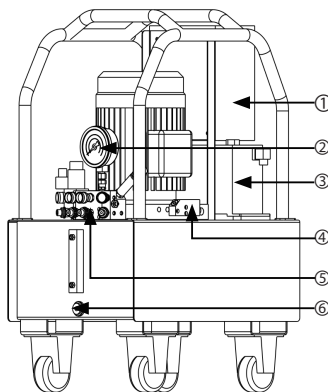
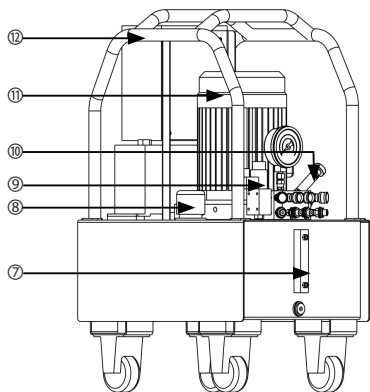


► HETW-C Product Components:

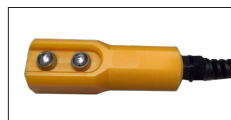


NO	Name
1	Electric Cabinet
2	Manometer
3	Air Cooling Radiator
4	Pilot Relief Valve Block
5	Quick Interface
6	Oil Outlet
7	Oil Level Gauge
8	Refueling And Exhaust Outlet
9	Electromagnetic Directional Valve
10	Pressure Regulating Valve
11	Power-Driven Machine
12	Protected Framework

► Component Function Introduction:

► Hand Shank

HETW-C is equipped with a double button handle, and the start and stop of the motor and the opening and closing of the valve are controlled by the control handle. The start and stop button of the motor is a keep button, which starts the motor when pressed and stops the motor when pressed again; the open and close button of the electromagnetic directional valve is a self-resetting button.



► Overflow Pressure Regulating Valve

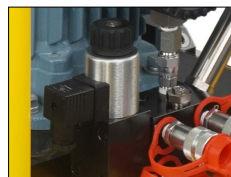
Before use, adjust the system pressure through the relief pressure regulator before connecting the tool to prevent damage from excessive pressure. When adjusting, first loosen the locking nut of the relief valve and turn the handle of the relief pressure regulator counterclockwise to release it. Connect the power supply and press the button on the handle to start the motor; at this point, the pressure gauge will display the pressure at port R. Next, press the solenoid valve switch button to establish pressure at port A. Continue pressing this button while turning the relief pressure regulator clockwise to reach the target pressure, then tighten the locking nut.



► Solenoid Directional Valve

The electromagnetic reversing valve regulates the oil supply to port A or port R. When the solenoid valve is not energized, oil is supplied to port R. Port R is connected to the female connector. Port R is the low pressure oil port with a maximum pressure of 12MPa;

When the solenoid valve is energized, oil is supplied to port A, which is connected to the male connector. Port A is a high-pressure oil outlet with a maximum supply pressure of 70MPa.



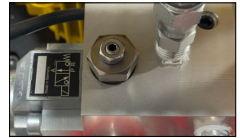
► Refueling And Exhaust Outlet

This port is a non-sealed port, and the leakage of hydraulic oil during transportation is normal. The exhaust plug should be installed when using it.



► R Port Pressure Limiting Valve

The function of the pressure limiting valve is to limit the pressure in port R of the hydraulic pump. When the pressure reaches the set value, the pressure limiting valve opens overflow and makes the pressure no longer rise, so as to protect the components related to this branch from damage due to high pressure.



► Oil Level Gauge

Before starting, check the pump's oil level; it should be above 2/3 of the upper oil gauge. If the oil level is too low, prolonged operation without oil can affect the pump's lifespan and normal use, potentially damaging the motor. When hydraulic oil is insufficient, open the oil filler port and inject the same type of wear-resistant hydraulic oil as the original pump (it is recommended to use ISO VG46 grade hydraulic oil).



◆The oil level should be observed after all actuating elements have returned to their positions.

► Product Usage Steps:

1.Preparation Before Use

- Check all parts (frame, motor, pressure gauge, etc.) are undamaged, the feet are stable, and all connections are not loose.
- Check the rated voltage. The standard voltage of HETW-C electric hydraulic wrench pump is optional, which is 220V/115V respectively.



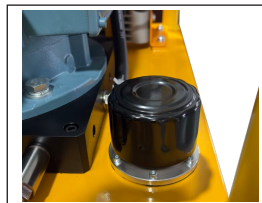
Check the electronic control box to determine the rated.

