# CREALITY

CR-10 Series 3D Printer User Manual

- The User Manual is for the CR-10 Series of 3D printers. It is also applicable for the CR-10S/CR-10 S4/CR-10 S5.
- But CR-10 mini without T-Bracket (Right) & Decoration Strip.
- Due to the different types of devices、hardware and software upgrade, it is normal if the devices have little different. Please be subject to the actual products.
- Detailed instructions for using are available on the TF card.

V5.1
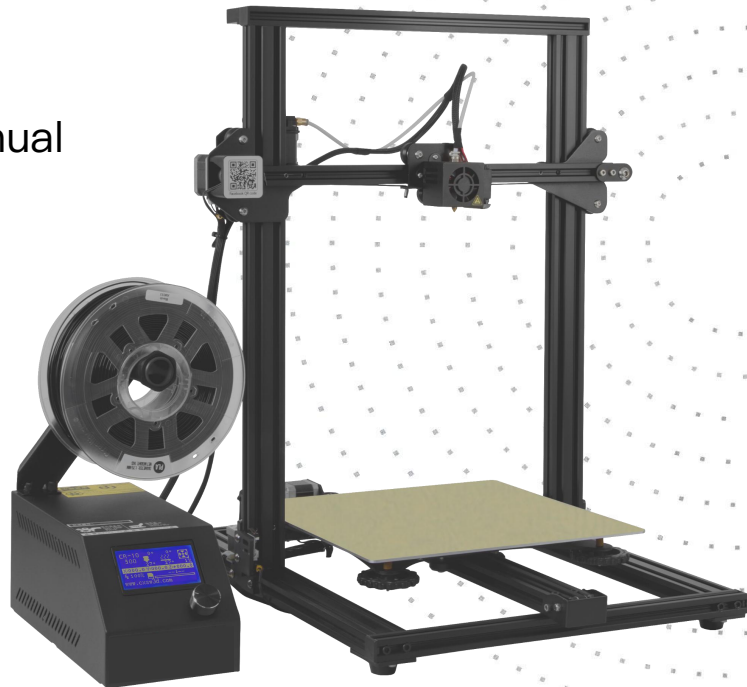
Parameters

Basic Parameters					
Model	CR–10	CR–10S	CR–10 S4	CR–10 S5	CR–10mini
Printing Size	300*300*400mm	300*300*400mm	400*400*400mm	500*500*500mm	300*220*300mm
Molding Tech.	FDM				
Nozzle Number	1				
Slice Thickness	0.1mm–0.4mm				
Nozzle Diameter	Standard 0.4mm				
Precision	±0.1mm				
Filament	1.75mm PLA				
File Format	STL/OBJ/AMF				
Working Mode	Online or TF card offline				
Slice Software	Creality Slicer/Cura/Repetier–Host/Simplify3D				
Power Supply	Input:AC 115V/230V 50/60Hz Output:DC 12V				
Total Power	270W	270W	250W	270W	270W
Bed Temp.	≤100℃	≤100℃	≤60℃	≤60℃	≤100℃
Nozzle Temp.	≤250℃				
Resume Print	NO	Yes	Yes	Yes	Yes
Filament Detector	NO	Yes	Yes	Yes	NO
Dual Z–Axis	NO	Yes	Yes	Yes	NO
language Selection	NO	EN/CN			
Operating System	Windows XP/Vista//7/8/10 MAC/Linux				
Printing Speed	≤180mm/s, Normal 30–60mm/s				

CONTENTS

Dear Customers:

    Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our 3D team will always be ready to give you the best service. Please contact us via the phone number or e–mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you may learn how to use the Printer in the following ways:

Learning from the instructions and videos that come with your TF card.

