CT-4050 II

Pneumatic Press - User Manual

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Welcome

Congratulations on your new Calortrans CT-4050 II pneumatic heat press.

Thank you for choosing Calortrans. This machine is designed to provide reliable, efficient, and consistent heat-transfer performance for professional use.

Before using the machine, please read this manual carefully. It will help you assemble the press correctly, use it safely, and achieve the best possible results. We wish you many successful projects with your new heat press.

Compressor requirements

- Use oil-free compressor only
- Max. pressure: 8 bar
- Min. tank capacity: 18 liter
- Use clean and dry compressed air for best performance
- Air compressor is not included

Safety instructions

IMPORTANT SAFETY INSTRUCTIONS!
This manual is intended to help you use the Calortrans CT-4050 II safely and correctly. Please read all instructions carefully before operating the machine.

Before use

- Read the entire manual before using the heat press.
- Check the machine for transport damage upon delivery.
- Let the machine acclimatize at room temperature for at least 30 minutes before use to prevent moisture-related issues or short circuits.
- Only place the heat press on a stable, level surface.
- Use the machine only for heat-transfer applications for which it is intended.
- Connect the power cord directly to a wall outlet. Do not use an extension cord.
- The recommended ambient temperature is 15°C to 50°C , with relative humidity up to 70%.
- Before connecting the machine, make sure the power supply matches the machine requirements.
- Do not use the machine if the power cord is damaged.
- In the event of damage or malfunction, do not open the machine. Contact your dealer immediately.
- Keep the machine away from children and unauthorized persons due to the risk of burns and crushing injuries.
- Keep the machine away from moisture, dirt, dust, strong vibrations, and impacts.
- The manufacturer accepts no liability for damage or injury caused by improper use.

During operation

- Work carefully and avoid direct contact with the heated platen.
- Always switch the machine off using the power button. Do not unplug the machine to turn it off.
- Keep hands and other objects away from moving and heated parts during operation.
- Do not touch the upper platen during or immediately after use.
- Make sure the power cable does not touch hot surfaces.
- Never leave the machine unattended while it is switched on.
- Never place liquids on or inside the machine. If liquid enters the machine, switch it off immediately, unplug it, and contact your dealer.

Additional information

- When lifting or moving the machine, hold only the frame. Do not touch the heated platen.
- Before transport, allow the machine to cool down completely.
- If possible, repack the machine in its original packaging for transport.
- Keep the press open while heating up or cooling down.
- Store this manual in a safe place for future reference.

Warning symbols

Warning hot surface!
The upper platen of the transfer press will become hot according to the chosen temperature settings. There is a risk of burns by touching it!

Warning High Voltage!

Warning crushing danger!
During the pressing process, the two plates are pressed together firmly. Before closing the press, remove everything that should not be subject to high pressure (e.g. hands). There is a risk of bruises!

Warning General danger

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Technical Specifications

Technical specifications

Voltage	230V
Power	2000W
Dimensions	780x930x1220mm
Dimensions (plate)	400X500cm
Temperature	up to 220 °C
Timer	1 -999 sec
Pressure	Automatic
Weight	70KG

* Air compressor is not included

In the box

70 kg
Weight

Tools

Tube for compressor

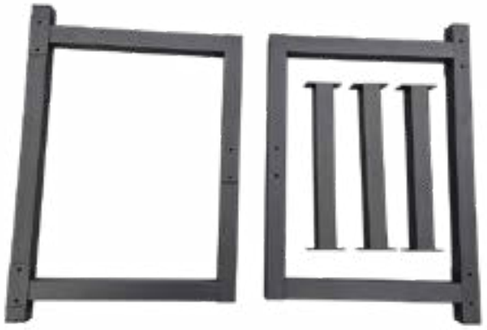

Table legs

Screws

Rings

Screws

Rings

Long screws

Adjustable feet

Wheels

Covers

Covers

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Open box

1. Carefully open the crate using a screwdriver, pliers, or similar tools.
2. Remove the packaging materials with care.
3. Check that all parts are present before starting assembly.

Assemble table

1. Connect the frame sections using the long screws.
2. Place a washer and lock nut on the opposite side of each screw.
3. Use the supplied tools to tighten the screws.
4. A 14/15 mm wrench may be helpful for tightening.
5. Do not fully tighten the screws until all frame sections are assembled.
6. Once the full frame is in place, tighten all screws securely.

Install wheels

1. Turn the table upside down.
2. Locate the four wheel mounting holes at the corners.
3. Fasten the wheels using the supplied short screws.
4. Tighten the screws securely with the small wrench.

Install the adjustable feet

1. Take an adjustable foot and set the threaded shaft to the lower position.
2. Insert the foot into the correct mounting hole.
3. Repeat for the remaining feet.
4. Adjust the feet as needed to level the table.