◆After confirming that the voltage is consistent, use a power socket in accordance with specifications to connect reliably. If the voltage is not consistent, do not force the adapter connection to avoid burning out the motor or causing short circuit

-Check the hydraulic oil level of the pump. The oil level should be above 2/3 of the upper oil gauge. When the hydraulic oil is insufficient, open the filling port and inject the wear-resistant hydraulic oil of the same model as the original pump (it is recommended to use the hydraulic oil grade ISO VG46). The maximum filling amount is the top of the oil gauge.



Hydraulic oil level gauge



If the oil level is lower than 2/3, please rotate and remove the plug of this outlet, and then carry out the refueling operation.

◆Before use, please loosen the exhaust port to ensure the ventilation function of the oil tank, which can avoid pressure fluctuation and flow deviation, prevent component wear and failure, and improve the smoothness and accuracy of operation.

2. Start And Set The Pressure

-Connect the power supply, press the motor switch button of the handle, touch the generator to run, check whether the motor runs normally, and observe the pressure gauge to check whether the initial reading of the pressure gauge is the R port pressure.



Press the motor start button to start the motor.



When the system is unloaded, the pressure gauge displays the pressure at port R.

◆If the initial reading of the pressure gauge is not zero or the motor runs abnormally, stop the machine immediately to troubleshoot the fault.

-Set The Working Pressure

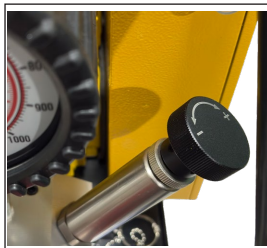
Preparation: Before pressure adjustment, make sure that the pump is not connected to tools or other hydraulic equipment to avoid damage caused by misoperation.

Initial adjustment: rotate the locking nut on the relief valve counterclockwise to release.

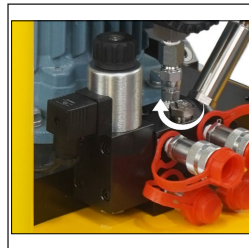
Start and observe: After connecting the power supply, press the motor start button on the control handle. The motor starts and pressure begins to be established. At this time, the pressure gauge shows the R port pressure.

Switching and Pressure Adjustment: Press the solenoid valve switch button on the control handle to start establishing pressure at port A. At this point, closely monitor the pressure gauge reading for port A. Continue pressing the solenoid valve switch button while slowly rotating the overflow pressure regulator clockwise, gradually increasing the pressure to the target value. During the adjustment process, pay attention to the rate of pressure increase to avoid rapid pressure regulation.

◆ When the pressure is close to the target pressure, the overflow pressure regulating valve should be adjusted more slowly to ensure that the pressure reaches the target value accurately. After reaching the target pressure, immediately lock the overflow pressure regulating valve locking nut to fix the pressure setting.



Loosen the locking nut on the relief valve and rotate the relief pressure regulating valve clockwise slowly to achieve the target pressure at port A.



The return pressure is regulated through the pressure-limiting valve at port R.

-Return Pressure Regulation Method

1 Loosen the upper locking nut of the R port pressure limiting valve.

2 Press the pump switch button, at this time the pressure gauge shows the pressure of port R, use a hexagonal wrench to rotate the top adjustment bolt, clockwise pressure increases, counterclockwise rotation pressure decreases.

3 Press the pressure indicator to target the pressure and then turn off the electric pump.

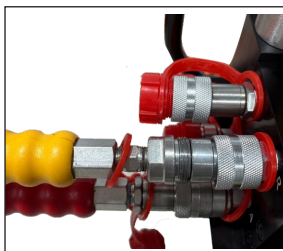
4 Tighten the locking nut to complete the pressure adjustment of port R.

♦ The factory pressure of the R port pressure limiting valve has been set, and generally does not need to be adjusted.

-Connect The Hydraulic Wrench

HETW-C electric pump standard outlet is equipped with two male and two female quick connectors, the outlet thread is NPT3/8, standard plug, the rated pressure of the electric pump is 700Bar.

Press the motor switch button on the handle, and after the motor stops running, keep the hydraulic oil pipe axially aligned and fully push it into the outlet interface base. Rotate the sealing joint and rotate the outer lock ring clockwise to the limit mark and tighten it.



The oil pipe is fully pushed into the outlet by axial alignment



Secure the outer lock ring.

♦ HETW-C electric hydraulic wrench pump must be connected with the same pressure or higher pressure and matching joints or hoses when used, connecting the joints or hoses with lower pressure grades may cause the joints to fly out or the tubing to break, thus causing personal injury to the user.

