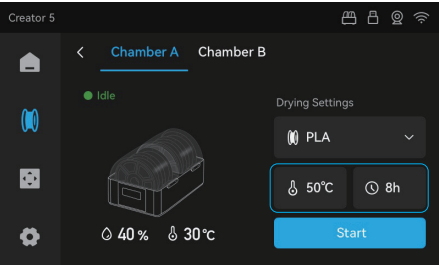
Drying Operations

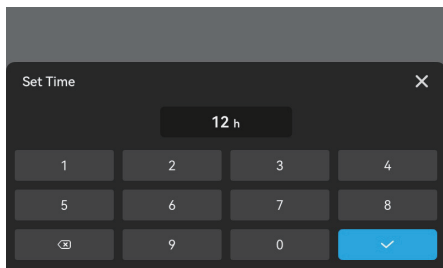
1. Single-Chamber Drying

- a. Enter the interface for Chamber A or Chamber B and select the filament type you wish to dry.
- b. The recommended drying temperature and duration for the selected filament will be displayed automatically. Tap [Start] to begin drying.

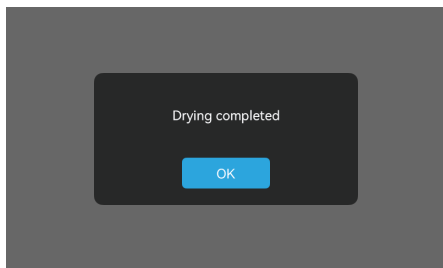
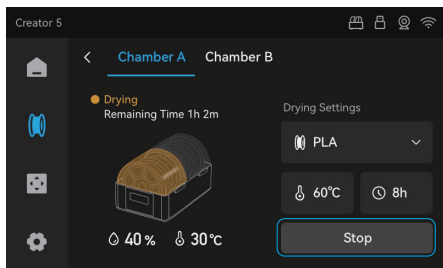


- c. Alternatively, tap the temperature button or time button to customize the values.



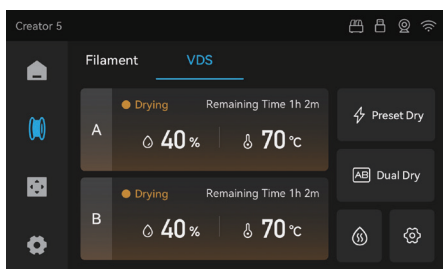
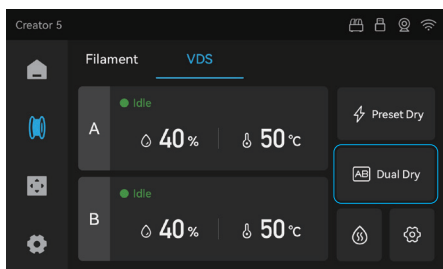


d. Once drying is complete, VDS will chime and a pop-up notification will appear on the printer screen. To stop drying at any time, simply tap [Stop].



2. Dual-Chamber Drying

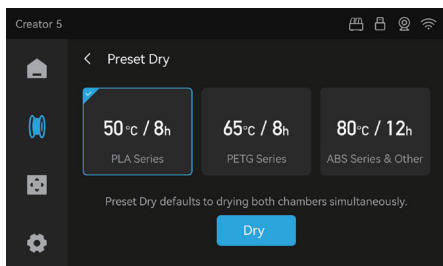
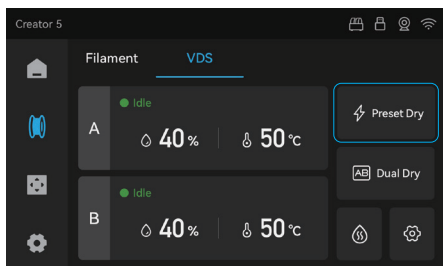
Tap [Dual Dry] to start drying in both chambers simultaneously using previously saved temperature and time for each chamber.



