

ORTHO CARE Vac#1

Instructions for use manual



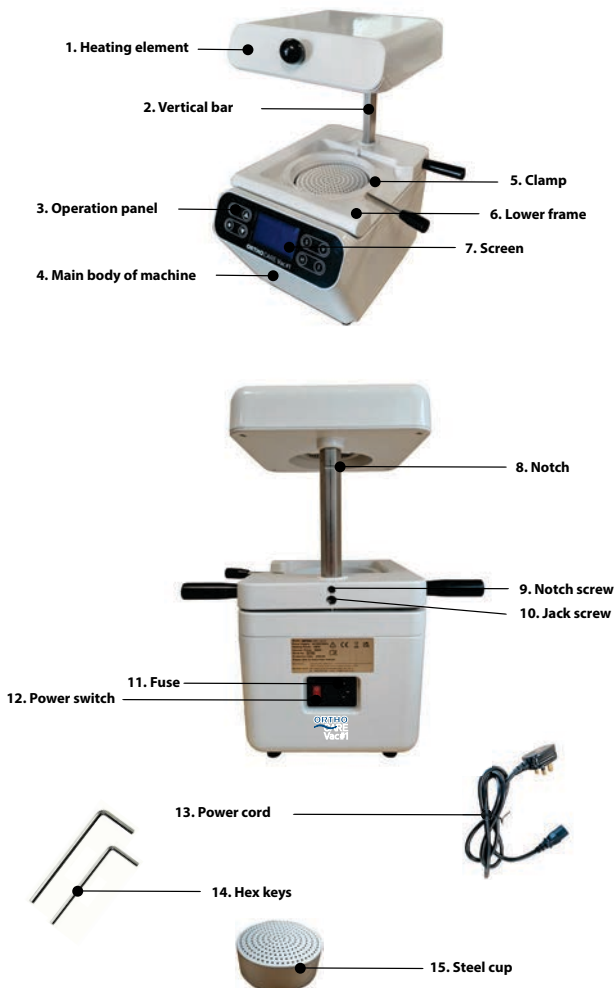
Instructions For Use (IFU) Ortho-Care Vac#1

Machine Description and Intended Use:

This vacuum forming machine is intended for vacuum forming plastic material for use as aligners, retainers and similar devices. The machine is intended to be operated by trained laboratory staff.

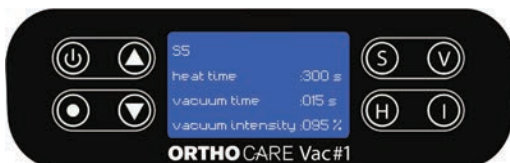
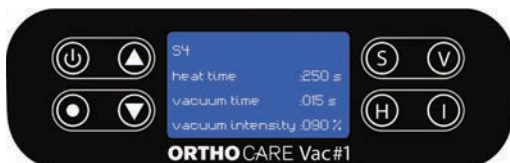
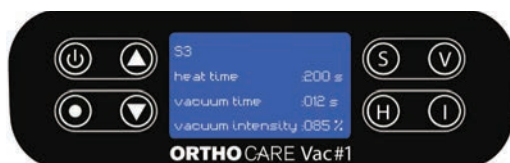
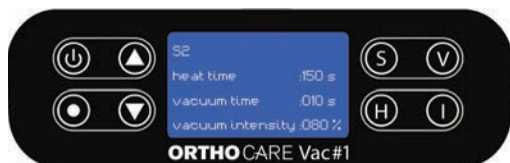
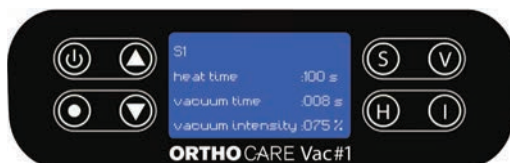
REF	Description (Trade names)
9001-100	Ortho-Care Vac#1

Contents of Box:





Installation and Setup:

- **Unpacking:**
 - o Carefully remove the machine from its packaging.
 - o Check for any visible damage. If any damage is found, do not use the machine and contact Ortho-Care (UK) Ltd.
 - o Ensure all accessories are included (e.g., power cable, user manual).
- **Placement:**
 - o Place the machine on a stable and flat surface.
 - o Ensure there is sufficient space around the machine for ventilation on all sides.
 - o Place away from bright light, so the screen can be easily read.
- **Connecting Power:**
 - o Ensure the power switch at the back of the machine is in the OFF position.
 - o Connect the power cable to the machine and plug it into a plug socket.



Operation:

- **Turning On/Off:**
 - To turn on the machine, press the power switch at the back of the machine to the ON position, then press the power button on the screen to turn the screen on.
 - To turn off the machine, press the  power button on the screen to turn the screen off, then press the  power switch at the back of the machine to the OFF position.

- **Using the Controls:**

- Refer to the control panel diagrams to see all the built in preset options.

The Ortho-Care Vac#1 has 5 available presets: **S1, S2, S3, S4** and **S5**.

- By default, the machine has pre-saved settings for each preset. It is possible to adjust these settings for a personalised experience based on user preferences and save these adjustments.

Recommended guidelines for plastics

Type	Heat time	Vac time	Intensity
Essix Ace 040	60s	10s	75%
Essix Ace 030	50s	10s	85%
Essix Plus 040	80s	10s	75%
Essix Retainer 040	60s	10s	75%
Excel 040	60s	10s	75%
Zendura 1mm	80s	10s	85%
Zendura FLX .76mm	60s	10s	85%
Zendura .76mm	70s	10s	85%

- **Adjustments and Settings:**

Press **S** to cycle through the 5 different presets. Any of the presets can be adjusted and saved.