3.Operation And Adjustment Of The Work

-Start the electric pump, confirm that the pressure has been set and the load equipment is correctly connected, and press the motor start button on the control handle to start the electric pump.

The HETW-C is equipped with a two-position four-way electromagnetic directional control valve. The two-position four-way electromagnetic directional control valve can achieve oil discharge from dual oil ports.

-Operate the hydraulic directional control valve by pressing the solenoid valve switch button on the control handle to adjust the flow direction of the system oil.

When the solenoid valve is not energized, oil is supplied through port R, which is suitable for low-voltage working scenarios.

When the solenoid valve is energized, oil is supplied from port A, which is suitable for high-voltage working scenarios.



Through the electromagnetic valve control button on the handle, the oil flow direction of the system can be accurately controlled.

♦ During the operation, the system should be switched smoothly to avoid excessive pressure fluctuation caused by frequent and rapid switching.

4. Monitoring during operation

-Pressure monitoring: pay real-time attention to the pressure gauge value, and adjust the overflow pressure regulating valve through fine adjustment to maintain the working pressure of the system at the target value, so as to ensure that the pressure fluctuation is controlled within the range.

-Oil level monitoring: continuously observe the oil level of the oil gauge. If the oil level is lower than 1/3, stop the machine immediately and wait for the equipment to cool down. Then slowly inject an appropriate amount of ISO VG46 hydraulic oil through the oil filling exhaust port to restore the oil level to the normal range. During the oil filling process, pay attention to avoid impurities mixed into the hydraulic oil.

5. Release Pressure And Shut Down

-Complete the work: After completing the action, release the electromagnetic valve switch button, return oil from port A, establish pressure in port R, and start the tool to return. Close the motor after the tool is completely returned.

-Turn off the motor: First press the motor stop button on the control handle to turn off the motor, then cut off the power supply, pull out the power plug, and ensure that the equipment is completely powered off.

-Cut off the oil circuit: Press the stop button of the solenoid valve on the control handle to cut off the oil circuit connection between port A (oil inlet) and port R (oil outlet), effectively prevent the circulation flow of pressure oil between the two ports, and realize the unloading of the system.

-Remove the oil pipes: After the system pressure has completely dropped to 0, carefully pull out the hydraulic oil pipes from ports A and B. When removing the oil pipes, be cautious to avoid splashing any residual hydraulic oil inside, which could cause injury or contaminate the work environment. After removing the oil pipes, properly organize and store them for future use.

► Troubleshooting:

Troubleshooting Guide		
Issue	Possible causes.	Solution
1. The pump does not start	Not connected to a power source.	Check whether the circuit is connected normally and restart.
	The electrical circuit of the pump is short-circuited or tripped.	Check whether the circuit is connected normally and restart.
	The voltage is too low.	Check the voltage and turn off other electrical loads.
	The socket cord is too long and too thin	Replace the high-power socket strip
	The handle button is damaged.	Contact the manufacturer for repair.
	Pump components are damaged.	Contact the manufacturer for repair.
2. The motor stops during pressurization	The voltage is too low.	Check the voltage and turn off other electrical loads. Replace the strip and check the input voltage.
	Current overload	Check the system for large damping terms that are causing overpressure.
3. The pump is not pressurized or the upper pressure is too low	Insufficient amount of oil.	Check the oil level and inject new hydraulic oil.
	The electromagnetic unloading valve opens.	Check the energization of the unloading valve.
	Leakage from the outside of the pump.	Observe leaks and carry out repairs or replacement of accessories.
	The hydraulic oil is too dirty and blocking the suction port.	Change the hydraulic oil and clean the suction port.
	Leakage inside the pump.	Contact the manufacturer for repair.
	System leaks.	Check for system leaks and repair them.
4. The system establishes pressure, and the tool does not move	Overloaded.	Check and select the right load.
	System congestion.	Check if the system is clogged and unblock the system.
5. The flow is too small	The hydraulic oil is too dirty and blocking the suction port.	Change the hydraulic oil and clean the suction port.
	There is a throttle valve in the system	Adjust the throttle flow.
	System congestion.	Check if the system is clogged and unblock the system.
6. The tool cannot be returned normally	The tool backstroke has a large damping	Check and remove the large damping term.
	The system has a return throttle valve.	Check the system and adjust the throttle valve.
	The system throttle valve adjustment is smaller.	Check the circuit and readjust the flow valve.
	Motor failure.	Contact the manufacturer for repair.
7. Severe fever	The system throttle valve adjustment is smaller.	Check the circuit and readjust the flow valve.
	Motor failure.	Contact the manufacturer for repair.