

PRODUCT CATALOGUE

Coin Cell Electric Crimping Machine

Matlabs Technologies designs and manufactures advanced laboratory and pilot-scale instrumentation for battery research, materials development, and process validation. All Matlabs systems are engineered with a strong focus on precision, repeatability, operator safety, and long-term reliability. Designed and manufactured in Thane, India, our instruments offer flexible customization, faster service support, and seamless integration into R&D labs, pilot lines, and industrial environments.



Electric Coin Cell Crimping Machine – Customized for CR2016, 2025, 2032 Series (Inert Glovebox Compatible)

The Matlabs Electric Coin Cell Crimping Machine is a compact, electrically driven system designed for reliable sealing of CR2016, 2025, 2032 series coin cells used in lithium-ion and sodium-ion battery research. The system ensures highly consistent and repeatable crimping pressure, making it ideal for R&D laboratories, pilot facilities, and glovebox-based cell assembly.

Its compact footprint and glovebox-compatible design allow easy installation inside argon-filled gloveboxes, ensuring controlled-atmosphere operation. Unlike manual or pneumatic crimpers, the electric drive with PLC-controlled pressure regulation delivers precise sealing force for every cycle, reducing operator dependency and improving cell-to-cell consistency.

Features

1. Compact and glovebox-compatible design
2. Electrically driven crimping mechanism for stable and repeatable pressure
3. HMI + PLC touch panel for easy parameter setting and operation
4. Adjustable sealing pressure for different coin cell formats
5. Consistent crimping quality compared to manual or pneumatic systems
6. PTFE anti-corrosion core to prevent short circuits during crimping
7. Transparent safety enclosure for operator protection
8. Suitable for battery R&D, academic research, and pilot-scale production

Technical Parameter

Parameter	Specification
Driven Type	Electrical
Compatible Cell Type	CR20XX series
Sealing Pressure Range	0 – 1200 kg
Operating Voltage	220 V (customizable)
Control System	PLC with HMI touch panel
Safety Feature	Protective enclosure (plexiglass)
Dimensions (L × W × H)	250 × 190 × 450 mm
Approx. Weight	30 to 38 kg
Glovebox Compatibility	Yes
Standard Warranty	1 Year Standard
Mounted Type	Table Top

Optional Accessories

- Crimping dies for other formats (e.g., CR2325, CR2450)
- Coin cell disassembling / de-crimping dies
- Custom die sets for specific research requirements

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For pricing inquiries, contact us at the numbers provided above or email us directly.

MatLabs Technologies provides services throughout India.

