Semi-Automatic Wire Terminal Crimping Machine - Ultra-Quiet & Power Saving JW-CM10

Model No. JW-CM10



SPECIFICATIONS

Semi-Automatic Wire Terminal Crimping Machine	
Control System	Computer Touch Panel
Drive System	Servo Control
Features	Super Silence, Power Saving
Functions	Wire Cutting, Single/Double-End Crimping, Stripping, Twisting
Minimum Wire Length	12mm
Detection Functions	Wire, Terminal, Knot, Air Pressure
Mold Types	OTP Straight Mold, Transverse Mold
Waste Handling	Automatic Terminal Waste Collection

JW-CM10 is a semi-automatic wire terminal crimping machine built on a servo-driven press head with a computer touch panel. Cutting, single- and double-end crimping, stripping and twisting run as one programmed sequence, and the shortest wire the machine will produce is 12 mm. Crimp force and shut height follow the applicator fitted to the ram, so the unit is specified by process and wire range rather than by a single tonnage figure.

On the cam-and-clutch presses this machine replaces, stroke, crimp height and stopping point were set by mechanical adjustment, and a worn brake changed the crimp between shifts. The servo head positions the ram electronically, so a stored setting is recalled when the job returns to the line instead of being dialled in again. The same drive loads the motor only during the working stroke, which is where the power-saving and low-noise claims of the model come from.

Inside this group the JW-CM10 is the process machine rather than a plain press. The WPM-160 crimps loose terminals from a vibration bowl but does not cut, strip or twist; the JW-CM10 takes strip-fed terminals on OTP straight or transverse molds and turns out a finished lead in one cycle. Specify the JW-CM10 where cut length and strip length have to be held, and the WPM-160 where terminals arrive loose in bulk.

Key Features

1. Crimp force and stroke are set numerically on the servo head and by the applicator in use; the frame carries no separate tonnage rating, so a job is recalled by program rather than re-set by hand

2. Servo drive with a computer touch panel runs cutting, single- or double-end crimping, stripping and twisting in one cycle, down to a 12 mm finished wire

3. Super-silence, power-saving build: the motor is loaded only during the working stroke, which holds sound level and consumption down on continuous bench work

4. OTP straight molds and transverse molds both mount on the ram, covering end-feed and side-feed terminal strip without a second press

5. Wire, terminal, knot and air-pressure detection stop the cycle on a fault, and terminal waste drops into a collection box under the applicator

6. Applicator guard carries a keep-hands-clear label, and a flexible work lamp lights the die window for setup and first-off inspection

Technical Specifications

Parameter	Specification
Model	JW-CM10
Machine type	Semi-automatic wire terminal crimping machine
Control system	Computer touch panel
Drive system	Servo control
Functions	Wire cutting, single/double-end crimping, stripping, twisting
Minimum wire length	12 mm
Detection functions	Wire, terminal, knot, air pressure
Mold types	OTP straight mold, transverse mold
Waste handling	Automatic terminal waste collection