Press **V** to select vacuuming time. The button will be lit with a blue light when selected.

- Vacuuming time can be adjusted from 1 second to 99 seconds using the up and down arrows.
- Press **V** again to confirm the desired time, the blue light will turn off.

Press **H** to select heating time. The button will be lit with a blue light when selected.

- Heating time can be adjusted from 1 second to 300 seconds using the up and down arrows.
- Press **H** again to confirm the desired time, the blue light will turn off.

Press **I** to select the vacuum intensity %. The button will be lit with a blue light when selected.

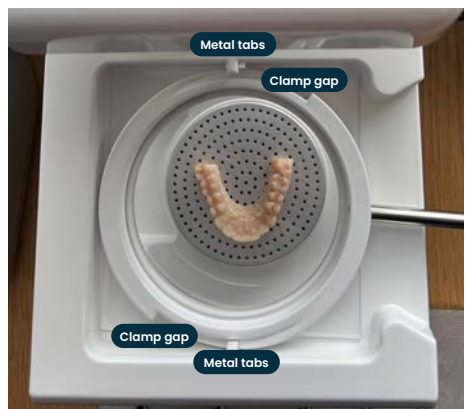
- o The vacuum intensity % can be adjusted from 75% to 100% using the up and down arrows.
- o Press **I** again to confirm the desired time, the blue light will turn off. To save a desired setting, after the blue light has turned off, press the up and down arrows together for 3 seconds. The machine will emit a “beep” which indicates that the setting has been saved.

Operation Instructions:

- 1 Place the upturned steel cup into the base of the machine and place the model in the centre.




- 2 Place a round or square vacuum forming plastic into the frame. Hold the plastic in place using the circular clamp. Align the gaps in the clamp with the metal tabs in the frame. Turn the clamp clockwise to lock the clamp over the plastic. Lift the frame to the top of the bar, so it sits in the notch on the back of the vertical bar.



N.B. Failing to lift the frame when preparing to heat the plastic will result in “warning” appearing on the screen. The heating element will not activate unless the frame is lifted.



Press the circle  start/stop button below the  power button to begin. The heating element will become hot very quickly, and will emit an orange glow.

- a. When the heating time has 5 seconds remaining, the machine will “beep” – pull the frame down over the model and the vacuum will begin automatically and stop after the set time. The heat will automatically turn off when the vacuum turns on. The screen will show the timer counting down for each stage of the process.
- b. It is possible to begin the vacuuming process early by pulling down the frame at any time after the heating process has started. As a visual aid, the thermoplastic blank will start to sag in the middle, when it is ready for vacuum forming.



N.B. Take care when removing the formed plastic as the clamp, frame and plastic will be hot after the vacuum has finished.



Operational Note:

- The Ortho-Care Vac#1 is for indoor use only.
- Pay attention to the top section of the machine, extended use will cause high temperatures.
- If the machine has been used for an extended period, the built-in temperature control mechanism will begin to protect the machine. The words “temperature limit” will be displayed on the screen. The temperature limiting system will disconnect the circuit internally, and the machine will stop working for a short period of time. The machine will continue to work once the words “temperature limit” disappear from the screen and the machine’s temperature decreases.

- Only use the power cord that is included with the machine.
- Ensure the machine is on a flat and stable surface and avoid vibrations during use.
- Do not place near flammable substances.
- Use in a cool and dry place.
- Keep the vertical bar clean to avoid blocking frame movement.

Problems	Causes	Solutions
Pressing the power switch on the screen does not cause the blue light to turn on.	The power cord is disconnected from the power source.	Inspect and connect the power cord.
	The fuse is broken.	Inspect and/or change the fuse.
	Power switch failure.	Send for repair.
Machine does not heat up.	The heater is broken, or the wire is disconnected.	Send for repair.
	Temperature limiting system is broken.	Send for repair.
Machine's vacuum does not work.	Vacuum motor overheat protection.	Operate again after the motor cools down.
	Vacuum motor is broken.	Send for repair.
	Switch fault.	Send for repair.
Frame cannot move freely or frame slips.	Not enough lubricant/too much lubricant.	Lubricate the vertical bar with a handpiece lubricant/ wipe off excess lubricant.
	Adjustment of jack screw is not correct.	Adjust the jack screw using the hex key provided.
	Adjustment of notch screw is not correct.	Adjust the notch screw using the hex key provided.
Light in rear power switch is off.	Power not connected.	Connect to power.
	Fuse is blown.	Change fuse.

Maintenance and Care:

- **Cleaning:**
 - Disconnect the machine from the power supply before cleaning.
 - Use a soft, dry cloth to clean the exterior of the machine.
 - Do not use liquid cleaners or aerosol sprays. Use a neutral detergent to wipe.
 - Do not use organic solvents for wiping.
- **Inspection:**
 - Regularly check the power cable and plug for signs of damage.
 - Inspect the machine for any signs of wear or malfunction.
 - Use caution when inspecting the heating element.
- **Warranty:**
 - The Ortho-Care Vac#1 has a warranty period of 12 months from the date of sale of goods.
- **Servicing:**
 - Do not attempt to service this machine yourself.
 - Contact Ortho-Care (UK) Ltd for repair or maintenance.

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Technical Specification

Power Input	AC 230V
Frequency	50Hz
Fuse	250V8A
Vacuum Power	900W
Heating Power	600W
Heating Element	Carbon fibre wire, quartz glass
Dimensions of machine	260 depth x 315 width x 380 height mm
Net Weight	~7kg
Shipping and Storage Temperature	-40°C to 70°C
Air Pressure	500mbar to 1060mbar
Relative Humidity	No more than 95%

Other Information and Symbols related to Instructions for Use:

