

18650 21700 Series Laboratory Cylindrical Battery Case Opening Machine

Item Number: YZ20



Introduction

Precision 18650 and 21700 cylindrical battery case opening machine with interchangeable tooling, tungsten carbide blade, accurate disassembly, compact design, and safe operation for laboratory research validation in advanced battery development environments with consistent results

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Application	Description	Key Benefit
Cylindrical lithium battery research	Open sealed cylindrical lithium batteries after crimping to retrieve and inspect the internal cell. Standard tooling supports 18650 formats, with optional molds available for other cylindrical sizes.	Provides controlled access to internal components for research and validation.
18650 cell failure analysis	Remove the outer casing from 18650 cells for post-test inspection, defect investigation, or comparison of cells before and after cycling.	Helps expose the cell without unnecessarily damaging the internal structure.
21700 battery development	Use compatible optional tooling to process 21700 cylindrical cells during development and evaluation programs.	Extends one compact system across multiple cylindrical battery formats.
Battery material characterization	Open completed cells so researchers can collect electrodes, separators, and other internal samples for laboratory examination.	Supports downstream materials analysis and research verification.
University and academic laboratories	Provide a practical disassembly solution for teaching laboratories, research groups, and experimental battery programs.	Combines compact installation, straightforward operation, and flexible tooling.
Battery quality and process validation	Examine sealed cells produced during pilot or laboratory-scale fabrication to verify internal condition and assembly results.	Enables repeatable access for inspection and process improvement.
Advanced materials research	Prepare cylindrical battery samples for investigations involving electrode materials, cell construction, and internal component behavior.	Connects controlled mechanical disassembly with broader materials research workflows.

Parameter	Specification
Product Item Number	YZ20
Equipment Type	Laboratory cylindrical battery case opening machine
Primary Function	Removes the outer casing of sealed cylindrical batteries after crimping for research inspection and validation
Compatible Battery Format	Cylindrical lithium batteries
Standard Case Opening Mold	18650 case opening mold
Optional Tooling	Other molds available for different cylindrical battery specifications, including 21700
Cutting Blade Material	Tungsten carbide
Cutting Blade Motor Speed	1000 rpm
Mold Rotation Speed	320 rpm
Micrometer Scale Value Accuracy	0.01 mm
Power Supply	AC220V 50HZ

Parameter	Specification
Power	0.2 KW
Overall Dimensions	L700 mm × W320 mm × H220 mm
Weight	30 kg