Electric Terminal Crimping Machine with 7 Interchangeable Die Sets Wires EM-6B1 EM-6B2

Model No. EM-6B1 EM-6B2



SPECIFICATIONS

Electric Terminal Crimping Machine with 7 Interchangeable Die Sets Wires EM-6B2
Machine Type Electric Terminal Crimping Machine
Crimping Range 0.25 – 10 mm^2
Cutting Capacity Cu/Al conductors up to 7 mm
Die Sets Included 7 interchangeable precision die sets
Output Force 12.7 KN
Voltage Range AC 220 / 110 V
Overall Dimension 325 × 265 × 150 mm
Weight (Net/Gross) 16.8 kg
Operation Foot switch control
Additional Features Counter, overload protection, CW/CCW switch, carry handle

EM-6B1 and EM-6B2 are the same benchtop electric crimping machine, wired for 110 V and 220 V respectively. Output force is 12.7 kN over a crimping range of 0.25 to 10 mm2 for pre-insulated terminals, with a crimp cycle of about 1.5 s. Seven interchangeable die sets are supplied, and the unit measures 325 x 265 x 150 mm at 16.8 kg.

Hand ratchet tools in this range depend on grip force and leave no record of how many crimps were made. The EM-6B1 and EM-6B2 are motor driven and triggered by a foot switch, so both hands stay on the terminal and wire, and each cycle is counted on the digital counter. An overload protector trips the motor instead of letting it stall, and the CW/CCW switch jogs the die open or closed during setup.

Within the group this is the small-terminal electric unit. The WPM-50T is hydraulic and reaches 120 mm2 cable lugs; the EM-6B1 and EM-6B2 stop at 10 mm2 and are built to sit on a bench. Against the WPM-2P_64P, which closes IDC ribbon connectors, this machine crimps discrete insulated terminals one at a time.

Key Features

1. 12.7 kN output force with a crimp cycle of about 1.5 s, applied as a motor-driven squeeze rather than a hammer blow, so the noise at the bench is the motor and not an impact

2. Crimping range of 0.25 to 10 mm2 for pre-insulated terminals; cutting capacity is Cu/Al conductors up to 7 mm

3. Seven interchangeable precision die sets cover the range and are changed at the die window on the right of the housing

4. Foot switch operation leaves both hands on the wire; the CW/CCW switch jogs the die for insertion and release

5. Digital counter, overload protector and guiding LED sit on the front panel, so cycle count and fault state are read at the machine

6. The overload protector stops the motor on a jam, and the die window is recessed in the housing so fingers cannot reach the closing dies

Technical Specifications

Parameter	Specification
Model	EM-6B1 (110 V) / EM-6B2 (220 V)
Machine type	Electric terminal crimping machine
Output force	12.7 kN
Crimping range	0.25 - 10 mm2
Cutting capacity	Cu/Al conductors up to 7 mm
Die sets included	7 interchangeable precision die sets
Crimp time	About 1.5 s
Voltage	AC 110 / 220 V
Operation	Foot switch control
Additional features	Counter, overload protection, CW/CCW switch, carry handle
Dimensions	325 x 265 x 150 mm
Weight (net)	16.8 kg

Applications

— Control cabinet wiring: pre-insulated ferrules and terminals crimped before the wire is dressed into duct

— Appliance and lighting assembly: 0.25 to 10 mm2 insulated terminals on internal leads

— Automotive aftermarket and repair benches: single crimps on replacement leads without a reel-fed press

— Site and retrofit work: the 16.8 kg unit with carry handle travels to the panel being modified

