

# TOTAL

One-Stop Tools Station

TOTAL

## HOIST

TLH1952



CE



# Security instructions



## Caution

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

*Note: Save all warnings and instructions for future reference. Due to the continuous R+D+I development of the brand, this manual and the technical specifications may undergo changes without prior notice.*

### 1) Work area safety

- a. Keep the work area clean and well lit to prevent accidents.
- b. Do not use power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust that can cause fires.
- c. Keep children and other unauthorized persons away while using a power tool. Distractions can cause you to lose control of the tool.

### 2) Electrical safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way. Using a suitable plug reduces the risk of electric shock.
- b. Avoid bodily contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c. Never use the cord to carry, pull or unplug the power tool. Keep the cable away from heat or oil.
- d. When using a power tool outdoors, use an extension cord suitable for outdoor use.
- e. If using the tool in a wet location is unavoidable, use a Residual Current Device (RCD) protected supply to reduce the risk of electric shock.

### 3) Personal security

- a. Always stay alert, watch what you are doing and use common sense when using the tool.
- b. Do not use a power tool if you are tired or under the influence of medication or other substances.
- c. Wear personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-slip safety shoes, hard hat, or hearing protection used in the proper conditions will reduce personal injury. Also don't wear loose clothing or jewelry.
- d. Prevent the tool from turning on unintentionally. Make sure the switch is in the off position before connecting to power source and moving.
- e. Remove any adjusting wrenches or wrenches before turning on the power tool. An adjustable wrench or wrench placed in a rotating part of the power tool can cause serious injury.

### 4) Use and care of power tools

- a. Do not force the tool. Use the correct power tool for each use.
- b. Do not use the power tool if its power switch does not work. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool to avoid accidental starting of the tool.

- d. Use the power tool, accessories, etc. in accordance with these instructions, taking into account the working conditions and the work to be carried out. Using the power tool for operations other than those intended could result in a hazardous situation.
- e. Store power tools out of the reach of children and do not allow people unfamiliar with the tool to use it.
- f. Keep power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the operation of power tools. If it is damaged, have the power tool repaired before using it. Many accidents are caused by poorly maintained power tools.

#### 5) Service

- a. Have your power tool serviced by a qualified person and use replacement parts recommended by the manufacturer. This will ensure that the safety of the power tool is maintained.

## Safety rules for correct use



**Please read the instruction manual before use.**



CE conformity.



Wear safety glasses, hearing protection, and a dust mask if necessary.



Waste electrical products must not be disposed of with household waste. Please recycle at the appropriate facilities. Check with your local authority or retailer for recycling advice.



Security alert. Use only accessories supported by the manufacturer.

## Additional security warnings

- Always confirm that the service voltage corresponds to the voltage on the nameplate. Improper supply voltage may cause abnormal operation or personal injury.
- Use the device only for its intended purpose. Never transport people with it. Do not attempt to lift fixed or obstructed loads. No loads can be lifted above the rated load of the hoist.
- Keep children and other unauthorized people away from the machine.
- Do not pull loads sideways. Avoid swinging the load or hook.
- Make sure the hook travels in the same direction as your intended operation.

- Your plug must be grounded, and at the same time, your power supply system must be provided with a leakage breaker.
- Inspect the electric wire rope hoist and switches regularly to ensure they are in good working order.
- Have an expert repair your tool; otherwise, it may pose a danger to the user.
- Avoid excessive inching.
- It is not allowed to divert your attention from the hoist.
- Do not stand or work under a raised load.
- Always route the cable to the rear, away from the machine. Do not carry the machine by the cable.
- During breaks in work or when the tool is not in use (for example, changing work tools, repairs, cleaning, adjustment), disconnect the tool from the mains.
- Unqualified people cannot use this tool.
- Use only original accessories recommended by the manufacturer.

## Other risks

Even when the power tool is used as prescribed, it is not possible to eliminate all residual risk factors:

- a. Health defects resulting from vibration emission if the power tool is used for a longer period of time or if it is not managed and maintained properly.
- b. Injuries and property damage due to broken fixtures breaking suddenly.



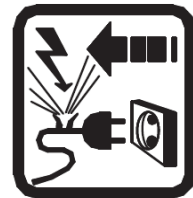
### Caution

This power tool produces an electromagnetic field during operation. This field can, in some circumstances, interfere with active or passive medical implants.

To reduce the risk of serious injury, we recommend that persons with medical implants consult their physician before using this power tool.

