Automatic Handheld Nylon Cable Rolling Machine WPM-2503

Model No. WPM-2503



SPECIFICATIONS

Automatic Handheld Nylon Cable Rolling Machine WPM-2503	
Equipment Size	720*660*780mm
Weight	130kg
Equipment Power	400 W
Scope of Application	100mm/120mm/150mm
Equipment Voltage	AC 220V
Air Pressure	0.6mPA+-0.5
Bundling Diameter	1-50mm
Waste Recycling	Optional
Speed	2300 pcs per hour
Control Method	PLC + Touch screen
Feeding Method	Vibration plate automatic feeding
Usage	Automobile wiring harness, chassis internal wiring, Christmas lights, photovoltaic line, assembly-line operation, building steel bar binding
Tightness Adjustment	Manually adjustable

The WPM-2503 wraps a nylon cable tie around a coil and tightens it in one automatic cycle, replacing the manual roll-and-tie step at the end of a cable line. It covers bundles from 1 mm to 50 mm in diameter with 100 mm, 120 mm or 150 mm ties, and runs at 2300 pcs per hour. The unit is floor-standing, 720 x 660 x 780 mm at 130 kg, on castors so it can be moved between lines.

The cycle is short enough that handling dominates: at 0.7 s for feeding, reeling, tightening and cutting, the operator is loading coils faster than the head can tie them, and the bottleneck moves upstream. Ties are fed from a vibrating bowl that orients each one before it reaches the jaw, so the head is never hand-loaded and never runs with a reversed tie. Loop tightness is set on a manual adjuster, which lets the same machine run a slack loop for a multi-core cable and a firm loop for a single flexible cord without a program change.

It is a machine, not a consumable. The JW-PK06 supplies the flat binding wire used by winding-and-tying heads, whereas the WPM-2503 uses moulded nylon ties out of a bowl; the WPM-100 cuts sleeve, tube and belt to length but stops there, and this unit is the one that closes the loop around a finished coil.

Key Features

1. 2300 pcs per hour, on a 0.7 s cycle that covers feeding, reeling, tightening and cutting in one sequence with no second operator station.

2. Bundle range of 1-50 mm diameter, run with 100 mm, 120 mm or 150 mm nylon ties, which covers light sets and multi-core power cable on the same head.

3. Vibration plate automatic feeding orients and presents each tie, so the jaw is loaded by the machine and the cycle does not stop for reloading.

4. PLC control with a touch screen sets the count and the cycle; a three-colour tower light shows run, stop and fault at the end of the line.

5. Tightness is manually adjustable, allowing the loop to be tuned to the cable jacket without editing the program.

6. 400 W at AC 220 V with shop air at 0.6 MPa, on a 130 kg, 720 x 660 x 780 mm frame with castors, plus an optional waste recycling unit for the cut tie tails.

Technical Specifications

Parameter	Specification
Model	WPM-2503
Machine type	Automatic handheld nylon cable rolling and tying machine
Equipment size	720 x 660 x 780 mm
Weight	130 kg
Power	400 W
Voltage	AC 220 V
Air pressure	0.6 MPa (+/-0.5)
Bundling diameter	1-50 mm
Tie scope	100 mm / 120 mm / 150 mm
Speed	2300 pcs per hour, 0.7 s per cycle
Control method	PLC + touch screen
Feeding method	Vibration plate automatic feeding
Tightness adjustment	Manually adjustable
Waste recycling	Optional

