

Electric Charging Plastic Injection Molding Machine

This injection molding machine utilizes an electric motor for material charging. It achieves faster charging speeds compared to hydraulic systems and can charge during mold opening/closing, reducing overall cycle time by approximately 20%.



ADDITIONAL IMAGES



Overview

Third-Generation High-Efficiency Precision Molding

The Universe 3rd generation injection molding machine integrates advanced Japanese design with robust clamping and injection architecture to deliver superior quality and manufacturing efficiency. Engineered for precision, it features an electric charging unit and high-rigidity components to ensure consistent product stability. With energy-efficient servo pump technology and integrated SPC quality management, this machine provides a reliable, scalable solution for high-output plastic production.

Key Features

Technological Highlights

Double Toggle Clamping, PRS Position Adjustment, SVP Servo Pump, SPC Quality Management, Electric Charging Unit

Clamping System

Performance Metrics

0.7 %

Min Shot Accuracy

0.3 %

Max Shot Accuracy

Structure Details

- Double toggle clamping structure for powerful force output
- Centrally reinforced moving plate and head plate design
- Lengthened and widened mold clamping sliding foot guide
- High mold parallelism and repetitive positioning accuracy

Injection System

Injection Architecture

- Double-layer injection structure
- Double extended rod cylinder for improved stability
- High-rigidity injection base
- High-precision linear guides for rapid response

Hydraulic & Control

Efficiency & Control

- Modular hydraulic valve plate design
- No-overflow heat-generating servo pump control
- Integrated efficient cooling system
- Large-screen UI controller
- Standard SPC quality control management system