

JW

JW Automatic Wire Feeder Catalog

Automatic Wire Pre-Feeders & Dereelers for Cable Harness Production

12 Products

JW

Automatic Wire Feeder

Product Catalog 2025

Pre-Feeders | Dereelers | Multi-Reel Systems
Integrated Feeder + Heat-Shrink Solutions



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Product Overview

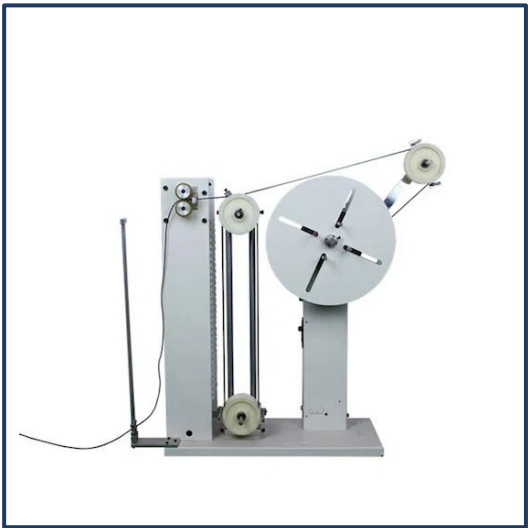
Tension-free wire pre-feeders, multi-reel feeding systems, dereelers and integrated feeder+heat-shrink machines for smooth wire supply

WPM-500C  Automatic Wire Pre-Feeder Machine for Harness Production	WPM-K203  Tension-Free Coaxial Cable Prefeeding Machine	WPM-F001  Automatic Wire Prefeed & Dereeler Machine 750W 60KG	WPM-E001  4-Reel Cable Feeder System: Automated Wire Processing
WPM-E005  5-Reel Wire Prefeeder Machine for Cable Harness	WPM-C002  Automatic Wire Spool Dereeler Machine 20KG Capacity	WPM-F003  Cable Prefeeder - 750W Variable Speed Wire Processing	WPM-50F  Automated Wire Harness Feeder & Heat-Shrinking Tubing Oven
WPM-02  Compact Automatic Wire Prefeeder Paying Machine for Wire Harness Processing	WRD-12Z  Automatic Wire Feeder Machine 35kg Capacity 60W	WPM-9040  Automatic Wire Feeding Machine with Adjustable Speed	WPM-05A  Compact Automatic Wire Pre-Feeder for Cable Harness Production

WPM-500C

Automatic Wire Pre-Feeder Machine for Harness Production

Heavy-Duty 35KG Capacity Pre-Feeder with Brake Function



Key Features

- Heavy-duty construction with 35kg rated load for extended production runs
- Integrated gas & electrical systems with built-in brake for precise tension control
- Handles cables up to 10mm diameter; small footprint, easy to move

Description

The WPM-500C is a robust automatic wire pre-feeder machine designed for demanding wire harness production environments. Featuring heavy-duty construction with integrated gas and electrical systems, this machine delivers reliable automatic wire pay-off with precise tension control via a built-in brake function. With a 35kg rated load capacity and compatibility with cables up to 10mm diameter, the WPM-500C handles large wire spools while maintaining a small footprint for easy workspace integration. Compatible with fully automatic crimping, stripping, and other wire harness processing equipment.

Specifications

Model	WPM-500C
Weight	50kg
Rated Load	35kg
Cable Diameter	Up to 10mm
Coil Inner Diameter	85-320mm
Max. Outer Diameter	Within 380mm
Max. Wire Width	120mm or less
Integration	Gas & Electrical Integration
Operation	Automatic Pay-off with Brake
Mobility	Easy to Move

WPM-K203

Tension-Free Coaxial Cable Prefeeding Machine

Dual Motor System with Built-in Wire Straightener for Coaxial Cables



Key Features

- Tension-free feeding prevents coaxial cable deformation and signal loss
- Dual motor system with built-in wire straightener and multiple sensors
- High-speed feeding up to 2.5m/s for coaxial cables up to 5mm diameter

Description

The WPM-K203 is a specialized tension-free coaxial cable prefeeding machine engineered for delicate coaxial cable processing. Equipped with a dual motor system, built-in wire straightener, and multiple sensors, this machine ensures smooth, damage-free wire delivery at speeds up to 2.5m/s. The tension-free feeding mechanism prevents cable deformation and signal degradation, making it ideal for coaxial cable harness production in telecommunications, automotive, and electronics industries.