Applications

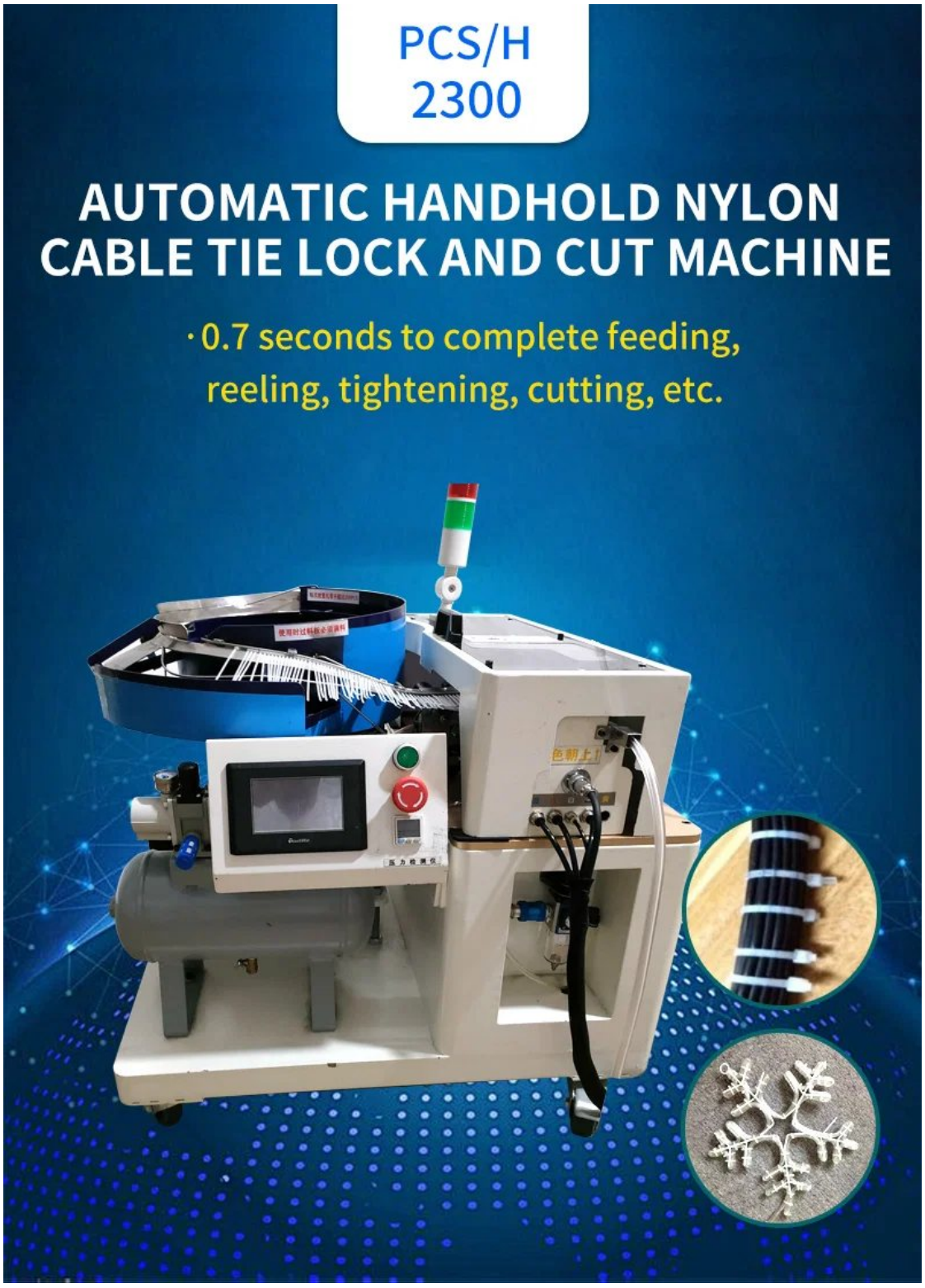
— Automotive wiring harness: coiled branches and sub-assemblies tied at the end of the cut-and-crimp line before they are packed for the chassis side.

— Christmas and decorative light strings: coiled light sets tied with 100-150 mm ties at 2300 pcs/h, where hand tying would set the line rate.

