

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