

BWS-50 MULTI FEED CABLE STRIPPER MACHINE

Operation Manual

<http://www.copper-wire-stripper.com/>

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1. Specification and composition

1.1 The use of the machine

This machine is widely used for the waste resource recycling industry. Its function is to separate the cable's insulation layer and its conductor to recycle the copper, aluminum, plastic and rubber etc. in it for recycling.

1.2 Scope of application:

1. Round cable: dia. $\phi 2\text{mm} \sim \phi 45\text{mm}$
2. Sheath flat line: $12\text{mm} \times 12\text{mm} (L \times W)$, $20\text{mm} \times 10\text{mm} (L \times W)$

Round cable



Sheath flat line

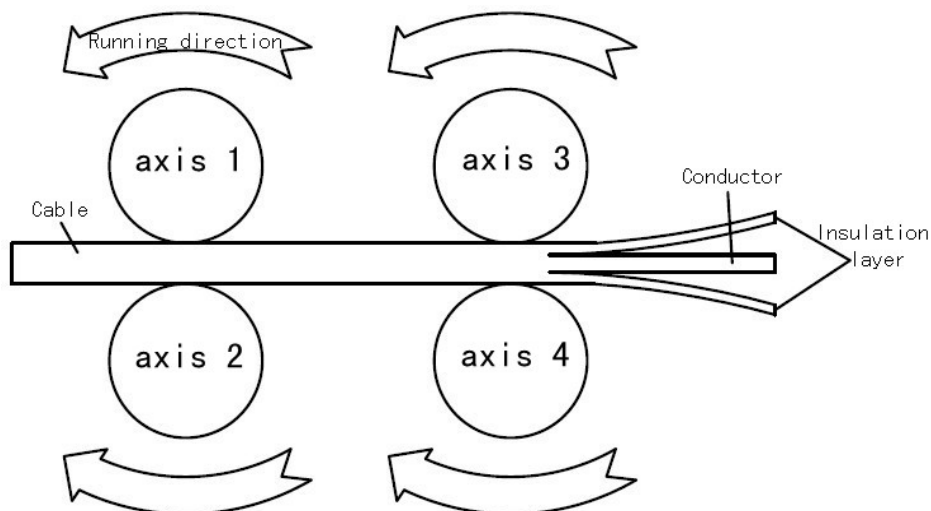


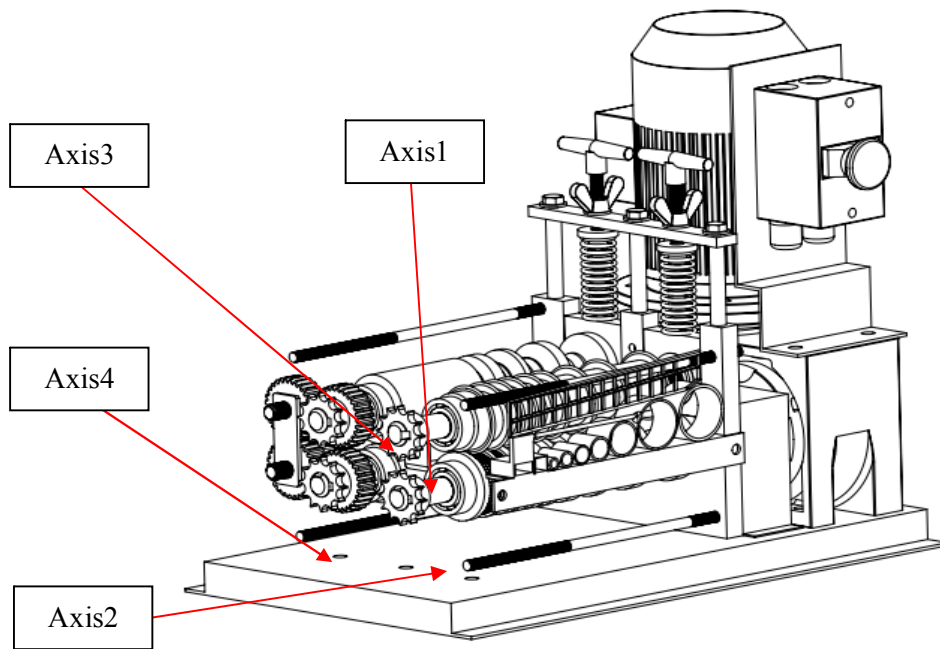
1.3 Technical parameter:

- 1.3.1 Supply voltage/Motor power/rate: AC220V/2.2KW/50HZ ,
(AC110V/2.2KW/60HZ)
- 1.3.2 Overall dimension: $405\text{mm} \times 645\text{mm} \times 525\text{mm} (L \times W \times H)$
- 1.3.3 Weight: 75Kg
- 1.3.4 Processing capacity: 18 m / min

1.4 Working principle

- 1.4.1 Axis2 and axis3 have V-shape rabbet which is used for transporting cable lines. Axis1 and axis4 have circular knives for cutting the insulation layer of the cable. The circular knives should be consistent with the center of the V-shape rabbet, which can guarantee that the cable is cut and transported in straight line.
- 1.4.2 When the machine is running, the running direction of the axes is as picture shows. The cable is transported to the feed inlet by manual work, and then axis1 cuts the cable open. The cable is transported forward through the two axes' relative operation. The axis4 then cut open the other side of the cable, which cut the insulation layer in two. This effective segregation of insulation layer and guide line can achieve the recycling purpose.



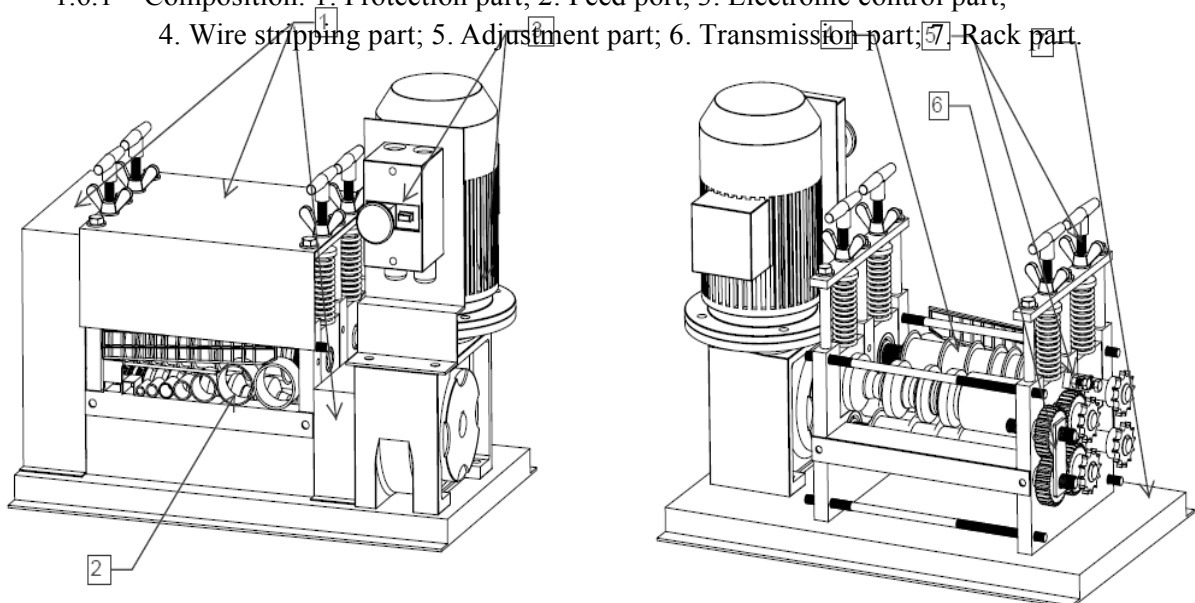


1.5 **Carrying, transporting and storing:**

- 1.5.1 Carrying: The machine is equipped with handles. When carried for a short distance, it can be uplifted directly. When carried for a long distance or elevated, it should be moved with forklift and other supporting removal tools.
- 1.5.2 Transporting: When transported, the machine should avoid being crushed and impacted. Use certain measures to fix it to avoid damage.
- 1.5.3 Storing: The machine is better to be placed in dry and ventilated condition all time.