Visit our official website at www.creality3d.cn You will find some related software or hardware information, contact details, operation and maintenance instructions on the website.
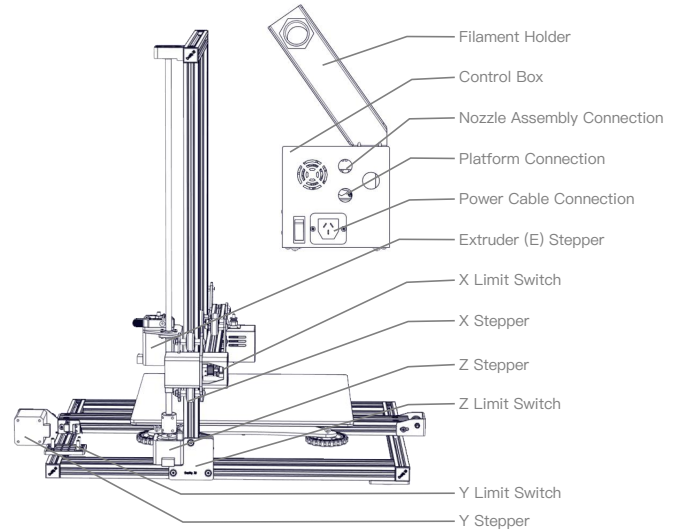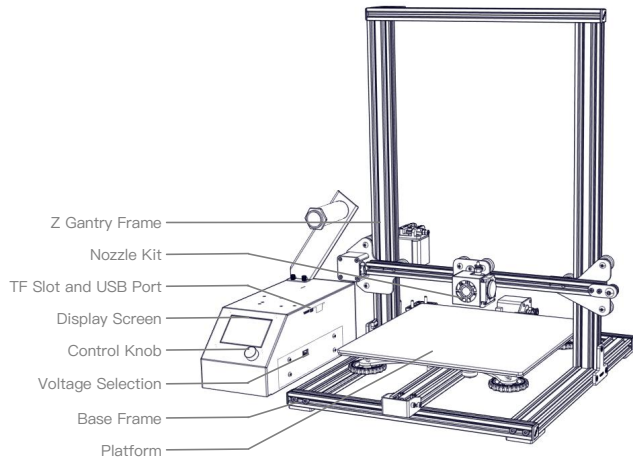
NOTES

1. Do not use the printer in other wrong ways to avoid personal injury or property damage.

2. Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well–ventilated, low–dust environment.

3. Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.

4. Before using experimental or exotic filaments, we suggest using standard filaments such as ABS or PLA to calibrate and test the machine.

5. Do not use any other power cable except the one supplied. Always use the three–pin plug .

6. Do not touch the nozzle or printing surface during operation as they may be hot. Keep hands away from machine while in use to avoid burns or personal injury.

7. Do not wear gloves or loose clothing when operating the printer. Such cloths may become tangled in the printers moving parts leading to burns, personal injury, or printer damage.

8. When cleaning debris from the printer hotend, always use the provided tools. Do not touch the nozzle directly when heated. This can cause personal injury.

9. Clean the printer frequently. Always turn the power off when cleaning, and wipe with a dry cloth to clean dust, adhered printing plastics or any other material from the frame, guide rails, or wheels . Use glass cleaner or isopropyl alcohol to clean the print surface before every print for consistent results.

10. Children under the age of 10, should not use the printer without any supervision.
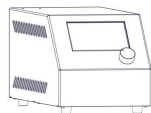
01/

Introduction

Z Gantry Frame

Nozzle Kit

TF Slot and USB Port

Display Screen

Control Knob

Voltage Selection

Base Frame

Platform

Filament Holder

Control Box

Nozzle Assembly Connection

Platform Connection

Power Cable Connection

Extruder (E) Stepper

X Limit Switch

X Stepper

Z Stepper

Z Limit Switch
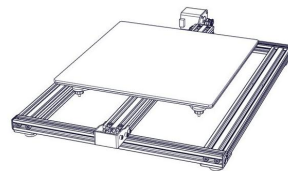
Y Limit Switch

Y Stepper

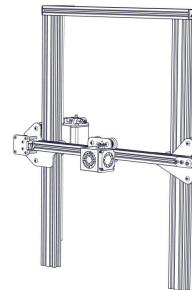# 02/

General List

Tool Box

Control Box

Base Frame

Gantry Frame

◆Tool list

No.	Image	Name	Qty	No.	Image	Name	Qty	No.	Image	Name	Qty
1		Spool & Nuts	1set	7		Power Cable	1	13		Scraper	1
2		Spool Holder	1	8		USB Cable	1	14		Cable Ties	1set
3		TF Card & Card Reader	1set	9		PTFE Tubing (spare part)	1	15		Hex keys, Wrench & Screwdriver	1set
4		T-Bracket (Right)	1	10		Nozzle Cleaner	1	16		Spare Parts	1set
5		T-Bracket & Z Limit Switch (Left)	1	11		Filament（200g）	1	17		Decorative Strip	1
6		M5X25 Bolt & Lock Washer	4 sets	12		Diagonal Pliers	1	18		Thumb Screw	3

