

# PNI

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**Highly cost effective  
basic model with Servo Power-Save**

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# Highly cost effective basic model with

The Haitian HTFW/J5 servo energy saving injection moulding machines are characterised with energy efficiency and environmental protection, closed-loop precision, quick response, low noise and more.

It integrates traditional hydraulics with all electric.

It offers one hundred per cent CE conformity and is fitted with high quality European components and a high performance Keba control unit, offering clamping forces of 600 to 24,000 KN.

Main features include uniform user interface with the latest Keba control technology, and European components for electronics, hydraulics, electrics and drive. At least two injection units can be selected for each clamping force.

An optional servo-valve for higher injection performance is available. Electric screw drive is also optional.

HTFW HTFW1 series, the basic model, is highly cost effective, and ensures that users can compete in a fiercely competitive market. It has an attractive price-performance ratio.

Ningbo Haitian Plastic Injection Machinery Group Ltd was established in 1966.

After forty two years of development, the group has become a national large-scaled enterprise, being chair unit of China Plastic Machine Industry Association and vice chair unit of China Light Industry Machinery Association.

In addition it is one of the first companies to pass the certification of CE and ISO 9001 International Quality System.

Haitian Mars Series-MA 1200/410



Haitian Mars Series-MA 2800/1350



The group is recognised as a national technology centre and one of 103 national pioneers for innovation enterprises by China's Ministry of Science and Technology in 2006. With an area of more than 566,000 square metres and more than 3,000 staff, it is the largest production base of plastic machinery in the world.

It is also the largest PIMM producer in China in terms of sales and production volume, and the Number 1 producer of medium-to-large PIMM in China. Haitian has come to be recognised throughout the world for its high quality products, high efficiency, energy saving, high level classification, and good economic benefits.

Major markets include South East Asia, East Europe, South America, Middle East, West Europe,

Africa and North America with a subsidiary in Italy, and twelve international sales agencies.

The group is a market leader as a result of its enormous production scale, strong sales networks in both domestic and international markets, high quality and a comprehensive product range.

The company is expanding its leading position in the international market for injection moulding machines. With an output of about 14,000 machines in 2005, the company boosted its established position as the largest supplier of injection moulding technology by far in China and has set its sites on being the leading supplier in Asia.

It currently holds twenty five per cent of the total Chinese market, fifteen per cent share of the small and medium sized injection moulding machinery segment and a sixty per cent of the large machine segment.

In the foreseeable future Asia, Oceania and Australia will continue to be the second largest market for their injection moulding machines. While the company is well established in this region it intends to intensify its presence in the export markets outside of Asia by presenting its existing product portfolio in conjunction with current strategic innovations.



# Servo Power-Save

According to Haitian's market share analysis categorises the Chinese market as basic level technology... low-tech moulding... accounts for forty five per cent of the market, medium level technology... mid-tech moulding, thirty five per cent, and premium level technology... high-tech moulding, twenty per cent.

Its current forecast anticipates a shift in demand by 2010 with low-tech moulding accounting for twenty five per cent of the market, mid-tech moulding gaining forty per cent, and high-tech moulding representing thirty five per cent.

The strong growth of the mid-tech moulding segment is driven by the fact that international corporate end consumers and OEMs compel their suppliers to comply with western-technology based quality standards on an international level and a general increase in the demand for high quality consumer and capital goods in China and other Asian countries.

At present, Haitian caters to customers that want low-tech and mid-tech moulding capability. As the abandoned Demag Haitian JV focused on the mid-tech moulding segment, Haitian is now determined to provide an attractive product range to advance its strategic objectives.

