

Automatic Cylindrical Battery Grooving Machine For 18650 21700 And 26650 Steel Shells

Item Number: YZ10



Introduction

Automatic cylindrical battery grooving machine for 18650 21700 and 26650 steel shells with adjustable groove depth PLC touch control 6 PCS per minute output precision feeding stable dimensions efficient production for battery research and pilot line manufacturing

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Application	Description	Key Benefit
Cylindrical Battery Cell Assembly	Prepares cylindrical steel shells with uniform grooves before cap installation, sealing, or other cell assembly processes.	Improves dimensional consistency and reduces manual shell handling.
18650 Battery Production	Uses the standard 18650-series grooving tooling for repeatable processing of a widely used cylindrical battery format.	Provides a ready-to-use configuration for common cylindrical cell development and production.
21700 and 26650 Format Processing	Uses interchangeable tooling to support other cylindrical shell dimensions when the correct forming die is installed.	Increases production flexibility across multiple battery formats.
Battery Research and Development	Supports laboratory teams developing cylindrical cells, process recipes, and shell preparation methods.	Enables adjustable groove dimensions and convenient parameter control during process development.
Pilot Production Lines	Automates shell feeding, grooving, and unloading at a capacity of 6 PCS/min for pilot-scale workflows.	Raises throughput while maintaining a compact equipment footprint.
Small Batch Manufacturing	Provides a practical automated solution for workshops producing limited or changing quantities of cylindrical battery shells.	Reduces labor requirements and supports efficient changeover between supported formats.

Parameter	Specification
Product Item Number	YZ10
Equipment Type	Automatic cylindrical battery steel shell grooving machine
Feeding Method	Automatic feeding and unloading
Standard Sealing Die	18650 series sealing die
Optional Tooling	Additional tooling available for other cylindrical battery specifications
Supported Battery Formats	18650, 21700, 26650, and other cylindrical formats through tooling replacement
Groove Depth	1.0-3.0 mm adjustable
Groove Width	1.1-1.5 mm, according to grooving cutter thickness
Processing Accuracy	±0.1 mm
Grooving Cutter Life	□ 3,000,000 operations
Production Capacity	6 PCS/min
Control System	PLC control with touch interface
Operating Interface	Touchscreen parameter setting and machine control

Parameter	Specification
Power Supply	AC220V/50Hz
Rated Power	0.2 kW
Compressed Air Requirement	0.5~0.7 MPa
Product Dimensions	L550 × W600 × H720 mm
Net Weight	50 kg