Specifications

Model	WPM-K203
Available Wire Size	Φ0.6-5mm
Max. Feeding Speed	2.5m/s
Max. Reel Weight	25kg
Power Supply	220V/50Hz
Weight	40kg
Dimensions (L×W×H)	830×550×950mm
Integrated Features	Wire Straightener, Dual Motor, Sensors
Feeding Type	Automatic Tension-Free

WPM-F001

Automatic Wire Prefeed & Dereeler Machine 750W 60KG

Heavy-Duty Dereeler with Infinitely Variable Speed and Auto Induction Brakes



Key Features

- Powerful 750W motor with 60kg loading capacity for heavy wire spools
- Infinitely variable speed with automatic induction brakes and guide rails
- Compatible with crimping, winding, cutting and soldering machines

Description

The WPM-F001 is a powerful 750W automatic wire prefeed and dereeler machine with a 60kg loading capacity, designed for high-volume wire processing. Featuring infinitely variable speed control, active wire feeding with automatic induction brakes, and adjustable wire wheels for different diameters, this machine delivers consistent wire supply to fully automatic crimping, winding, cutting, and soldering equipment. Low-noise operation and constant-speed guide rails ensure smooth, reliable performance in demanding production environments.

Specifications

Model	WPM-F001
Power Supply	220V
Motor Power	750W
Loading Capacity	60kg
Speed Control	Infinitely Variable Speed
Feeding Type	Active Feeding, Auto Induction
Wire Wheel	Adjustable for Wire Diameter
Noise Level	Low Noise Operation
Braking	Automatic Induction with Brakes

WPM-E001

4-Reel Cable Feeder System: Automated Wire Processing

Four Independent Reels with Electronic Induction Brake, 15KG per Reel



Key Features

- Four independent motorized reels for simultaneous multi-wire feeding
- Electronic induction brake with automatic tension-free feed rate adjustment
- Handles wires, flat cables, sheathed cables and steel wires (with/without reels)

Description

The WPM-E001 is a 4-reel cable feeder system designed for automated multi-wire processing. Featuring four independent motorized reels with electronic induction brakes, each reel can carry up to 15kg of wire spools (20-30cm diameter). The system provides fully automatic tension-free pre-feeding with automatic feed rate adjustment, accommodating electrical wires, flat cables, sheathed cables, and steel wires—with or without reels. Ideal for multi-wire harness assembly lines requiring simultaneous feeding of multiple wire types.

Specifications

Model	WPM-E001
Number of Reels	4
Voltage	220V
Power	180W
Brake Type	Electronic Induction Brake
Carrying Capacity/Reel	≥15kg
Reel Diameter	20-30cm
Weight	120kg
Dimensions (L×W×H)	110×85×75cm
Wire Compatibility	Electrical wires, flat cables, sheathed cables, steel wires

WPM-E005

5-Reel Wire Prefeeder Machine for Cable Harness

Five Independent Motors with Tension-Free Active Storage, 20KG per Reel



Key Features

- Five independent motor reels for simultaneous multi-wire harness production
- Tension-free feeding with active storage buffer and dancer pulley control
- Handles wire reel or loose coil; 650W power, 20kg capacity per reel

Description

The WPM-E005 is a 5-reel wire prefeeder machine engineered for high-efficiency cable harness production. With five independent motor-driven reels, each supporting up to 20kg spools (max diameter 350mm), the machine delivers tension-free continuous wire feeding via a moveable dancer pulley system that responds to downstream demand. The active storage buffer (approx. 1m) absorbs speed variations, while each reel operates independently for wires, flat cables, and sheathed cables from 0.5-4mm diameter. Supports both reel-mounted and loose coil wire formats.

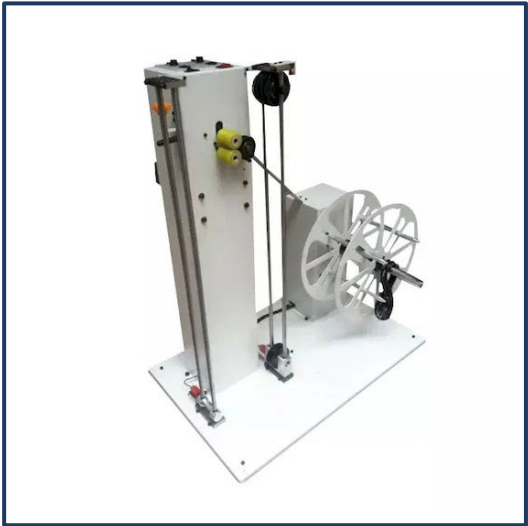
Specifications

Model	WPM-E005
Number of Reels	5
Available Wire Diameter	Φ0.5-4mm
Ribbon Cable Max Width	25mm
Max. Spool Diameter	350mm
Max. Spool Width	250mm
Max. Spool Weight	20kg
Storage Capacity	Approx. 1m
Power Rating	650W
Power Supply	220V 50/60Hz
Net Weight	130kg
Dimensions (L×W×H)	900×800×1250mm