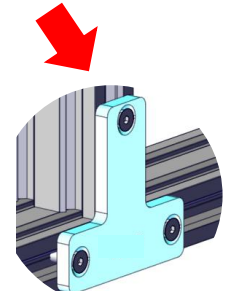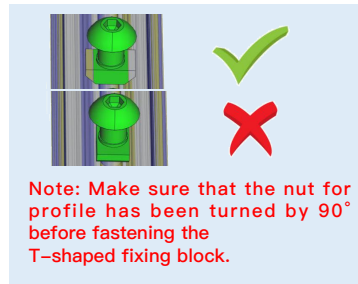*CR-10 mini without T-Bracket (Right) & Decoration Strip.

03/

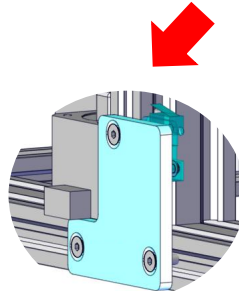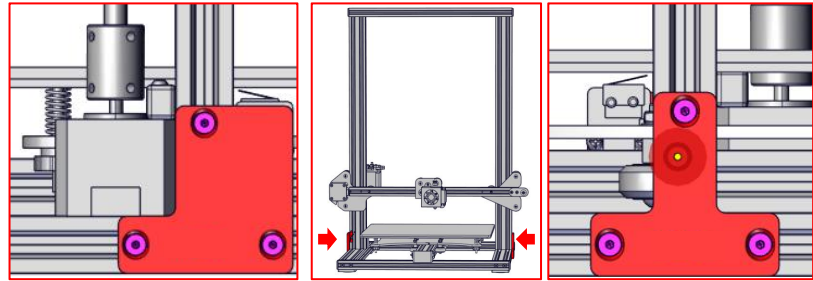## Device Installation

◆ Install the Gantry Frame

M5X25
4pcs
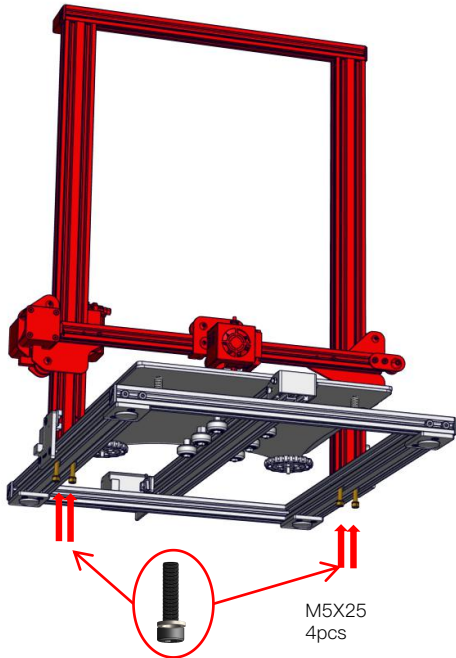
◆ Install the T-Shaped Fixing Block.

Note: Make sure that the nut for profile has been turned by 90° before fastening the T-shaped fixing block.

*CR-10 mini without T-Bracket (right).

◆ Install the Rack
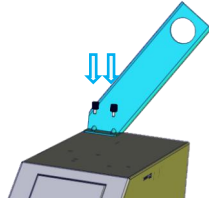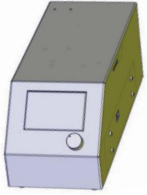
Attach the Bracket
with two thumb screws.
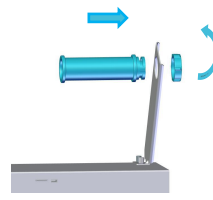
Attach Spool Holder
with included Nuts

Finished

◆ Installation decoration strip

Installation decoration strip into
the notch, starting from one end.

Cut off the excess material with
the diagonal pliers
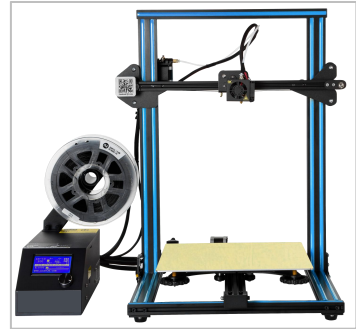
Attach the Decoration strip to all
parts needing to be decorated.

*The decoration strip is available in various colors. The pictures above are for reference only.

*CR−10mini without Decoration Strip.

