

### 31in X 39in Large Format Manual Heat Press Machine

# User Manual

Item Code: HTM-DG-MC-US



Congratulations on your purchase of the Qomolangma manual larger format heat press machine! This heat press machine has many exciting features, all of which are meant to help make your heat transfer pressing endeavors as successful and easy as possible. Please take the time now to thoroughly read through this manual to become acquainted with them. It will explain some key features, concepts and methods that will save much time and effort in using this press and in your heat pressing applications.

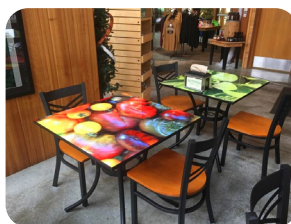
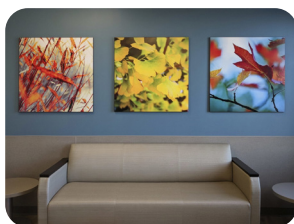
Throughout this manual, some areas and components of this machine will be referred to by specific names. Please refer to the illustrations below in order to become familiar with some of the terminology used in this manual.

## I. Machine Information

Qomolangma 31in x 39in machine is a multipurpose large format manual high-pressure heat transfer press intended for the imprinting of a vast range of different materials. With smart meter can transfer patterns onto fabrics like cotton, linen, chemical fabric through heat transfer technology. Heat treatment of silk screen printing, glue, foam printing can also be achieved by this machine.

### Applications:

Ideal applications that the heat press has performed flawlessly include: Large fabrics & piece goods, full-bleed printed sportswear panels, banners, floor mats, carpets, mouse pads, metal panel, plywood MDF board, glass cutting board and more. The heat press strongly supports sublimation transfer processes, as well as digitally produced transfers, and laminating processes.





## HEAT TRANSFERRING & SUBLIMATION

We are looking for distributor, please ask us for better offer!

Sample and self-pickup service are available.

### Features:

- ✓ Solid aluminum heating board, heavy steel frame structures.
- ✓ Digital displaying thermostatic controller which provides high accuracy ( $\pm 2^{\circ}\text{C}$ ,  $\pm 35.6^{\circ}\text{F}$ ) with fine adjustment switch.
- ✓ Heating tube and heating board are integrated into one, safety, durability, and well-distributed thermal.
- ✓ Automatic maintaining constant temperature, adjustable platen height and even & adjustable applied pressure.
- ✓ Digital timer which complete the work according to the signal instructions.
- ✓ Solid lower platen base, heat-resisting silicone pad temperature can up to  $400^{\circ}\text{C}$  ( $752^{\circ}\text{F}$ ).
- ✓ Heavy duty locking casters for easy movability and solid support.

### Technical Parameters:

**Max. Transferring Size:** 31in x 39in (800mm x 1000mm)

**Voltage:** 220V, 50Hz, 1P, 30A, 6600W

**Time Range:** 0-999S

**Temperature Range:**  $32 - 482^{\circ}\text{F}$  /  $0 - 250^{\circ}\text{C}$ , suggested temperature under  $428^{\circ}\text{F}$  /  $220^{\circ}\text{C}$

