

TITAN

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Model: T1620/24-AEL2-D
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T1620/24-AEL2-D Series User Manual

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Overview

1.1 Equipment Overview

Thank you very much for choosing our electric dual-station T1620/24-AEL2-D series heat press machine and supporting equipment!

Please read this manual carefully before use to ensure proper operation.

Keep this manual in a safe place for future reference.

Please note that due to different configurations, some machines may not include all the functions listed in this book; the specific functions of your model shall prevail.

1.2 Safety Precautions

NOTICE



The manufacturer is not responsible for damage, injury, production loss, or other losses caused by improper operation, unauthorized modification, incorrect installation, incompatible parts, or service by unqualified personnel.

1.3 Operating Environment

- Indoor, dry, clean, and well-ventilated location.
- Storage Temperature: 0–50°C (32–122°F).
- Operating Temperature: 5–40°C (41–104°F).
- Operating Relative Humidity: 30%–90% (non-condensing).
- Stable, level, heat-resistant work surface.
- Keep away from water, excessive dust, corrosive gases, flammable materials, and explosive vapors.

1.4 Grounding & Technical Parameters

1.4-1 Grounding Requirements:

To prevent electric shock or fire caused by leakage, overvoltage, or insulation failure, please ensure the equipment is reliably grounded.

1.4-2 Technical Parameters:

MODEL NO.	T1620-AEL2-D	T1624-AEL2-D
Controller	GY-13	GY-13
Amp\Voltage\Power\phase	14.2A\120V\1700W, 60HZ	14.2A\120V\1700W, 60HZ
Time Range(S)	0~999	0~999
Temperature Range(°F)	32~446	32~446
Heating plate size (Inch)	15.7*19.6	15.7*23.6

Appearance and Functions

2.1 Exterior View

(Please refer to the images in your original document for labels 1 through 16.)





2.2 Component Names and Functions

- 1. HMI:** Human-Machine Interface (Touchscreen Control Panel).
- 2. Station Shuttle Button:** In Semi-Auto mode, press this button once to shift the heat platen to the left or right station.
- 3. Toggle Switch:** Switches between the two operating modes: Semi-Automatic and Automatic.
- 4. Emergency Stop (E-Stop):** Press this button at any time during the pressing cycle or while the platen is moving down. The heat platen will immediately release, raise up, and stop the process.
- 5 & 6. Dual Start Buttons:** In Semi-Auto mode, press both the left and right green buttons simultaneously to lower the heat platen and initiate the press cycle.
- 7. Laser Alignment Mounts:** Used for installing left/right laser alignment accessories or a projector system.
- 8. Anti-Pinch Safety Device (Blue-rimmed movable safety bar around the heat platen):** If this bar makes contact with hands, fingers, or any obstruction while the platen is moving down, the press cycle aborts instantly and the platen retracts upward.
- 9. Material Shelves:** Built-in side racks to store and organize transfer materials.
- 10. Main Power Cord:** Provides power to the entire machine (excluding optional alignment projector).
- 11. Electrical Control Box:** Contains internal electrical components that control machine logic and movement. Do not open without authorization.
- 12. Infrared Switch:** Switches the infrared positioning lasers ON or OFF.
- 13. Heating Plate Power Plug:** Heavy-duty power plug for fast connection/disconnection of the heat platen.
- 14. Main Power Switch:** Powers the machine ON or OFF.
- 15. Heat Platen:** The heating element where target temperature settings are applied.
- 16. Lower Platen Assembly:** Equipped with pressure sensors on the bottom left and right sides to accurately monitor and control downward pressing force.

2.3 Operation Guide

Operating Steps:

1. Plug the machine into a power outlet that matches its voltage requirements (e.g., AC 220V) and flip the Main Power Switch [14] to ON.

2. Place your garment and transfer film onto the target lower platen station.

3.1 Turn the Toggle Switch [3] to the left to select Semi-Auto mode;

● Once the platen reaches your set target temperature, tap the Station Shuttle Button [2] to slide the heat platen over to the loaded station.

● Press both the left [12] and right [6] Start Buttons simultaneously with both hands. The platen will lower and start the timer. Once the countdown finishes, the platen automatically rises up to complete the press.

● Repeat step 3.1 to cycle production continuously back and forth between the two stations.

3.2 Turn the Toggle Switch [3] to the right to select Auto mode;

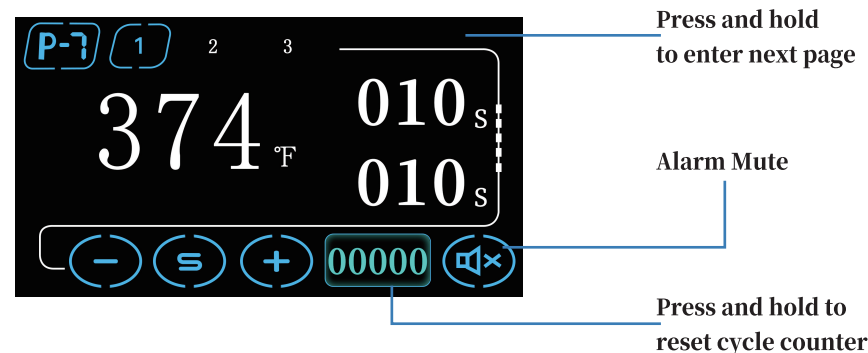
3.2.1 Once the platen reaches your set target temperature, press both Start Buttons. The platen will automatically shuttle over to the target station, lower, and press. When the timer hits zero, it automatically releases and rises back up, completing that station.