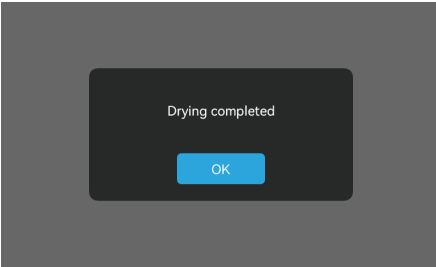
3. Preset Drying

a. Tap [Preset Dry] to access the interface.

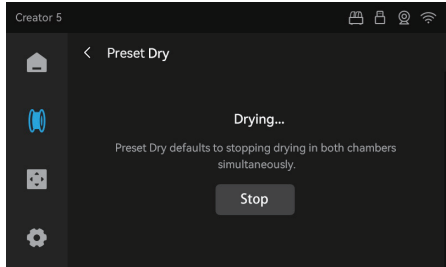
b. Select the desired filament type, then tap [Dry] to start dual-chamber drying.



c. Once drying is complete, VDS will chime and a pop-up notification will appear on the printer screen.

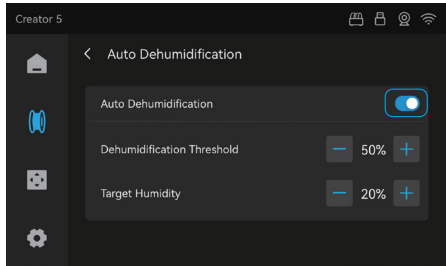
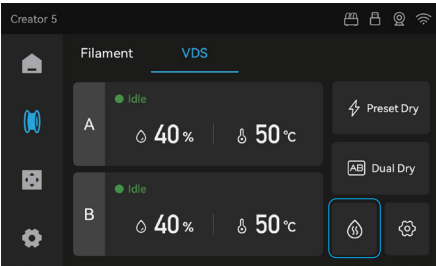


d. To stop drying at any time, simply tap [Stop].

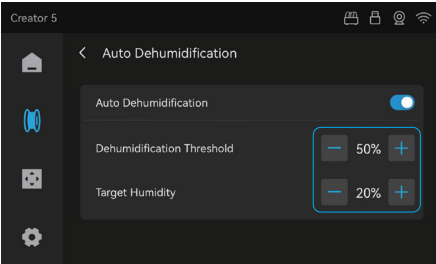


4. Auto Dehumidification

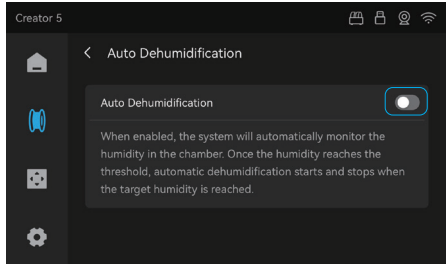
a. Tap [] to access the auto-dehumidification settings, then toggle on Auto Dehumidification.



b. The dehumidification threshold and target humidity values can be customized.



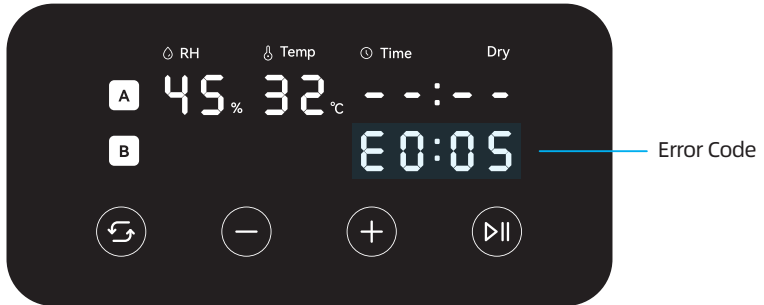
c. To disable auto dehumidification, toggle it off.



 Note

- **Dehumidification Threshold:** The humidity level at which Auto Dehumidification activates. (Default: 50%; Range: 25%-80%)
- **Target Humidity:** The humidity level at which Auto Dehumidification stops. (Default: 30%; Range: 25%-50%)
- Each tap adjusts the value by 5%.