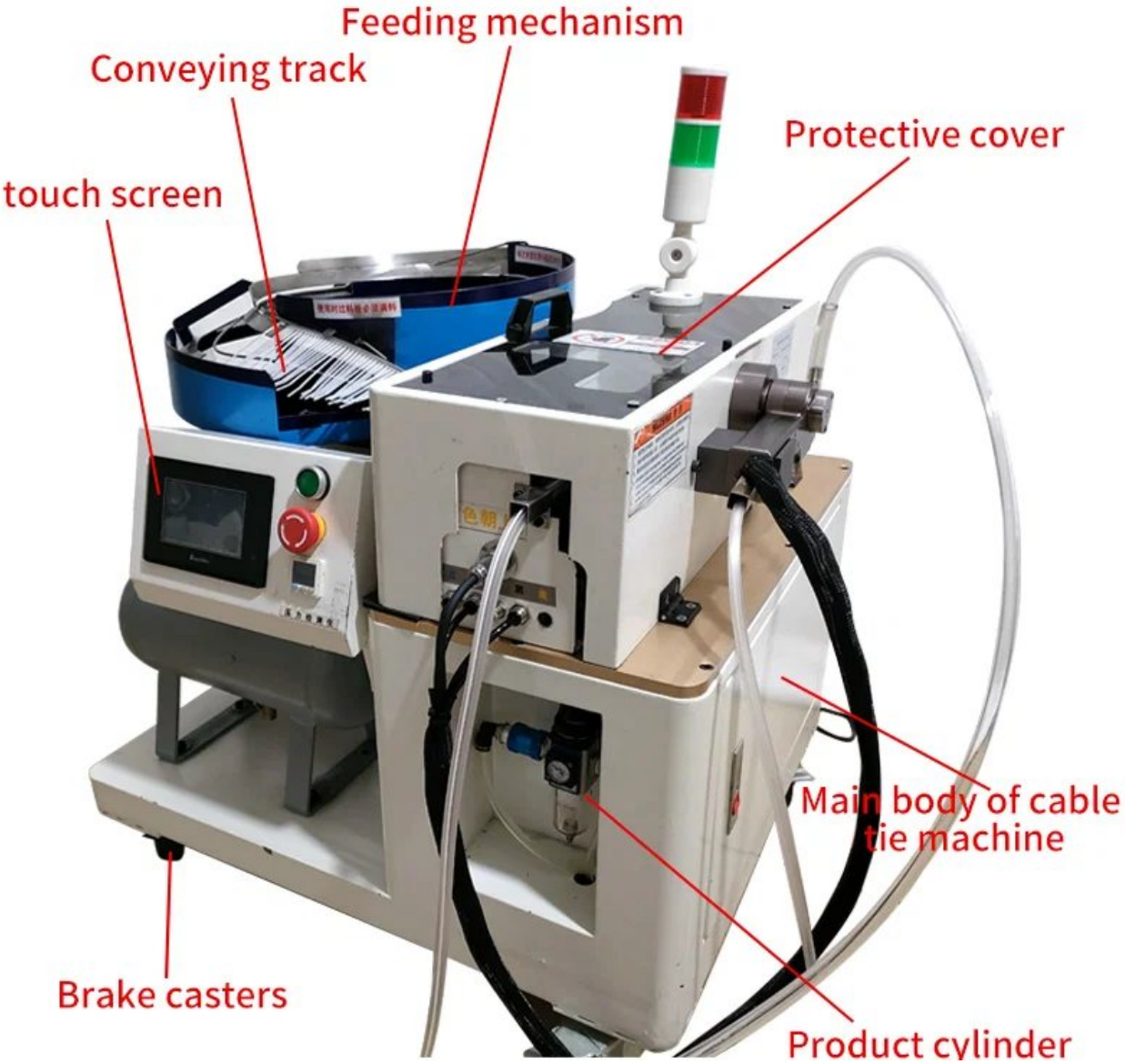
— Photovoltaic cable: DC leads coiled and tied for packing, with the loop tension set low enough that the insulation is not marked.

— USB, HDMI and power cord finishing: coil and tie in one cycle in place of a manual roll, twist and cut, on cable from 1 mm upward.

— Building steel bar binding and general assembly-line bundling: rod and bar bundles inside the 50 mm limit tied at a fixed tension.



