



KINTEK SOLUTION

Coin Cell Disc Cutter Catalog

Contact us for more catalogs of Laboratory Press Machine, Battery Testing & Electrochemical Equipment, Electrode Fabrication Equipment, Cell Assembly & Filling Equipment, Battery Lab Consumables & Materials, etc.

KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

KINTEK Solution is a technology-driven innovator specializing in comprehensive laboratory equipment for battery R&D and advanced materials research. Our portfolio spans the entire cell fabrication workflow—from mixing, coating, and precision pressing (automatic, heated, isostatic) to cell assembly and testing. Also essential in ceramics and powder metallurgy, our systems prioritize precision, safety, and repeatability, empowering researchers and industrial labs to achieve groundbreaking results.



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

Handheld Circular Cutting Machine For Lithium Battery Electrode Samples

Item Number: CP02



Introduction

Handheld circular cutting machine for lithium battery electrodes delivers one stroke cutting with burr free smooth edges and customizable dies for precise laboratory sample preparation and repeatable research workflows across pilot development and advanced materials laboratories with dependable operation

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Application	Description	Key Benefit
Lithium Battery Electrode Preparation	Cuts lithium battery electrode material into circular samples for subsequent cell fabrication or laboratory evaluation.	Produces ready-to-use specimens in one operation with burr free, smooth edges.
Battery Cell Fabrication Research	Supports electrode preparation within research workflows involving slurry processing, coating, pressing, and cell assembly.	Simplifies the transition from electrode processing to controlled sample preparation.
Coin Cell Sample Preparation	Provides circular electrode formats suitable for research teams working with compact laboratory cell configurations when the selected diameter matches the cell design.	Offers multiple standard diameters for different experimental requirements.
Electrode Material Screening	Helps researchers prepare consistent round specimens for comparative evaluation of electrode materials and process conditions.	Promotes consistent sample geometry across research batches.
Battery Process Development	Supports laboratory teams assessing different electrode formats during early-stage battery development and scale-up studies.	Allows the same manual cutting approach to be used across a broad range of circular sizes.
Custom Battery Research Programs	Serves projects that require a circular electrode diameter not covered by the standard size options.	Custom die manufacturing adapts the equipment to specific project requirements.
Advanced Materials Research	Can be considered for related laboratory sample preparation work involving circular material specimens where the selected cutting format is appropriate.	Extends the usefulness of the manual cutting platform beyond a single standard sample size.

Parameter	Specification
Product Item Number	CP02
Product Type	Handheld circular cutting machine
Operating Method	Manual
Primary Application	Lithium battery electrode cutting
Cutting Result	One-time cutting; no burrs; smooth edges
Die Configuration	Circular cutting die
Standard Circular Cutting Diameter Options	10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 25 mm, 29 mm, 30 mm, 32 mm, 35 mm
Custom Die Availability	Dies can be customized according to requirements



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