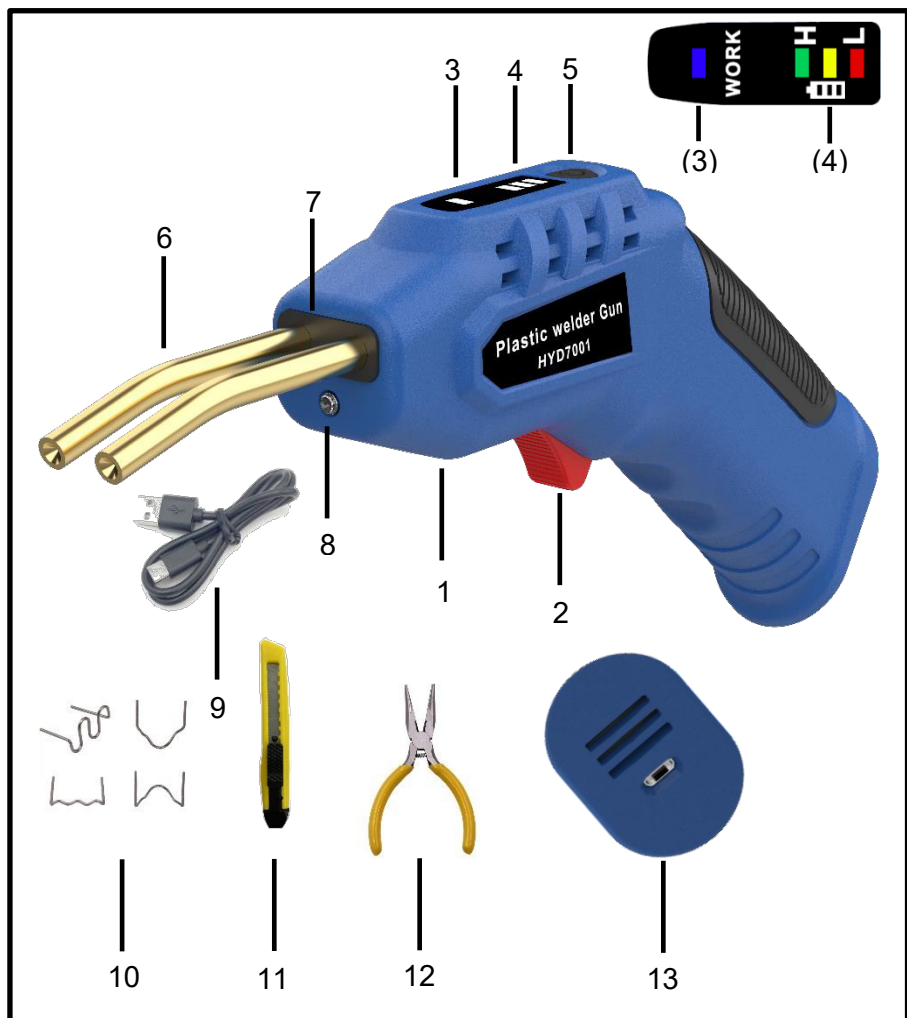


4V DC Cordless Plastic Welding Machine User Manual and Safety Instructions



Please read this information before using this product.
Otherwise, serious injury may result.Keep this manual properly.



4V DC Cordless Plastic Welding Machine

Thank you for purchasing this product. By doing so, you now have an excellent product from one of Europe's leading suppliers. All products delivered to you are manufactured to the highest performance and safety standards. As part of our philosophy, we also provide exceptional customer service and offer a full warranty. We hope you will enjoy using this product for many years to come.

1. Safety Information



Read the accompanying safety warnings, additional safety warnings, and instructions. Failure to follow safety warnings and instructions may result in electric shock, fire and/or serious injury. Save security warnings and instructions for future reference.

The following symbols are used on the user manual or product	
	Read the user manual.
	Failure to follow the instructions in this manual may result in personal injury, loss of life, or tool damage.
	Voltage and shock warning.
	Class III appliance.
	Note: High temperature on surface, easy to be burned.
	Wear safety goggles.
	Don't throw the battery into fire.
	Don't throw battery into water.
	Don't place machine in the unsuitable containers.
	Lithium-ion batteries are required special sorting and collection.
	The product complies with the safety standards applicable of the European Directive.

General Safety Warnings



Warning!
Read all safety warnings and instructions. Failure to comply with warnings and instructions may result in electrocution, fire and/or serious injury

Save all warnings and instructions for future reference.