Troubleshooting



Error Code	Error Message
E001	Screen communication error
E002	Chamber A humidity sensor error
E003	Chamber A temperature sensor error
E004	Chamber A heating module error (heating failure)
E005	Chamber A fan error
E006	Chamber B humidity sensor error
E007	Chamber B temperature sensor error
E008	Chamber B heating module error (heating failure)
E009	Chamber B fan error

Technical Specifications

Device Name	Ventilated Drying System (VDS)
Device Dimensions	400 × 281 × 248 mm
Compatible Spool Size	Diameter ≤ 202mm Width ≤ 72mm
Compatible Filament Diameter	1.75 mm / 2.85 mm (2.85 mm for upper filament outlet only)
Temperature Range	45°C-85°C
Continuous Operating Time	1-48 hours
Power Input	100-120V/200-240V AC 50-60Hz
Max Power	500W

Recommended Drying Temperatures

A sticker with recommended drying temperatures and times for various filament types is included.

You may place it wherever convenient on the device; we recommend applying it next to the display screen for quick reference.

各材料推荐干燥温度 Recommended Drying Temperatures

耗材类型 Filament Type	推荐烘干温度 Recommended Drying Temp	推荐烘干时间 Recommended Drying Time
PLA	50-55°C	8h
PLA SILK		
PLA-CF		
PETG	60-70°C	8h
PETG-CF		
PETG Pro		
TPU	70°C	12h
ABS	80°C	12h
ASA		
PC		
HIPS		
ABS-GF		
ABS-CF		
ASA-GF		
ASA-CF	85°C	12h
PA	80-85°C	12h
PA-CF		
PAHT-CF		
PET-CF		
S-Multi		
S-PAHT	85°C	12h
PPA-CF		
PPS-CF	75-80°C	8-12h
PVA		
BVOH		

⚠ Note

1. Do not exceed the recommended drying time when drying TPU filaments, as prolonged drying may deform the spool.
2. Do not place PA (nylon) filaments and other types of filaments in the same chamber. PA is highly susceptible to absorbing moisture released by other filaments, leading to re-absorption.
3. Position the VDS as recommended. Placing it too close to or too far from the printer may increase filament feeding resistance.
4. Low-temperature filaments dried at high temperatures may deform, causing changes in filament diameter that can lead to printing issues.
5. Ensure the filament is installed in the correct direction.
6. When the ambient humidity is high (>70%), Auto Dehumidification can maintain humidity levels inside the chamber between 20% and 40%. If lower humidity is required, active drying is recommended.
7. For best results, "drying while printing" is recommended. The chamber gets very hot during drying; avoid touching hot surfaces to prevent burns.
8. If Chamber A is set to 45°C and Chamber B to 85°C, heat transfer may temporarily raise Chamber A to around 50°C. This is normal, and it will return to 45°C in about 1 hour.



Visit our official website for more product information.
www.flashforge.com - [Support]

感谢您选择FLASHFORGE的产品！

为了让您获得更好的产品体验，建议您仔细阅读此手册。文中的操作说明和注意事项能帮助您避免错误的安装和使用。您还可以从以下方式获取设备相关的操作知识和使用技巧：



扫描二维码查看详细的开箱指南，帮助您快速上手。

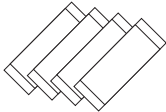
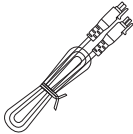
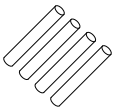