If the cable is damaged or cut during work, do not touch the cable, immediately unplug the tool. Never use the machine with a damaged cable.

The machine must not be damp and must not be used in a humid environment.



### Attention

Safe operation of this machine is only possible when the operating or safety information is fully read and the instructions contained therein are strictly followed.

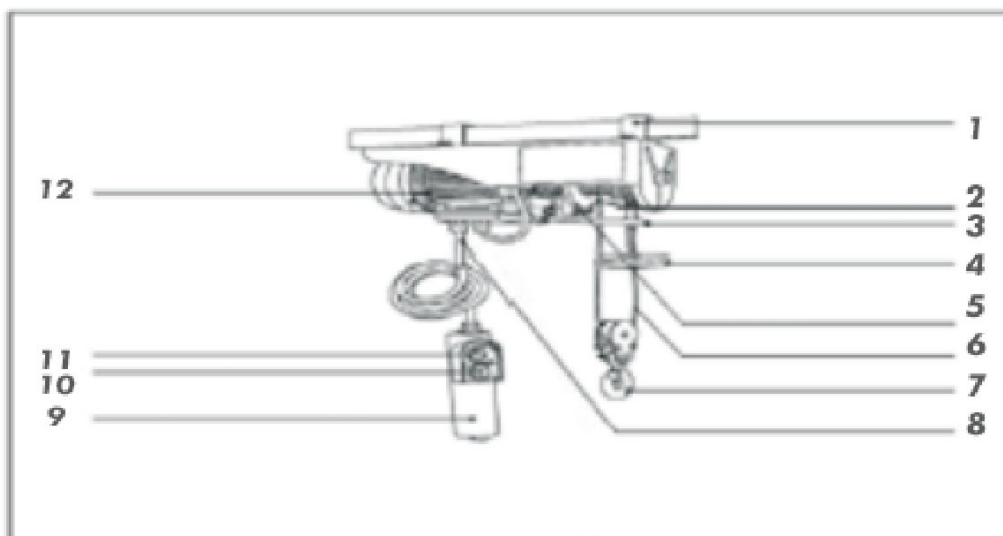


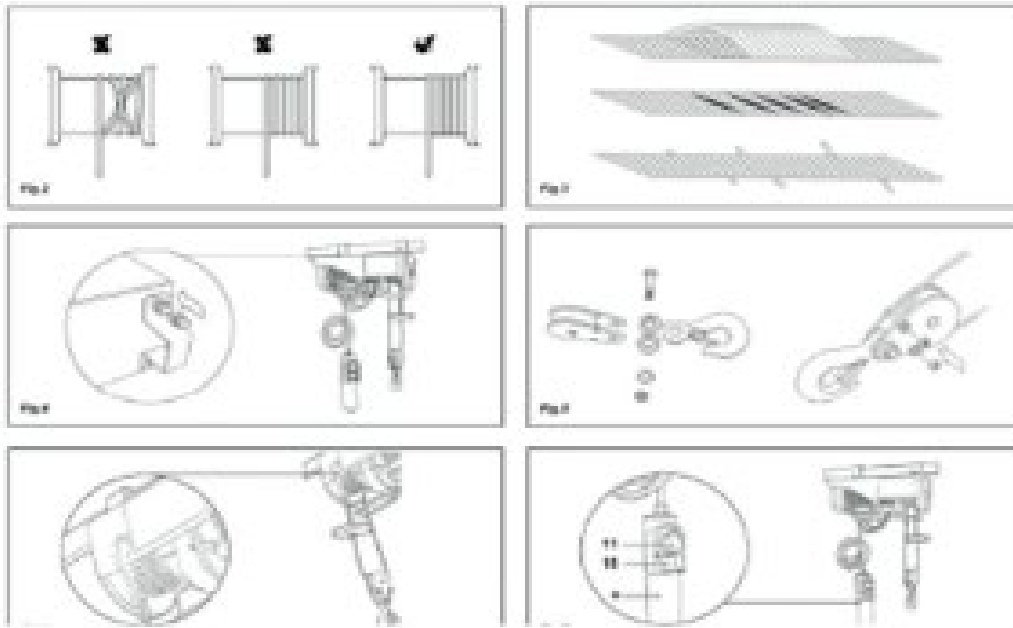
## Technical data

Data sheet	
<b>Power</b>	900W
<b>Voltage</b>	220-240V
<b>Frequency</b>	50Hz
<b>Bearable weight</b>	250kg (single line) 500kg (double line)
<b>Lifting height</b>	18m (single line) 9m (double line)
<b>Lifting speed</b>	8m/min (single line) 4m/min (double line)

## Product description

1. Medium
2. lower limit post
3. upper limit level
4. limit block
5. string drum
6. Steel cable
7. Hook
8. main wire
9. Control command
10. up/down buttons
11. Stop switch (emergency)
12. Motor





*Note: Accessories illustrated or described may not all be included in the standard delivery.*

The electric wire rope hoist is an ideal device in your garage, warehouse or other similar places to hoist all kinds of loads. This wire rope hoist cannot be used to transport hot melts. It cannot be used to operate in aggressive environments and low temperatures.