Applications

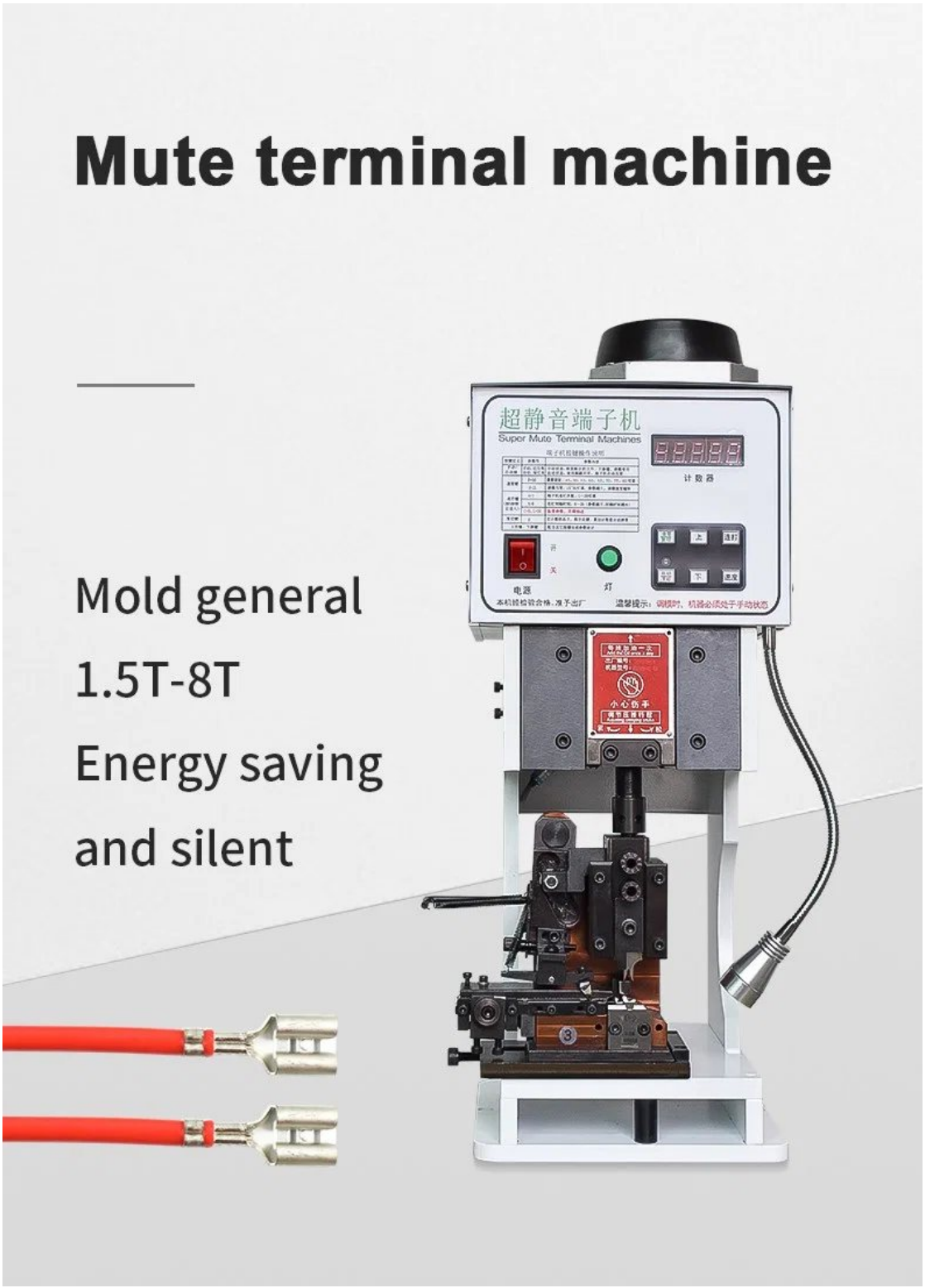
— Automotive wire harness lines: single- and double-end crimping of strip-fed terminals on cut lengths from 12 mm upward

— Home appliance harnesses: stripping and twisting paired with crimping in one pass for internal wiring sets

— Industrial control panels: ferrules and ring terminals crimped onto hook-up wire ahead of assembly

— Electronics and AV cable assembly: short cut lengths where cut and strip accuracy decide the fit

— Harness shops running repeat jobs: stored programs recalled by terminal and wire combination


Mute terminal machine
Mold general
1.5T-8T
Energy saving
and silent
超静音端子机
Super Mute Terminal Machines
计数器
电源
灯

Mold general

Suitable for a variety of molds, widely used







Horizontal mode





Vertical mode





Single grain

Frequency conversion technology Energy saving



Processing samples

Suitable for terminal processing in industries such as electronic and electrical toys, automobiles and motorcycles, suitable DC terminal, AC terminal, single grain terminal, joint terminal, computer terminal, etc.







Product parameter



1.5T

Mute terminal machine

Weight description:

