

## NingBo SuRui Machinery Co.,Ltd

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### Characteristics

This Servo drive machine is designed For your Universal Processing applications this series of machinery is fast ,accurate and has Excellent Repeatability .This **THREEPLAST** injection molding machine can help you reach a maximum producibility on a wide range of materials . with a Bi-metal screw & Nitrided barrel . wear-resistant screw tip. High strength tie-bars and rigid platens . it all adds up to a unit ,that will stay the course ,giving consistently high quality and output with a wide range of materials and with the most complex of molds .

## Machine Standard Features

**Clamping Unit**

Precise transducer for clamping /Ejector / Injection stroke control

Three platens / toggles made of highly-rigid ductile iron QT500-7A

Pre-drilled Robot mounting holes

Hydraulic gear-type mold height adjusting device

Mechanical / Electrical safety devices

Adjustment-free mechanical safety lock rod

Wear-resistant Manganese steel bands and supporting ,tracks for movable Platen

Automatic central lubrication system

Multiple ejector function settings

Euromap Platen with T-Slots and mold mounting holes

Automatic mold height adjustment

Force ejector reset

Anti-crushing bump strips on the safety gate edges

**Injection Unit**

Parallel double-cylinder injection system

Low-speed high-torque hydraulic motor

Bi-metal screw and barrel

Multi-stage PID nozzle and barrel temperature control

|   |
|---|
| Fully-closed heat band Cover  |
| Nozzle safety cover   |
| Cold start protection ( oil heating function if the weather is Cold ) |
| Linear guide for injection unit carriage                              |
| Automatic Material Purge  |
| Selectable suck-back before or after plasticizing                     |
| Movable hopper (90T--320T)  |
| Ceramic heater band   |
| Back pressure control on PLC  |
| <b>Hydraulic System</b>   |
| Servo motor , pump system   |
| Top branded hydraulic valve   |
| Top branded hydraulic seal  |
| Fast mold closing device  |
| Built-in cooler   |
| By pass Oil filter for Hydraulic oil                                  |
| Hydraulic circuit design of mold opening stop ( 170T --500T )         |
| Safety Retention device for exposed high-pressure hydraulic hose      |
| Two set of core puller connector with valve,2 set blow air valve .    |
| Mold water-cooling devices  |

## Electrical System

Forced barrel heating protection

Input / Output inspection

Automatic heat retaining and automatic heating setting

Ways of switching from injection to holding pressure:

time/ position / time + position

12" TFT color LCD

Memory space for up to 100 mold data sets ,USB Ports

Multiple operating languages

Color alarm light

2 blow Air

All transducers ,weak-current switches and reversing

solenoid valves enclosed by water-proof and rat-bite- proof corrugated pipes

Multi-level password security and key-locked operation Panel

Front and Rear safety gates with emergency stop protection

Back safety gates with stop protection (back door open stop the motor )

PDP interface

Statistical process control (SPC) interface

Reserved interfaces for air-blowing ,core pulling, ejector back protection devices,  
etc.

Two set of 3-phase power socket , AC 380V

One set of multi-function power socket ,AC 220V

SSR heating control

Euromap 67 / 12 Robot interface .

### **Others**

Operation manual

Adjustable Leveling pad

A tool kit and precise filter element

Mold clamp

Spare parts ( details as per sales contract )

## Main Components

| Description         | Brand     | Country of Original |
|---------------------|-----------|---------------------|
| Servo Driver        | INOVANCE  | CHINA               |
| Servo Motor         | PHASE     | ITALY               |
| Servo Pump          | SUMITOMO  | JAPAN               |
| Connector           | EATON     | USA                 |
| Valve               | YUKEN     | JAPAN               |
| Controller computer | KEBA      | AUSTRIA             |
| AC contactor        | SCHNEIDER | FRANCE              |
| Stroke switch       | SCHNEIDER | FRANCE              |
| Single-pole switch  | SCHNEIDER | FRANCE              |
| Micro switch        | SCHNEIDER | FRANCE              |
| Position Sensor     | OPKON     | TURKEY              |
| Seal components     | HALLITE   | UK                  |
| Pressure Sensor     | IFM       | GERMANY             |
| Hydraulic motor     | DANDUN    | CHINA               |
| Lubrication system  | RUNZHOU   | CHINA               |