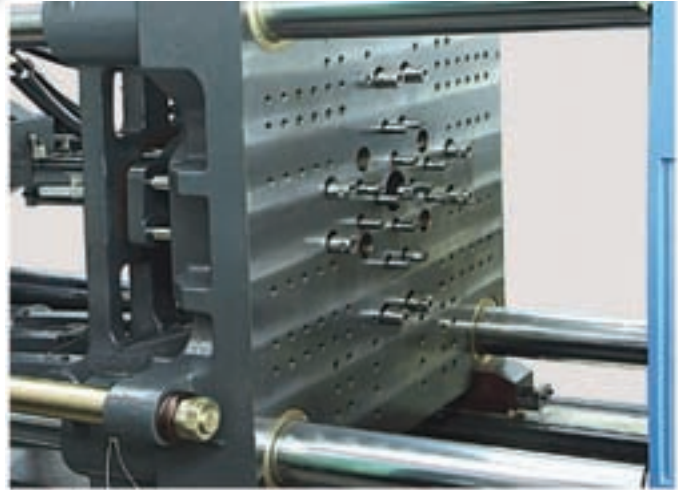
Jianming Zhang is convinced that his company must be geared towards meeting the requirements of the premium market segments to ensure success in the mid-tech segment. This strategy calls for the development of a product which is on a par with the more advanced European technology standards. Zhang has joined forces with Zhafir Plastics Machinery GmbH, which developed an injection moulding machine to cater to the requirements of the premium segment.

The expanding mid-tech segment

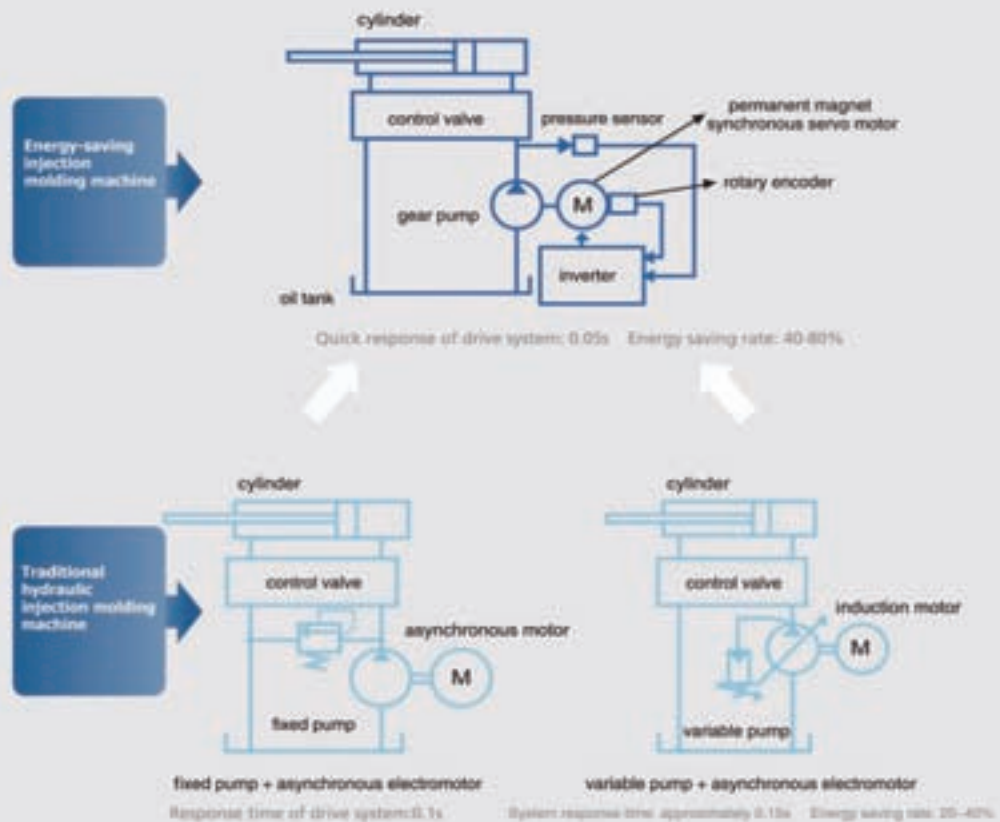
will be supplied by Zhafir's premium segment machines as well as by mid-tech machines already sold by Ningbo Haitian.

Haitian is represented in Australia by Haitian Direct, a company formed by Mark Folley and Bob Daley in 2006, to supply machinery, spare parts and national service for the complete range.

Haitian Direct is situated in Williamstown, Australia.



## Energy-saving injection molding machine-innovation of drive system



Equipped with a rotary encoder and pressure sensor, the pressure flow state of the energy saving Haitian Mars Series machine will be transmitted to the controller, the command of which will be sent out to the efficient synchronous servo motor to change the rotation and the torque accordingly. The corresponding flow and pressure adjustment ensures the highest quality and precision of the plastic parts produced, with energy savings and fast response times.