Mount the Heat Press

70 kilo
Weight

1. Important: The upper assembly is heavy. Always lift it with at least two people.
2. Make sure the blue upper platen is supported before removing the white foam, as it may shift.
3. Align the heat press with the mounting holes in the corners of the table.
4. Insert the top long screw first.
5. Insert the second screw underneath.
6. Tighten both screws securely.

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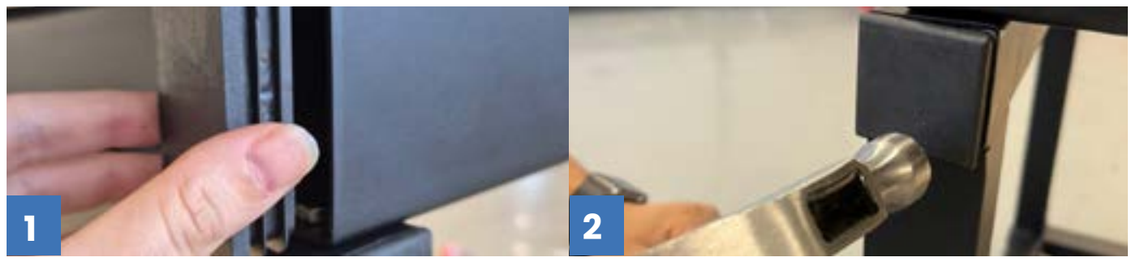
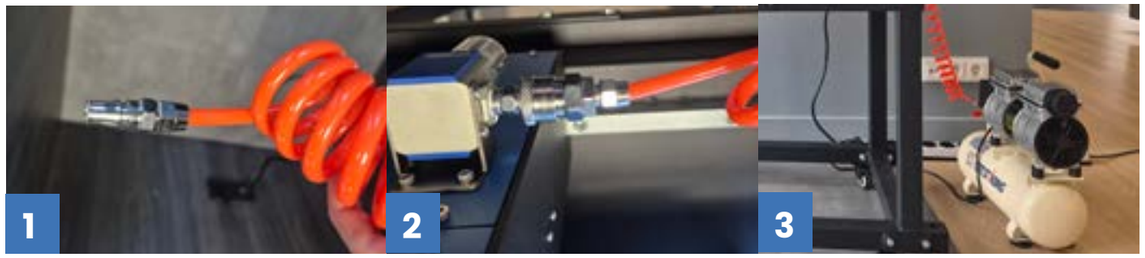
Fit the covers

1. **Take the plastic covers for the mounting holes.**
2. **Place each cover over the correct hole.**
3. **Gently tap each cover into place using a hammer.**



Air compressor

1. Remove all protective plastic from the air hose.
2. Connect one end of the air hose to the air inlet on the back of the heat press.
3. Connect the other end to your air compressor.



Compressor requirements

- Use oil-free compressor only
- Max. pressure: 8 bar
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- Use clean and dry compressed air for best performance
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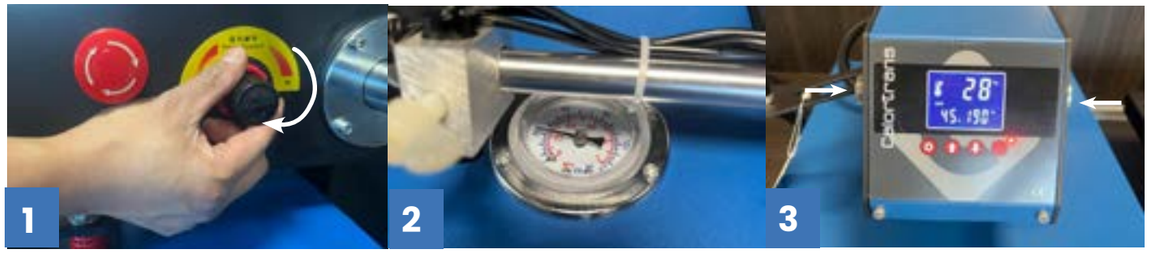
For questions or more information:

Email us via info@calortrans.com

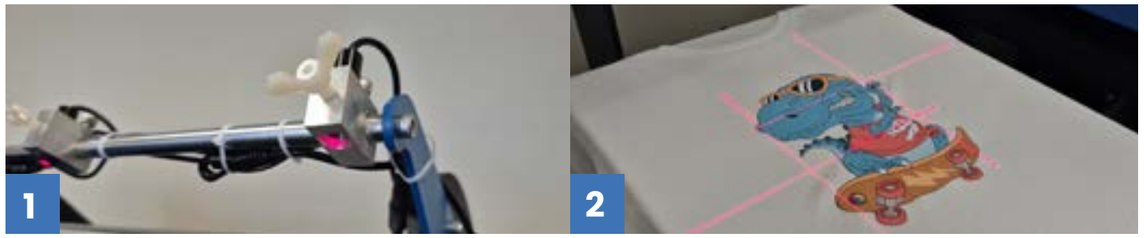
Adjust the pressure

Turn the pressure adjustment knob to increase or decrease the pressure.
The current pressure is shown on the gauge on top of the machine.
For safety, the machine will only operate when both green side buttons are pressed at the same time.