## Machine Specifications

| <b>TH90</b>           |                 |                       |          |          |
|-----------------------|-----------------|-----------------------|----------|----------|
| <b>Injection Unit</b> |                 | <b>A</b>              | <b>B</b> | <b>C</b> |
| Screw Diameter        | In              | 1.18                  | 1.26     | 1.38     |
|                       | mm              | 30                    | 32       | 35       |
| Screw L/D ration      | L/D             | 23.5                  | 22       | 20.1     |
| Shot volume           | in <sup>3</sup> | 7.14                  | 8.11     | 9.64     |
|                       | Cm <sup>3</sup> | 117                   | 133      | 158      |
| Shot weight (PS)      | g               | 106                   | 121      | 144      |
|                       | oz              | 3.74                  | 4.27     | 5.08     |
| Injection Pressure    | psi             | 33350                 | 29435    | 24650    |
|                       | Mpa             | 230                   | 203      | 170      |
| Max screw speed       | rpm             | 215                   |          |          |
| <b>Clamping Unit</b>  |                 |                       |          |          |
| Clamping Force        | KN / T          | 900 / 90              |          |          |
|                       | U.S.ton         | 99                    |          |          |
| Opening stroke        | In              | 12.6                  |          |          |
|                       | mm              | 320                   |          |          |
| Tie-bars distance     | In              | 14.17 X 14.17         |          |          |
|                       | mm              | 360 X 360             |          |          |
| Max.mold height       | In              | 13.78                 |          |          |
|                       | mm              | 350                   |          |          |
| Min.mold height       | In              | 5.91                  |          |          |
|                       | mm              | 150                   |          |          |
| Ejector Stroke        | In              | 3.54                  |          |          |
|                       | mm              | 90                    |          |          |
| Ejector force         | KN              | 30                    |          |          |
|                       | U.S. ton        | 3.3                   |          |          |
| <b>General</b>        |                 |                       |          |          |
| Pump power            | Kw              | 11                    |          |          |
|                       | HP              | 14.74                 |          |          |
| Heating capacity      | Kw              | 7                     |          |          |
|                       | HP              | 9.38                  |          |          |
| Oil tank Capacity     | Litre           | 157                   |          |          |
| Machine Dimensions    | In              | 181.1 X 47.24 X 70.87 |          |          |
|                       | m               | 3.81 X 1.19 X 1.79    |          |          |
| Machine weight        | Kg              | 2900                  |          |          |
|                       | Lbs             | 6380                  |          |          |

| <b>TH160</b>          |                 |                        |          |          |
|-----------------------|-----------------|------------------------|----------|----------|
| <b>Injection Unit</b> |                 | <b>A</b>               | <b>B</b> | <b>C</b> |
| Screw Diameter        | In              | 1.65                   | 1.77     | 1.97     |
|                       | mm              | 42                     | 45       | 50       |
| Screw L/D ration      | L/D             | 22                     | 20       | 18.5     |
| Shot volume           | in <sup>3</sup> | 19.03                  | 21.48    | 26.96    |
|                       | Cm <sup>3</sup> | 312                    | 358      | 442      |
| Shot weight (PS)      | g               | 284                    | 326      | 402      |
|                       | oz              | 10.02                  | 11.50    | 11.48    |
| Injection Pressure    | psi             | 29435                  | 25665    | 20735    |
|                       | Mpa             | 203                    | 177      | 143      |
| Max screw speed       | rpm             | 200                    |          |          |
| <b>Clamping Unit</b>  |                 |                        |          |          |
| Clamping Force        | KN / T          | 1600 / 160             |          |          |
|                       | U.S.ton         | 176                    |          |          |
| Opening stroke        | In              | 17.13                  |          |          |
|                       | mm              | 435                    |          |          |
| Tie-bars distance     | In              | 18.30 X 18.30          |          |          |
|                       | mm              | 465 X 465              |          |          |
| Max.mold height       | In              | 21.65                  |          |          |
|                       | mm              | 550                    |          |          |
| Min.mold height       | In              | 7.87                   |          |          |
|                       | mm              | 200                    |          |          |
| Ejector Stroke        | In              | 5.31                   |          |          |
|                       | mm              | 135                    |          |          |
| Ejector force         | KN              | 46                     |          |          |
|                       | U.S. ton        | 5.06                   |          |          |
| <b>General</b>        |                 |                        |          |          |
| Pump power            | Kw              | 22                     |          |          |
|                       | HP              | 29.48                  |          |          |
| Heating capacity      | Kw              | 9.9                    |          |          |
|                       | HP              | 13.27                  |          |          |
| Oil tank Capacity     | Litre           | 300                    |          |          |
| Machine Dimensions    | In              | 200.79 x 55.12 x 86.61 |          |          |
|                       | m               | 5.10 x 1.40 x 2.20     |          |          |
| Machine weight        | Kg              | 5300                   |          |          |
|                       | Lbs             | 11660                  |          |          |

**Price for TH90**

| Molde                                     | Tie-bars Distance  | Shot weight (PS)<br>By standard B screw<br>32 mm | Clamping<br>Force | Price<br>USD |
|---|--------------------|--|-------------------|--------------|
| TH90                                      | 360 X 360 mm       | 121 g  | 90 T              | <b>18900</b> |
|   | 14.17 X 14.17 Inch | 4.27 oz  |                   |              |
| Standard Bi-metal screw & Nitrided barrel |                    |  |                   | <b>0</b>     |
| Net price                                 |                    |  |                   | <b>18900</b> |