WPM-C002

Automatic Wire Spool Dereeler Machine 20KG Capacity

Dual Motor (120W+180W) with 10 Speed Levels and Auto Induction Brakes



Key Features

- Dual motor design (120W+180W) for balanced wire wheel and spool drive
- 10 speed levels with automatic induction braking for precise control
- Standalone operation; compatible with crimping, cutting, stripping and soldering machines

Description

The WPM-C002 is a compact automatic wire spool dereeler with 20kg bearing capacity, featuring a dual-motor design (120W wire wheel motor + 180W spool drive motor) for smooth and controlled wire pay-off. With 10 selectable speed levels and automatic induction brakes, it delivers precise wire feeding to crimping machines, computerized wire cutting and stripping machines, and soldering equipment. The standalone design allows flexible placement alongside any wire processing machine on the production floor.

Specifications

Model	WPM-C002
Power Supply	220V
Front Motor (Wire Wheel)	120W
Rear Motor (Spool Drive)	180W
Speed Levels	10
Bearing Capacity	20kg
Dimensions (L×W×H)	700×800×1025mm
Operation	Automatic Feeding, Induction Brakes
Standalone	Yes

WPM-F003

Cable Prefeeder - 750W Variable Speed Wire Processing

Infinitely Variable Speed with 50KG Capacity and Low-Noise Operation



Key Features

- 750W motor with infinitely variable speed for flexible production pace
- 50kg loading capacity with adjustable wire wheels for various diameters
- Low-noise active feeding with automatic induction; broad equipment compatibility

Description

The WPM-F003 is a 750W variable-speed cable prefeeder designed for flexible wire processing applications. With a 50kg loading capacity and infinitely variable speed control, it adapts to varying production speeds across crimping, winding, cutting, and soldering operations. The adjustable wire wheel accommodates different wire diameters, while low-noise operation ensures a comfortable working environment. Active wire feeding with automatic induction delivers consistent wire tension for high-quality processing results.

Specifications

Model	WPM-F003
Power Supply	220V
Motor Power	750W
Loading Capacity	50kg
Dimensions (L×W×H)	1000×600×1000mm
Speed Control	Infinitely Variable Speed
Feeding Type	Active Feeding, Auto Induction
Wire Wheel	Adjustable for Wire Diameter
Noise Level	Low Noise Operation

WPM-50F

Automated Wire Harness Feeder & Heat-Shrinking Tubing Oven

Integrated Feeding + Heat-Shrink System: 4.5KW Hot Air, 0-100mm/s Conveyor



Key Features

- Integrated wire feeder + heat-shrinking oven saves floor space and labor
- Hot air heating with dual 2KW tubes; stepless conveyor 0-100mm/s
- Handles harnesses up to 50mm diameter, 500mm heating length with cooling zone

Description

The WPM-50F is an innovative integrated system combining automatic wire harness feeding with a heat-shrinking tubing oven in one compact machine. It handles wire harnesses up to 50mm diameter with a maximum heating length of 500mm, using stainless steel and aluminum alloy heaters with hot air circulation for uniform heat shrinking. The stepless speed-regulated conveyor (0-100mm/s) and 200mm cooling zone ensure consistent, high-quality heat-shrink results. Total power 4.5KW with dual 2KW heating tubes and pneumatic air supply for reliable industrial operation.

Specifications

Model	WPM-50F
Dimensions (L×W×H)	1350×720×1300mm
Max. Harness Diameter	<50mm
Max. Heating Length	<500mm
Cooling Zone Length	200mm
Heater Material	Stainless Steel & Aluminum Alloy
Heat Shrink Speed	0-100mm/s
Conveying Motor	25W (Stepless)
Heating Mode	Hot Air
Heating Tubes	2KW × 2 sets
Power Supply	220V Two-phase Three-wire 50Hz
Air Source	3.5-6KPa
Total Power	4.5KW

WPM-02

Compact Automatic Wire Prefeeder Paying Machine for Wire Harness Processing

Ultra-Light 8.8kg Design with 14KG Capacity and Microcomputer Inductor



Key Features

- Ultra-compact design at only 8.8kg for easy placement in tight workspaces
- 14kg load capacity with microcomputer inductor and bidirectional feeding
- Works with all electric wires (except flat cables); 100W low power consumption

Description

The WPM-02 is a compact, lightweight automatic wire prefeeder paying machine weighing only 8.8kg yet capable of handling loads up to 14kg. Designed for small-scale and space-constrained wire harness processing, it features positive and negative switching for arbitrary feeding direction, microcomputer inductor control, and automatic wire pre-feeding. Suitable for all electric wires except flat cables, the WPM-02 integrates seamlessly with terminal crimping, wire winding, cutting, and soldering machines in tight production spaces.

