

Standard Injection Molding Machine

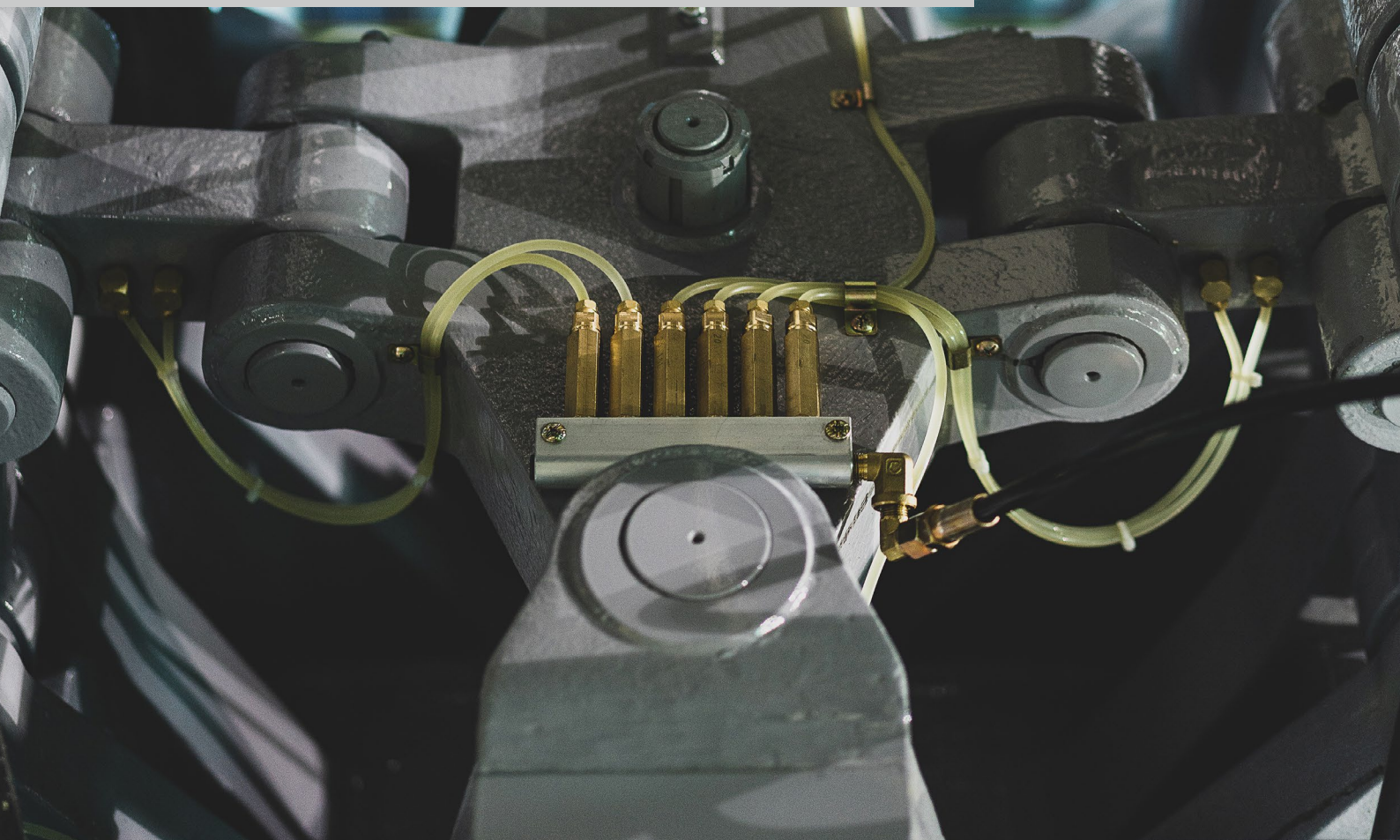
EH-DS

50~1000^T

OMC

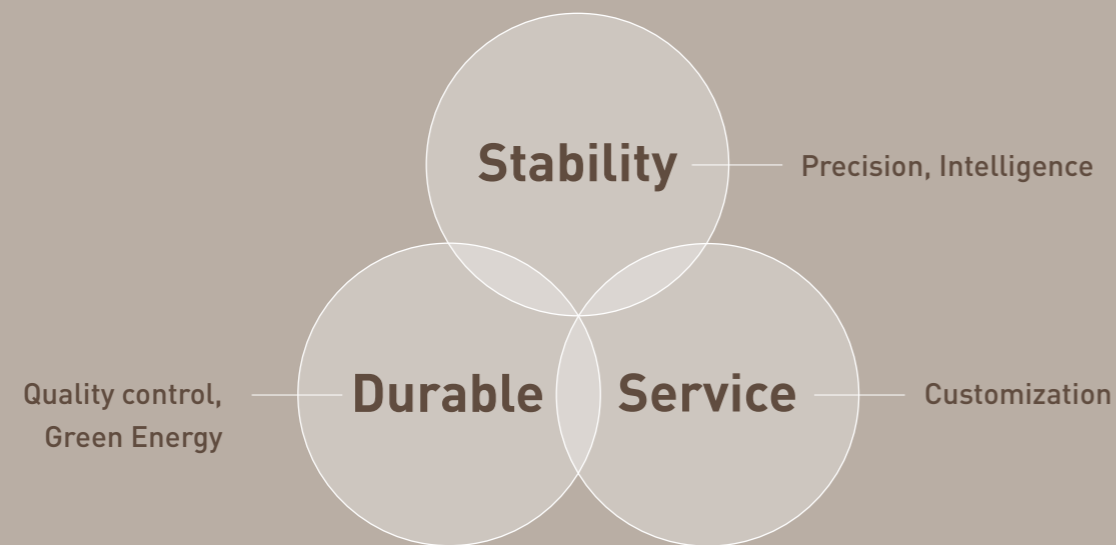
Outstanding Machinery Co., Ltd.