快速入门：访问Flashforge官方Wiki (wiki.flashforge.com)，查阅更多设备使用和维护教程。

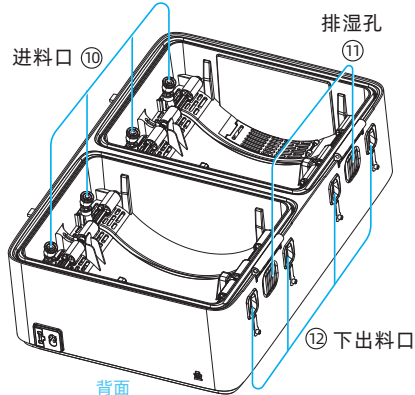
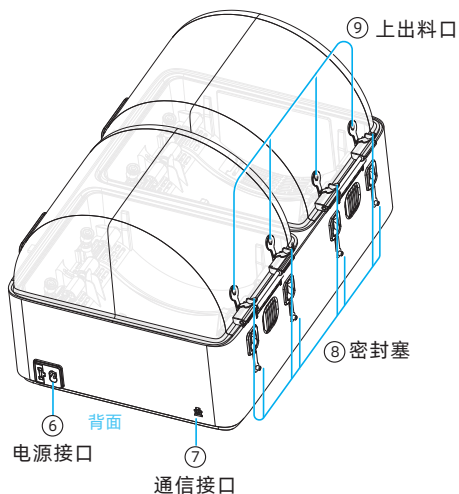
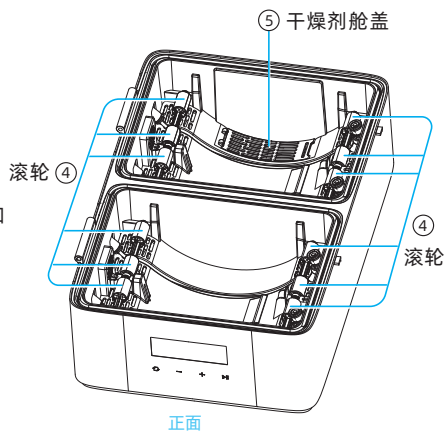
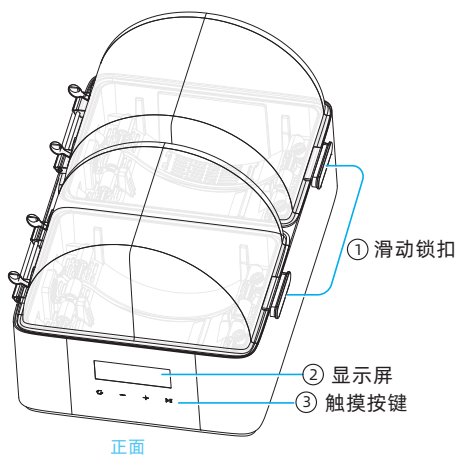
使用须知

1. 注意耗材盘的耐热温度需大于设定的干燥温度，以免变形。
2. 请仅使用闪铸随机附带的原装电源线,请勿擅自更换。
3. 请按照产品铭牌标准的电压供电。
4. 本产品若发生故障，请关闭电源，拔下插头，并与本公司售后人员联系。
5. 儿童及未经培训的人员请勿单独操作设备。
6. 请勿将设备暴露潮湿或烈日下，以免增加漏电风险或加速塑件老化。
7. 如长时间不使用设备，请关闭设备并拔下电源插头。

配件清单

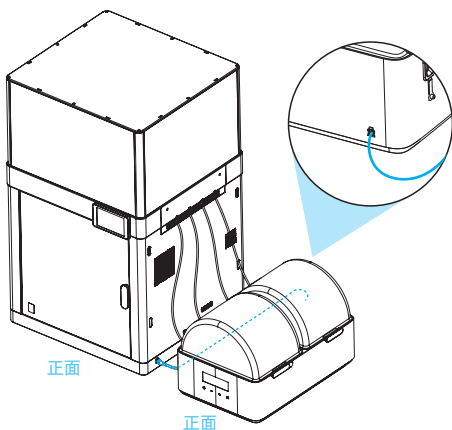
			
电源线	干燥剂*4	4-Pin连接线	PTFE料管*4

部件介绍

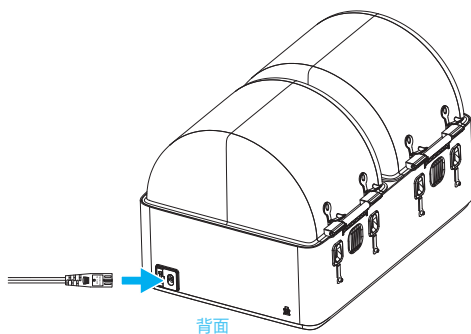


连接VDS至打印机 (FlashForge Creator 5系列)