- The mechanism group is M1.
- The service life of the electric wire rope hoist is more than 8000 cycles (excluding wearing parts). If the hoist has run 8,000 cycles, all mechanisms should be inspected and maintained.
- The electric wire rope hoist is not designed for continuous use. The work rate should be periodic intermittent.
- The nominal load of the machine does not vary with the position of the load.

## Set up

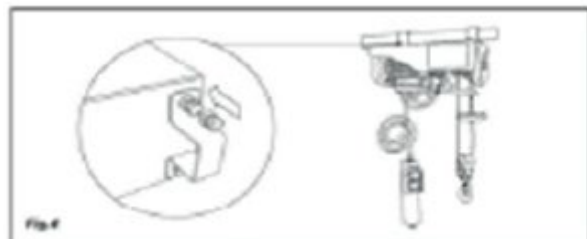
### Unpacking

After opening the box, carefully inspect the hoist frame, cables, hooks, and control units, etc., for any damage that may have occurred during shipment.

### Installation

The hoist is provided with an installation system that allows it to be mounted on a rectangular beam.

The dimension of the rectangular beam should be in accordance with the position and dimension of the installation holes of the hoist, and its strength can bear the rated load. It is recommended that a qualified technician be consulted for assistance in inspecting the strength of the beam structure.



The fixing screw must be properly tightened. Before use, a qualified technician should verify that the hoist's support system and coupling are properly sized.

## Using the pulley block

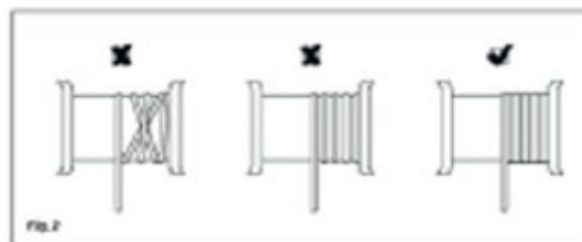


The hoist is provided with an additional pulley and hook, and when used correctly, the machine can lift a double load. Assemble the pulley with the help of bolts as shown in the image.

The hook originally fixed on the machine can be placed in the opening of the rack that is designed for this purpose. With the help of 2 steel cables to lift the load, the machine is now capable of lifting a double load.

## Operating instructions

- Before using the machine for the first time, remove the adhesive tape to fix the steel cables on the cable drum.
- The equivalent sound emission pressure level value at the operator's station is less than 85 dB.
- For the machine, the power supply requirement is as follows: the voltage is rated voltage  $\pm 10\%$  and the frequency is rated frequency  $\pm 1\%$ .  
*Note: Normal environmental conditions for the use of this tool: Ambient temperature of  $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$ , relative humidity of the air at 25% does not exceed 85%. The sea level does not exceed 1000 m.*
- When a heavy weight is lifted from the ground, the steel cable must be taut rather than slack.
- The hoist motor is equipped with an overheat switch. During operation, the hoist may stop working and will return to operation only after an interruption for the motor to cool down.
- The electric wire rope hoist is not supplied with any overload stops. Therefore, if you are unable to lift a heavy weight, do not insist and let the motor cool down, as this means that the load exceeds the maximum capacity of the hoist.
- Do not leave a load supported by the hoist unattended unless specific precautions have been taken.
- Provide 10A fuse or 10A overcurrent protector to protect your power supply system.
- Do not use limit switches as routine operation stop switches. They are only emergency devices.
- Before using this hoist, make sure that the wire rope is properly wound around the rope drum with a pitch equal to the diameter of the wire rope.



- Make sure that the load is properly secured to the lifting hook (7) or pulley and that the operator always maintains a certain distance between the load and the wire rope (6).

