



Stable

#### ● High-stability TF technology

Non-contact tie bars permit fast and stable mold opening and closing and significantly reduces energy consumption, causing no pollution to the production environment.

#### ● Highly-stable LS technology

High accuracy linear guide supports notably reduce the friction force on the plasticizing unit and increase the stability of plasticizing and injection pressure, resulting in stable part quality.

#### ● High-resolution sensor technology

The use of the world's top position sensor which produces 2 million counts per revolution delivers incredible stability in position and speed control.

#### ● Fully automatic lubrication system

The lubricating grease is like the blood of injection molding machine. The automatic maintenance-free lubrication system plays an important role in ensuring longlasting stability of the machine.



Turnkey  
solution  
supplier

As the focus is shifted from a single machine to customer's core value demands process, Yizumi has assembled professionals in the fields of mold, process, material and automation, built R&D centers in China and Germany and carried out in-depth cooperation with customers to create more value and achieve win-win.

## About Yizumi

2002



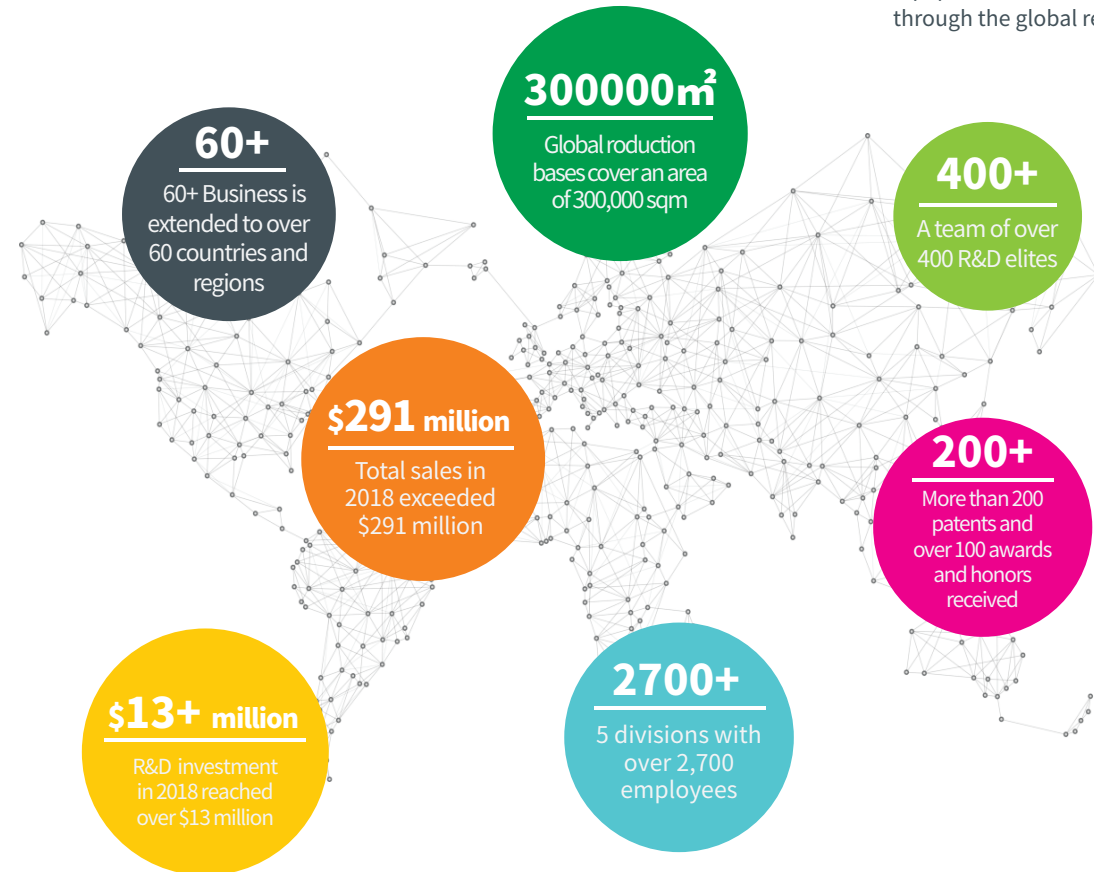
Founded in Shunde, China in 2002, Yizumi is dedicated to becoming a world-class enterprise in its field.

2015



Yizumi was China's first molding equipment manufacturer that was listed on the Shenzhen A share market in 2015.

Yizumi is a leading company in the field of molding equipment technology and provides professional equipment solutions for customers through the global reach.



## FF series

- Widely used general-purpose all-electric injection molding machines
- Fully meet customer's needs of high efficiency and stability and effectively help customers with transformation and upgrade
- Facilitate the optimization of cost structure and create the best-value user experience

## FE series

For customers who require high precision of the molded parts and stable production, the FE series which is compatible with the industry standards is the optimum solution for precision small parts, such as 3C and electronic products, medical devices, optical devices and auto parts.

## GUANGDONG YIZUMI PRECISION MACHINERY CO., LTD.

Add: No. 12, Shunchang Road, Daliang, Shunde, Foshan, Guangdong Province China , 528306  
Tel: 86-757-2926 2215 imm@yizumi.com Stock code: 300415



YIZUMI 伊之密

Designed by Yizumi in October 2018



## FF Series Electric Injection Molding Machine

Product Upgrade • Efficiency Upgrade • Automation Upgrade



Efficient

#### ● Double injection speed

Compared with tradition machines, double injection speed not only shortens the injection time but also brings more possibilities of variety of plastic part design. Customers enjoy more flexibility in the design of wall thickness, gate size and precision of the molded parts.

