

Aluminum Shell Small Capacitor Grooving Sealing Machine

Item Number: CX14



Introduction

Aluminum shell small capacitor grooving and sealing machine for $\Phi 16$ cases delivers synchronized grooving sealing high concentricity stable dimensions 98 percent uptime and 500000 cycle tooling life for efficient production with automatic clamping imported grooving tooling and convenient operator access

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Application	Description	Key Benefit
Small Aluminum Shell Capacitor Production	Processes $\Phi 16$ aluminum shell capacitors through coordinated grooving and sealing operations.	Supports repeatable shell forming with fewer separate process steps.
Capacitor Edge Grooving	Creates the required groove on aluminum capacitor shells using a high-hardness grooving tool.	Improves process durability and supports long tooling service life.
Capacitor Sealing and Flanging	Performs mold rotary sealing for the shell sealing and flanging operation.	Provides controlled mechanical forming and consistent edge dimensions.
Battery and Energy Storage Component Manufacturing	Integrates into specialized production workflows requiring compact aluminum component forming.	Offers a compact, dedicated solution for repetitive shell processing.
Pilot Production and Process Development	Supports small-scale or development-stage production of aluminum shell capacitors.	Combines multiple forming steps in one unit for efficient process evaluation.
Customized Capacitor Formats	Can be customized for aluminum shell capacitor specifications other than the standard $\Phi 16$ format.	Helps manufacturers adapt the equipment to application-specific product requirements.

Parameter	Specification
Product Item Number	CX14
Application	Grooving, sealing, and flanging forming for small aluminum shell capacitors
Standard Applicable Capacitor	$\Phi 16$ aluminum shell capacitor
Other Product Specifications	Customizable
Operating Rate	98%
Power Supply	220 V / 50 Hz
Power	0.2 kW
Overall Dimensions	L300 mm $\times$ W240 mm $\times$ H570 mm
Weight	Approximately 40 kg
Sealing and Flanging Process	Mold rotary sealing method
Integrated Operations	Grooving and sealing
Grooving Tool Material	Imported material
Grooving Tool Hardness	High hardness

Parameter	Specification
Tooling and Mold Service Life	More than 500,000 cycles under normal use
Product Fixing Method	Automatic jacket clamping
Feeding Guidance	High-precision linear guide