**Price for TH160**

| Molde                                     | Tie-bars Distance  | Shot weight (PS) By<br>standard B screw<br>45 mm | Clamping<br>Force | Price<br>USD |
|---|--------------------|--|-------------------|--------------|
| TH160                                     | 465 X 465 mm       | 326 g  | 160 T             | <b>25980</b> |
|   | 18.30 X 18.30 Inch | 11.50 oz   |                   |              |
| Standard Bi-metal screw & Nitrided barrel |                    |  |                   | <b>0</b>     |
| Net price                                 |                    |  |                   | <b>25980</b> |

**Price for TH210**

| Molde                                     | Tie-bars Distance  | Shot weight (PS)<br>By standard B screw<br>50 mm | Clamping<br>Force | Price<br>USD |
|---|--------------------|--|-------------------|--------------|
| TH210                                     | 520 X 520 mm       | 429 g  | 210 T             | <b>31000</b> |
|   | 20.47 X 20.47 Inch | 15.13 oz   |                   |              |
| Standard Bi-metal screw & Nitrided barrel |                    |  |                   | <b>0</b>     |
| Net price                                 |                    |  |                   | <b>31000</b> |

By: David Ye.

Date: 2021/3/10

**Note:**

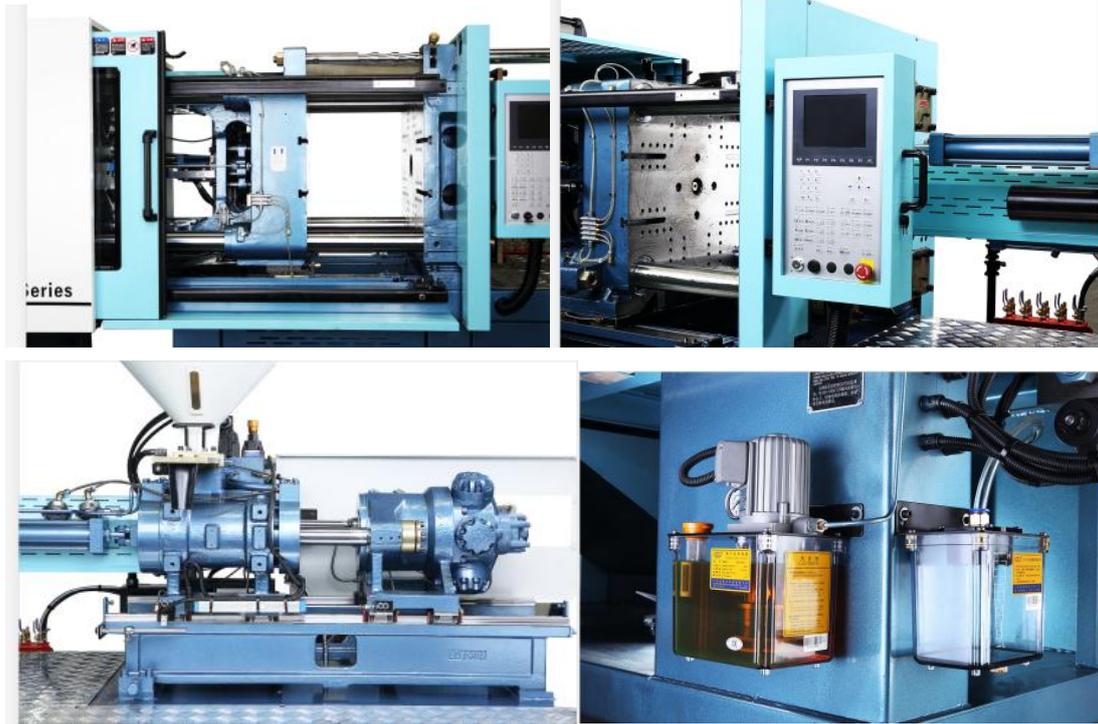
1. Price condition : FOB NINGBO
2. Payment Items: 30% TT in advance , 70 % TT before Delivery
3. Loading Port: NINGBO PORT

4. Delivery time: Within 50 days after received advance payment.
5. This offer is valid for 90 days only .

### Warranty

1. Machine Hydraulic part & Mechanical part warranty Period of two years . (include : casting ,tie-bars ,injection ,clamping & ejector manifolds ,toggle links and carriage guide rod , Hydraulic hoses , position sensor , bushings, toggle pins, Hydraulic valves, proportional valve, Hydraulic screw motor and hydraulic pump )
  2. Screw & Barrel warranty Period of 12 months . (new plastic material )
  3. Electronic components warranty Period of two years.
  4. Warranty does not include any improper use by customer operation and the loss cause by wrong operation .
  5. Warranty is limited to the replacement of damaged parts ,not including the Tax on customers . delivery charge .consumption and lost .
  6. Warranty does not include any profit loss ,loss of production or the resulting any loss.
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Factory Glance





Customers



Shipping



**We Also Provide Mould and Auxiliary Equipment :**



Mould

Auto loader



Hopper dryer



Mixer



Crusher/Granulator



Chiller



Mould Temperature controller

**And Others Customer needs .**