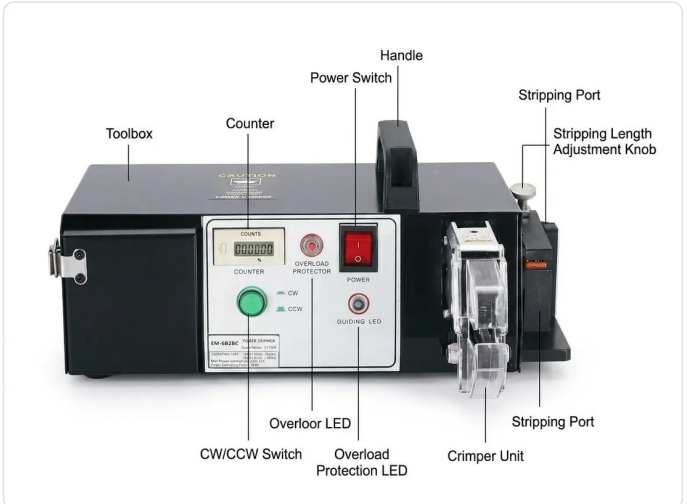
— Small harness shops: one tool covering seven die sizes instead of seven separate hand tools

Common Crimping Terminals and Range Reference Table

Terminal Type	Crimping Range (mm^2)
	Ferrules 0.25-35mm^2
	Twin Ferrules 2×0.5, 1.0, 1.5, 2.0, 2.5, 4.0, 6.0mm^2
	Insulated Ring or Spade Terminals 0.25, 0.5, 1.0, 2.0, 2.5, 4.0, 6.0mm^2
	Non-insulated Ring or Spade Terminals 0.5, 1.0, 1.5, 2.0, 2.5, 4.0, 6.0, 10.0mm^2
	Tab Type Male or Female Terminals 0.5, 1.0, 2.0, 2.5, 4.0, 6.0mm^2
	Contact Pin for Rectangular Connectors 0.5, 1.0, 2.0, 4.0mm^2

Product Images





FAQ

What is the difference between the EM-6B1 and EM-6B2 models?

The primary difference between the EM-6B1 and EM-6B2 models is the voltage requirement. The EM-6B1 operates on 110V AC, while the EM-6B2 operates on 220V AC. Both models share identical specifications, including a crimping range of 0.25-10 mm^2, 7 interchangeable die sets, 12.7KN crimping force, and a 1.5-second crimp time. Choose the model that matches your local power supply for optimal performance.

What types of terminals can this electric terminal crimping machine handle?

The EM-6B1 and EM-6B2 terminal crimping machines are designed to crimp a wide variety of pre-insulated terminals, including ferrules (0.25–35 mm^2), twin ferrules (2×0.5–6.0 mm^2), insulated O/Y type terminals (0.25–6.0 mm^2), non-insulated O/Y type terminals (0.5–10.0 mm^2), male/female receptacles (0.5–6.0 mm^2), and contact pins for rectangular connectors (0.5–4.0 mm^2). With 7 interchangeable precision die sets, it adapts quickly to different terminal types, making it a versatile cable harness tool.

How does the foot switch operation improve productivity for wire crimping?

The foot switch operation on this electrical crimping machine allows for hands-free control, enabling operators to position wires and terminals accurately with both hands while activating the crimp cycle with a foot pedal. This boosts productivity, especially in medium to large batch production, by reducing cycle time and minimizing errors. The consistent 12.7KN crimping force and 1.5-second cycle ensure high-quality, repeatable results for cabinet wiring and harness manufacturing.

Can this wire crimper cut conductors, and what is its cutting capacity?

Yes, the EM-6B1 and EM-6B2 wire crimpers include a cutting capability for copper (Cu) and aluminum (Al) conductors up to 7 mm in diameter. This built-in feature adds convenience by allowing operators to cut wires to length and crimp terminals on the same machine, streamlining the cable harness assembly process. The cutting capacity complements the crimping range of 0.25-10 mm^2, making it a comprehensive tool for electrical installations.

What safety and monitoring features are included with this terminal crimping machine?

The EM-6B1 and EM-6B2 terminal crimping machines are equipped with several built-in features for safe and efficient operation. These include overload protection to prevent damage from excessive force, an integrated counter to track production quantities, and a CW/CCW (clockwise/counterclockwise) switch for added flexibility in die positioning. The compact, portable design with a carry handle also ensures easy movement between workstations, while the foot switch keeps hands free for precise wire placement.