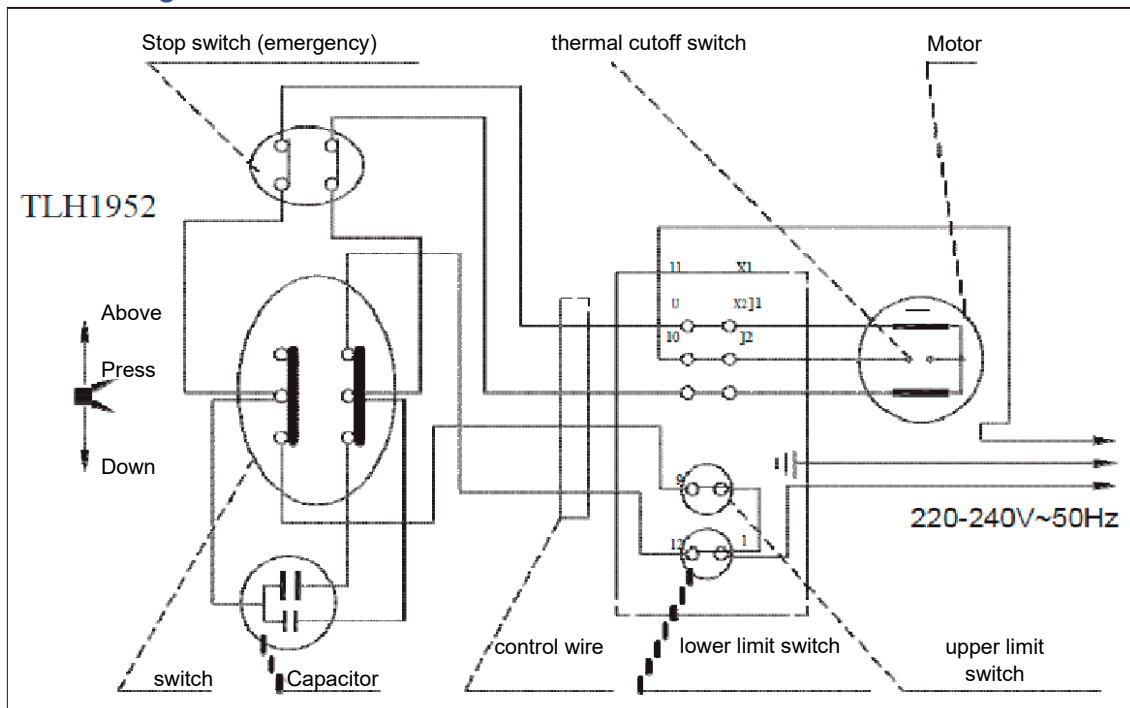
## Set up

- Check if the emergency stop switch (11) is pressed. Turn the red button clockwise to release it.



- Press the ↑ button (10) to lift the load
- Press the ↓ button (10) to lower the load
- For the up limit system, when the hoisted load is almost at the up position, the limit block (4) will move the upper limit level (3) up, and then a switch on the motor will be activated to stop the up movement the motor.
- For the down-limited system, when the hoisted load is almost at the bottom position (about two wraps of cable around the drum), the lower limit post (2) will move, and then another switch on the motor will make the move. down from engine stop. In the event that the direction of movement is different from the one being controlled (caused by the steel cable being held by those directly next to it), the downward limiting system can also be activated.
- When the emergency stop switch is pressed, the hoist stops.
- In an emergency, immediately press the red emergency stop switch (11) to stop the machine. When the emergency stop switch is actuated, it is not possible to use the hoist.

## Circuit diagram





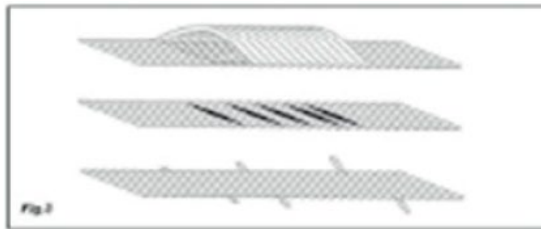
# Maintenance



## Attention

Always make sure that the machine is not connected to the main electrical network before carrying out any maintenance on the mechanism.

- Hereinafter, per cycle means that the operator drives the load up and down once. Periodic verification means that a part must be inspected after the hoist is running every 100 cycles.
- Periodically check that the limit switches are working properly. The limited system should be tested as follows: When the hoist is performing lifting operation (no load), move the spacer collar (3) to the lifting direction, the machine motor should stop running.  
When the hoist is performing lowering operation, move the limit pole down, the motor should stop working.
- Periodically check the power and control cables.
- Lubricate wire rope and pulley every 200 cycles.
- Please confirm whether the wire rope is in good working order after every 30 cycles. If there is any damage to the wire rope (see figure), replace the wire rope immediately according to the requirements in the technical data table.



