Automatic Coil Winding & Tape Wrapping Machine WPM-301

Model No. WPM-301



SPECIFICATIONS

Model Number	WPM-301
Tape width	2-50mm
Wire diameter	0.1-50mm
Winding length	0-600mm/second
Net Weight	35kg
Size	300*350*425mm
Motor power	AC220V 50/60Hz 300W

The WPM-301 is a bench-top unit that combines coil winding with tape wrapping for wire harness assembly. It accepts tape from 2 mm to 50 mm wide and handles wire from 0.1 mm to 50 mm in diameter, so one head covers single leads as well as small cable bundles.

Compared with hand taping, the motorised head feeds at a set winding length of up to 600 mm per second and holds the same pitch from the first wrap to the last. Three stored patterns - branch winding, dense winding and 1/2 overlapping winding - reproduce the same joint on every unit, instead of leaving overlap and tension to the operator's feel.

Inside this group the WPM-301 is the model that also winds coils, and it has the widest tape range at 2-50 mm. The WPM-303 (84) and WPM-302 (159) wrap only, and the WPM-303 adds a touch screen with unlimited wrapping length while the WPM-302 is a pure electric taper at 800 mm per second.

Key Features

1. Coil winding and tape wrapping combined in one automatic cycle

2. Tape width 2-50 mm accepted on the same wrap head

3. Wire diameter 0.1-50 mm, from single leads to bundled cable

4. Winding length up to 600 mm per second with motorised feed

5. Three wrap patterns: branch winding, dense winding, 1/2 overlapping winding

6. 300 W motor on AC 220 V 50/60 Hz; 35 kg bench-top frame

Technical Specifications

Parameter	Specification
Model	WPM-301
Function	Coil winding and tape wrapping

Parameter	Specification
Tape width	2-50 mm
Wire diameter	0.1-50 mm
Winding length	0-600 mm/second
Wrap patterns	Branch, dense, 1/2 overlapping
Net weight	35 kg
Dimensions	300 x 350 x 425 mm
Motor power	AC 220 V 50/60 Hz, 300 W

Applications

— Automotive wire harness - taping branch joints and splices on multi-core engine and cabin looms

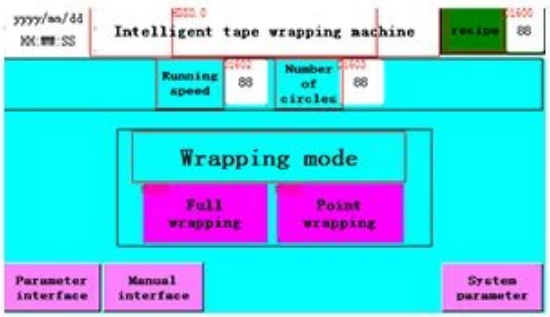
— Home appliance wiring - wrapping lead bundles for refrigerators, washing machines and air conditioners

— Control panel assembly - taping formed harness bundles before routing into enclosures