1. 设备摆放：将VDS放置于打印机右侧，且出料口朝向打印机。
2. 线路连接：使用通信线连接VDS与打印机的通信接口。



3. 设备通电：将电源线接入VDS接口并接通电源。

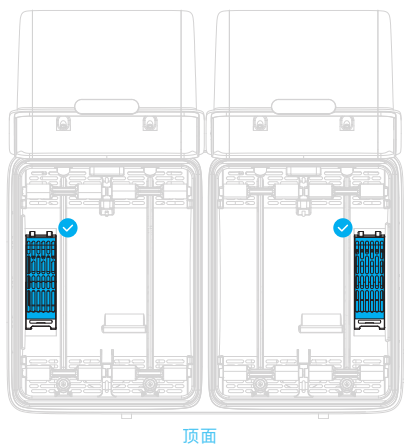


4. 干燥剂放置：撕掉干燥剂包装，放入机器内部两侧的干燥剂舱内（如图）。



注意

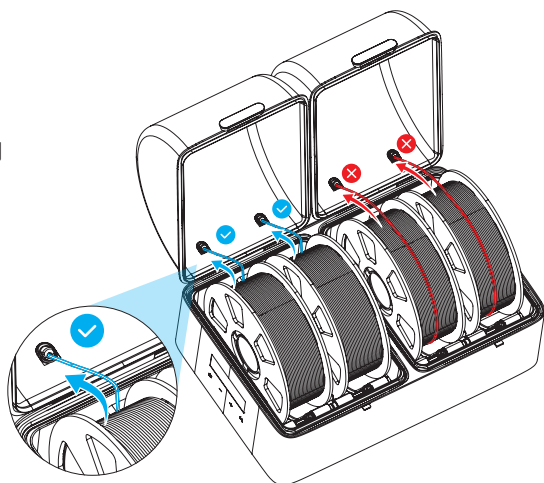
请勿将颗粒状的干燥剂倒入舱内。



5. 装载耗材至VDS。

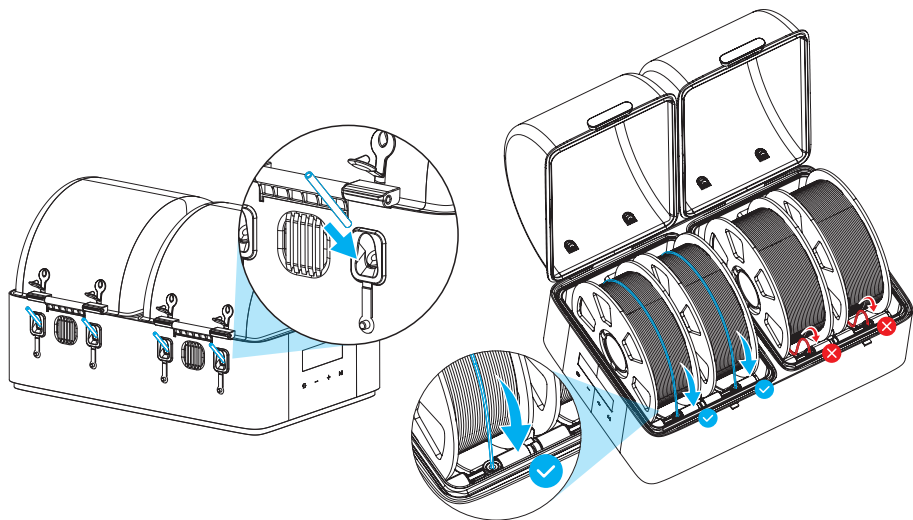
方式一：TPU和碳纤类的材料

将丝料插入上罩的上出料口，然后连接到打印机进料口。



方式二：其他材料

先将 PTFE管插入下出料口固定，再将丝料从内部进料口推入，直至穿过料管并接入打印机。



⚠ 提示

- 若需要实现VDS与打印机之间全程封闭连接，用户可自行购买PTFE管，按需截取适合长度。
- 全程封闭连接还需要用户自行打印配件，可在官网wiki下载。

使用VDS进行烘干

非联机使用（VDS端控制）

界面介绍

1. 点击【↺】按键，循环设定A/B仓的温度与时间（共四项参数）。
2. 点击【+】/【-】按键，可修改当前烘干温度或时间。
 - ①温度：每按一次增减5℃（范围 45-85℃）。
 - ②时间：每按一次增减30min（范围 1-48h）。
3. 点击【▶||】键，按当前设置启动对应仓位的烘干任务。
4. 烘干完成后，VDS自动进行声音提示，界面显示“END”，10s后进入待机状态。