Laser Alignment

1. Connect the laser alignment cable to the correct plug.
2. Use the adjustment knob to position the laser lines according to your design.



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Machine Overview

1. Upper plate

The heated upper plate that applies heat and pressure.

2. Lower plate

The lower work surface that supports the garment or substrate during pressing.

3. Control panel and display

Shows the current temperature, set temperature, and timer.

4. Pressure adjustment knob

Used to increase or decrease the pressing pressure.

5. Pressure gauge

Displays the current pressure setting.

6. Dual safety buttons

Both buttons must be pressed at the same time to start the pressing cycle.

7. Air inlet connection

Connects the machine to the external air compressor.

8. Laser alignment system

Helps position the artwork or transfer accurately.

9. Frame and mounting points

Secure the machine to the stand and provide structural stability.

** Always make sure all parts are properly assembled before use.*

Display Overview

1. Actual Temperature

This value shows the current temperature of the upper platen. Wait until the machine reaches the set temperature before starting.

2. Heating status

This icon indicates that the machine is heating. When the icon disappears, the set temperature has been reached.

3. Timer

This value shows the remaining pressing time. Once the press closes, the timer starts automatically. When the countdown ends, the machine will beep.

4. Set Temperature

This value shows the target temperature.

5. Menu Button

Press and hold this button for **10 seconds** to enter the settings menu. In the menu, you can adjust the time and temperature and reset the piece counter.

6. Value buttons

Use these buttons to increase or decrease the selected value, such as temperature or time.

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Operating instructions

Before use

1. Make sure the machine is properly assembled.
2. Connect the machine to the power supply.
3. Connect the machine to a suitable air compressor.
4. Switch on the machine.
5. Set the required temperature and pressing time.
6. Wait until the machine reaches the set temperature.

Pressing a transfer

1. Place the garment or substrate on the lower platen.
2. Position the transfer material correctly.
3. Use the laser alignment if needed.
4. Make sure the material is flat and properly aligned.
5. Press both green safety buttons at the same time to start the cycle.
6. The press will close automatically and the timer will begin counting down.
7. When the cycle is complete, the machine will beep.
8. Remove the product carefully, as it may still be hot.

After use

1. Switch off the machine using the power button.
2. Leave the press open while cooling down.
3. Allow the machine to cool completely before cleaning, moving, or storing it.

FAQ

My transfer does not stick to the garment. What should I do?

There can be several reasons for this. First, make sure the transfer material is suitable for the garment and that you are using the correct time, temperature, and pressure settings.

Another common cause is uneven pressure. Seams, zippers, buttons, and thick areas may prevent the transfer from receiving enough pressure. In that case, use a Teflon pillow to create a more even pressing surface.

The press leaves a mark on the garment. What should I do?

Depending on the garment, the mark may be temporary and disappear after washing. On some materials, however, the mark may remain visible.

To reduce this risk, use a Teflon sheet to protect the garment and the press. You can also try lowering the temperature and pressure, as long as the transfer material allows it.

How should I prepare my garment?

Pre-pressing the garment is recommended. Press it for about **3 seconds** before applying the transfer. This helps remove wrinkles and moisture from the fabric.

Should I re-press after removing the carrier sheet?

Yes. We recommend pressing the garment once more after removing the carrier sheet. Cover the design with a Teflon cover sheet to protect both the print and the garment.

Why do my sublimation transfers look blurry around the edges?

This is usually caused by insufficient pressure or movement during pressing. Sublimation ink turns into gas during transfer. If the pressure is too low, the ink can spread beyond the design area, causing a blurry or shadowed edge.

Increase the pressure and make sure the substrate does not move during pressing.

Something is wrong with my Calortrans heat press and I need help.

If you experience a problem with your press, please contact your dealer. Your dealer can help you with troubleshooting, service, and support.

Support:

If you need technical assistance, spare parts, or service support, please contact your Calortrans dealer.

For more information, visit: www.calortrans.com

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Certification

This product is RoHS certified

This product complies with the Restriction of Hazardous Substances (RoHS) requirements.

This product is CE certified

This product carries the CE mark and complies with the applicable European health, safety, and environmental requirements

For official compliance documents, please contact Calortrans or your dealer.