# ShapeScrape

Auto Scraping Station

User Manual V1.0

# Content

# General Information

## Instructions

This manual contains the technical information, safety guidelines, and detailed operation instructions for ShapeScrape auto scraping station. Please keep it properly.

Please read this manual carefully before using the device. Failure to comply with the safety and operating instructions required by this manual will result in consequences that are the soleresponsibility of the user.

All information contained in this manual is up to date at the time of printing, but may be subject to change without notice as products are upgraded.

The images used in this manual may differ from your device due to differences in specific models and specifications.

## Instructions of mark

Warning: Could result in serious personal injury or equipment damage if it was failed to comply with this requirement.

Attention: Could result in minor personal injury or equipment damage if it was failed to comply with this requirement.

Important Information: The normal operation of the device or the quality of printed models would be influenced if it was failed to comply with this requirement.

Protection requirements: Corresponding precautions should be taken as required.

Hazard indication: Description of specified hazard.

3

# Safety Guidelines

Before operating with the device, please read the following safety guidelines to identify the potential risks which you may experience during the usage. When using the device, make sure to comply with the related requirement defined in the manual already and take appropriate precautions in advance.

Any operation which was failed to fulfill with the requirement defined in the safety guidelines may result in personal injury or eguipment damage, and the corresponding consequences should be taken by the users.

### The device shall be operated by professional staff

Operators must carefully read and understand the safety guide and operation manual, then operate the device correctly as required.

### Keep away from children

Please keep the device, resin material and other accessories out of the reach of children.

### Disassembly or modification is strictly prohibited

It is strictly prohibited to disassemble or modify the device without authorization. Do not use accessories which are not designated officially.

### Risk of electric shock

The specification of power must meet the operating requirements of the device

A grounded electrical outlet should be applied.

Replaced with a new one before usage if it was found that the power cable was aging or damaged.

### Risk of mechanical cut

A blade is used to separate the printed parts from the build plate. It is strictly forbidden to put your hand inside when the blade is moving.

Please keep the protective cover/door closed normally.

Please follow the guideline for maintenance work.

### Wear protective gloves

Please wear disposable gloves when operating the devices to avoid direct contact with the resin material.

# Product Information

· Technical Specification

# Technical Specification

| Main Parameters | ShapeScrape |
| --- | --- |
| Blade Length | 300 mm |
| Stroke Length | 0~160 mm |
| Compatible Printer | Edge Max |
| Operation Panel | Buttons and indicators |
| Input Voltage | 100~120 VAC，50/60 Hz<br>220~240 VAC，50/60 Hz |
| Rated Power | 30 W |
| Device Dimensions | 700 × 370 × 480 mm |
| Device Dimensions(with door open) | 700 × 411 × 633 mm |
| Net Weight | 31 kg |
| Packaging Size | 750 × 420 × 530 mm |
| Package Weight | 33 kg |

# Unpacking and Installation

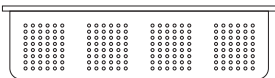· Packing List

· Equipment

· Installation

# Packing List
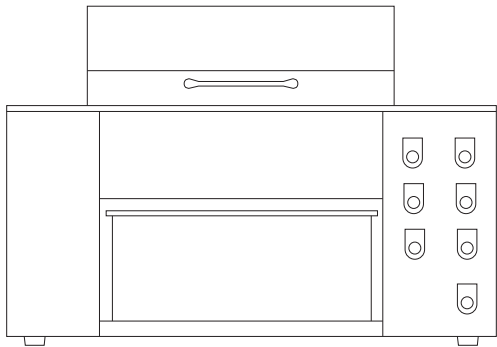


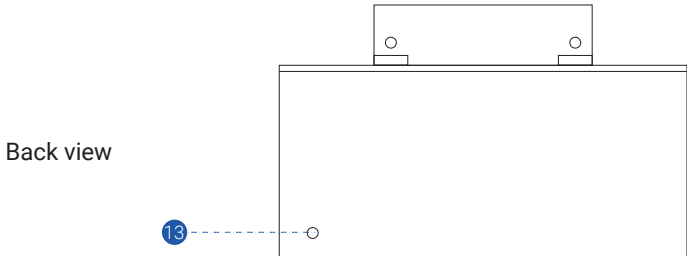1 ShapeScrape
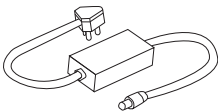


