



VECTOR

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Model: VBall Series

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VBall Series User Manual

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Overview

1.1 Equipment Overview

Thank you very much for choosing our manual VBall series heat press machine! Please read this instruction manual carefully before use to ensure correct operation. Please keep this manual in a safe place for future reference. Due to different product configurations, some machines may not feature all the functions listed in this manual; please refer to your specific model's actual functions for details.

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
- Operating / Storage Temperature: 41°F–104°F
- 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:

Specification	Detail
Model No.	VBal
Controller	GY-06N
Amp \ Voltage \ Power \ Phase	120V \ 3.5A \ 400W \ Phase
Time Range (S)	0 ~ 999
Temperature Range (°F)	0 ~ 446

Appearance and Functions

2.1 Exterior View

(Please refer to the images in your original document for labels 1 through 5.)



2.2 Component Names and Functions

1. **GY-06N Control Panel:** Controls machine heating and the transfer process.
2. **Power Switch:** Turns the machine power on and off.
3. **Power Cord Socket:** Power input socket equipped with a built-in fuse.
4. **Power Cord:** Supplies electrical power to the entire machine.
5. **Emergency Stop Switch:** Pressing this switch during the transfer process causes the heating plate to open upward, immediately halting the operation.

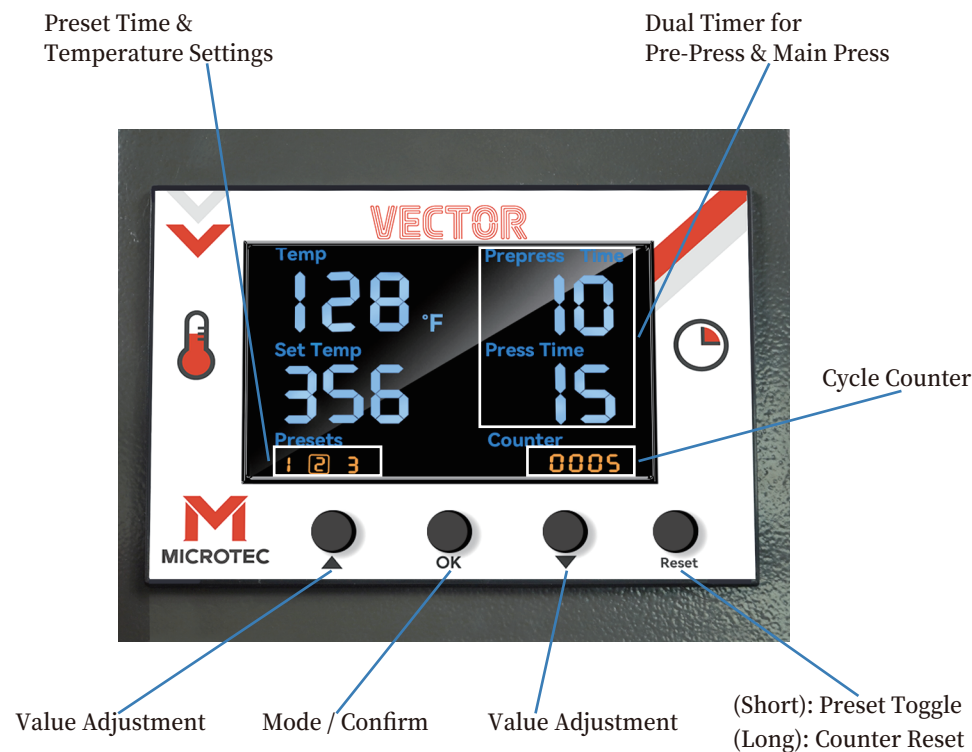
2.3 Operation

Operating Steps:

1. Following the machine's voltage requirements, plug in the AC 120V power cord [4] and turn on the power switch [2];
2. Securely apply the transfer paper onto the ball intended for printing;
3. When the heating plate reaches the set temperature for the first time, a "BB" beep will sound. Center the ball inside the base plate, use both hands on the handle to press down and close the heating plate, and activate the control panel to initiate the transfer process:
 - The buzzer will beep once ("B"), and the **"Prepress Time"** countdown will begin. When the countdown reaches 0, the buzzer sounds, the countdown ends, and the heating plate opens automatically to complete the transfer. The cycle counter in the lower-right corner does not increment during this step.
 - Place a new ball onto the base plate, use both hands to close the heating plate, and the buzzer will beep once ("B") as the **"Press Time"** countdown begins. When the countdown reaches 0, the buzzer sounds, the countdown ends, and the heating plate opens automatically to complete the transfer. The counter in the lower-right corner increments by 1 (e.g., changes to 0001).
 - These two countdown timers cycle sequentially; you can set "Prepress Time" to 0 to only use "Press Time";
4. From the main interface, press and hold the **"RESET"** key for 2 seconds until "Counter" flashes. After 5 seconds, the current count value resets to 0000.