PRODUCT ANALYSIS

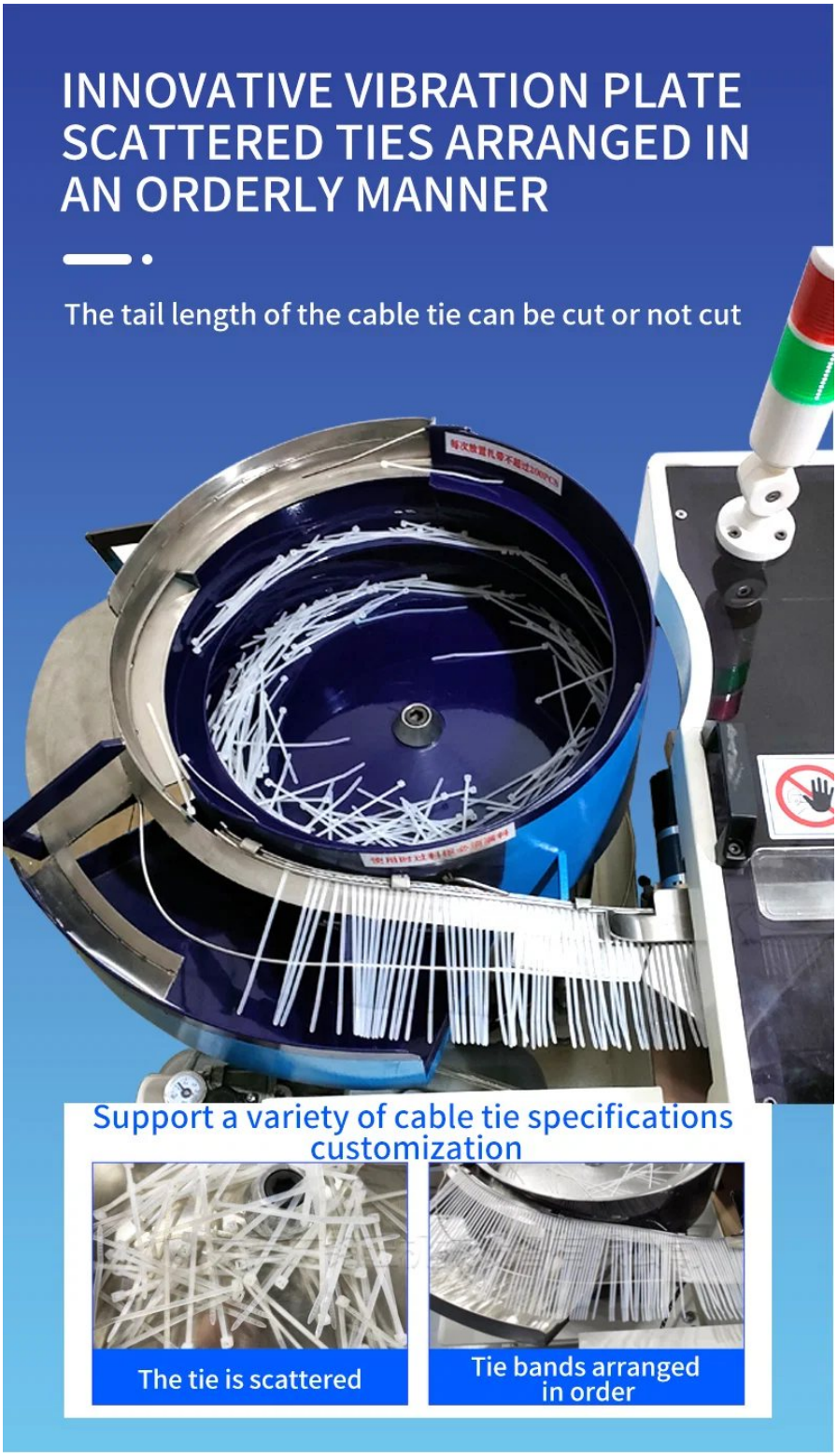


SAMPLE DISPLAY

The best choice for processing discrete wires and multi-core wires

Suitable for all kinds of wire harness bundling. Airplanes, trains, ships, automobiles, communication equipment,Internal wiring harness bundling for on-site assembly of home appliances and other large electromechanical equipment.
Be applicable For packaging or fixing items, fixing gas-liquid transmission pipeline joints, food packaging, and bags Liquid packaging, etc.




INNOVATIVE VIBRATION PLATE SCATTERED TIES ARRANGED IN AN ORDERLY MANNER
The tail length of the cable tie can be cut or not cut
Support a variety of cable tie specifications customization
The tie is scattered
Tie bands arranged in order

TIE GUN HEAD
IT ONLY TAKES 1.2S TO COMPLETE THE CABLE TIE

Precise positioning and fine workmanship

Hold the handle of the gun, pull the trigger, automatically complete feeding, perforating, strapping, tightening, cutting, and discharging waste





PRODUCT FEATURE INFORMATION

Choose carefully

1. Automatic PLC touch screen control circuit, simple and convenient operation, good working stability

2. Bulk nylon cable ties realize automatic feeding
3. Automatic threading and cutting of cable ties, saving time and effort, and improving work efficiency several times.