04/

Cable Connection

Y Stepper and Limit Switch
Extruder (E) Stepper
X Stepper and Limit Switch
Z Stepper and Limit Switch
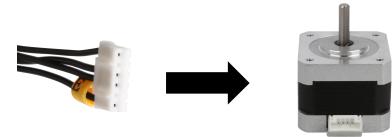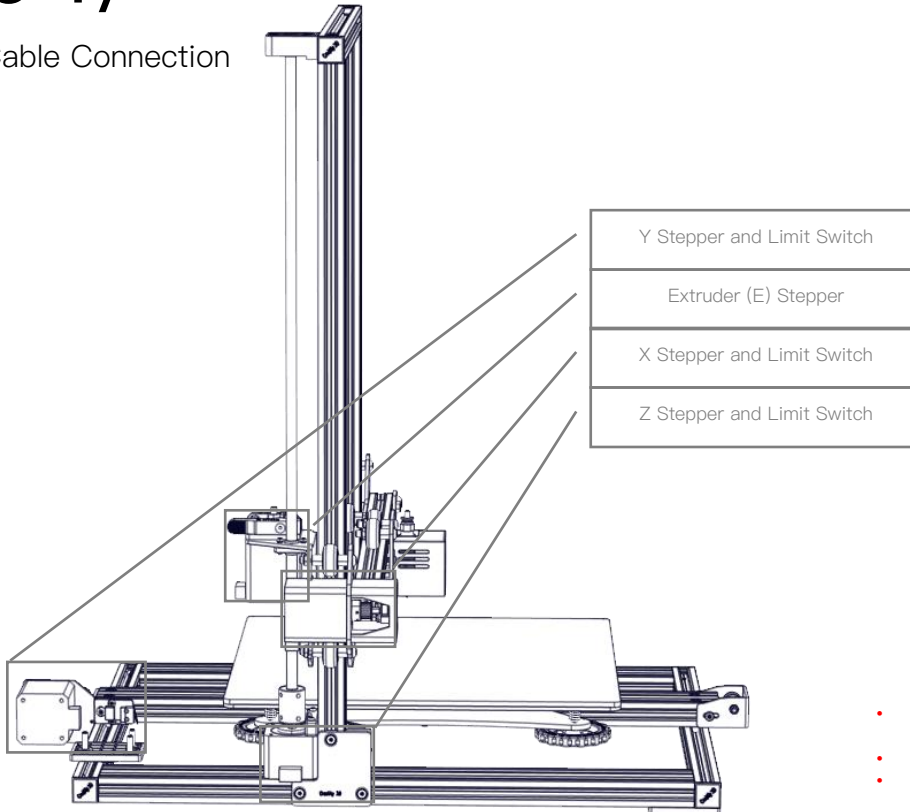
Connect the Stepper Motors according to the yellow labels on the 6pin (4−wire) side.
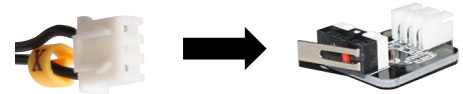
Connect the Limit Switches according to the yellow labels on the 3pin (2−wire) side.

Connect the aviation connectors to the ports

- **Select the correct input voltage to match your local mains (230V or 115V)**
- **Damage can occur if voltage is set incorrectly.**
- **Make sure the power cable is connected.**

