

# Copper Wire Recycling Machine



## 1. Prospect and Development Trend

With the development of modern communication and industry, the demand for metal wires is increasing. Due to the rapid replacement of old and new products, the amount of waste wire and cable recycling is increasing year by year. The traditional method is to burn the wire and cable with its own package to recover the metal in the wire and cable. This method is harmful to the environment, and it is not processed accurately by any equipment. The products of cable skin combustion can asphyxiate people and seriously damage the lungs and kill people.

The cost of copper, aluminum, iron and various rare and precious metals and plastics in the cable is much lower than the cost of obtaining resources directly from ore, raw materials and other smelting processes, and energy saving. These waste cable recycling, formed a veritable recycling economy. This recycling mode highlights the efficient use of resources and the pursuit of maximum economic and social benefits with the least resource consumption and environmental cost.

The copper rice machine provided by our company is specialized in processing all kinds of cables at different levels including communication cables and various miscellaneous cables which are not suitable for processing by wire stripping machine.

After disassembling the scrap copper miscellaneous wire, the copper rice machine separates the metal and plastic rubber sheet of the scrap wire and then blows the air to directly obtain the high-purity copper rice. Plastic can be sent to a plastic factory for recycling and other plastic products. The rice is sent to smelters for direct smelting and casting. Among them, purple hybrid copper can be continuously cast and rolled to produce low-oxygen bright copper rod, or electrolyte to produce high-purity electrolytic copper powder with high conductivity and thermal conductivity, as the raw material for the production of self-lubricating bearings and electronic components.

## 2. Main Technical Parameters

Model	Treatment Capacity (KG/H)	Select Efficiency	Dusting Efficiency	Total Power (KW)
LT500	400-500	≥ 97%	≥ 99%	140
LT800	600-800	95-99%	99%	92.62
LT1000	1000	≥ 97%	99%	120
LT1200	1000-1200	≥ 99%	99%	165
LT1500	1200-1500	≥ 95%	99%	175

Note: All the equipment is suitable for wire dia within 80mm, and when the dia beyond 80mm, the peeling machine is needed.

### 3. Features

1. PLC program control, uniform feeding and automatic alarm device, guarantee the maximum stability of the equipment running.
2. Compact structure, beautiful appearance, reasonable layout, safe and reliable.
3. The crusher, separator equipment and integrated equipment use platform type combination, which it's convenient for move and transport, adding the flexibility of the whole line.
4. Crusher rotor adopts alternating shaft, making higher production efficiency, lower noise, and more stable operation.
5. The sorting efficiency of high-precision air flow separator is as high as 95%-99%.
6. Feedback system leads the semi-finished products to second grinder, improving the sorting efficiency.
7. Pulse dust catcher is effective in suppressing dust spillover, and the efficiency of dust removal is up to 99%.
8. Air filtration system can effectively avoid the dust produced by the second grinder.
9. Hydraulic system can open the second grinder body easily, and it's easy for staff to do daily maintenance.

### 4. Workflow

Belt Conveyor → Shaft Shredder → Magnetic Separator → Belt Conveyor → Feeder → Belt Conveyor → Crusher → Vibration Separation+Dust Removal → Static Separation / Fine Wires Vibrating Screen + Dust Removing Device

### 5. Processing Effect



Product link : <https://www.linttop.com/copper-wire-recycling-machine.html>