MERHEIN
Technical Datasheet

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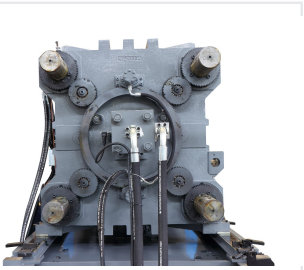
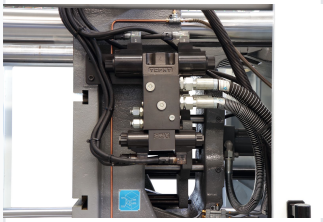
Hydraulic Plastic Injection Molding Machine

This hydraulic plastic injection molding machine is engineered with Japanese technology for sophisticated control. It features rapid response and low energy consumption.



ADDITIONAL IMAGES



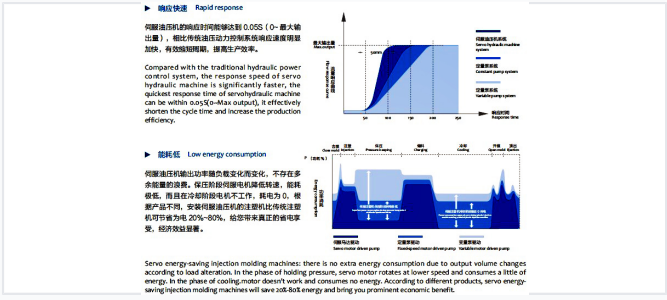
Overview

NHTX Series Injection Molding Machine

This high-performance hydraulic plastic injection molding machine is engineered for precision, rapid response, and low energy consumption. Designed with advanced technology, the series offers versatile configurations including constant pump, open-loop variable pump, closed-loop variable pump, and servo hydraulic options. It is built for reliability and efficiency, ensuring consistent product quality and high throughput for demanding industrial manufacturing applications.

Performance & Efficiency

Servo hydraulic systems optimize power output based on load, significantly reducing energy consumption and noise.



Comparison of response times and energy efficiency between servo hydraulic systems and traditional pump systems.

Response Time	0.05 s
Energy Savings	20% - 80% compared to traditional machines
Available Drive Systems	Constant Pump, Open-Loop Variable Pump, Closed-Loop Variable Pump, Servo Hydraulic

Technical Specifications

Key Model Specifications

Feature	NHTX780	NHTX1000
Clamping Force	7800 kN	10000 kN
Screw Diameter (Range)	90-110 mm	90-115 mm
Injection Pressure	199-232 MPa	200-255 MPa

Clamping System

Detailed view of the robust clamping and injection configurations available on the NHTX series.

Clamping Configuration

- 5-point double toggle system
- Mechanical, electrical, and hydraulic triple chain security protection
- Low-pressure mold protection
- Automatic centralized lubrication system
- Fast-mold differential device
- Strengthening moving platen wearable rail

Injection System

Injection Configuration

- Balance cylinder injection unit
- Multi-stage injection speed and pressure control
- High-torque motor-driven plasticizing unit
- Anti-cold start screw protection
- Barrel PID temperature control
- 3-mode carriage retreat selection

Optional Configurations

A wide range of optional configurations are available to customize the machine for specific production requirements.

Optional Upgrades

Bi-metal screw • Stainless steel screw • Mold temperature controller • Accumulator-assisted injection • Multi-core pulling • Automatic feeder • Dehumidifier • Closed-loop control