[www.
omc-injection.
com.tw](http://www.omc-injection.com.tw)



OMC

Advantage & Philosophy



The word we like to challenge the most is "Impossible".

Facing with doubt, we have our motto: Speak Less, Do More. Do not express much opinion, but act first. When continuous practice gradually takes shape, give it meaning so that people can understand it.

Creating the best customer experience.

Because clients from all over the world expect and look for perfect experience, OMC's products provide the precision to meet our promised performance. Constantly adjusting molding-parameter, unstable quality, and helpless maintenance and technical support, the above frustrating experience are what we hope you will not bump into it anymore. Creating the best customer experience is the core philosophy of our team.

The broader the horizon, the bigger the thinking.

Recruiting talented thinkers and practitioners in all fields, we make continuous progress in products and practices. Learning from our colleagues equals learning from the best talents in the industry. Additionally, no matter to clients or to enterprises, our team listen with humility, learn and share sincerely. We are committed to make bilateral relationships well-established.

OMC

Product Principle

High environmental protection requirements.

The impact of production equipment on the environment is minimized.

Long operating life. After operating for many years, if repairs are required, machines can be repaired and then they can be operated for a long time.

High-standard business ethics.

Treat customers, employees and suppliers with respect.

Suppliers must meet OMC's required business ethics standards.

Treat customers and employees with fairness and justice.

High-standard products.

Product design and selection of raw materials are of the highest quality.

Leverage excellent experience and innovative technologies to design better products.

100% of product reliability OMC pursues.

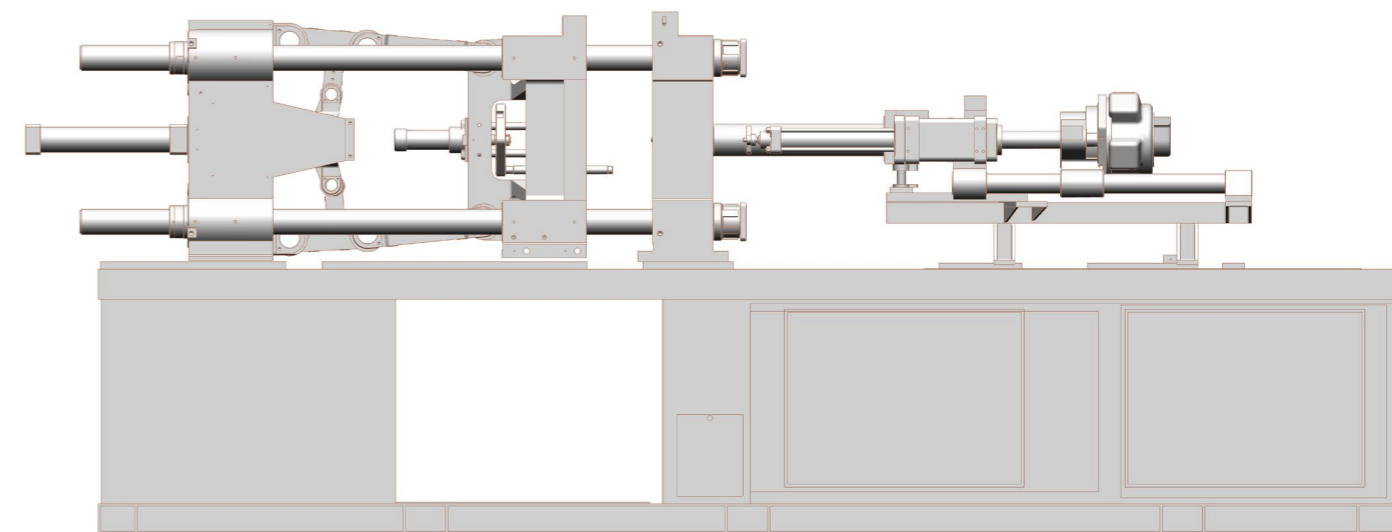
Every product is verified after assembly.