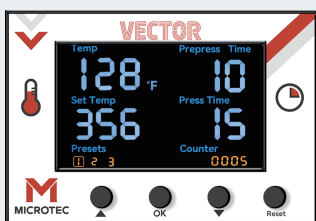
2.4 GY-06N LCD Digital Controller

(Refer to the interface diagram for layout details, including Preset Settings, Dual Timers, and Cycle Counter)

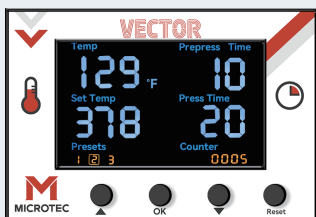


2.5 GY-06N Temperature Controller Instructions

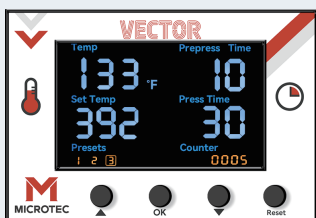
2.5.1 Selecting Presets: On the main interface, tap the **RESET** key to toggle between memory presets **[1]** , **[2]** , and **[3]** . The selected preset will be outlined on the display. The screen will show the set temperature and time for that preset, while "Temp" shows the actual current temperature.



The image below shows that Preset **[1]** is selected; it displays the set temperature and time for the current memory group, while "Temp" indicates the actual current temperature value.



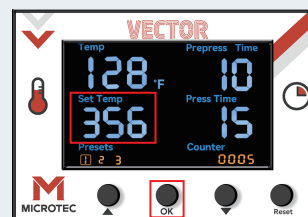
The image below shows that Preset **[2]** is selected; it displays the set temperature and time for the current memory group, while "Temp" indicates the actual current temperature value.



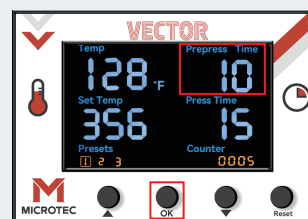
The image below shows that Preset **[3]** is selected; it displays the set temperature and time for the current memory group, while "Temp" indicates the actual current temperature value.

2.5.2 Adjusting Settings

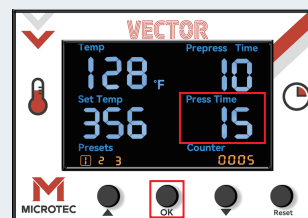
Once a preset is selected, follow these steps to customize the temperature and time:



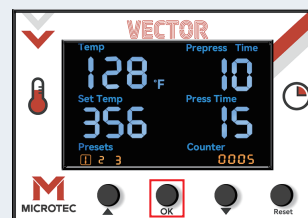
1.Adjusting Temperature: Tap **OK**; the "Set Temp" for the current preset will flash. Use the ▲ and ▼ keys to adjust the value.



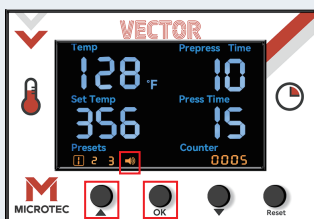
2.Adjusting Prepress Time: Tap **OK** again to select "Prepress Time". Use ▲ and ▼ to adjust.



3.Adjusting Press Time: Tap **OK** a third time to select "Press Time". Use ▲ and ▼ to adjust.



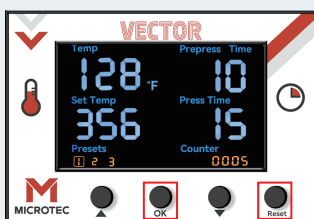
4.Saving Changes: Tap **OK** once more to save the settings for the preset and begin execution. Note: If you modify values during active operation without entering the full menu, it may not permanently overwrite the stored preset value.



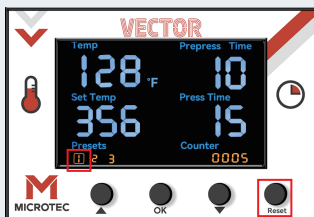
5. Speaker/Buzzer Settings: From the main interface, press and hold ▲ + OK simultaneously for 3 seconds to toggle the speaker icon. The default setting is OFF.

○ **Icon ON:** The buzzer sounds 3 seconds before the countdown ends and continues until the press is opened.

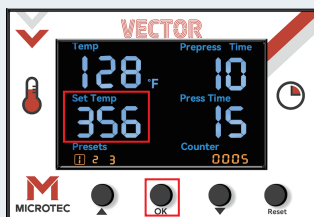
○ **Icon OFF:** The buzzer sounds exactly at 0



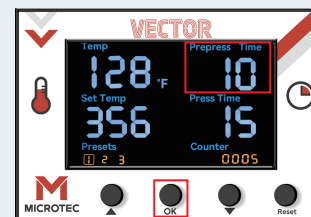
6. Preset Menu Access: Press and hold OK + RESET for 3 seconds to enter the settings menu for presets [1], [2], and [3].



