Automatic Braided Sleeving Threading Machine for Wire Harness WPM-BZ1

Model No. WPM-BZ1



SPECIFICATIONS

Model Number	WPM-BZ1
Applicable Sleeving	Fiber sleeving (woven mesh), melt cut materials
Applicable Wire Range	Custom type (wire diameter ⩽ pipe diameter)
Guide Tube Diameter	12-25mm
Cutting Accuracy	±3mm
Cutting Length	100mm-1200mm
Speed	⩾1000 pieces/hour
Power	Single phase AC 220V/50Hz
Energy Consumption	400W/Hr
Operating Temperature	-5°C to +40°C
Relative Humidity	40-90% RH
Gas Source	0.4-0.6MPa
Weight	Approximately 80kg

The WPM-BZ1 threads expandable braided sleeving over wire harnesses and cuts it to length. It takes fibre woven mesh and melt-cut sleeving through a 12-25 mm guide tube and cuts anywhere from 100 mm to 1200 mm.

Sleeving by hand is slow and the cut end frays. The machine pushes the sleeve over the bundle and cuts with a heated blade so the mesh fuses at the cut, holding ±3 mm on length at 1000 pieces per hour or more. Every piece leaves at the same length with a sealed end.

This is the only model in the group that does not apply tape. The others wrap adhesive tape around a conductor, while the WPM-BZ1 feeds and cuts protective braided sleeve over an assembled harness, so it is specified by guide tube diameter and cut length rather than tape width and wrap overlap.

Key Features

1. Threads and cuts woven mesh sleeving in one automatic cycle

2. Melt-cut blade fuses the mesh ends to stop fraying

3. Cutting length 100-1200 mm with ±3 mm accuracy

4. Guide tube diameter 12-25 mm for different sleeve sizes

5. Output 1000 pieces per hour or higher

6. Single-phase AC 220 V, 400 W/hr; air supply 0.4-0.6 MPa

Technical Specifications

Parameter	Specification
Model	WPM-BZ1
Function	Braided sleeving threading and cutting
Applicable sleeving	Fibre sleeving (woven mesh), melt-cut materials
Applicable wire range	Custom (wire diameter ⩽ pipe diameter)
Guide tube diameter	12-25 mm
Cutting length	100-1200 mm
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Relative humidity	40-90% RH
Weight	Approx. 80 kg

Applications

— Automotive engine bay - sleeving harness sections against abrasion before clipping

— Industrial machinery - protective mesh sleeve over control and motor cables

— Appliance internal loom - sleeving lead bundles that pass through sheet metal

— Rail and energy cabinets - sleeving cable runs where chafe resistance is required

— Custom cable kits - cutting matched sleeve lengths for a harness bill of materials

FAQ

What is the primary function of the WPM-BZ1 Automatic Braided Sleeving Threading Machine?

The WPM-BZ1 is a fully automatic braided sleeving machine designed to streamline wire harness and cable assembly. Its primary function is to automatically thread pre-cut lengths of woven braided sleeving onto wires or cables, significantly increasing production speed and ensuring consistent, high-quality sleeving application for protection and organization.

What is the production speed and accuracy of this automatic sleeving machine?

The WPM-BZ1 is engineered for high-volume production, capable of cutting and threading over 1000 pieces of braided sleeving per hour. It maintains a high degree of precision with a cutting accuracy of ±3mm, ensuring uniform sleeve lengths and reducing material waste for efficient, reliable wire harness manufacturing.

What types of applications or industries is this braided sleeving machine suitable for?

This automatic cable sleeving equipment is ideal for any industry requiring organized and protected wire harnesses, including automotive, aerospace, appliance manufacturing, industrial control panels, and consumer electronics. It automates the threading of expandable braided sleeves used for abrasion resistance, EMI shielding, and aesthetic bundling of cables.

How does the WPM-BZ1 improve the wire harness assembly process compared to manual methods?

The machine automates the most labor-intensive part of sleeving: threading the sleeve onto the wire. This eliminates manual stretching and feeding, drastically increasing throughput, reducing operator fatigue, and ensuring consistent tension and placement. Automation with the WPM-BZ1 leads to higher output, lower labor costs, and improved product uniformity.

What are the key benefits of using an automatic woven sleeve applicator like the WPM-BZ1?

Key benefits include dramatic increases in production efficiency (1000+ pieces/hour), exceptional consistency and accuracy (±3mm), significant reduction in manual labor and associated costs, minimized material waste through precise cutting, and enhanced overall quality and reliability of the finished wire harness or cable assembly.