Bare machine: 40kg

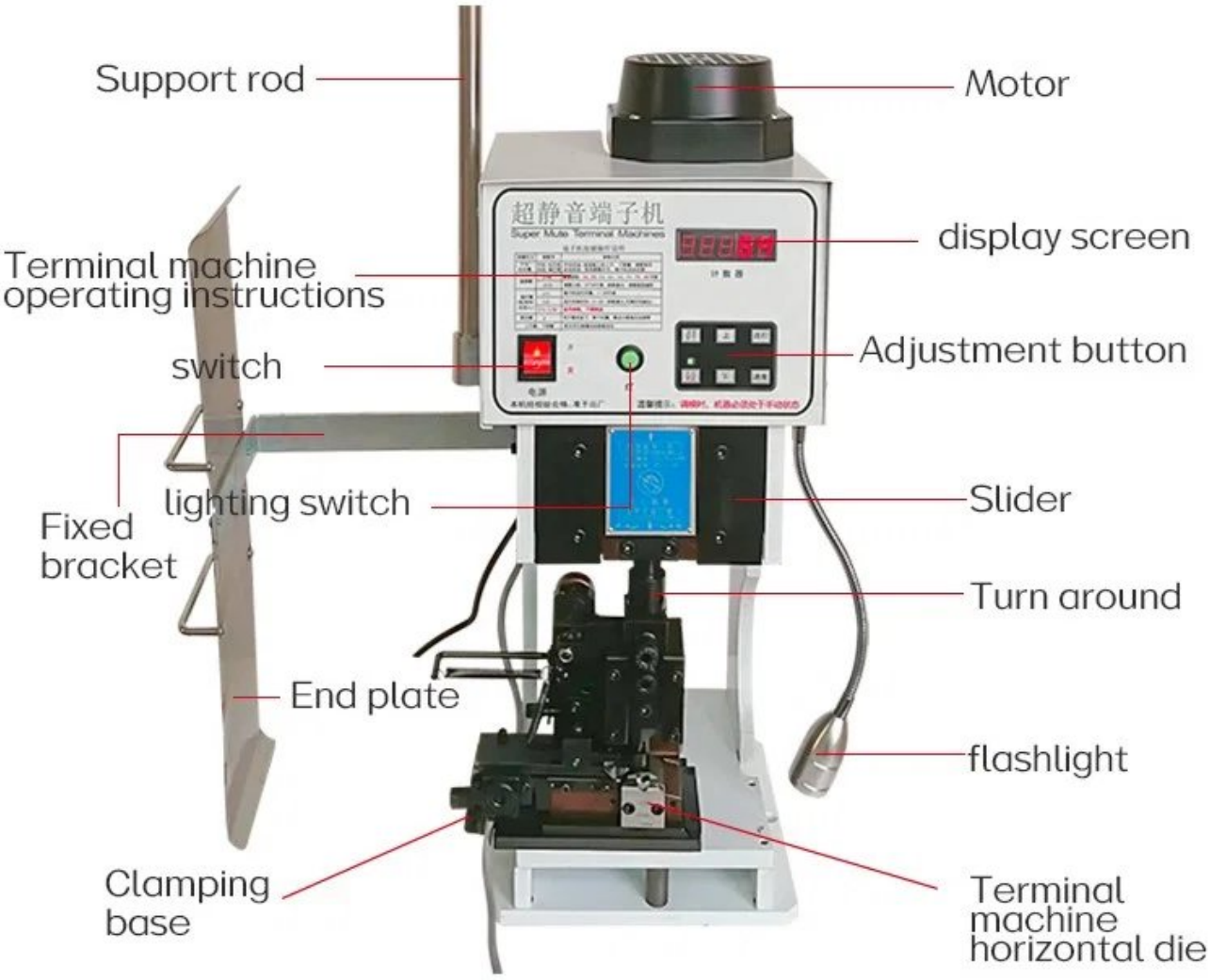
With horizontal mold: 45kg

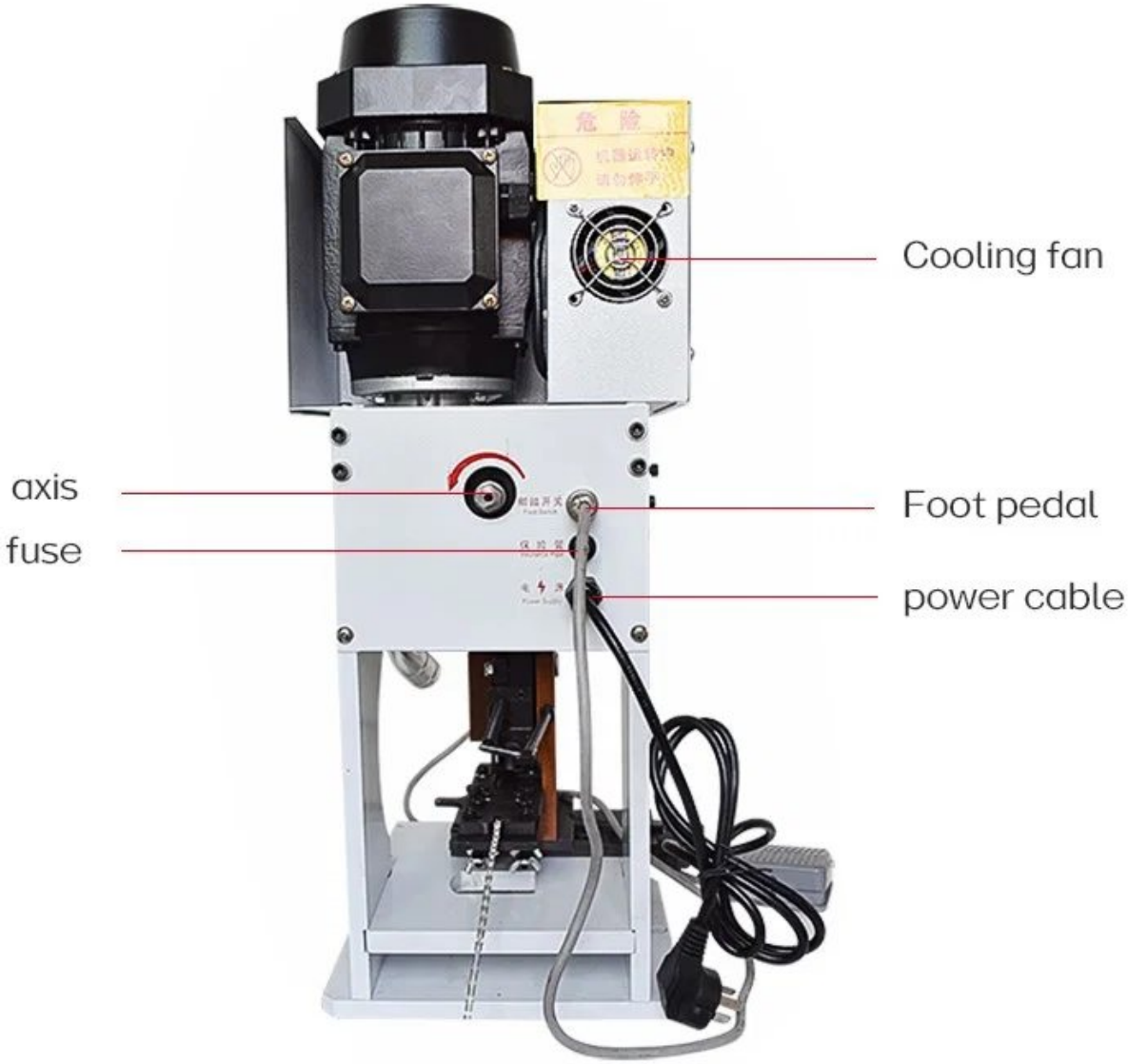
With single grain: 42kg

With straight mold: 46kg

model	WPM-1.5T	WPM-2T	WPM-3T	WPM-4T	WPM-6T	WPM-8T
Specification (mm)	215*230*600	215*245*640	240*270*700	260*305*740	340*305*740	380*320*830
power supply	220V 50HZ	220V 50HZ	220V 50HZ	220V 50HZ	220V 50HZ	220V 50HZ
Stroke (mm)	30	30	30	30	30	30
Weight (kg)	40	47	66	95	95	200
Crimping ability	1500	2000	3000	4000	6000	8000
Motor power	0.55KW/H	0.75KW/H	1.11KW/H	1.5KW/H	1.8KW/H	3.0KW/H
Average power consumption	0.35KW/H	0.45KW/H	0.65KW/H	0.85KW/H	0.85KW/H	0.85KW/H

Structure analysis




Cooling fan
axis
Foot pedal
fuse
power cable

Random Accessories



1 lock end plate



1 L bracket



1 set of hexagon wrench



1 oil can



1 end plate



1 pedal

Details: microcomputer controller, cassette mold, LED light and copper motor

Four views of the terminal machine with different molds fitted

Product Images



FAQ

What makes this semi-automatic terminal crimping machine 'ultra-quiet' and 'power saving'?

Our machine utilizes advanced servo motor control technology, which operates significantly quieter than traditional pneumatic or hydraulic systems. The servo system also consumes power only during the actual crimping cycle, eliminating the constant energy draw of an air compressor. This combination results in a much quieter workshop environment and can lead to substantial reductions in your facility's energy costs.

What are the main processing functions this machine can perform?