说明

启动与控制

开启烘干：选定对应仓位的烘干温度和烘干时间。短按【▶||】按钮，该仓位开启。

注：两个仓位可以同时开启，需先启动一个仓后，再启动另一个。

结束烘干：选定对应的仓位（停留在温度或者时间的位置），短按【▶||】按钮。

一键结束：长按【▶||】按钮，A/B两仓同时停止工作。

提示：选中状态下，对应仓位数值呈闪烁状态。

自动除湿

功能说明：系统会自动检测仓内湿度情况，在一定的湿度范围进行自动除湿（湿度范围只能在联机端更改）。

开关方式：长按【↺】按钮。

图标显示：开启时，屏幕右上角显示“Dry”图标；停用时光标消失。

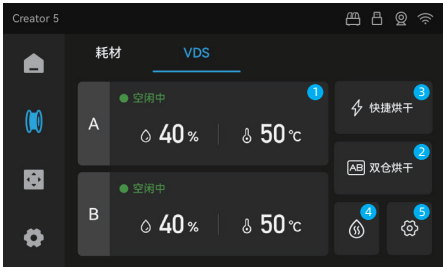
联机使用（打印机端控制）

注意：固件不定期更新，UI界面请以实际为准。

将VDS连接到打印机后，打印机显示屏【】图标亮起。
在耗材页面顶部可找到烘干箱任务栏，轻触进入即可设定相关数值。

界面介绍

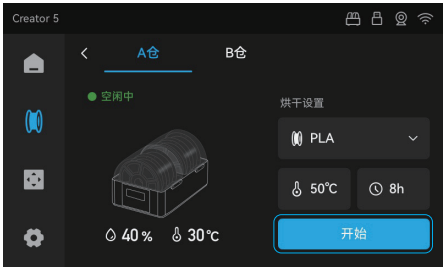
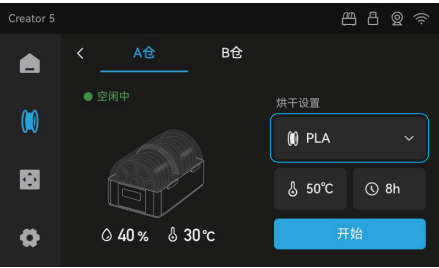
- 1. 单仓烘干：轻触A仓或者B仓显示区域，可单独控制该仓功能。
- 2. 双仓烘干：设定好A仓和B仓的烘干温度和时间后，可双仓同时烘干。
- 3. 快捷烘干：系统已经提前预设PLA，PETG，ABS类的烘干温度和时间，可快速开启烘干。
- 4. 自动除湿：轻触自动除湿图标【】进入设置界面，可开启自动除湿。
- 5. 设置：可进入设置界面，可行设置操作。