2 Power adapter



3 Collection box



4 Filter basket

### Packing List

| No | List | Quantity |
|---|---|---|
| 1 | ShapeScrape | 1 |
| 2 | Power adapter | 1 |
| 3 | Collection box | 1 |
| 4 | Filter basket | 1 |

# Equipment

Front view



Top view

Back view
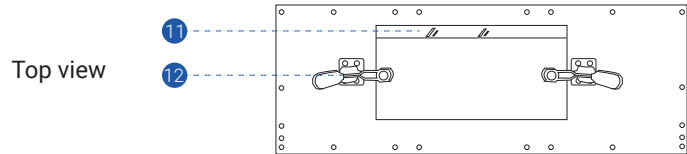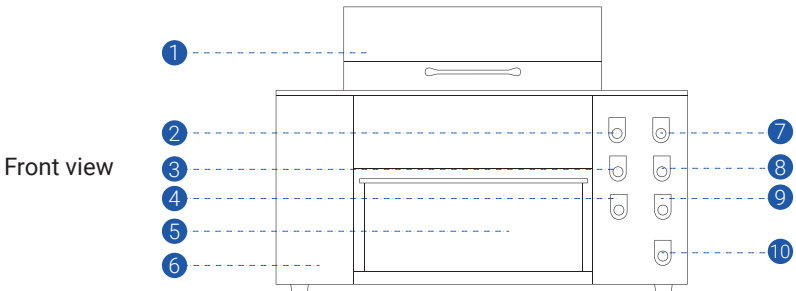
| No | Description |
|---|---|
| 1 | Upper cover |
| 2 | Start button |
| 3 | Action indicator |
| 4 | Error indicator |
| 5 | Collection box + Filter basket |
| 6 | Enclosure |

| No | Description |
|---|---|
| 7 | Emergency Stop button |
| 8 | Maintenance button |
| 9 | Reset button |
| 10 | Power button |
| 11 | Blade |
| 12 | Toggle clamp |
| 13 | Power interface |

# Installation



## Platform

The platform which is used to place the device shall be more than 80 cm in width, more than 50 cm in depth. The load-bearing capacity shall be more than 50 kg. The table should be flat and stable, and avoid direct sunlight to the device.
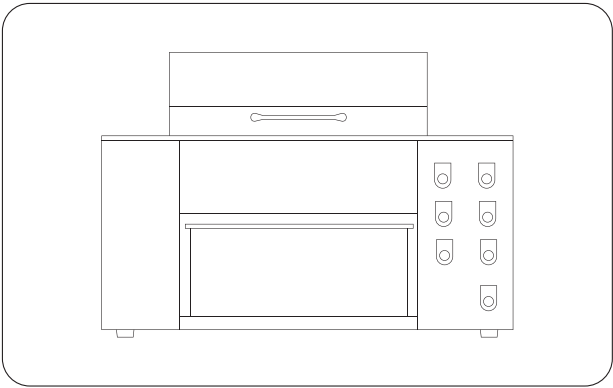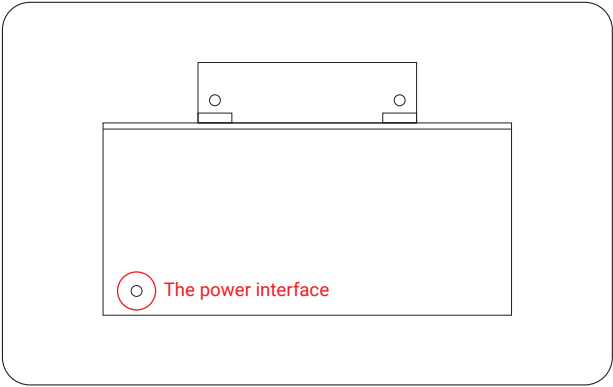


○ The power interface

## Connection

The power interface is located on the back of the device.

⚠️ Make sure that a grounded power outlet was applied.
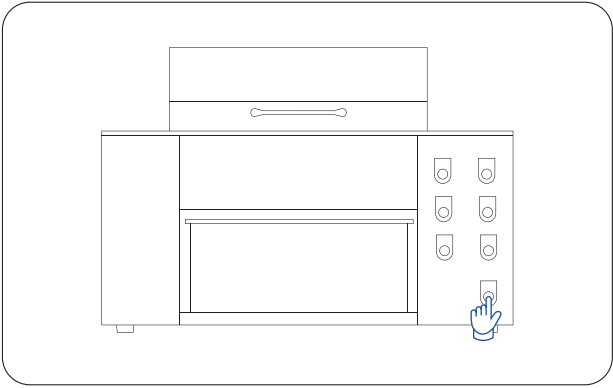


## Power on/off

Close the upper cover and press the "POWER" button to power on the device. It will take about 10s for the device to finish the initialization. The "Action" and "Error" indicators will be flashing during this process, and then be off when the device is ready.