- Inspect bracket and pulley retaining bolts for tightness after every 1000 cycles.
- Check hook and pulley after every 1000 cycles to make sure they are in good working order.
- Before using the electric wire rope hoist each time, inspect the emergency stop switch and its button panel to make sure they are in good working order.
- Inspect the brake system every 100 cycles. If there are abnormal noises in the motor or the hoist cannot sustain the rated load, the braking system should be checked.
- Replace damaged and worn parts and keep log of necessary maintenance.
- Contact an authorized service center for extraordinary maintenance.

Should the machine fail despite the care taken in manufacturing and testing, contact your official TOTAL brand dealer.

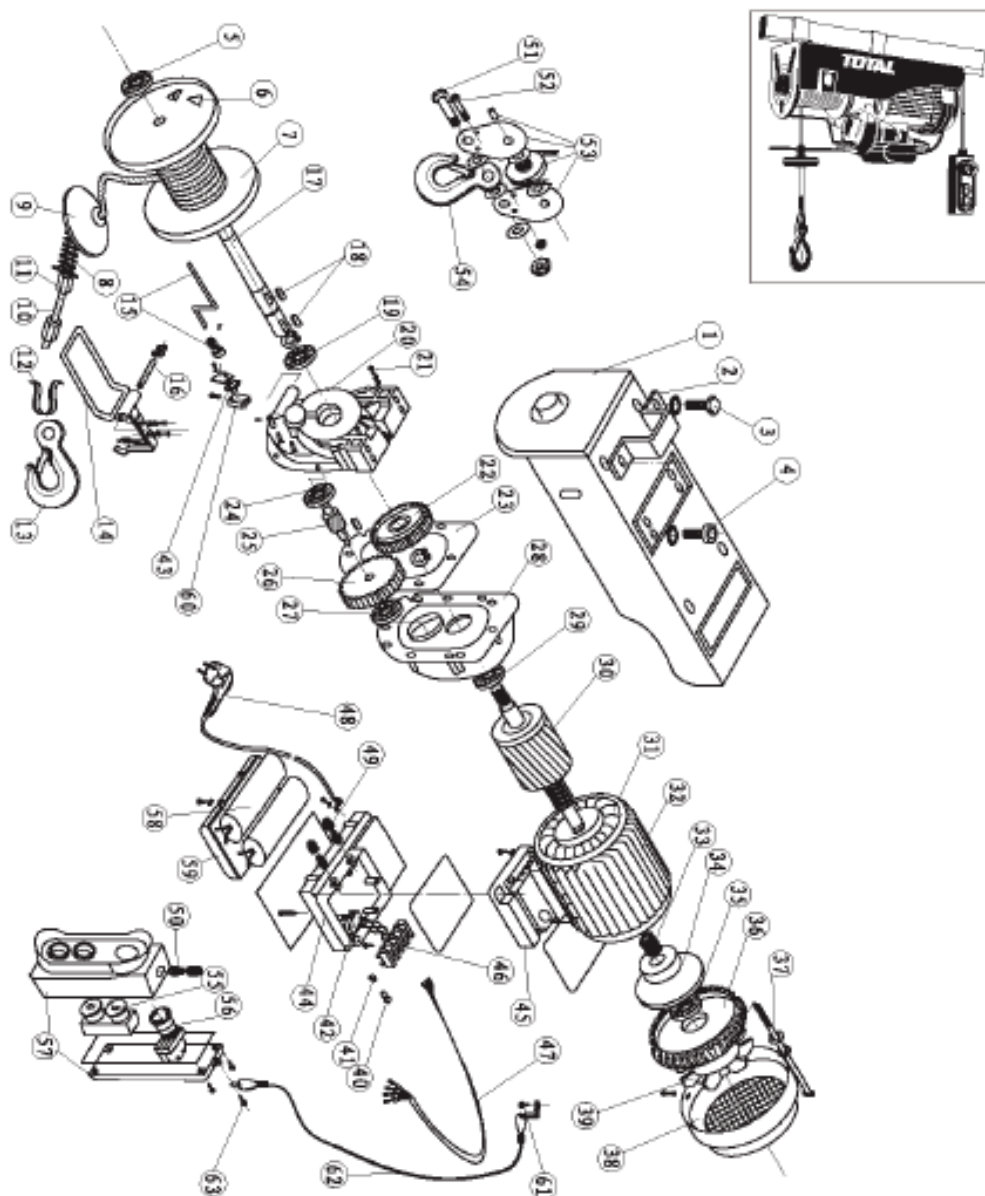
# Environment



- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact your local authority for information on available collection systems.
- If electrical appliances are disposed of in landfills, hazardous substances can seep into the groundwater and enter the food chain, harming your health and well-being.

