

High Speed Injection Molding Machine for Thin-Wall Products

This specialized injection molding machine is designed for manufacturing thin-wall plastic products, including containers, cutlery, and similar items. The machine's improved injection system facilitates quicker solidification of thin-wall products and achieves energy savings of 30-50% compared to standard models.



ADDITIONAL IMAGES



Overview

<p>Product Instance</p> <p>Machine model: KF400-S6 Product: 700ml round food Cycle: 6 Thickness: 0.25mm Weight: 1.5kg Material: PP Production rate: 300 / 5 (Injection rate)</p> <p>Machine model: KF400-S6 Product: 1000ml round food Cycle: 6 Thickness: 0.25mm Weight: 1.5kg Material: PP Production rate: 300 / 5 (Injection rate)</p> <p>EF Series Disposable food box production system</p> <p>The EF Series is a high-speed production system for disposable food boxes. It features a fully automatic injection molding process, optimized hydraulic controls, and a fast response speed. The system is designed for high-quality output with minimal stress and deformation.</p> <p>EF Series 8 Fork Series: The Professional Production System</p> <p>The EF Series 8 Fork Series is a professional production system for disposable plastic forks. It features a fully automatic injection molding process, optimized hydraulic controls, and a fast response speed. The system is designed for high-quality output with minimal stress and deformation.</p>	
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Optimized for high-speed production of thin-walled items like round bowls and cutlery with cycle times as low as 5.5 seconds.

High-Speed Thin-Wall Injection Molding

The KF series is a specialized injection molding solution engineered for the efficient production of thin-walled plastic items such as containers, cutlery, and packaging. By integrating an innovative plasticizing system and optimized hydraulic controls, this machine achieves significant energy savings of 30-50% while maintaining high product tenacity. Its advanced design features fast response speeds and precise injection control, ensuring high-quality output with minimal stress and deformation.

Key Performance Metrics

Performance Highlights

0.3 s

Injection Response Time

5.5 s

Production Cycle Time

40 %

Average Energy Saving

Clamping Unit



The KF series utilizes a 3-platen clamping design to enhance rigidity and stabilize rapid mechanical movements.

Ejector Specifications

Parameter	Value	Unit
Ejector Stroke	150	mm
Ejector Force	77	KN

Clamping Force	4600 KN
Opening Stroke	600 mm
Maximum Daylight	1270 mm
Platen Size	1070 x 1050
Space Between Bars	690 x 670
Mold Height Range	250 - 670

Injection Unit



Features a single-cylinder injection system and duplex pull rod movement for precise centering and stable injection rates.

Screw Diameter	55 mm
Screw L/D Ratio	24
Injection Pressure	180 MPa
Shot Volume	594 cm ³

Technical Features



Precision components including non-contact linear displacement transducers and nano infrared heaters.

Advanced Features

- Low temperature injection for improved product toughness
- Low pressure injection to minimize stress and deformation
- 3-platen clamping design for optimized stress distribution
- Nano infrared heaters for efficient heating
- Low resistance linear guide rails for precision