

# Technology is introduced



## ◀ CONTROL PART

It adopts imported computer for plastic injection machine, with large screen ,high definition crystal display and human-computer interface in different languages, such as Arabic, Spanish, English, Farsi, etc. Through CPU independent control and individual treatment, it has raised the running speed of the control system and alarming of successive oil temperature, thus improving the operating speed of the machine.

## CONTROL PART ▶

It utilizes closed-loop temperature control system to ensure the accuracy and reliability of the barrel temperature. It is also equipped with the functions of cold-proof boot, alarming and parameter memory for the molding, with password protection. The injection and switch are controlled by imported locating ruler.





The excellent chrome, molybdenum and aluminum alloy screw and barrel have undergone the nitrilizing process, applicable to various plastic materials.

### ◀ INJECTION PART ▶

The injection cylinder (258T advanced) is parallel or balance for both sides of the barrel, so as to ensure the non-deviation of the nozzle, good sealing and non-leakage. It is equipped with double guide pillar supporting system which can inject under multifarious pressures at various speeds. It also uses one-stop hydraulic pre-injection device.



### ◀ Screw Speed Testing Device

Rotation speed could display on the screen directly, users could consult and adjust the technical parameters.

### HYDRAULIC PART ▶

It adopts the imported top quality hydraulic components, proportional control for pressure and flow.



### ◀ Moulding-adjustment part

Mold is adjusted by gear controlled by oil motor, the mold can be adjusted automatically in accordance with the setting pressure, which is both convenient and reliable.

### MOLD PART ▶

Five-fulcrum crankshaft structure, the mold and the bracket structured together, with good rigidity and high-fitting precision, adopting the computerized optimized design. The mold employs finite element analysis, with double pulling and inserting device. Performs the functions of super sensitive low pressure protection. The mechanical, hydraulic and electrical protections have ensured the human safety. The dismantlable fill-out hopper can be installed conveniently and automatically. The moveable platen adopts a fixed durable vertical brace that is adjustable. With little friction and balanced dependable moving. Clamp opening is synchro with ejecting.



## Servo Energy-Saving Injection Molding Machine Series



High performance servo driver

Internal gear pump+servo motor



Plunger pump+servo motor



### Features

LSF-S Series injection molding machine, controlled by oil&electric compound system, is our newly developed style, it is economic, energy saving, high response and low noise. structure principle is, in real work, the system feedbacks signal of pressure and flow to high speed servo driver via rotary speed meters and pressure transducer. Servo driver then send signals to drive servo motor and oil pump, and make the pressure and flow change to realize the closed-loop for pressure and flow.



**Servo motor**



**Servo driver**



**Clamp**

### **Standard equipment:**

- 1) Double cylinder balancing injections**
- 2) High-torque oil-motor preplasticizing**
- 3) Five pivots minus relief angle, double toggles, machine hinge  
mold locking**
- 4) Cabinet-type holder integrates the mold plate**
- 5) Oil motor driven gear mold adjusting**
- 6) Storage-type grease lubricating**
- 7) Pressure and flow whole-proportion running**
- 8) High-performance, low-noise oil pump**
- 9) Multi-step pressure and speed adjusting**
- 10) High-precision position linear transducer**
- 11) Digital memory for mold group**

### **Injection unit:**

- 1) Four injection pressures and speeds with three additional  
pressures and speeds**

- 2) Suck back function**
- 3) Cold start protection**
- 4) Pre-suck back function**
- 5) Linear displacement transducer accurately monitor injection position, providing optimum. injection accuracy and control**
- 6) Temperature control**
- 7) Heating Status indication**

**Clamping unit:**

- 1) Three clamp close and open pressures and speeds**
- 2) Mold protection function**
- 3) Hydraulic ejector stroke controlled by transducer**
- 4) Automatic hydraulic die-height adjustment driven by planetary gears system**
- 5) Adjustable support under moving platen**
- 6) Automatic high pressure toggle lubrication with low oil level alarm**
- 7) Mechanical, electrical and hydraulic safety interlock devices**
- 8) Linear displacement transducer controls clamping position**

**Other parts:**

- 1) Independent core in / out pressure and speed**
- 2) Hydraulic unscrewing sequence**
- 3) Hydraulic oil high temperature alarm**
- 4) System pressure gauge**
- 5) Shot counter and reset function**
- 6) Malfunction alarm light**
- 7) Self-diagnostic function**
- 8) Emergency stop buttons placed both front and rear of the machine  
to provide easy access**