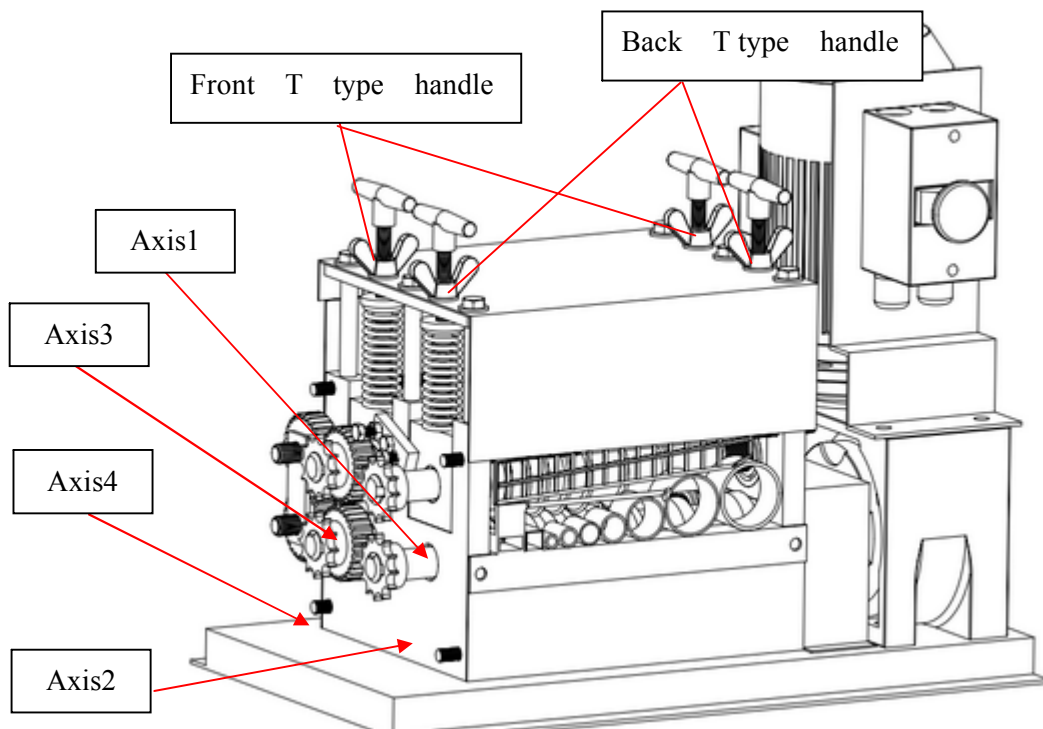
1.6 **Composition:**

- 1.6.1 Composition: 1. Protection part; 2. Feed port; 3. Electronic control part; 4. Wire stripping part; 5. Adjustment part; 6. Transmission part; 7. Rack part.



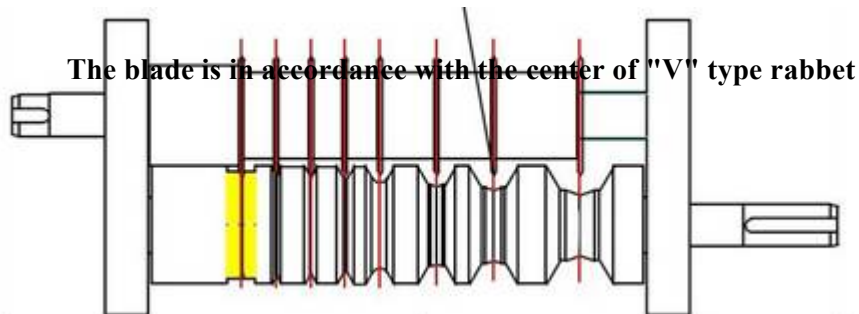
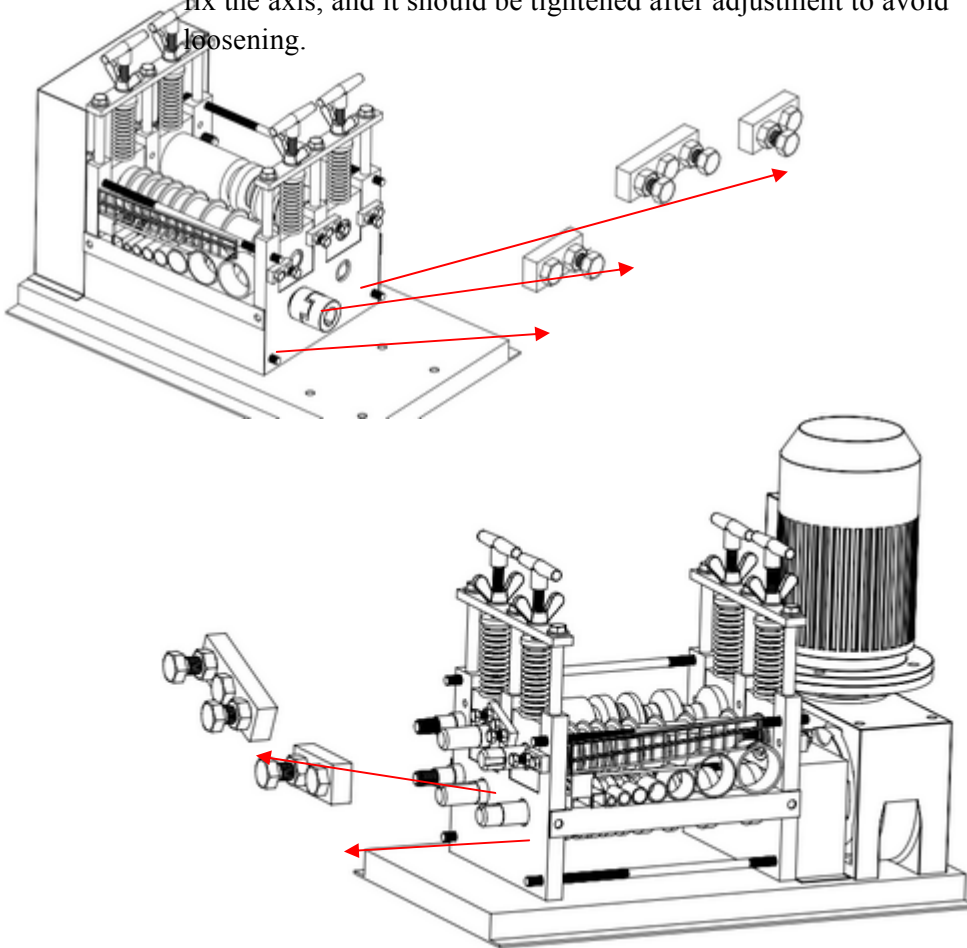
1.6.2 **Introduction of functions of each part:**