**Working Mode:** Manual

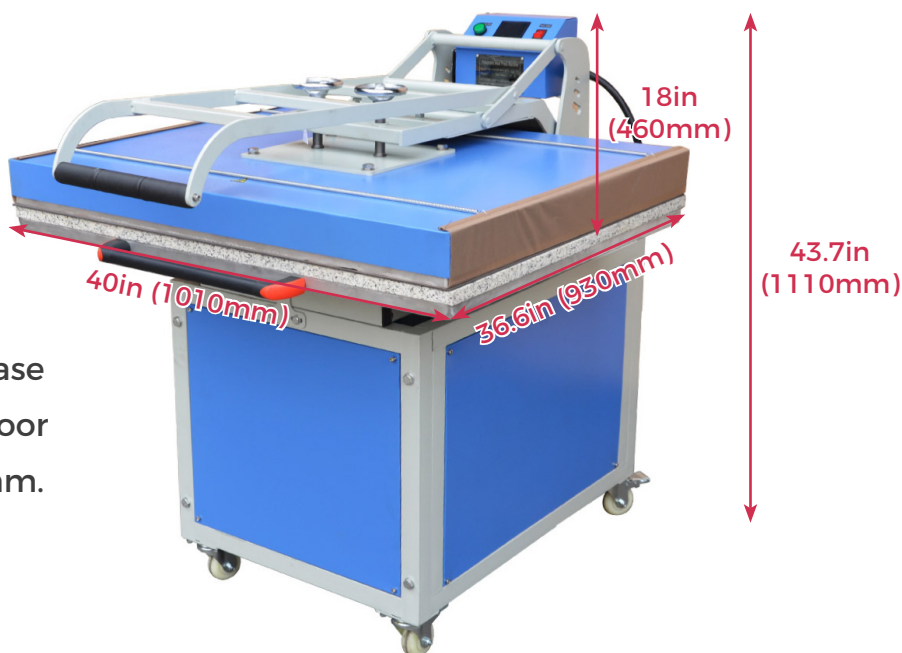
**Preheating Time:**  $\pm 30$  minutes

**Machine Size:** 40in (L) x 36.6in (W) x 43.7in (H) / 1010mm x 930mm x 1110mm

**Package Size:** 52.4in x 42.5in x 27.6in / 1330mm x 1080mm x 700mm

**G. W:** 528 lbs / 240 kg

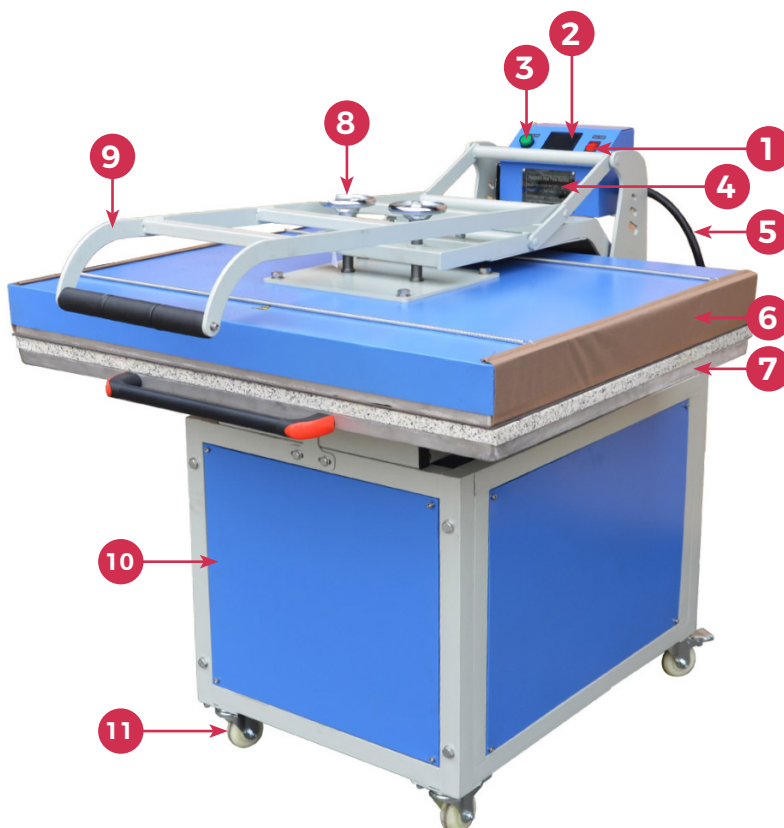
## II. Parts Identification



It can be taken apart, please make sure the width of door is larger than 18in / 460mm.

