# Compact Automatic Wire Prefeeder Paying Machine for Wire Harness Processing WPM-02

Model No. WPM-02



**SPECIFICATIONS**

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|---|---|
| **Model Number** | WPM-02 |
| **Weight** | 8.8kg |
| **Voltage** | AC 220V 50Hz |
| **Loading Capacity** | ⩽14kg |
| **Rated Power** | 0.1kw |
| **Suitable Wires** | all electric wires except flat cables |

The WPM-02 is a compact wire prefeeder that pays wire off a spool into a cut-and-strip line. A spool of up to 14 kg sits on a centering spindle inside a rotating dish, driven by a 0.1 kW motor on AC 220 V 50 Hz. The unit weighs 8.8 kg and is carried between benches by hand.

The dish turns with the spool, so wire leaves the coil without being dragged off the side, and the pull on the cutter's feed rollers stays close to zero. That removes the two faults of feeding from a static spool: the wire tightening on the barrel and snapping short at the blade, and the coil collapsing into loose loops when the machine stops. The dish lip contains the coil as it unwinds. Any electric wire can be run except flat and ribbon cable.

This is the smallest pay-off unit in the range. The WPM-F003 is a floor frame with a 750 W motor and 50 kg capacity, the WPM-C002 carries 20 kg through two motors and ten speed levels, and the WPM-E001 and WPM-E005 feed four and five reels at once. The WPM-02 is the unit for a single small spool on a bench.

## Key Features

**1.** 14 kg spool capacity on a rotating dish with a centering spindle, driving wire off the coil rather than pulling it from a static barrel.

**2.** 0.1 kW motor on AC 220 V 50 Hz, sized to hold a light loop without overrunning a small spool.

**3.** 8.8 kg net weight, moved by hand between benches without a trolley.

**4.** Front-panel speed dial and power switch, with the dish recessed into the housing for a low bench height.

**5.** Runs all electric wires except flat and ribbon cable, covering hook-up wire through small power cable.

**6.** Dish lip contains the coil during unwind, which stops the spool from spilling when it nears the core.

## Technical Specifications

| Parameter | Specification |
|---|---|
| **Model** | WPM-02 |
| **Machine type** | Compact wire prefeeder / pay-off unit |
| **Loading capacity** | ⩽14 kg |
| **Rated power** | 0.1 kW |
| **Voltage** | AC 220 V, 50 Hz |
| **Suitable wires** | All electric wires except flat cables |
| **Spool position** | Vertical, on rotating dish with centering spindle |
| **Net weight** | 8.8 kg |

## Applications

— Bench-top pay-off ahead of a cut-and-strip machine running spools up to 14 kg

— Short-run and sample harness cells where wire changes several times per shift

— Appliance cord set production: feeding insulated single wire into a cutting head

— Rewinding wire from bulk reels into smaller working spools

— Panel shop wiring stock: paying off hook-up wire to a manual cutting station



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|---|---|
| product name | Automatic pay-off machine |
| power | 120W/180W |
| Voltage | 220 volts |
| Turn to | positive and negative |
| axis | 25mm |
| Kill car | 1.5 Electromagnetic clutch |
| Load | ≥50kg |
| specification | 800*500*900mm |

# Automatic frequency conversion wire feeder

Variable frequency stepless speed change
Automatic speed adjustment



Wire reel/circle wire universal





# Product parameter



| | |
|---|---|
| product name | Four-axis pay-off machine |
| Motor | RV140W1:15 |
| specification | 700*850*900 |
| Cold plate | 4.0mm |
| Spool | 400mm |
| axis | 20mm (stainless steel) |
| Thread reel | V type 2-6.0mm |
| Induction block | 0.5kg |
| colour | White paint |
| Load bearing | Single shaft 15kg |
| Pay-off speed | 2m |



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|---|---|
| product name | Horizontal and vertical dual-purpose pay-off machine |
| power | 120W |
| direction | Direct |
| specification | 500*500*900mm |
| Load bearing | 15kg |
| Applicable models | Terminal machine/wire cutting machine/pipe cutting machine |
| Applicable wiring harness | Power cord, data cord, braided cord |
| Shaft diameter | 20mm/length 430mm |
| Coil diameter | 450mm |



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|---|---|
| product name | Automatic frequency conversion wire feeder |
| specification | 500*700*900mm |
| Motor | 750W&1450/1: 5K |
| Load bearing | 30kg |
| weight | 75kg |
| Kill car | 0.1 second braking |
| Frequency converter | 1.5w with brake |
| axis | 30*500mm |
| Lock | 60*30mm |
| Wire reel | 500mm |



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|---|---|
| product name | Automatic pay-off machine |
| specification | 370*480*800mm |
| power | 120w |
| Pay-off weight | 15kg |
| weight | 30kg |
| Applicable machine | Automatic wire cutting machine, terminal machine |
| Voltage | 220V |
| performance | Induction automatic pay-off |
| use | Data cable, flat cable, PC tube |
| drive | Speed control positive and negative |
| Kill car | Electronic car killer |
| Pay-off specification | Coil diameter 20mm-30mm |



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|---|---|
| product name | Double line automatic pay-off machine |
| power | 140W/140W |
| direction | positive and negative |
| Weight reduction | ≥30kg |
| Shaft diameter | 20mm |
| Kill car | VR automatic |
| specification | 650*500*900mm |



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|---|---|
| product name | Infinitely variable electric pay-off machine |
| specification | 450*800*1120mm |
| Motor | 750W 1: 7.5 |
| Frequency converter | 1.5kw |
| Voltage | 220v |
| Load bearing | 50kg |
| brake | 0.1 seconds to kill the car |
| axis | 30mm |




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|---|---|
| product name | Automatic pay-off reel |
| Product Size | 390*390*500mm |
| product weight | 8.8kg |
| Product load | 14kg |
| Product Features | Applicable to all automatic machines and wire cutting machines (except for flat-shaped parallel wires) without connecting to the machine, self-identification of wire feeding length (full closed loop control) high temperature wire, super long wire, Teflon wire, etc. Seed line |




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| Product model: 33300D-0010 | Diameter of shaft bottom: 120mm |
| Product name: Pay-off reel (without wire hook) | Net weight: 2.5kg |
| Turntable outer diameter: 380mm | Material: iron + high temperature baking varnish |
| Turntable inner diameter: 350mm | Purpose: specially designed for automata |

WPM-02 pay-off reel diagram labelling nut, bearing, bobbin and wire reel

## FAQ

**What wire types and loading capacity does the WPM-02 Compact Automatic Wire Prefeeder support?**

The WPM-02 handles all electric wires except flat cables, with a loading capacity of up to 14kg. That makes it a compact prefeeding option for standard round wire in harness processing.

**How does the WPM-02 automatic wire prefeeding machine detect wire demand?**

The WPM-02 responds to demand automatically: it performs automatic wire prefeeding using a microcomputer inductor. The operator does not have to release wire by hand as the downstream machine consumes it.

**Which wire processing machines can the WPM-02 prefeeder be paired with?**

The WPM-02 is compatible with terminal crimping machines, wire winding machines, wire cutting machines and wire soldering machines. It can therefore be integrated at several points along a wire harness line.

**What are the power supply and weight specifications of the WPM-02 machine?**

The WPM-02 runs on AC 220V 50Hz with a rated power of 0.1kw. At only 8.8kg, it is light enough to move between machines as production needs change.

**Can the WPM-02 automatic wire prefeeder feed wire in both directions?**

Yes. Positive and negative switching and arbitrary feeding are built in, so the prefeeder can advance or pull back wire as required. That flexibility helps when several machines on the line cycle at different rates.