05/

Screen Information

Push：OK/Enter Sub Menu
Turn：Change Option/Value

Print Speed

Device Model

CR-10S
300

X:--- Y:--- Z:---.---

100% --:-- 0%

www.cxsw3d.com

Set Temperature of the Nozzle

Current Temperature of the Nozzle

Set Temperature of the Hot Bed

Current Temperature of the Hot Bed

Part Cooling Fan Speed

Current Location of the nozzle

Print Time

Print Progress

Prompt Message

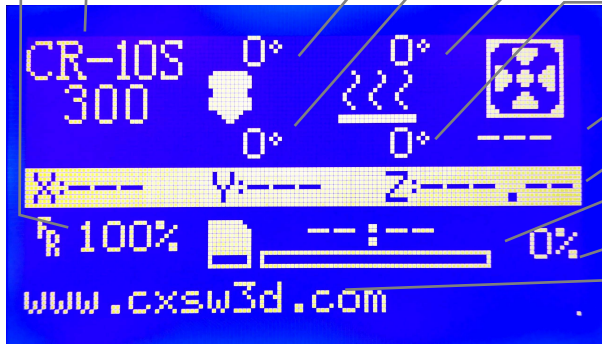| Screen Information		
Menu	Sub Menu	Explanation
Info Screen ↑	Main ↑	Return
Prepare→	Auto Home	Return to Zero
	Move Axis→	Moving X Y Z axis or Extruder by inputting
	Bed Auto Leveling	
	Disable Steppers	Close motor and move X Y Z axis by hands
	Change Filament	
	Preheat PLA	
	Preheat ABS	
	Cooldown	Close and cooldown the nozzle
Control→	Temperature→	Heat the nozzle and bed or change fan speed by inputting number
	Restore Failsafe	Restore factory setting
Language		English/Chinese
No SD card/ Print from TF		Select the printing model
Init. SD Card /Change SD Card		
Printing		
Tune→	Speed	Change Printing Speed by inputting
	Nozzle	Change the temperature by inputting
	Bed	Change the temperature by inputting
	Fan Speed	Change Fan Speed by inputting
	Flow	Change filament flow by inputting number
Pause Print		Can choose to continue printing
Stop Print		Reprint or choose another model to print

06/

Loading Filament

1、Preheat

Method 1

```
Info screen          ↕
Prepare              →
Control              →
Language             →
No SD card           →
```
⇒
```
Disable steppers
Change filament      →
Preheat PLA
Preheat ABS
Cooldown
```

Method 2

```
Info screen          ↕
Prepare              →
Control              →
Language             →
No SD card           →
```
⇒
```
Main                 ↕
Temperature          →
Motion               →
Store memory
Load memory
```

```
Control              ↕
Nozzle:              0
Bed:                 0
Fan speed:           0
```
⇒
```
Nozzle:            200
```
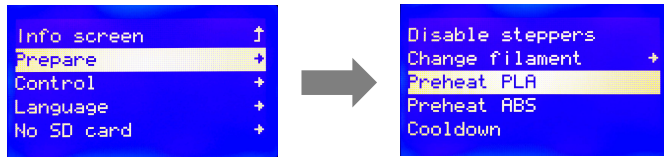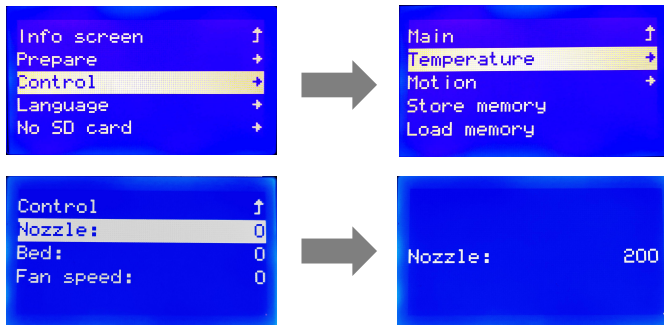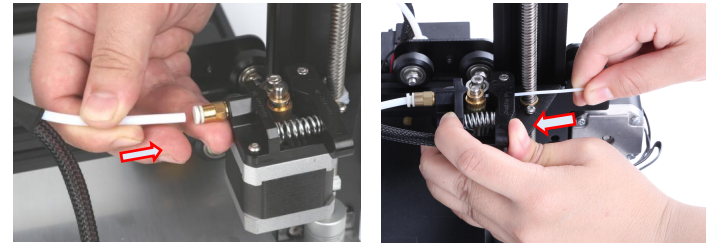
2、Feed Filament

Press and hold the extruder lever then insert the 1.75mm filament through the small hole of the extruder. Continue feeding until you see filament come out of the nozzle.

> Tip：How to Replace the Filament?
>
> 1、Cutting filament near the Extruder and slowly feed new filament until the new filament get into the PTFE tube
>
> 2、Preheating the nozzle,Press and hold the extruder, extract the filament, then feed the new filament.