4. Digital adjustment of strap elasticity and touch screen
5. Digital adjustment of cable ties and touch screen

PRODUCT DETAILS

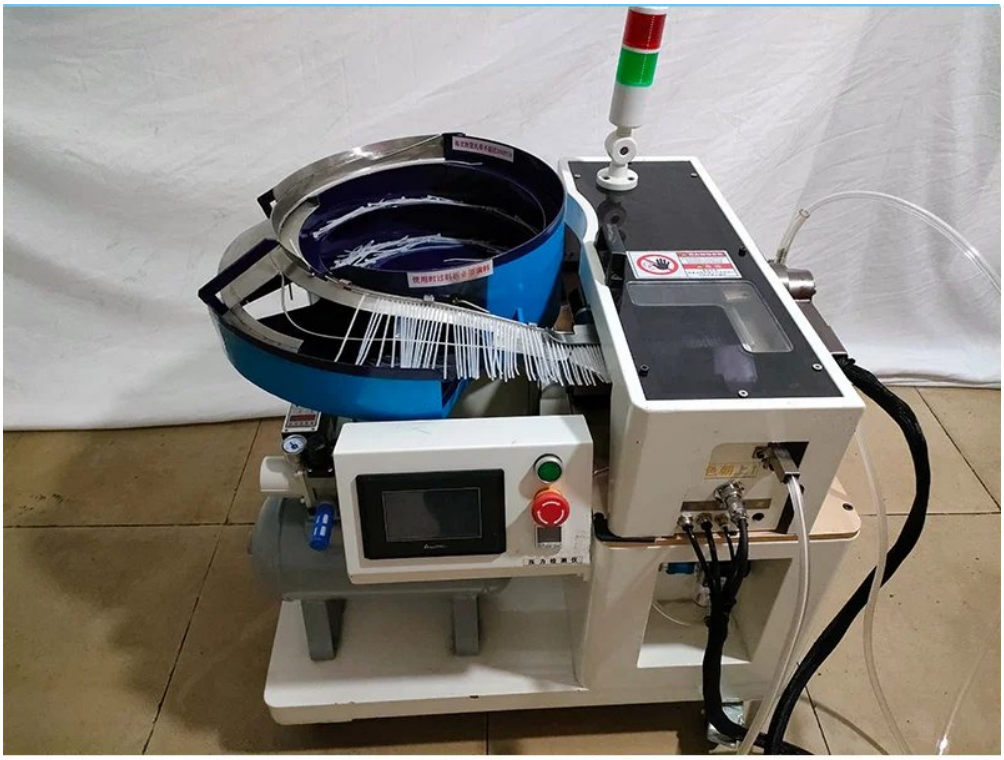
1

TOUCH SCREEN DISPLAY

Intelligent computer data system Faster debugging, simple and convenient operation




2
RECYCLABLE WASTE
Eliminate manual feeding, save time and cost
3
VIBRATING PLATE
Tie the disordered bulk materials and feed them neatly Feeder,
4
SIDE BLOWING DEVICE
Intelligent adjustment of cable tie position, worry-free Effortless
5
HAND-HELD GUN HEAD
Hand-held gun head is light weight, grip design Small and compact, the binding force can be Rotation adjustment





Product Images



FAQ

What is the production speed of the WPM-2503 Automatic Handheld Nylon Cable Rolling Machine?

The WPM-2503 is a high-speed cable bundling solution, capable of bundling up to 2300 pieces per hour. This efficiency significantly boosts productivity in industrial cable harness assembly and other wire management applications.

What cable or wire diameters can the WPM-2503 handle?

This automatic cable rolling machine is versatile and designed to handle a wide range of bundle diameters, from 1mm up to 50mm. This makes it suitable for various industrial applications, from small wire harnesses to larger cable assemblies.

How is the WPM-2503 controlled and what are the benefits?

The machine features advanced PLC (Programmable Logic Controller) control. This ensures consistent, reliable operation with precise tensioning and tying cycles. The PLC system allows for easy setup, minimal operator intervention, and consistent, high-quality bundling results.

Is the WPM-2503 a handheld or benchtop machine?

The WPM-2503 is an automatic handheld nylon cable bundler. Its ergonomic handheld design provides excellent maneuverability, allowing operators to easily bring the machine to the workpiece, which is ideal for large or stationary cable harnesses and assemblies on the production floor.

What are the primary benefits of using this automatic twist tie machine?

The WPM-2503 offers several key benefits: it dramatically increases bundling speed compared to manual tying, ensures uniform and reliable tension on every tie, reduces operator fatigue with its automated handheld operation, and improves overall production efficiency and consistency for industrial cable harness equipment needs.