

All-Electric Servo Injection Molding Machine

All-electric injection molding machines utilize high-speed servo motors for plasticization, injection, and mold operation. This design enables synchronized actions, reduces cycle times, and increases production capacity while maintaining a clean, oil-free environment.



Overview

High-Efficiency All-Electric Molding

This all-electric injection molding machine utilizes high-speed servo motors for plasticization, injection, and mold movement, enabling synchronized actions that significantly shorten molding cycles. By replacing traditional hydraulic systems with electric drives, the machine eliminates oil and gas pollution, ensuring a clean workshop environment suitable for high-precision manufacturing. It offers substantial energy savings, reducing consumption by up to 60% compared to conventional hydraulic models, while requiring no hydraulic oil or cooling water.

Performance Metrics

Energy Savings

60 %

Energy Reduction

Key Advantages

Operational Benefits

- High-speed servo motor drive
- Multiple action synchronization
- Reduced molding cycle time
- Oil-free operation
- Clean production environment
- Zero hydraulic oil usage
- No cooling water required

Applications

Suitable Industries

Automotive, Medical, Electronics

Technical Specifications

Environmental Impact

Low Carbon • Oil-Free • Energy Efficient

Drive System

AC Servo Motor