### Structure:

- ① Power Switch
- ② Time & Temperature Controller
- ③ Heating Lamp
- ④ Nameplate
- ⑤ Power Cable
- ⑥ Lower Platen with Heat-resisting Silicone Pad
- ⑦ Working Platen with Foam or Silicone Pad
- ⑧ Pressure Control Knob
- ⑨ Operating Handle
- ⑩ Floor Stand
- ⑪ Locking Casters



### III. Installation Precautions

1. Before unpacking, carefully check if there is damage for the packing and machine during transportation.
2. After unpacking, check if the service parts are correct as the packing list.
3. The installing place should be provided enough space for operating and free of dust, no vapor, no corrosive gas, no combustible or explosive substance around. Keep the machine away from wind blowing place.
4. After installation, adjust each caster to reach level ground. The casters only be used on even ground for short distance movement.

#### Notice:

1. Please move carefully since it is heavy.
2. This machine must connect reliable ground wire.

#### ELECTRICAL CONNECTION

1. Connection to the electrical power source shall be done by a licensed electrician. Dangerous high voltages sufficient to cause great bodily harm are present and may result in death if proper precautions are not taken.
2. Before installing, verify that the electrical service agrees with the specifications on the unit's rating plate located on the rear side of the machine. If the supply and equipment requirements do not agree, do not proceed with installation. Contact your customer service representative immediately.
3. The heat press may or may not be supplied with a power plug depending upon the country it is shipped to.
4. If the heat press is fitted with a power plug, be sure to use a compatible mating electrical socket.
5. If the heat press is delivered without a power plug, then the electrician can either install a suitable amperage, phase and voltage rated plug for whatever country the unit is being installed, or the unit can be hard wired into a customer supplied electrical disconnect switch (not provided by us).

#### WORKING WITH THE HEAT PRESS

Do not touch the lower part of the heat platen while the press is in service, otherwise burns will occur. Please note that there is still a danger of being burned even after the press has been turned off.

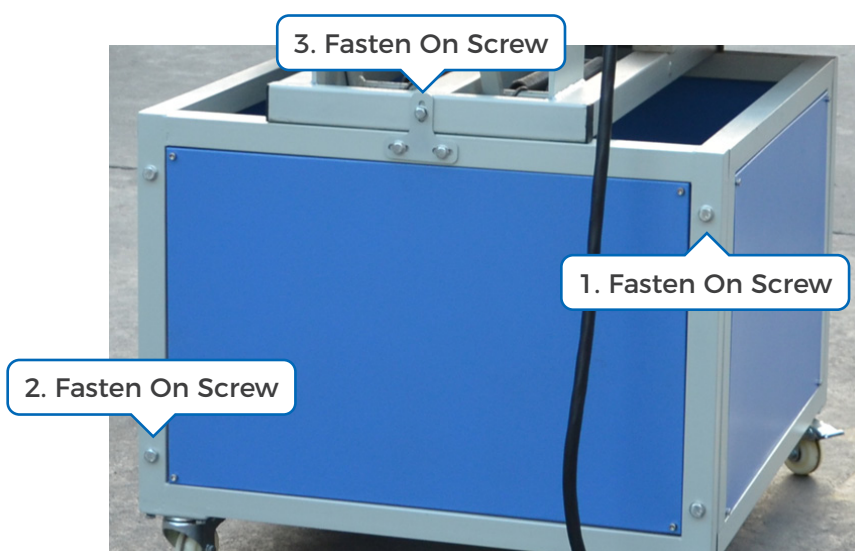


Be aware that the hand protection guard(s) and the housing may also be warm or hot during normal operation.

During the operation of the heat press, and especially during the cycling of the heat press, never put your hand between the lower platen and the heat platen. Furthermore, make sure that no other person or “non-operator” is within proximity of the heat press during operation.

Make sure that the articles to be printed do not have sharp edges, which may damage the lower silicone pad and / or the heat platen. If sharp objects (like zippers) are unavoidable they must be covered by a thin tear- proof and heat resistant material.