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Mechanical Performance Characteristics

Servo motor system (Japanese Toshiba and other optional brand) and made-in-Germany Rexroth/Bosch semi-close-loop system.	
Injection pressure and speed monitoring function. (Screw pressure)	
Display of pressure unit and speed unit is friendly to switch based on your usage habit. (Bars or Kg/cm ² , % or Mm/s)	
Temperature of electrical heating-band is controlled by PID intelligent system.	
Multilingual choices: Chinese, English, German, Spanish, Vietnamese, Thai. Function keys, F1~F8 switch languages friendly and directly.	
Industry 4.0 communication. High-performance computer control system and its extremely quick response: 0.2~0.3ms. (Microsecond)	
Central monitoring function. (Excluding the expense of cables, computers and software of your factory)	
Communication agreement Ethernet (OPC UA), EtherCAT: <ul style="list-style-type: none">• Alarm notices of servo-driver display on the controller for friendly reading and convenient communication.• Integrated auxiliary equipment such as robot-arm, mold temperature controller, hopper, and servo-driver save your resetting time.	
DI/ DO/ AO mandatory signal output and our signal-switch function are friendly and convenient for maintenance staff.	
Enhance the effect of ground wire of servo-driver to avoid signal interference.	
Have proper distance between Alternating Current and Direct Current to avoid signal interference.	
Instruction, maintenance manual, spare parts manual, electrical circuit diagram, and hydraulic circuit diagram.	
Technical document of adjusting parameters among servo-driver, solenoid valves and controller.	
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Ejector return signal for protecting your mold.	
Linear transducers on injection, clamping and ejectors.	
Japanese LUBE automatic lubrication.	
Connect hydraulic circuit with cooler to maintain low oil-temperature.	
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Comprehensive adoption of nodular cast iron FCD-600 (D5506 in U.S., GGG60 in Germany) and high-strength alloy steel SCM-440 (4140 in U.S., 42CrMo4(1.7225) in Germany).	
Mastering screw experience for 40 years, we adopt extra anti-wear and anti-corrosion stainless steel: SACM-1 (SACM-645 in Japan, SAE 7140 in U.S., 41CrAlMo7 (1.8550) in Germany) and Japanese Hitachi DAC SKD-61 (H13 in U.S., X40CrMoV51 (1.2344) in Germany).	
Injection-carriage adopt two hydraulic cylinders for much balanced movement, avoiding the nozzle from friction damage while attaching to the mold.	
Movable platen is coupled with Japanese anti-friction roller bearings. (Optional adoption: brass blocks or linear slide)	
The parallelism of our movable and fixed platens is required with 0.05mm.	
CE quality and safety certification (ISO TUV)	
Mechanical high-precision machining requirements	
Nitriding Heat Treatment	
High Frequency Induction Hardening	
Eletroplating	
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Coupled with hydraulic logic valves, Rexroth/Bosch proportional valve of decompression (back pressure) provides precise hydraulic movement.	
The changeover position to holding pressure is precisely controlled to guarantee you reliable parts quality.	
Integrated with experienced hydraulic and electrical circuit design, our signature injection structure ensures the highest repeatability, enhancing the accuracy within 0.01mm.	
Unique hydraulic circuit design lowers the intense friction as the motor pump reverses suddenly, enhancing its operating life.	
This delicate integration technology of hydraulic and electrical circuit holds the instantaneous acceleration of hydraulic cylinder.	
100% hand-made hydraulic steel pipe.	
Japanese high-pressure steel-wired hose.	

## Standard Injection Molding Machine EH-DS 50~1000 ton



# Customize Your Desire, Your OMC

- 1 EHIII-DS-sy, our high speed and hybrid series machines open mold with synchronized ejector and charging plastic material, saving your cycle time.
- 2 Shut-off nozzle with precise design and manufacturing.
- 3 EHIII-DS, our high speed series machines with the nitrogen accumulators enhance the injection speed up to your requirement.
- 4 Customize the system pressure of machines from original maximum 175 to 200 bars.
- 5 Level up the motor and the pump to increase the speed of the system flow.
- 6 Minimum mold thickness modification.
- 7 Maximum mold thickness modification and strengthen the structure of frame base.
- 8 Achieve the shortest cycle time. First analyze and then provide you with the feasible total-turnkey-solution.
- 9 Customize mechanical structure as you wish. Enhance the solidness, heat treatment process and the requirement of tolerance.
- 10 Stack mold, tandem mold, cubic mold, and other special mold cooperation.
- 11 Hot runner control unit cooperation. Precise control of position, time, speed, pressure, and temperature.
- 12 Euromap 67
- 13 Euromap 12
- 14 Use phones and tablets to connect your office with factory.
- 15 Communication agreement of your auxiliary equipment such as mold temperature controller, robot arms, hopper, and etc.
- 16 In-mold labeling.

## Case Description

Purchasing OMC EH-DS 550 tons machines, our client does not have appropriate overhead-travelling-crane in the factory. The solution is that we divide the machines into 2 parts in order to transport and position individually.



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