07/

Bed Leveling

```
Info screen        ↕
Prepare            →
Control            →
Language           →
No SD card         →
```

```
Main               ↕
Auto home
Move axis          →
Bed Auto Leveling  →
Disable steppers
```

```
Info screen        ↕
Prepare            →
Control            →
Language           →
No SD card         →
```
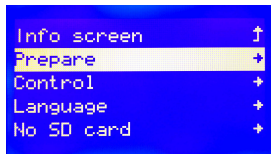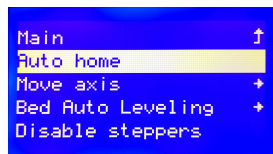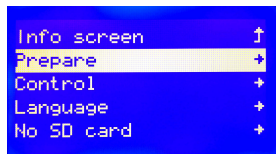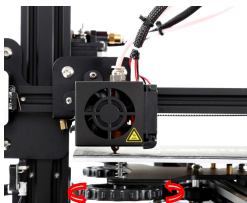
```
Main               ↕
Auto home
Move axis          →
Bed Auto Leveling  →
Disable steppers
```

1. Prepare →Auto Home. Waiting for the nozzle to move to the left/front of the platform.→ Prepare→Disable Steppers(Close stepper drive, release motor)

| 4 | | 3 |
| CREALITY |
| 1 | | 2 |

2. Move the nozzle to the front/left leveling screw and adjust the platform height by turning the knob underneath. Use a piece of A4 paper (standard printer paper) to assist with the adjustment, making sure that the nozzle lightly scratches the paper.
3. Complete the adjustment of the screws on all 4 corners.
4. Repeat above steps 1–2 times if necessary.

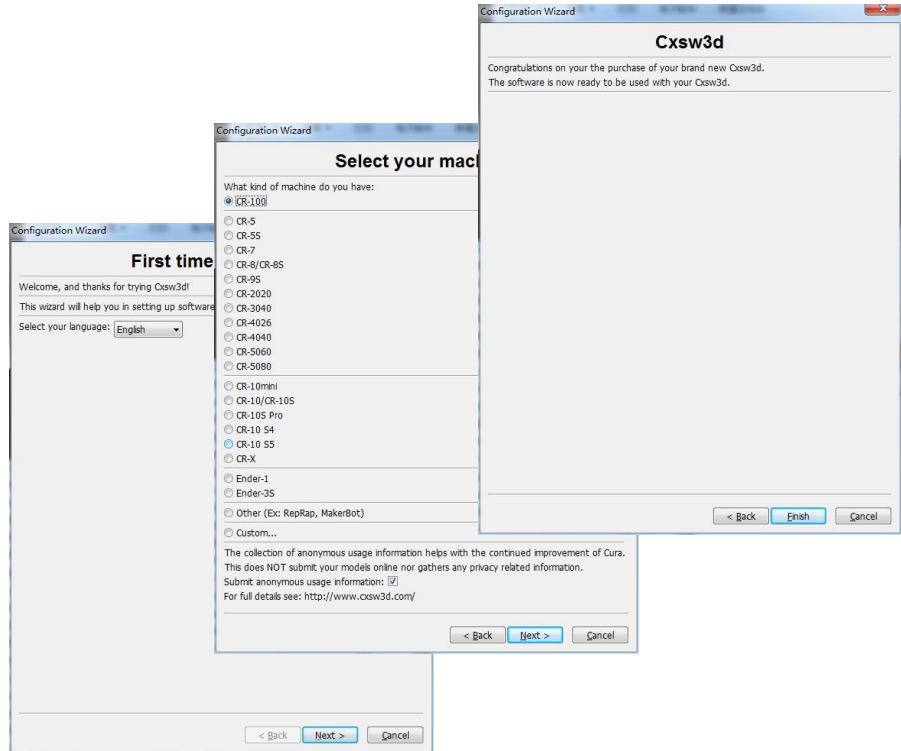|		
		⊗ The nozzle is too far away from the platform, so the filament can not adhere to the platform.
		✓ Filament are extruded evenly, just sticking on the platform.
		⚠ The nozzle is too close to the platform, and the filament are not extruded enough, even scraping the platform.

08/

Software
Installation

Creality
Slicer_1.2.1.msi

1. Double click to install the software.

CREALITY

Creality Slicer

2、Double click to open the software.

First time

Welcome, and thanks for trying Cxsw3d!

This wizard will help you in setting up software

Select your language: English

Select your machine

What kind of machine do you have:

- CR-100
- CR-5
- CR-5S
- CR-7
- CR-8/CR-8S
- CR-9S
- CR-2020
- CR-3040
- CR-4026
- CR-4040
- CR-5060
- CR-5080
- CR-10mini
- CR-10/CR-10S
- CR-10S Pro
- CR-10 S4
- CR-10 S5
- CR-X
- Ender-1
- Ender-3S
- Other (Ex: RepRap, MakerBot)
- Custom...