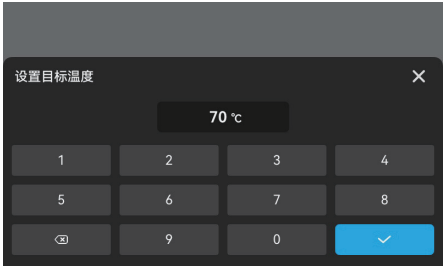
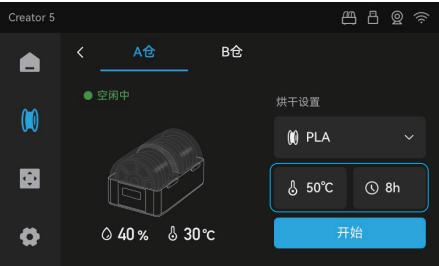
烘干操作

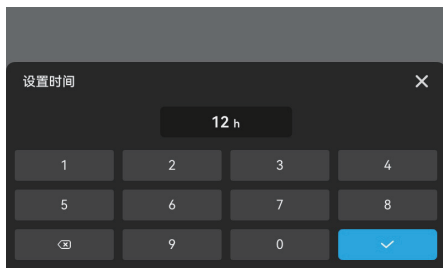
1. 单仓烘干：

- a. 进入A仓或者B仓界面，选择要烘干的耗材。
- b. 完成耗材选择之后，与材料相匹配的烘干温度和时间会自动显示，轻触【开始】进行烘干。

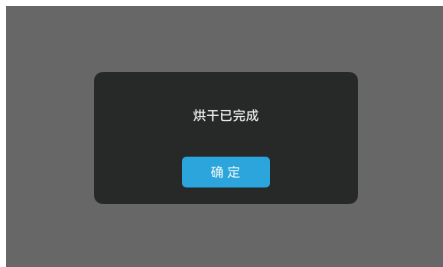


- c. 也可以轻触屏幕温度和时间按钮，自行设置烘干时间和温度。





d. 烘干完成后，将会通过提示音和弹窗进行提示。需要停止烘干时，轻触【停止】即可。



2. 双仓烘干:

轻触【双仓烘干】，双仓启动烘干，对应的烘干时间与温度为预先设置的时间与温度。



3. 快捷烘干:

a. 轻触【快捷烘干】，进入操作界面。



b. 选择对应材料类别，轻触【烘干】开始双仓烘干。



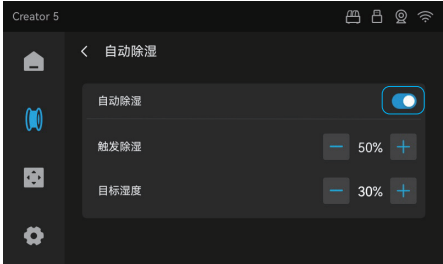
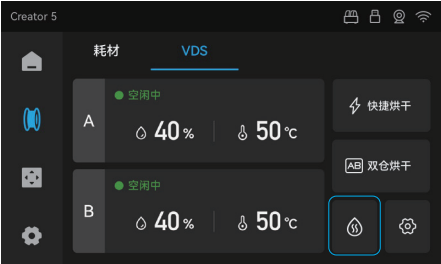
- c. 烘干完成后，设备通过提示音和打印机屏幕弹窗进行提示。

d. 需要停止烘干时，轻触【停止】。



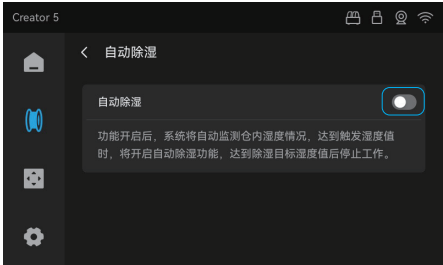
4. 自动除湿:

