

# Plastic Injection Molding Machine

This machine is designed for efficient and precise manufacturing of plastic parts. It features a robust clamping unit and an advanced injection system for accurate material dosing.



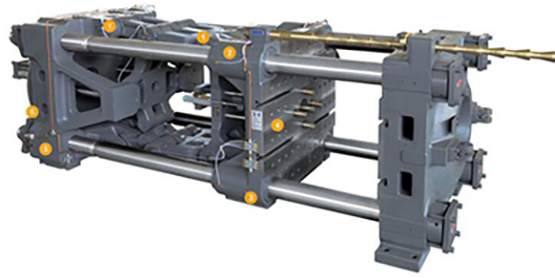
## Overview



### High-Performance NPC 1000 Injection Molding Machine

The NPC 1000 is a high-performance plastic injection molding machine engineered for precision, stability, and high-volume production. It features a robust clamping unit with diagonal dual-toggle mechanics and an advanced injection system designed for accurate material dosing. With integrated cloud-based production management and energy-saving servo technology, this machine offers a comprehensive solution for manufacturers seeking consistent quality and operational efficiency.

## Clamping Unit



### Clamping Specifications

Parameter	Value
Clamping Force	10000 kN
Open Stroke	1210 mm
Space Between Tie Bars	1160 x 1160 mm
Max Mold Height	1160 mm
Min Mold Height	500 mm
Ejector Stroke	325 mm
Ejector Force	245 kN

### Key Features

Diagonal Dual Toggle, One-piece Casting, Triple Interlocking Protection, Automatic Lubrication, Automatic Mold Adjustment

## Injection Unit



### Injection Performance

Metric	Range
Screw Diameter	100 - 130 mm
Shot Volume (Theoretical)	4320 - 7299 cm <sup>3</sup>
Injection Weight	3930 - 6643 g
Injection Rate	698 - 1179 g/s
Injection Pressure	136 - 230 MPa

### System Capabilities

- Dual-cylinder balanced injection system
- Multi-stage pressure/speed/position control
- High-torque oil motor screw drive
- Screw draw-back anti-drooling device
- PID hopper temperature control

## Hydraulic & Control Systems



### Core System Metrics

**17.5 MPa**

Max Pump Pressure

**121 kW**

Total Servo Power

**81.5 kW**

Heating Power

**1640 L**

Oil Tank Capacity

### Physical Dimensions

12.54m x 2.69m x 3.01m (LxWxH)

### Total Machine Weight

50 t