The collection of anonymous usage information helps with the continued improvement of Cura. This does NOT submit your models online nor gathers any privacy related information.
Submit anonymous usage information: ☑
For full details see: http://www.cxsw3d.com/

Cxsw3d

Congratulations on your the purchase of your brand new Cxsw3d. The software is now ready to be used with your Cxsw3d.
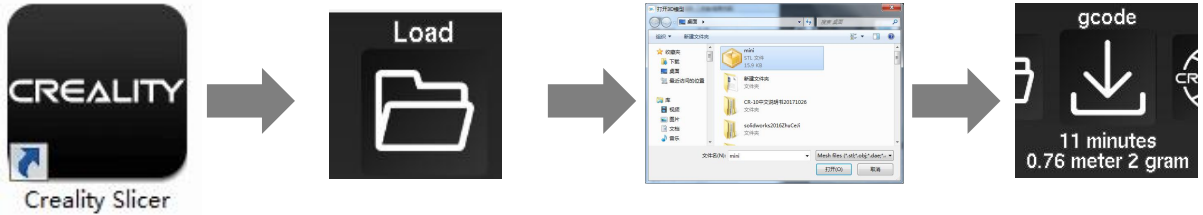
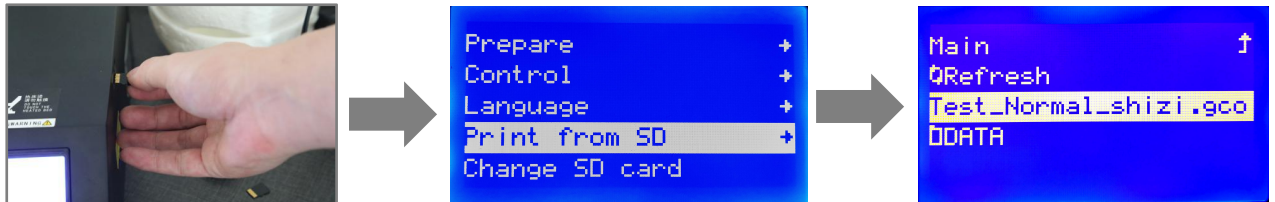3. Select language→Next→Select your machine→Next→Finish.

09/

First Printing

1.Slicing

Open the software→Load→Select the file→Wait for slicing to finish ,and save the gcode file to TF card.

2.Printing

Insert the TF card→ Print → Select the file to be printed.

After– Sales Service

Service

1.The printer can be returned within seven days, 15 days replacement, one year warranty, lifetime maintenance.

Replacement requirement

1. The appearance of the product is intact, without damage, scratches, smudges, cracks, deformation, etc.;

2. Machine parts, tools and others are complete;

3. Provide a complete and valid purchase invoice and warranty, product number should be the same.

Warranty coverage

1. The following accessories are not included in the warranty coverage if they are not damaged by transportation: platform sticker; platform forming plate; acrylic cover; card reader and TF card; platform glass; USB cable; filament; rack and tools,etc.

2. Profile: Before we deliver the goods, we will do the machine test, so maybe there will be light scratch, or due to long–distance transportation, which scratch the profile a little bit. in the premise of not affecting the normal use, in principle, not within the scope of warranty;

3. Nozzle assembly (nozzle, heating block, throat pipe,heat sink, Teflon tube, etc.) warranty period is 3 months, if it is damage after the warranty expires, you need to purchase another one;

4. Motherboard, LCD display, power supply, hot bed,warranty period is 12 months, if there are quality problems, you can get free maintenance; over the warranty period, can be sent back to the original factory maintenance, the users need to bear the return shipping and maintenance costs;

5. Not included in warranty coverage:
   (1) It is not possible to provide an effective after–sales service card or serial number;
   (2) The whole machine and components exceed the warranty period;

(3) Equipment failure or damage caused by unauthorized modification of the equipment (private modification includes: 1. modification of the nozzle assembly; 2. modification of the machine structure; 3. use of third–party components; 4. use of third–party firmware procedures or change the original Factory firmware program, etc.);

(4) Equipment failure or damage due to incorrect installation and use;

(5) Equipment failure or damage caused by the use of the equipment in a working environment not specified by the product;

(6) Equipment failure or damage due improper use (beyond workload, etc.) or maintenance (moisture, etc.);

(7) Equipment failure or damage due to the use of other branded components or low quality consumables.

FC CE RoHS CPGC ISO 9001