3.2.2 The platen will then automatically shuttle to the opposite station and repeat step 3.2.1 on its own, running a continuous automated loop between both stations.

4. If you need to abort at any point during the countdown in either mode (3.1 or 3.2), hit the Emergency Stop and the platen will retract upward immediately.

2.4 Parameter Settings

2.4.1 Tap touchscreen keys “1/2/3” on the main interface to switch between three sets of memory preset values; selected values are outlined with an outer border.



2.4.2 Setting Adjustment Guide:

● Tap the "S" key on the main screen to set the target down-pressure value shown in the top-left corner (adjustable from 0 to 8). The example image displays a set pressure value of "P-0".

● Tap the "S" key again; the temperature unit (°C or °F) will begin to flash. Use the "- / +" keys to adjust your target temperature (Celsius range: 0–230°C, Fahrenheit range: 32–446°F).

● Tap the "S" key again; the first time display unit (S) will flash. Use the "- / +" keys to adjust the time value (adjustable from 0 to 999 seconds).

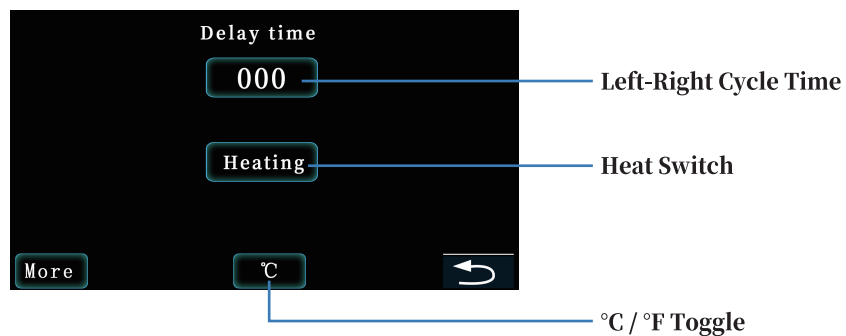
● Tap the "S" key again; the second time display unit (S) will flash. Use the "- / +" keys to adjust the value (adjustable from 0 to 999 seconds).

● Tap the "S" key one last time to exit settings.

● Note: Every time you finish adjusting a value, it automatically saves to whichever memory preset slot ([1], [2], or [3]) is currently highlighted on screen.

● The heat platen must be fully raised to its upper home position, and you must press and hold the "SET" key for over 3 seconds to enter configuration mode. The system will automatically time out and exit settings if left idle for more than 10 seconds.

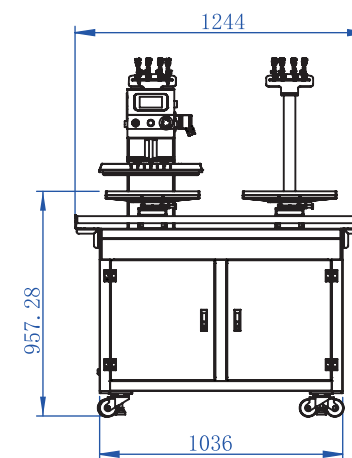
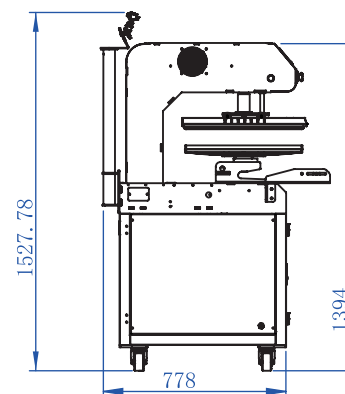
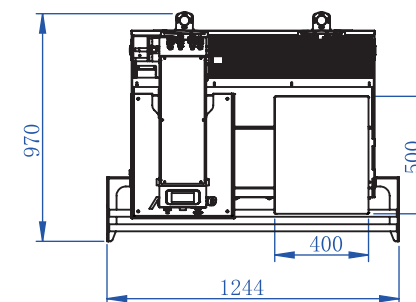
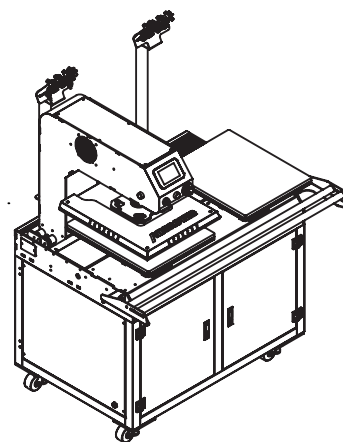
Next Screen Menu Interface:



For additional operational guidance or advanced settings, please contact your equipment supplier. Thank you!

2.5 Equipment external dimensions

(Refer to the technical drawings in your original document for specific measurements.)



Troubleshooting

3.1 The equipment will not turn on (No Power):

- A. Double-check the main power plug to ensure it is fully and securely seated in the outlet.
- B. Check if the **Main Power Switch [14]** is toggled to the ON position.
- C. Unplug the power cord entirely, open the electrical box panel, and check if the circuit breaker/fuse has tripped or popped up.

3.2 The equipment has power but will not cycle/start:

- A. Look at the HMI touchscreen to see if there are any active error codes or system alarm warnings displayed.
- B. Inspect both physical **Start Buttons [6] and [12]** to ensure they are working and not mechanically stuck.

Circuit Diagram

(Refer to your original document for the diagram layout.)