- 1.6.2.1 Protection part: this part consists of pulley shield, transmission shaft shield, discharging port shield etc, protecting the workers from accidents while using machine.
- 1.6.2.2 Adjustment part: this part consists of left and right adjustment device, and upper adjustment device.
- 1.6.2.3 Upper adjustment device: it consists of several elements (as the picture shows).Main function: it can adjust the cutting depth of the blade on the cable by tightening or loosening the T-shape handle.
- 1.6.2.4 The front T-shape handle is used for adjusting the space between axis3 and axis4 to achieve the effect of the cable being grinded or stripped for the second time after the first stripping. If the cable jacket is stuck, the T-shape handle should be loosened properly.
- 1.6.2.5 If the blade deviates from a straight line when stripping, please refer to the specification “1.6.2.9” left and right adjustment device.
- 1.6.2.6 Butterfly nut: it should be tightened to avoid the loosening of the T-shape handle when the stripping is normal.



1.6.2.7 Left and right adjustment device:

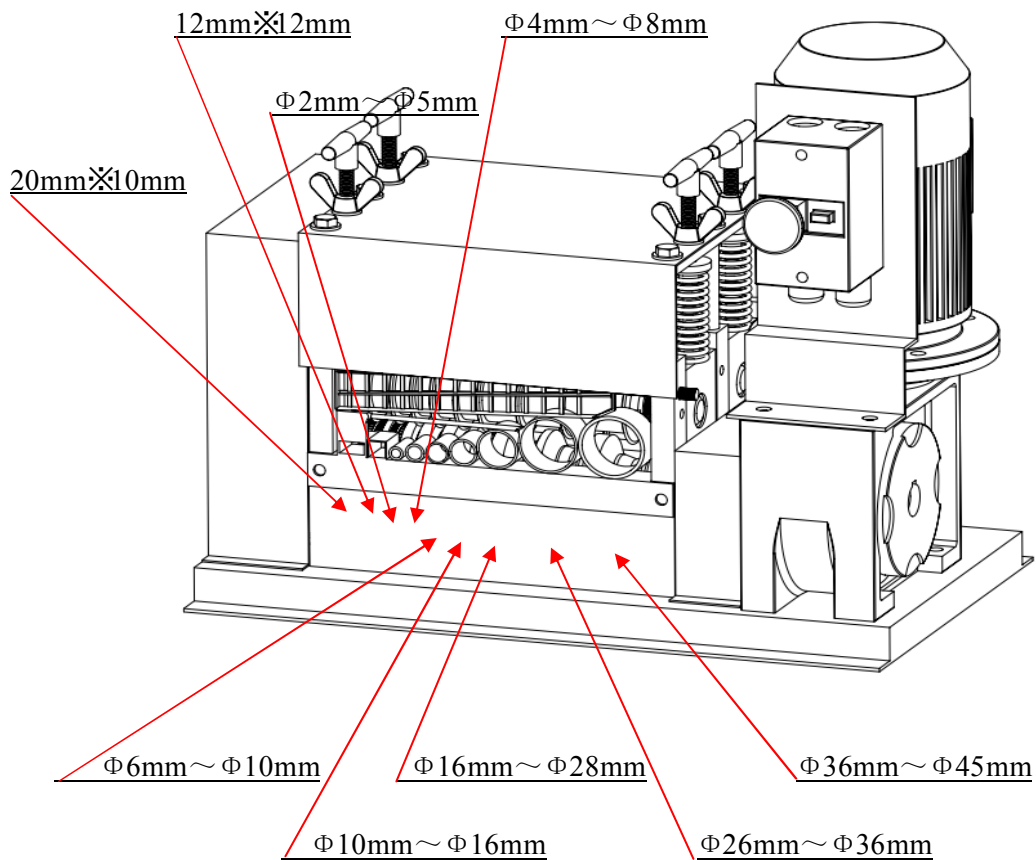
It consists of several elements as the picture shows. Its main function is to adjust the bolt to make the center of the blade placed on axis1 and axis4 aim at the center of rabbet placed on the axis2 and axis3. There will be gap when the blade cannot cut the cable open straightly because the two centers are not in a straight line. The M8 nut can be adjusted to fix the axis, and it should be tightened after adjustment to avoid loosening.