👆 The upper cover must be closed before turning on the device, otherwise the initialization may fail.

# Operation Panel

# Operation Panel

**START**

Light is on when idle.
Light is off when the blade is moving.
Light is on after scraping completion or reset.

**ACTION**

Light is flashing during initialization.
Light is on when the blade is moving.
Light is flashing if the upper cover is opened when the blade is moving.
Light is off after the blade stops moving.

**ERROR**

Light is flashing during initialization.
Light is on after the E-Stop button is pressed or released afterwards.
Press the Reset button after the emergency is solved, and the error indicator will be off once the blade position is reset.
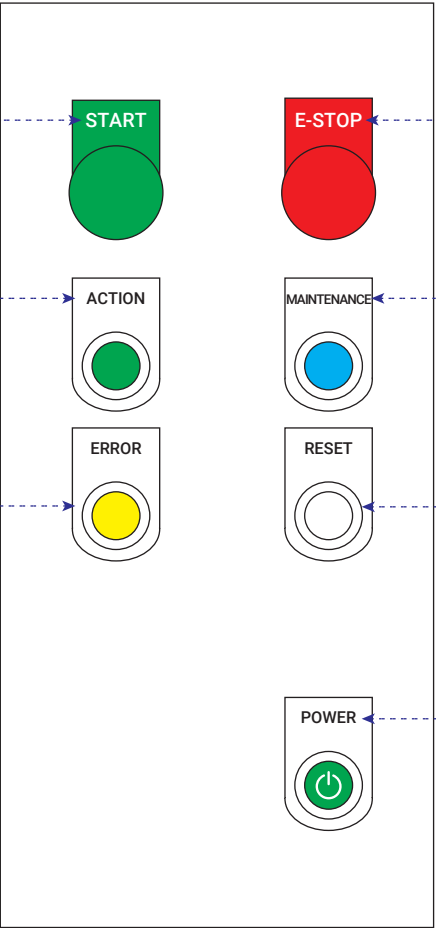
| START | E-STOP |
| ACTION | MAINTENANCE |
| ERROR | RESET |
| | POWER |

**E-STOP**

Light is on when the button is pressed.
Light will be off after the button is released by turning clockwise.

**MAINTENANCE**

Light is on when the button is pressed,and the blade moves to the middle.
Light will be off once the Reset button is pressed.
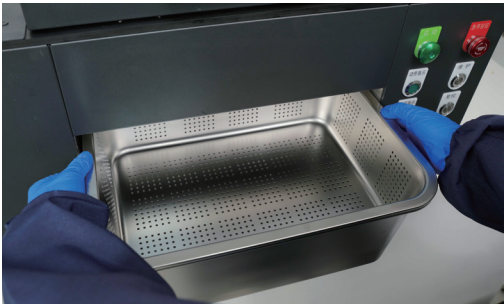
**RESET**

Only works when the blade is not in its home position.
The blade moves to its home position when the button is pressed.

**POWER**

Light is on when the button is pressed, and the device is turned on.
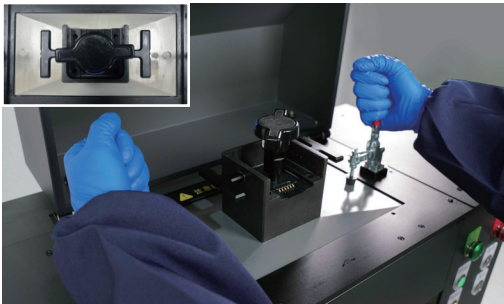Light is off when the button is pressed again, and the device is turned off.

# Operation and Maintenance

### Install the collection box

Put the filter basket into the collection box, and insert the box into the device chamber.

### Install the build plate with printed parts

Open the upper cover, place the build plate into the frame, and push it to the far end. Engage both toggle clamps to secure the build plate.
Close the upper cover.

⚠ Please make sure the build plate is correctly positioned and fully secured, otherwise the blade or the build plate may be damaged during scraping.

⚠ Please use both hands to engage/release toggle clamps at the same time to avoid hand clamping risk.