- Recycle raw materials instead of disposing of them as waste.
- The machine, accessories and packaging must be sorted for environmentally friendly recycling.
- Plastic components are labeled for categorized recycling.

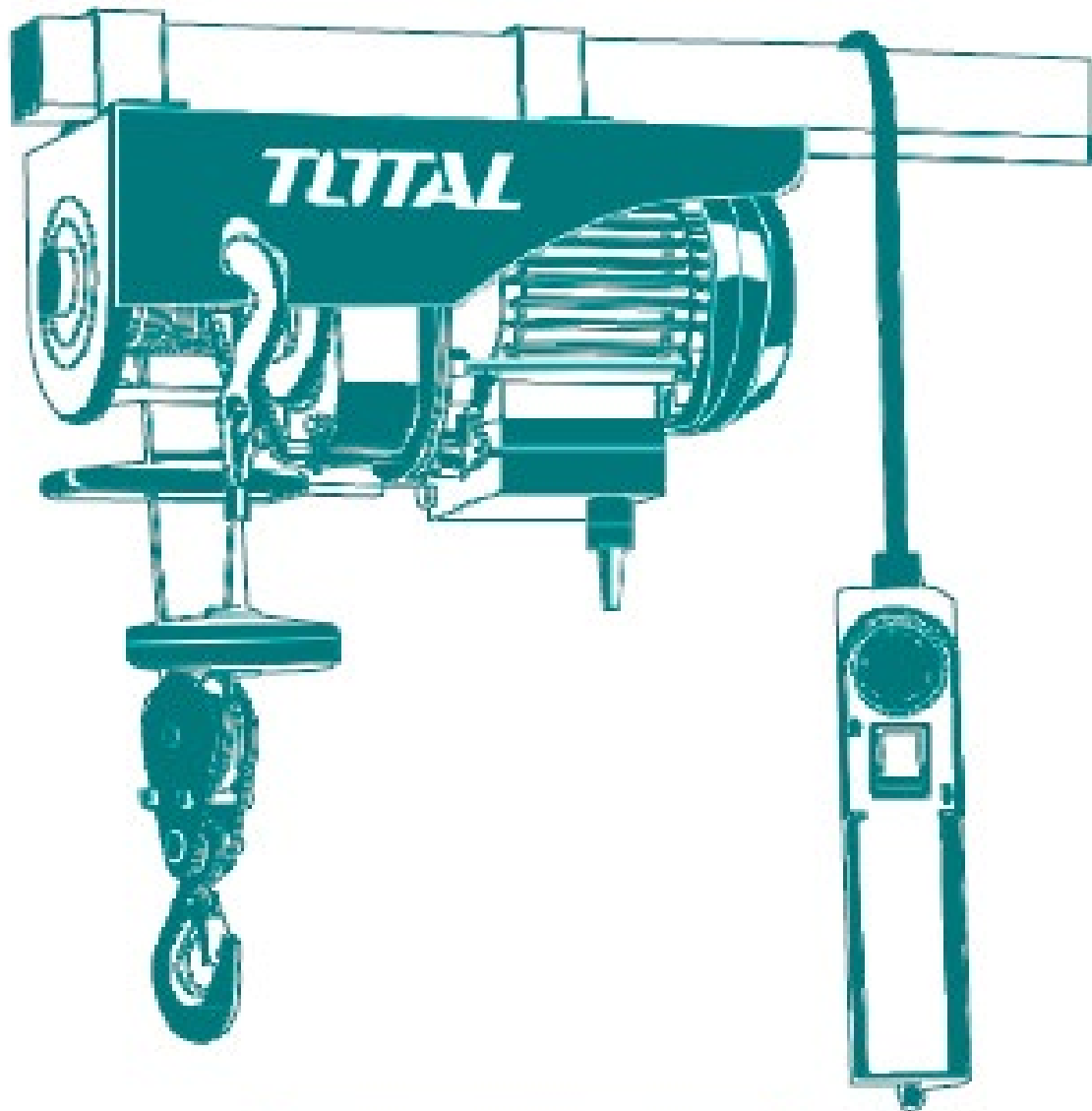
## Exploded view



# TOTAL

One-Stop Tools Station

TOTAL



HOIST

# 900W