1.6.2.8 Feed port:

It consists of several elements as the picture shows. Its main function is to direct the cable into the machine for stripping. During wire stripping, feed ports should be selected according to the diameters of electric wires to be stripped (the feeding range is shown as the picture). When there are several feed ports for selection, testing processing should be conducted from large aperture to small ones in turn.

Pay attention that cables with piecing or plug should be removed first to avoid influencing the stripping effect or damaging the machine.



1.6.2.9 Electronic control part:

It consists of electromotor, switch, power line, plug etc.

Power supply of the machine: AC220V /50HZ. (AC110V/60HZ)

Users should examine carefully whether all the ligatures and electrical components are in good condition. Only when they are all normal the machine can be started up. If there is emergency, please switch off power rapidly.

1.7 **Notes of test run:**

1.7.1 **Inspection**

1. Check whether the fastening piece is fixed or not.
2. Check whether the transmission part is loosened or not.
3. Check whether the electrical part is in good condition.

2. **Operation**

1. Read this manual in detail before use the machine. Check the machine before starting it up.
2. The power of this machine is AC220V(110V); the power should be connected right.
3. After the power is on, press the “ON” button to start the machine.
4. Choose appropriate feed port for wire stripping according to the cable size (as picture 8 shows). Adjust the T-shape handle to guarantee the best cutting depth.
5. If emergency occurs during the stripping process, press the “Scram” button to stop the machine.
6. Clearing the residues on the machine after use.

3. **Common trouble shooting**

Common faults	Solutions
The machine doesn't work after being started.	<ol style="list-style-type: none">1. Check whether the power is connected.2. Check whether the electric wire is in good condition.3. Check whether the motor is damaged.
The cable is out of rabbet.	<ol style="list-style-type: none">1. Reselect the feed port.2. Adjust the T-shape handle.3. Adjust the left and right adjustment device to make the blade be consistent with the center of the V-shape rabbet.
The insulating layer of the cable can't be stripped.	<ol style="list-style-type: none">1. Reselect the feed port.2. Adjust the upper and below adjustment device.3. Adjust the left and right adjustment device to make the blade be consistent with the center of the V-shape rabbet.4. Check whether the blade is in good condition.5. Replace a new blade.

There is abnormal sound after the machine is started.	<ol style="list-style-type: none"> 1. Check whether some components are loosened. 2. Check whether the bearing is in good condition. 3. Check whether the chain is in good condition. 4. Add lubricating oil.
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Maintaining:

- 2.1 Clean up the machine after use.
- 2.2 Add lubricating oil for bearing.
- 2.3 Add antirust oil for gear and blade.
- 2.4 Place it in dry condition.

4. Security declaration

4.1 Unsafe factors:

1. The machine is equipped with sharp blade. It will injure people if he or she puts hands into the machine when it is in operation (namely when the blade is running).
2. The used power of this machine is 220V (110V) ; it is demanded that the operator should operate according to the requirements so as not to be shocked by electricity.
3. Repair the machine while it is running.

4.2 Safety rules:

1. The machine can't be started arbitrarily by person who is not familiar with its performance and operation rules. It's suggested that the operator should read and learn this manual carefully.
2. Prohibit dismantling the protective parts that are related with the machine safety. Before each use, check carefully the tightness of each part. Check whether electric parts are connected well and whether the switch can carry out the relevant action.
3. Prohibit arbitrary maintenance when the machine is running. If the emergency happens, the "OFF" switch should be pressed and the operation should be done after the power is cut off.
4. If the machine is blocked, shut down the machine, wear the protective gloves and pick up the materials using the relevant assistant tools.
5. During operation, please note the warning mark to avoid accidents.