1. Use and Maintenance for tools with battery

- a. Batteries must be charged by the charger specified of manufacturer. Non-designated chargers may pose a fire risk.
- b. This tool should only be used with specially designated battery packs. Using any other battery pack may pose a personal injury and fire risk.
- c. When the battery pack is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails, screws, or other small metal objects that can connect one terminal to another. Short-connecting battery terminals may cause burns or fire.
- d. Under harsh conditions, liquid may eject from the battery; You need to avoid contact with this liquids. In case of accidental contact, rinse liquid with water. If fluids come into contact with your eyes, seek additional medical help. The liquid ejected from the battery may cause irritation or burns.
- e. Do not use damaged or modified battery packs or tools. Damaged or modified storage batteries may exhibit unpredictable results, which may result in the risk of fire, explosion or injury.
- f. Do not expose the battery and tool to fire or high temperature. Exposure to fire or temperatures above 130 °C may cause an explosion. Note: The temperature "130 °C" can be replaced by the temperature "265 °F".
- g. Follow all charging instructions and do not charge a battery pack or tool out of the temperature range specified in the instructions. Improper charging or temperatures out of the specified range may damage the battery and increase the risk of fire.

2. Service

- a. Only qualified maintenance person are allowed to use the right parts to repair power tools. This will ensure the safety of power tools.
- b. Do not repair the damaged battery string. Battery packs can only be repaired by the manufacturer or authorized service provider.
- c. The integrated battery can only be removed by professionals.

Pecial safety instructions for plastic welding machine

	Fire danger! When hold the welding machine ,make ensure its hot part does not touch any flammable materials. Do not leave the machine unattended when it is heated. Let it be cool before storage.
	The temperature of heated nails is about 500 °C. Touch the nails will result in serious burns.
	Because of the potential fire hazard. This machien must always be placed on a non-combustible surface when it is not in use.
	Warning! When not be in use, machine must be properly stored.

•Children over 8 years of age , persons with reduced physical, sensory or mental abilities ,persons who are lack of experience and knowledge may use the machine,but must under the supervision and guidance of a professional and fully aware of the dangers of the machine.

•Children are not allowed to use this machine alone.

•Children are not allowed to clean and maintain the product without supervision.

- Harmful fumes are generated during welding. Ensure good ventilation or proper exhaust.
- When using the machine, it is necessary to wear goggles to protect the eyes, wear suitable work clothes to protect the body, and prevent solder splashes and corrosive fumes.
- The machine must not be used to heat liquids or plastics.
- Do not leave the device unattended when it is turned on.
- Only market-qualified chargers can be used to charge this machine
- Do not point the nails of the plastic welding machine directly at people and animals。
- Do not use this machine near combustible materials or flammable gases.
- When the welding machine is in use or just after use, do not touch the nails. Handle of welding machine must be kept dry.
- The welding machine should be completely cooled before storage

2. PRODUCT INFORMATION

Usage

This Dc cordless welding machine is mainly used to repair plastic products. Use the welding nails to repair the horizontal, vertical, and other kind's cracks.

Technical Parameters

Model	HYD7001.4
Rated Voltage	4VDC Li-ion
Power output	50W(Max)
Current output	15A(Max)
Capacity of battery	4000mAh
Class of insulation	III
Class of protection	IP20
Preheating time	5 seconds
Temperature(I/II/III)	400°C (Max) / 500°C(Max) / 600°C (Max)
Automatic shutdown	10 minutes without operation

Recommended USB charger adapter

Rated output	USB 5VDC
Recommended output current	≥2000mA

Temperature Operating and storage temperature:

Temperature of charging	0~+45°C
Temperature of operation	-20~+60°C
Temperature of storage	-5~+35°C

Product Description

The figures correspond to the chart on page 2

1. Housing of machine
2. Heating switch
3. LED working indicator (blue)
4. LED power indicator (red, yellow, green)
5. Power supply switch
6. Heating support bracket
7. Heat insulating block
8. LED lighting lamp
9. Charging cable
10. Welding nails
11. Utility knife
12. Metal plier
13. Charging port

3. Installation of components

Install/replace the welding nails



Before initial use, welding nails must be installed on the heating bracket



Make sure the welding machine heating switch is off.

- **Install the welding nails:** Hold the welding machine's handle and insert the welding nails into the holes in the front end of bracket.
- **Replace the welding nails:** Make sure the heating switch of machine is turned off, pull the welding nails with metal pliers, be careful not to get burned. Then insert a new welding nail into the holes in the front of bracket.

4. Operation



The battery must be charged before first use.

Charging of the machine



The machine cannot be used while charging

- Plug the charging cable (USB end) into the adapter (not included)..
- Plug the charging cable (Type C end) into the machine.
- Plug the charger plug into the power outlet, and the LED indicator of the machine will light up and show the charging status.

Note: It is also possible to charge the machine by connecting the charging cable to a suitable USB socket (5V).

It takes 2-3 hours to fully charge the battery.

If the LED working indicator and the LED charging indicator are blinking at the same time, it indicates that there is a problem with the product or battery. Stop charging immediately and consult a qualified electrician or repair network.