This is a versatile, all-in-one wire processing solution. Its core functions include precise wire cutting to length, terminal crimping, insulation stripping, and wire twisting. Controlled via an intuitive computer touch panel, it streamlines multiple steps in cable harness production, improving efficiency and consistency while reducing manual labor and potential errors.

What is servo control, and what benefits does it offer for crimping?

Servo control uses a high-precision electric motor and drive system to manage the crimping action. Key benefits include superior accuracy and repeatability in crimp depth and quality, adjustable speed settings for different applications, minimal maintenance (no oil or air lines), and the ultra-quiet, energy-efficient operation mentioned. It provides consistent, reliable performance crucial for high-quality cable harness manufacturing.

What types of 'complete detection functions' does the machine have?

The integrated detection system enhances quality control and prevents errors. Typical functions include wire presence detection (ensures a wire is in place before crimping), terminal presence detection (confirms a terminal is fed correctly), and crimp monitoring. The system can alert the operator or stop the machine if a fault is detected, minimizing waste and ensuring every processed wire meets your specifications.

Is this machine suitable for my cable harness production line?

Yes, this semi-automatic wire terminal crimping machine is specifically designed for cable harness manufacturing. It is ideal for small to medium batch production, prototyping, and applications requiring high flexibility. The combination of cutting, stripping, twisting, and crimping in one unit makes it perfect for processing a wide variety of wires and terminals commonly used in automotive, appliance, control panel, and other industrial wiring assemblies.