### Scraping

Press the "START" button to begin scraping. The "ACTION" will be on during the process.
When scraping is completed, the "ACTION" indicator will be off, and the "START" button will light up again.

⚠ Do not open the upper cover during scraping. Press the "E-Stop" button immediately if any thing unusual happens.

### Remove the build plate

Open the cover, release both toggle clamps to remove the build plate, and then close the cover.

⚠ Please use both hands to engage/release toggle clampsat the same time to avoid hand clamping risk.

### Take put printed parts

Pull out the collection box and remove the parts.
The collected uncured resin could be used for further printing after being proper treated.

⚠ For resin recycle, please make sure the collected resin is not polluted with foreign matter and stays away from light. Please filter the collected resin before using for printing.

✋ Please wear disposable gloves when operating the devices to avoid direct contact with the resin material.
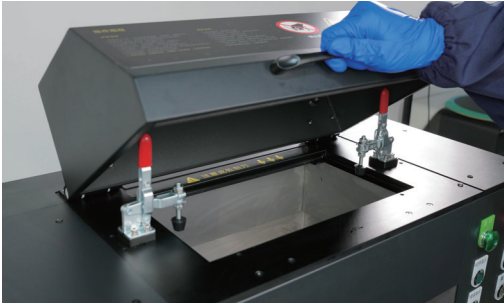
# Maintenance

**Close the upper cover**

Engage both toggle clamps before closing the upper cover.

**Move the blade to the middle**

Press the "MAINTENANCE" button and the "ACTION" indicator will be on.
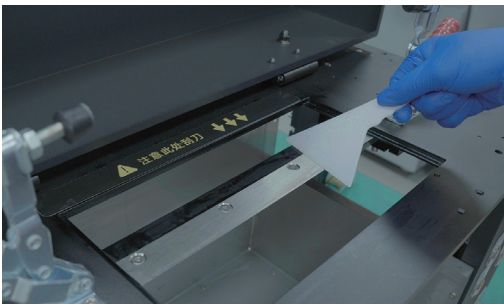The blade moves and stops in the middle, the "ACTION" indicator will be off.
Press the "POWER" button to power off the device.

⚠️ Please make sure the device has been powered off before maintenance work.

**Clean the blade**

Clean the blade with tools like a sponge with handle.

⚠️ DO NOT TOUCH THE BLADE DIRECTLY WITH BARE HANDS!

⚠️ Please do not use metal hard tools to avoid damage to the blade.
If any cleaning solution is used, pay attention to possible pollution to
the collected resin.

✋ Please wear protective gloves.

**Reset the blade position**

After cleaning, close the upper cover and power on the device.
The blade position will be reset during initialization.

# Cautions

**Please do not open the upper cover when the blade is moving.**

It will stop the moving blade immediately, and may cause damage to printed parts or even the blade itself.

**Periodic maintenance for the blade**

The blade should be cleaned periodically to avoid curing of resin attached to its surface. If resin is cured on the blade, it will affect the blade sharpness and the scraping performance.
Please strictly follow the instructions for maintenance work.

## 1.Warranty period

ShapeScrape are provided with 12 months of warranty and lifetime maintenance services.

## 2.Preconditions

- The equipment failure is not caused by human reasons or force majeure.
- A valid proof of purchase.

## 3.Scope

- Appearance parts such as door/cover, enclosure and turntale shall be deemed to be free of quality problems upon sign-off and are not included in the list of warranty components.

## 4. Service

For warranty service requests which are complied with the warranty conditions, the supplier should bear the cost for spare parts, repairing and transportation.

## 5.Non-warranty circumstances:

- Equipment failure caused by human reasons or force majeure.
- Failure to provide valid proof of purchase.

## 6.Maintenance services

The supplier would offer maintenance service to the request which does not comply with the warranty condition or is out of the warranty period. Stil, the requester should undertake the cost related to spare parts and transportation accordingly.

# 1 Year Warranty

**1Year Warranty Card**

This warranty card, along with the valid invoice, will be guaranteed for one year after the purchase. For the warranty details, please refer to the product user manual.

Reseller Name : _____    Invoice NO. : _____    Purchase Date:_____

Product Model : _____    Serial Number : _____    Dealer's Seal: _____

* This is lhe basic proof of lhe warranty. Please fill In II carefully and hand II over lo lhe customer for safekeeping

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Customer Name : _____    Contact: _____    Phone Number: _____

Address: _____    Service Evaluation:   ☐Excellent   ☐Good   ☐Normal   ☐Bad

Customer Signature : _____