- a. 轻触自动除湿图标【】，进入自动除湿界面，打开自动除湿开关。



- b. 触发湿度和目标湿度的数值可自定义设置。

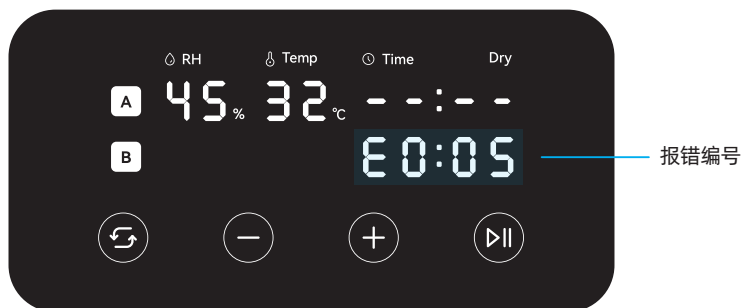
c. 需要关闭自动除湿时，进入自动除湿界面关闭。



 注意

- 触发湿度为该功能开启时湿度，目标湿度为该功能停止时湿度；
- 出厂默认触发湿度50%，可设置范围：25-80%；
- 出厂默认目标湿度30%，可设置范围：25-50%；
- 每按一次增减5%。

故障排查



报错编号	报错信息
E001	屏幕通信异常
E002	A仓湿度传感器异常
E003	A仓温度传感器异常
E004	A仓加热模块异常(加热模块失效)
E005	A仓风扇异常
E006	B仓湿度传感器异常
E007	B仓温度传感器异常
E008	B仓加热模块异常(加热模块失效)
E009	B仓风扇异常

产品参数

产品名称	Ventilated Drying System (缩写: VDS) 通风循环干燥系统
产品尺寸	400 × 281 × 248 mm
适配耗材尺寸	直径: ≤202mm, 宽度: ≤72mm
适配耗材线径	1.75mm / 2.85mm (2.85mm仅限上出料口)
温控范围	45°C-85°C
连续工作时间	1-48小时
电源输入	100-120V/200-240V AC 50-60Hz
最大功率	500W

推荐干燥温度

随机附赠各耗材推荐干燥温度和时间的贴纸。
用户可自行选择贴在机器合适位置，建议贴在显示屏两侧。

各材料推荐干燥温度 Recommended Drying Temperatures		
耗材类型 Filament Type	推荐烘干温度 Recommended Drying Temp	推荐烘干时间 Recommended Drying Time
PLA PLA SILK PLA-CF	50-55°C	8h
PETG PETG-CF PETG Pro	60-70°C	8h
TPU	70°C	12h
ABS ASA PC HIPS ABS-GF ABS-CF ASA-GF	80°C	12h
ASA-CF	85°C	12h
PA PA-CF PAHT-CF PET-CF S-Multi S-PAHT	80-85°C	12h
PPA-CF PPS-CF	85°C	12h
PVA BVOH	75-80°C	8-12h

⚠ 注意

1. 长时间烘干TPU材料可能引起耗材盘变形，请不要超过建议时间。
2. 烘干尼龙（PA）类材料时，请勿同仓混放其他类型材料，否则尼龙（PA）易吸收其他材料排出的水分而导致吸湿。
3. VDS的摆放位置请按建议的位置图标识，过远过近容易增加耗材送丝阻力。
4. 低温材料若使用高温烘干后，会产生形变，材料直径变化可能导致打印异常。
5. 注意材料安装方向。
6. 环境湿度过大（大于70%）时，VDS自动除湿功能湿度控制范围在20-40%，若对湿度控制要求更高，请使用烘干功能。
7. 打印时，建议边烘边打。烘干时，请注意仓体高温烫手。
8. 当A仓设置45度，B仓设置最高温度85度时，受热传导效应影响，A仓温度上升至50度左右，1小时后会回落至45度。



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www.sz3dp.com - [技术支持]



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