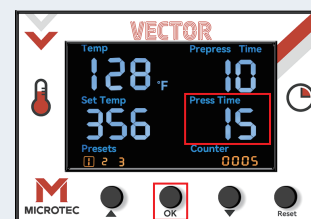
7. Switching Presets in Menu: While a preset number (e.g., [1]) is flashing, tap RESET to switch between [1], [2], and [3].



8. When the preset [1] icon is flashing : Tap the OK key to make the "Set Temp" value for preset [1] flash, then tap the ▲ and ▼ keys to adjust the value.

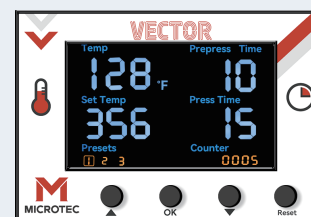


9. Tap the OK key again to set the "Prepress Time" for preset [1]. Tap the ▲ and ▼ keys to adjust the value.



10. Tap the OK key again to set the "Press Time" for preset [1]. Tap the ▲ and ▼ keys to adjust the value. At this point, if you tap the OK key again, the changes to the values for preset [1] will be saved and you will exit the menu.

Note: The operation methods for [1], [2], and [3] are consistent with the descriptions above.



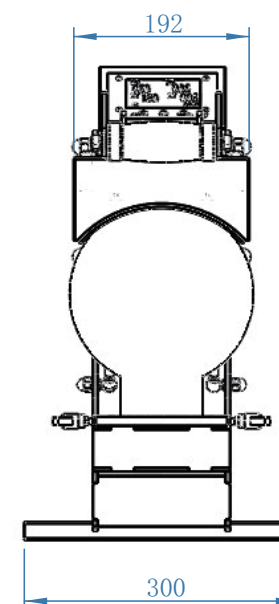
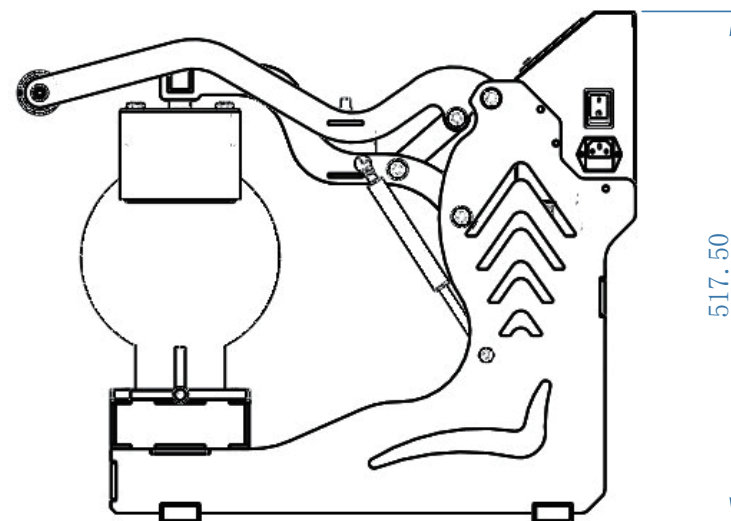
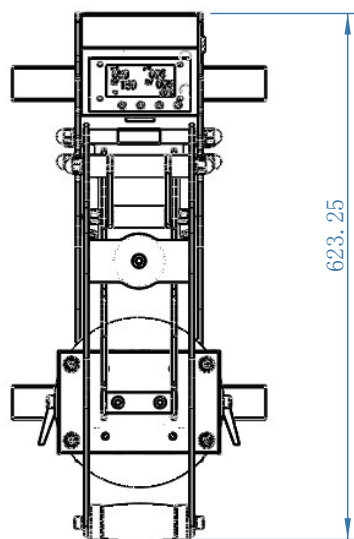
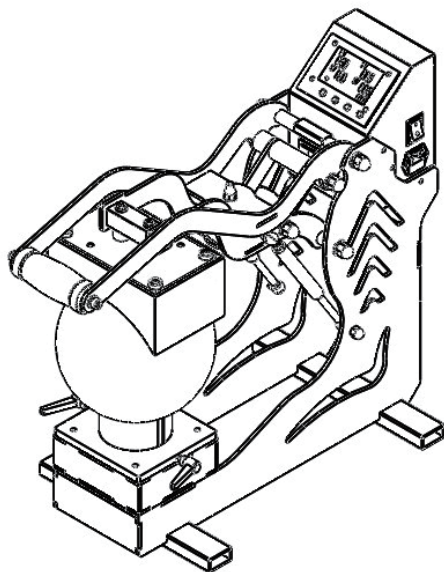
11. Adjustment Ranges:

- **Prepress Time:** 0 ~ 999 seconds.
- **Press Time:** 0 ~ 999 seconds.
- **Temperature:** 0 ~ 446 °F.

● **For further instructions, please contact your supplier.**

2.6 Equipment external dimensions

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



Circuit Diagram

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

