

# 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

**Product Instance**

**Machine model: KF400-S6**  
Product: 700ml round food container  
Cycle: 6  
Throughput: 1200/h  
Material: PP  
Production rate: 1000-1500/h

**Machine model: KF400-S6**  
Product: 1000ml round food container  
Cycle: 6  
Throughput: 1200/h  
Material: PP  
Production rate: 1000-1500/h

**KF Series Disposable food box production system**

The KF Series Disposable food box production system is a specialized injection molding solution designed 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.

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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

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## 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 <sup>3</sup>

## 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