#### ● 50% higher plasticizing speed

The increase in plasticizing speed reduces cycle time and enhances the stability of parts produced.

#### ● 50% faster mold open and mold close

Dry cycle time is definitely important to customers. Faster dry cycle means higher production efficiency.

#### ● Multi-axis simultaneous movements

As mold opening and closing, injection and plasticizing are driven by individual motors, any kind of movement synchronization can be easily achieved in the case of no technical and safety violation.



Unique SDC  
system

Yizumi applies its own SDC (servo direct control) technology to movement control, so that the control system has nearly 20 times faster response time. The SDC technology also ensures the stability in injection, plasticizing and mold opening and closing accuracy.



► Hopper mounting dimensions

210/300/430/640

830/1100/1400/1700/2250

► Standard & Optional Features

	Standard	Optional
● Control & Monitoring Unit		
- 10.4-inch color display, micro switch	●	
- Memory of molding conditions	●	
- Alarm record	●	
- Operation modification record	●	
- Operator panel with a set of USB interface	●	
- Real-time display of injection and plasticizing curves	●	
- Electrical control circuit for robot	●	
- Multiple languages (Chinese and English)	●	
- Metric and English unit conversions	●	
- I/O check displaying function	●	
- Printer interface (USB17)	●	
- Cycle time monitoring	●	
- Production management function	●	
- Real-time display of injection molding data (200 items displayed, 5000 items saved)	●	
- PDP data and charts	●	
- Injection quality inspection	●	
- Product quality monitoring	●	
- Cycle counter	●	
- Low-pressure mold protection curve checking	●	
- Molding temperature monitoring	●	
- Three-color alarm light	●	
- Alarm buzzer	●	
- Injection pressure protection	●	
- Highly-sensitive 12-inch color touch screen		○
- EUROMAP 12/67 electrical interface for manipulator		○
- Other system languages		○
● Clamping Unit		
- 5-stage mold opening and closing control	●	
- Low-pressure mold protection (AI highly-sensitive mold protection)	●	
- Low-speed, low pressure mold open/close in mold adjustment mode	●	
- Injection compression (clamping synchronized with injection)	●	
- Ejector movement during mold close	●	
- Automatic mold height adjustment	●	
- Four modes for ejector backward	●	
- 3-stage control of ejector backward	●	
- Ejector backward delay	●	
- Ejector backward time monitoring	●	
- Change of ejector backward zero point	●	
- Mold open during ejector backward	●	
- Ejector backward in place confirmation	●	
- Mold cooling water distributor (4 sets for 60T & 90T machines, 8 sets for other models)	●	
- Embedded double-size locating ring design (fixed platen)	●	
- Emergency stop function (on operator side and non-operator side)	●	
- Robot mounting hole	●	
- Central lubrication system	●	
- Slope control for mold open/close (high, medium and low modes)	●	
- Curves of mold open/close and ejector backward	●	
- Function of core unscrewing (2 sets controlled by time, position or counter)	●	
- Needle valve/gate function (4 sets)	●	
- Air blast (4 sets)	●	
- Hydraulic ejector	●	
- Electric ejector		○

	Standard	Optional
- Core unscrewing device		○
- Needle valve/gate device		○
- Air blast device		○
- Different locating rings		○
- Hopper		○
- Heat insulating plate of mold		○
● Plasticizing & Injection Unit		
- Dedicated wear-resistant screw component (open nozzle)	●	
- Injection safety device (detector switch)	●	
- 5-stage injection control	●	
- 3-stage holding control	●	
- 3-stage plasticizing control	●	
- 3-stage back pressure control (accuracy of 0.1MPa)	●	
- Suck-back before or after plasticizing	●	
- Injection and plasticizing delay (time controlled)	●	
- Six modes for switchover to holding phase	●	
- Injection speed response setting	●	
- Multi-stage injection pressure control	●	
- Multi-stage holding pressure control	●	
- Multi-stage speed setting for holding	●	
- Multi-stage time setting for holding (0.01s as the minimum)	●	
- Multi-stage screw position setting (accuracy of 0.01mm)	●	
- Multi-stage plasticizing speed setting	●	
- Mold open during plasticizing	●	
- Closed-loop control of molding temperature	●	
- Temperature holding	●	
- Temperature optimization	●	
- Synchronized temperature rise	●	
- Appointed temperature rise	●	
- Synchronous temperature rise	●	
- Remaining resin prevention	●	
- Cold start protection	●	
- Automatic material purge	●	
- Calibration of injection pressure zero point	●	
- Real-time display of plasticizing speed	●	
- Real-time display of plasticizing back pressure	●	
- Swiveling injection unit		○
- Energy-saving barrel heat-retaining device		○
- Dedicated barrel and screw assembly		○
- Spring shut-off nozzle		○
- Extended nozzle		○
- Ceramic heater band		○
● Other		
- Color of FF series all-electric IMM	●	
- Closed safety door	●	
- Adjustable vibration-damping wedge mount	●	
- Reserved socket (220V/380V)	●	
- Hopper (max.load of 50kg)	●	
- Hopper sliding device	●	
- Tool kit	●	
- Auxiliary electrical cabinet		○
- Vacuum air evacuation device		○
- Glass tube flowmeter		○
- Added cooling water circuit		○