Products turn on and off



Be careful, there's a risk of burns! Do not touch hot heating brackets and welding nails

Start work:

1. Take the welding machine out of the package.
2. Hold the welding machine in your hand.
3. Press the power switch for 2 seconds, the front-end lighting LED (white light) lights up, and the machine starts. If continue to hold down the power switch more than 6 seconds ,machine will be powered off.
4. Insert the welding nail into the front holes of the heating bracket.
5. Press the heating switch for 5 seconds, and the welding nail's temperature rises to 500 degrees.
6. Hold the handle of the welding machine and push the heated welding nail into the cracks of plastic. Release the heating switch after the welding nail is 1mm into the plastic surface.
7. Remove the welding machine from the welding place after the welding place is cooled, Leave the welding nail in the welding place, cut off the exposed part of the welding nail with metal plier
8. If the welding machine is not used for a period of time, the welding machine will automatically shut down after 10 minutes, the LED working indicator light, LED lighting light and LED power indicator light will be off.
9. Want to continue to use the welding machine, please repeat step 2 to 7.

Finish work:

- Turn off the machine by pressing the power switch. Make sure the hot bracket and nails do not touch anything until cooled.
- Wait for the welding machine to cool down and put it in the storage box.

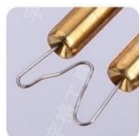
Operation Guide

- To obtain a perfect weld joint, the weld must be completely clean and grease-free.
- Before welding, if possible, establish a mechanical fixation between the plastics to be connected ,which will keep the parts not slipped. In this way, you will obtain stable welding points and avoid damage to the welded parts caused by external forces.
- Do not pull out the welding machine before the welding place is completely cooled, Not enough cooling time will make nails loose from the welded part.
- When welding, do not continue to hold down the heating switch after the welding nail and the plastic come into contact to prevent excessive heating from causing welding failure.
- Place the welding machine on a heat-resistant surface during work.

- After the work is finished, it should be stored until the welding machine has cooled down.

5. Selection of welding nails

Results show



Suitable for external angular crack



Suitable for inner angular crack



Suitable for fine and straight cracks



Suitable for large or curved cracks



6. Temperature settings

In order to weld plastics of different materials, this machine has three different temperatures for choose . After each start-up, the machine is at the maximum temperature, if necessary, you can select the required temperature as follow:

Temperature settings:

POS I	POS II	POS III
400°C (Max)	500°C(Max)	600°C (Max)

Operation of temperature selection

Step 1: Enter the temperature setting

When the machine is turned on, press "heating switch"(5) and "power switch"(2) at the same time , immediately release the both buttons when the blue work

indicator (3) goes out and the three-color power indicator lights (4) up only in red. Machine enters the temperature setting operation now.

Step 2: Temperature choose

Press the "power switch"(5) to select the desired temperature. Each time you press the "power switch"(5), the temperature will switch to the next one. You can press the "power switch" (5) to cycle to select the temperature.

At this time, the corresponding temperature displayed on the three-color "power indicator " (4) are:

Red -400 °C, Yellow -500 °C, Green -600 °C

Step 3: Exit the temperature setting

After selecting the temperature, the machine exits the temperature setting after 4 seconds without any operation. After exiting the temperature setting, the blue work indicator (3) lights up and the three-color power indicator (4) returns to the power indicator.

7. Charging of machine

- For safety, the machine cannot be used while charging!
- Only use market access eligible chargers to charge the machine.
- The charging current of the charger must be greater than or equal to 2000mA.
- When using the machine for the first time or using the machine again after a long period of non-use, you need to fully charge the machine first.
- Connect the charger to the machine through the charging cable, when the power indicator flashes alternately, it means that the machine is already charging.
- When the power indicators are all on, the machine finishes charging. If the charging cable is not unplugged 10 minutes after completing the charge, the machine will cut off the charging program and shut down.

8. Fault light display

Please pay attention when the following fault lights appear in use:

- When the three-color power indicator blinks at the same time and shuts down after six blinks, it means the machine's battery is exhausted. Please charge it in time.
- When the red battery indicator flashes after pressing the heating switch, please confirm that the welding nails are installed in place.
- When the yellow power indicator flashes, please stop using the battery immediately, because the battery temperature exceeds 60oC
- When the working indicator and the three-color power indicator flash at the same time, please stop charging, at this time the battery may be faulty.

9. Maintenance

Only leave the machine to be serviced by a qualified electrician or repair point!

- The machine is designed to keep the machine running for a long time with minimal maintenance. Proper maintenance and regular cleaning of the machine can make you get better welding results.

clean

- Do not wipe the machine with solvents such as gasoline, alcohol, ammonia, etc. These solvents can damage plastic parts.
- Do not spray the machine with water or immerse the machine in water. Water can cause electric shock and short circuit hazards!
- Do not use detergents or solvents. Failure to do so may cause irreparable damage to the product.