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# JM-PET

Specialised for PET preforms

160-560 tons



## About Chen Hsong

Chen Hsong, established in 1958, is one of the largest manufacturers of injection moulding machines in the world, with annual sales exceeding 15,000 sets.

For over 60 years, Chen Hsong sold to more than 85 countries across the globe, supplying injection moulding machines with clamping force from 20 tons to 6,500 tons. In 1991, Chen Hsong became listed on the Hong Kong Stock Exchange (stock code: 0057).

Headquartered in Hong Kong, Chen Hsong operates numerous manufacturing and research facilities in China, including Shenzhen, Shunde, Ningbo and Taiwan, as well as in Japan.

**60 Years of Excellence**  
Since 1958

**15,000 sets / year**  
One of the largest in the world

**Operates 800,000 sqm of facilities**  
Global Presence

**24 hours**  
Hundred-strong, round-the-clock service team



## Applications

### Cosmetics Packaging



High-mixing screw and tip design is especially suitable for multi-coloured preforms, with the high-torque MRC hydraulic motor ensuring the best melt quality even under high-speed plasticising. Perfect for short-cycled products with high demands on consistency.

### Jars and Containers



Specialised screw and tip design tailor-made for producing wide-mouthed and narrow-mouthed containers for water, edible oil etc. High-torque MRC hydraulic motor gives high plasticising speed yet superior melt quality. Perfect for a wide range of PET container products.

### Box Packaging



Specialised solution for packaging boxes for condiments, liquor and sweets.

# JM-PET

## Specially Designed for PET

Since the 1980's, Chen Hsong has always been a leading provider of PET machinery. The JM-PET series is the product of many decades of experience in PET applications and manufacturing processes. It simply has no equal in this space.

In the JM-PET series, you are assured the best product quality, the best production efficiency, and the lowest energy consumption.

Regardless of your particular application – PET preforms for water or carbonated drinks, containers for edible oils, cosmetic packaging, wide-mouthed jars, transparent, semi-transparent, single-coloured, multi-coloured etc.

**Chen Hsong always has the perfect solution for you.**



### Highest Quality

Specialised screw and tip designs ensure the highest melt quality with the best mixing and low AA levels beating industry requirements.

### Highest Stability and Precision

Name-branded hydraulics and controls, together with high-precision transducers and power pack, provide the necessary reliability and precision to meet high demands, with repeatability as high as  $\pm 0.5\%$ .

### Highest Efficiency

Fast-response, high-powered power pack reduces cycle time and lifts production efficiency.

### Lowest Energy Consumption

High-efficiency, fast-response, energy-saving power pack runs exceptionally cool and consumes 40% less electricity than traditional offerings.

### Lowest Noise

High-precision gear pump coupled with high-response power pack ensures high-precision mechanical movements and low operating noise.

### Environmentally Friendly

Centralised lubrication and oil recycling system keeps the machine clean and tidy, meeting the needs of food-grade environments. It is also friendly to the environment due to low wastage.



# Major Features

## Tailor-Made for PET Applications

### Specialised Screw and Tip Designs

Chrome-plated customised screw and tip designs yield superior melt quality, high stability, and high plasticising speed.



### High-Efficiency Barrel Heating

#### Highly Power-Efficient and Precision Temperature Control

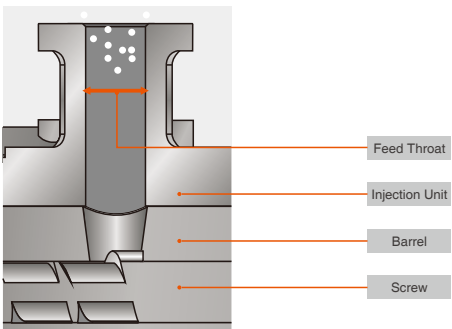
Infrared barrel heating system (optional) has exceptionally low power consumption and flexible temperature control profiles.



Infrared barrel heating system (optional)

### Specialised Feed Throat Design for PET

Faster and smoother materials feeding, supporting higher plasticising speeds.



### Wide Choices of Power Packs

Choose the power pack that is just right for your particular application.



Variable Displacement Pump (VDP) Power Pack  
(JM\*\*\*-PET models)



Intelligent Servodrive Power Pack  
(JM\*\*\*-PET/S models)

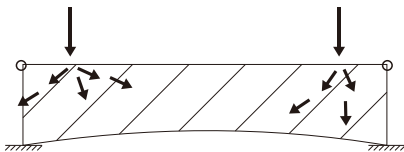
### User-Friendly Lubrication System

Automatic lubrication for the clamp unit, easy and convenient central lubrication circuit for the injection unit and other parts.



### High-Strength Injection Unit

Enhanced injection unit for high-precision, high-stability and high-speed plasticising for maximal yields.



Integrated Injection Unit Base

### Specialised Nozzle

Custom-designed nozzle for PET has reduced pressure drop and fits your tools perfectly, making it a snap to fine-tune your application parameters.



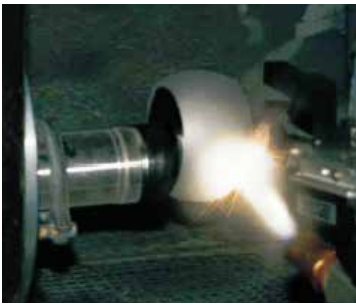
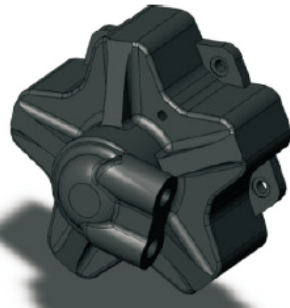
### MRC Hydraulic Motor

#### High Torque, Low Noise

Specialised coating in hydraulic motor enables exceptional stability and reliability even under prolonged, heavy-duty production usage.

#### eDrive™ (optional)

Servo-driven plasticising unit for even higher productivity and power-efficiency demands.



High speed hydraulic motors with specialised coating are standard for 320-560 ton models.

Ejectors

Long ejection stroke and large ejection force for all application needs.



Imported high-resolution TFT-based HMI  
Conformant to JIS and IEC Standards

- LED backlight with high brightness and long life
- Advanced SMT technology with highest stability and reliability
- Multiple languages
- Intelligent fault diagnostics
- Online operational instructions
- Industrie 4.0 interface



Beckhoff® Advanced  
Controller (optional)

Large Water Manifold

Can be customised for exact needs.



Clean Production

Specially-designed machine base avoids preforms contamination.