Specifications

Model	WPM-02
Weight	8.8kg
Voltage	AC 220V 50Hz
Loading Capacity	≤14kg
Rated Power	0.1kW (100W)
Suitable Wires	All electric wires except flat cables
Operation	Automatic Prefeeding, Auto Induction
Control	Positive/Negative Switching, Microcomputer Inductor

WRD-12Z

Automatic Wire Feeder Machine 35kg Capacity 60W

Tension Sensor Controlled with Auto Start/Stop, For Reels With/Without Core



Key Features

- Tension sensor with auto start/stop for consistent, damage-free wire delivery
- Handles spools with or without core winding (30-350mm outer diameter)
- Stepless speed, forward/reverse, 35kg capacity; broad machine compatibility

Description

The WRD-12Z is an intelligent automatic wire feeder machine featuring tension sensor control for optimal wire delivery quality. With a 35kg maximum spool weight capacity and 60W rated power, it handles spools both with and without core winding (inner diameter 30-350mm). The stepless speed regulation, forward/reverse rotation, and automatic start/stop function—triggered by tension changes—ensure consistent wire supply without slack, tangling, or breakage. Fully compatible with automatic wire stripping, crimping, winding, and soldering machines.

Specifications

Model	WRD-12Z
Max. Spool Weight	35kg
Reel Compatibility	With / Without Core Winding
Min. Inner Diameter	30mm
Max. Outer Diameter	350mm
Speed Control	Stepless Speed Regulation
Rotation Direction	Forward / Reverse
Tension Control	Auto Alignment, Auto Stop on Slack
Rated Power	60W
Operating Voltage	200-240V
Dimensions (L×W×H)	300×300×500mm

WPM-9040

Automatic Wire Feeding Machine with Adjustable Speed

90W Frequency Conversion Four-Axis Pay-off with Step Motor and Sensors



Key Features

- 90W step motor with frequency conversion adjustable speed for precise control
- Four-axis pay-off, horizontal/vertical dual-purpose with multiple sensors
- Straight wire feeding prevents tangles; axial loading for all wire sizes

Description

The WPM-9040 is an advanced automatic wire feeding machine featuring adjustable speed control via frequency conversion technology. With a 90W step motor for precise feeding, four-axis pay-off configuration, and horizontal/vertical dual-purpose design, it offers versatile deployment options. Integrated sensors provide tension testing, feeding speed monitoring, wire presence detection, and wire break alarms, ensuring intelligent, trouble-free operation. Straight wire feeding prevents tangles and twisting, making it compatible with all sizes of axially loaded wires for high-speed processing lines.

Specifications

Model	WPM-9040
Weight	40kg
Dimensions (L×W×H)	95×50×50cm
Power	90W
Type	Automatic Frequency Conversion Feeder
Configuration	Four-axis Pay-off
Design	Horizontal & Vertical Dual-purpose
Motor	Step Motor
Sensors	Tension, Speed, Wire Presence, Break Detection

WPM-05A

Compact Automatic Wire Pre-Feeder for Cable Harness Production

120W High-Speed (3m/s) Pre-Feeder with 25KG Capacity, Small Footprint



Key Features

- High-speed feeding up to 3000mm/s with 120W motor for fast production
- 25kg capacity in a compact footprint (550×500×750mm) with brake function
- Gas & electrical integration; easy to move; cables 0.5-10mm diameter

Description

The WPM-05A is a compact automatic wire pre-feeder designed for cable harness production where workspace is limited. Despite its small footprint (550×500×750mm), it delivers powerful performance with a 120W motor, high-speed feeding up to 3000mm/s, and 25kg loading capacity. The machine features automatic reel operation with gas and electrical integration, brake function for tension control, and easy mobility for flexible line arrangement. It handles cables from 0.5-10mm diameter, making it versatile for various wire harness applications.

Specifications

Model	WPM-05A
Cable Diameter	0.5-10mm
Wire Feed Speed	3000mm/s (max)
Power Supply	AC220V 50/60Hz
Power	120W
Loading Capacity	≤25kg
Dimensions (L×W×H)	550×500×750mm
Operation	Automatic Reel Operation with Brake
Integration	Gas & Electrical Integration
Mobility	Convenient to Move

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