— Electronics production - wrapping fine 0.1 mm leads and sensor cables

— Coil and transformer winding - winding and taping small coils in one operation





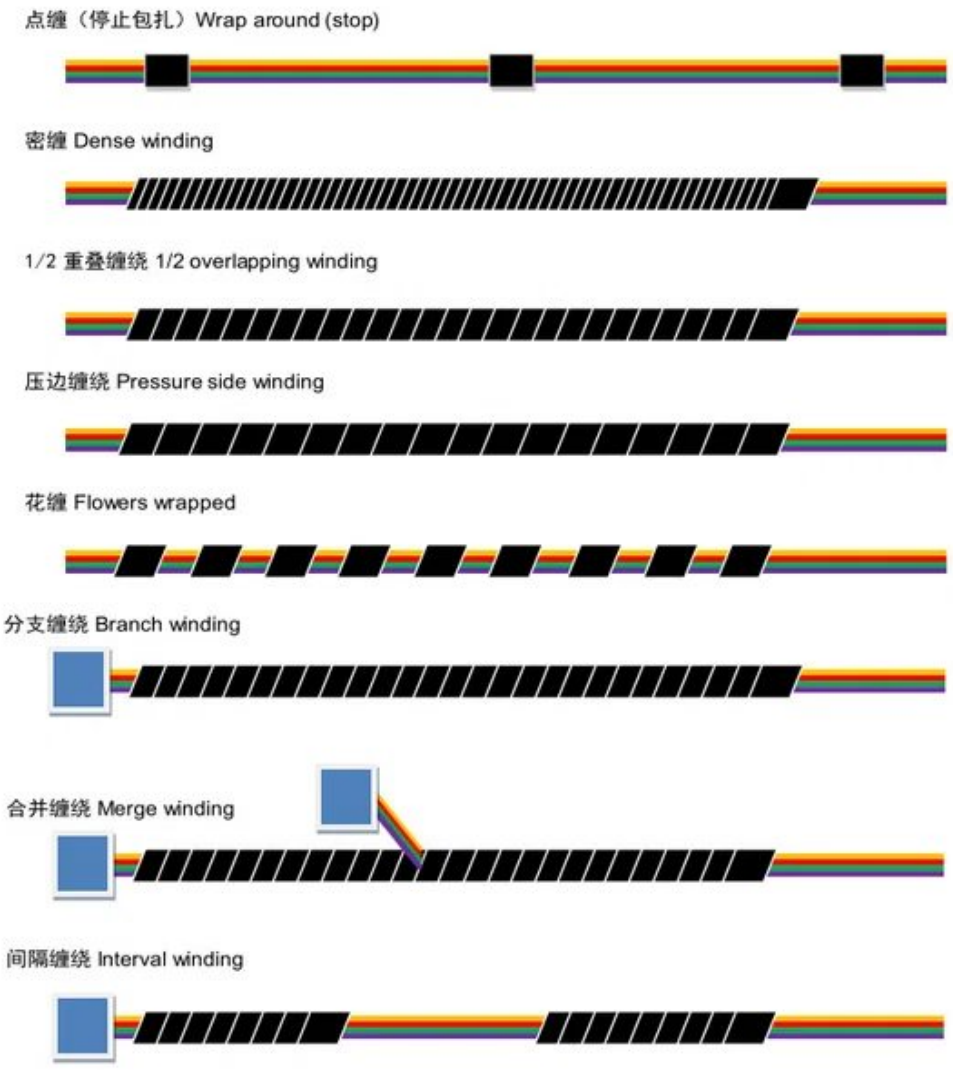


Touch Screen & Easy Working Mode Change

Press on touch screen to change the working modes between ‘full wrapping’ and ‘spot wrapping’. The wrapping speed and wrapping numbers can be freely changed and set by operator.

Applicable for Wide Range of Industrial Tapes

Application



Product Images



FAQ

What are the primary applications of the JINGWEI Automatic Tape Wrapping Machine WPM-301?

The JINGWEI WPM-301 Automatic Tape Wrapping Machine is designed for high-efficiency industrial wire and cable processing. Its primary applications include wrapping insulating tape, marking tape, or protective sheathing onto wire harnesses, cable assemblies, and individual conductors. It is ideal for manufacturers in the automotive, appliance, aerospace, and consumer electronics industries who require consistent, precise, and durable taping for cable harness production.

What key features make the WPM-301 an efficient wire taping machine?

The WPM-301 boasts several key features for superior efficiency: an automatic feeding and cutting system for continuous operation, adjustable tape tension control for consistent wraps, programmable logic controller (PLC) for precise speed and length settings, and a user-friendly HMI touchscreen interface. Its robust construction ensures minimal downtime, while high-speed wrapping capability significantly increases output compared to manual methods, making it a cost-effective solution for volume production.

How does the JINGWEI WPM-301 ensure precise and consistent tape wrapping?

Precision is achieved through a combination of advanced mechanics and digital controls. The machine utilizes a servo-driven system for accurate tape feed and cutting. Operators can program the exact wrap length, overlap percentage, and pitch via the PLC. Integrated sensors monitor the process in real-time, ensuring each wrap is uniform. This eliminates human error and guarantees consistent quality across every cable, which is critical for meeting strict industrial standards and reducing material waste.

As a manufacturer in China, what support does JINGWEI provide with this cable wrapping machine?

JINGWEI, as a leading Chinese manufacturer of wire processing machinery, provides comprehensive support with the WPM-301. This includes detailed operational training, thorough technical documentation (manuals, wiring diagrams), and a standard warranty covering parts and workmanship. We also offer reliable access to genuine spare parts and provide responsive technical assistance to ensure minimal disruption to your production line. Our global distribution network facilitates efficient delivery and local service where available.

What types of tape and cable diameters can the Automatic Tape Wrapping Machine WPM-301 handle?

The WPM-301 is highly versatile and can accommodate a wide range of materials. It is compatible with various tape types including PVC, cloth, polyester, and non-adhesive spiral wrapping tapes. The machine can process cable or wire harness diameters typically ranging from approximately 2mm to 30mm (exact capacity may vary based on tape and harness configuration). The adjustable guide rollers and programmable settings allow for quick changeovers between different product specifications, enhancing its flexibility for diverse production runs.