

Coin Cell Electrode Sheet Punching Machine

Item Number: CP01



Introduction

Coin cell electrode sheet punching machine for precision die cutting of battery cathodes anodes separators and thin materials with compact operation flexible die sizes and glovebox compatible handling for laboratory research workflows consistent clean edges in demanding battery development applications.

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Application	Description	Key Benefit
Coin Cell Electrode Preparation	Punch circular discs from positive and negative electrode sheets before coin cell assembly, using the selected die diameter for the required cell format.	Produces repeatable electrode geometries for more consistent assembly and testing workflows.
Separator Disc Preparation	Cut separator paper and other thin separator materials into round pieces suitable for laboratory coin cell construction.	Supports accurate separator sizing and reduces manual trimming before assembly.
Battery Materials Research	Prepare specimens from newly developed cathode, anode, and separator materials with thicknesses between 0.005 and 0.5 mm.	Provides a practical sample preparation step for comparing material formulations and processing conditions.
Glovebox-Based Cell Fabrication	Transfer the compact unit through a glovebox chamber with a diameter greater than 200 mm and perform punching where controlled atmosphere handling is required.	Helps limit exposure of sensitive materials during preparation and transfer.
Academic Materials Science Research	Support laboratory-scale preparation of thin sheet samples for battery experiments, process studies, and advanced materials investigations.	Offers flexible die selection in a compact format suitable for shared research laboratories.
Pilot Battery Development	Prepare repeated electrode and separator discs during early-stage process development and small-batch coin cell production.	Improves workflow repeatability without requiring a large automated punching system.

Parameter	Specification
Product Item Number	CP01
Primary Function	Punching and blanking of thin sheet materials
Suitable Materials	Battery positive electrode sheets, battery negative electrode sheets, separator paper, and other thin sheet materials
Applicable Material Thickness	0.005 to 0.5 mm
Standard Punching Size	Φ14 mm
Optional Punching Sizes	Φ8 mm to Φ24 mm, according to customer specification
Common Die Sizes	Φ8, Φ10, Φ12, Φ14, Φ15, Φ16, Φ17, Φ18, Φ19, Φ20 mm
Punching Stroke	25 mm
Operating Method	Manual hand lever operation
Upper Punch Guidance	High-precision slide rail
Cutting Result	Designed for punching without burrs, flashing, or indentation
Body Material Characteristic	Corrosion-resistant and rust-resistant material
External Dimensions L x W x H	L110 x W150 x H235 mm
Weight	6 kg

Parameter	Specification
Glovebox Transfer Requirement	Can pass freely through a glovebox transfer chamber with a diameter greater than 200 mm