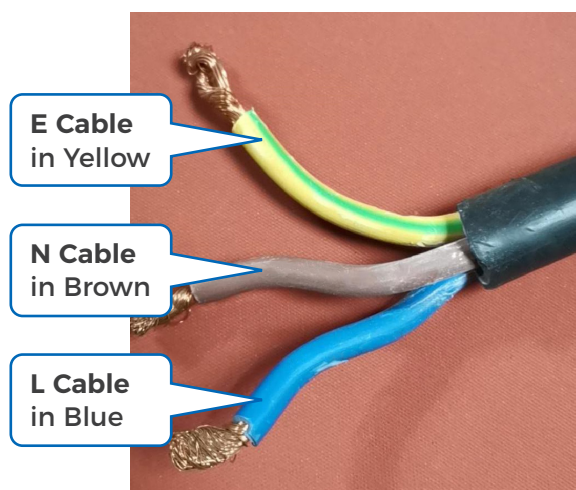
### IV. Machine Stand Assembly Step



### V. Operation

1. Plug the power cord into place.

*(Before using the machine for the first time, please make sure your power voltage is 220V 1P 30A.)*



2. Turn on the power switch.
3. Please check whether the screen display of the machine is Fahrenheit. If it is Celsius, please convert it to Fahrenheit according to the following method. After confirming that Fahrenheit is displayed, preset the needed time and temperature (See the details on the page 9).
4. After setting the temperature and time, waiting for the machine to heat up.

### Warm Tips:

1) The heat-pressing process requires coordination of proper amounts of time, temperature and pressure. The thickness and material of the cloth and the varieties of the sublimation paper all affect the result of the printing. It is suggested to print a sample first before mass production.

2) Temperature and time requirements of different materials: (The following temperatures are only for reference. The specific time, temperature and pressure can be adjusted appropriately according to the product)

**Pure cotton:** 180C° - 220C° (356°F - 428°F), 25sec

**Polyester:** 180C° (356°F), 15sec

**Pearl board:** 180C° (356°F), 120-180sec

**Metal pendant:** 180C° (356°F), 60sec

**Mouse pad:** 180C° (356°F), 15sec

**Vitrolite:** 220C° (428°F), 180sec

**Key ring pendant:** 180C° (356°F), 100sec

**Ceramics:** 180C° - 220C° (356°F - 428°F), 180sec

5. Heating indicator light is off when temp, heat done. and in constant temp, you need to get things prepared which need to be printed.
6. Put the substrate on the silicon pad.
7. Push down the handle to flatten the substrate first, and then put on transfer paper and high temp-resistance cloth, then push the handle again, the heat-pressing process will begin.
8. When the process is over, the buzzer will go off.
9. Take out the substrate. If the sublimating paper requires to be removed at lower

temperature, please remove it after 5 to 10 seconds, if not, please remove it as soon as the process is done.

## VI. Pressure, Time, Temperature Adjustment

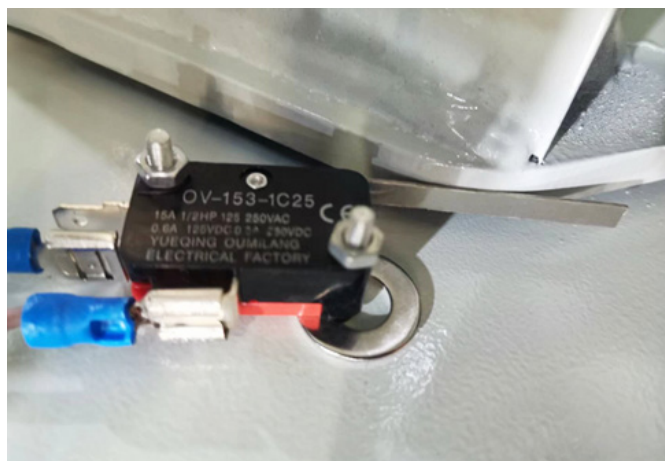
**Pressure:** If the pressure is not enough or too much, you can adjust the pentagram-shaped pressure control knob, located on the top of the machine, should be set so that the heat head will lock down firmly. Clockwise is for increasing pressure and counter clockwise is for decreasing pressure.



**NOTE:** Adjustments may be required from one garment to another and will vary to achieve the desired result.

**WARNING:** Excessive pressure can cause structural damage, voiding the machine warranty!

**Time:** If the transfer time is up, but the buzzer does not ring or stop ring, you need to check the micro-switches point of contact inside the tail box to see if it is moderate. If not, it should be adjusted to the appropriate position.

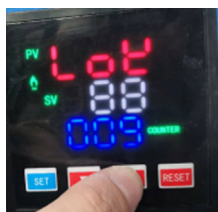




## Method for converting degrees Celsius to degrees Fahrenheit



Press and hold the setting key "SET" for 3 seconds



Enter the setting page and press the ▲ key to adjust it to 88



The interface displays 88, and then press the setting key "SET" until the interface displays CF



On the CF interface, the display shows 0°C



Press ▲ key once, and the screen will display as shown in the figure. At this time, it will display °F in the upper right corner of 1



Finally, press the setting key "SET" for 2-3 seconds and confirm. At this time, the Fahrenheit has been set

## Setting method of temperature and time

**Temperature:** When the time is up, the pointer of the thermostat is at the place of zero. (Temperature up to 180°C (356°F) requires about 15 minutes.). If heating plate does not heat, please check the circuit.



## VII. Maintenance

### MONTHLY

Check the surfaces of the rails and guild rails for the trolley to see if there is dirt or debris that needs to be removed. Clean these surfaces if need be with a dry cloth.

### YEARLY

Have a licensed electrician check all the electrical connections inside the main

control box to ensure they are all tight. Check especially the heavy wire connections on the Main Rotary Power Switch, power contactor and the wires on the solidstate heater relays.

### **LUBRICATION**

Every 6 months add one to two drops of 3-in-1 oil (available at hardware stores), to the joints of all moving parts.

#### **Notice:**

Only experienced operator could open the cabinet, be noted following measures;

1. Don't use abrasive cleaner to clean the machine surface.
2. Check the rotation parts regularly and fill high-temperature grease to lubricate the two bearings of heating rollers.
3. Do not wash the machine with water. This can damage the electrical circuits, cause electrical shock or corrosion.
4. During maintenance, don't run the machine.
5. During maintenance, don't change, move and dismantle the safety parts. Make sure the safety parts before using.
6. Cut the power supply before dismantling and assembly.

#### **Cleaning:**

1. To extend the lifetime of the machines, please ensure the machine are clean.
2. Make sure environment clean and keep away from obstacles.

#### **Checking:**

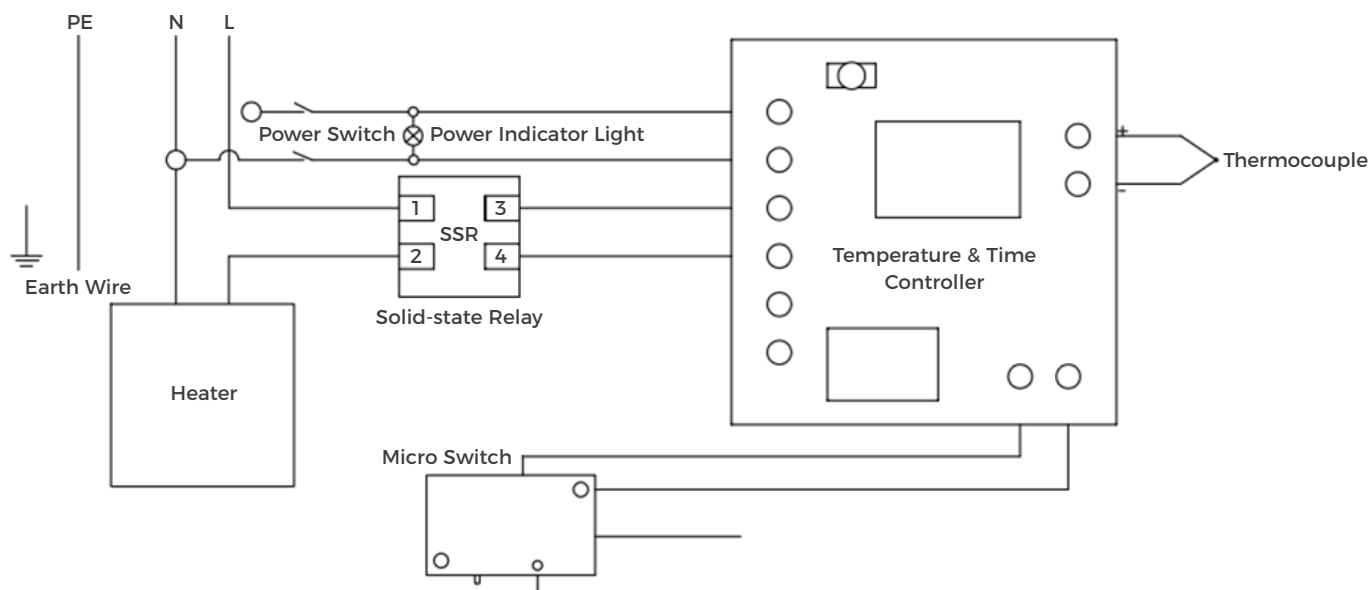
In order to ensure your safety, please check the safety of the machine regularly. If you find failures in the check, please refer to the section of trouble shooting and solution.

#### **Visual Checking: Visual checking prior to maintenance.**

1. Power supply cable undamaged.
2. Foot wheel is stable.
3. Any damage on machine.

## Circuit diagram:

### High Pressure Heat Press Machine



## VIII. Trouble Shooting

Problem	Reason	Resolve	Remark
The image begins to look burnt brown.	Heating time is too long or the temperature is too high.	Decrease pressing time or temperature.	<b>General for heat presses:</b> HTM-DG-MC-US HTM-GSMC-3947-US HTM-SH10120-US HTM-GS-QDD-US
Can not heat, but the temperature controller display normal.	The temperature controller or solid state relay is broken.	Check whether the solid state relay light is bright or not, also check the temperature control meter.	
The image is whitish and transfer is uneven.	Insufficient heating time, temperature and pressure.	Test your machine for accurate heating time, temperature and pressure according to different materials.	
The main power supply is connected, the power button is turned on, but controller display does not light up.	The main power supply voltage does not match the device voltage.	Check the main power supply voltage.	
Heating is uncontrolled all the time.	Solid state relay is broken.	Change the solid state relay.	
The temperature keeps increasing and showing a scramble. The screen display is not full ooo.	The thermocouple wire is broken.	Change the thermocouple wire.	
Time does not count down.	The microswitch (under the electric box back of the machine) did not sense it.	Make sure the microswitch copper and iron plates are next to each other.	<b>Manual heat presses:</b> HTM-DG-MC-US HTM-GSMC-3947-US
Automatic mode does not press down.	Proximity switch did not work.	Adjust the distance between the proximity switch sensor head and the nut within 2mm.	<b>Pneumatic heat presses:</b> HTM-SH10120-US HTM-GS-QDD-US

### WARRANTY CARD

MODEL		LOT #	
BUYER		DATE	
SELLER		TEL	

#### Notes

- i. The warranty card should be filled by seller and kept by buyer. Alterations are prohibited.
- ii. Our main objective is to support all our customers, who can manage their heat transfer activities without interruption. So we offers FREE SPARE PARTS with a quantitative order and the following guarantee:
  - Free lifetime technical support on all heat press machines.
  - One-year warranty.
  - Three-year warranty on the heating plate.
  - Silicone pad and sponge mat are not in warranty.
- iii. No free repair is available for any damages caused by the improper use.