

SUPERMASTER Two Platen Advanced Servo Drive

Servomotor-driven Injection Moulding Machines from 700 to 6500 tons

**Your Precision
Energy Saver**



The Chen Hsong Group

Hand in Hand Over 50 Years

55 Years of Solid Foundation

The Chen Hsong Group was established in 1958 and has grown from a small machinery workshop to one of the largest manufacturers of injection moulding machines in the world. A full range of machines is produced with clamping forces from 20 tons to 6500 tons. with customers in over 80 countries worldwide.

Headquartered in Hong Kong, Chen Hsong owns a number of manufacturing facilities in China. The 560,000m² Chen Hsong Industrial Park in Shenzhen, China serves as the Group's flagship manufacturing, research and technology centre. Other major manufacturing plants are in Shunde, Ningbo, and Taiwan.

Chen Hsong's leading position in the industry is secured through relentless pursuit of technology advancement, manufacturing innovation, non-compromising service level and a mind for excellence.

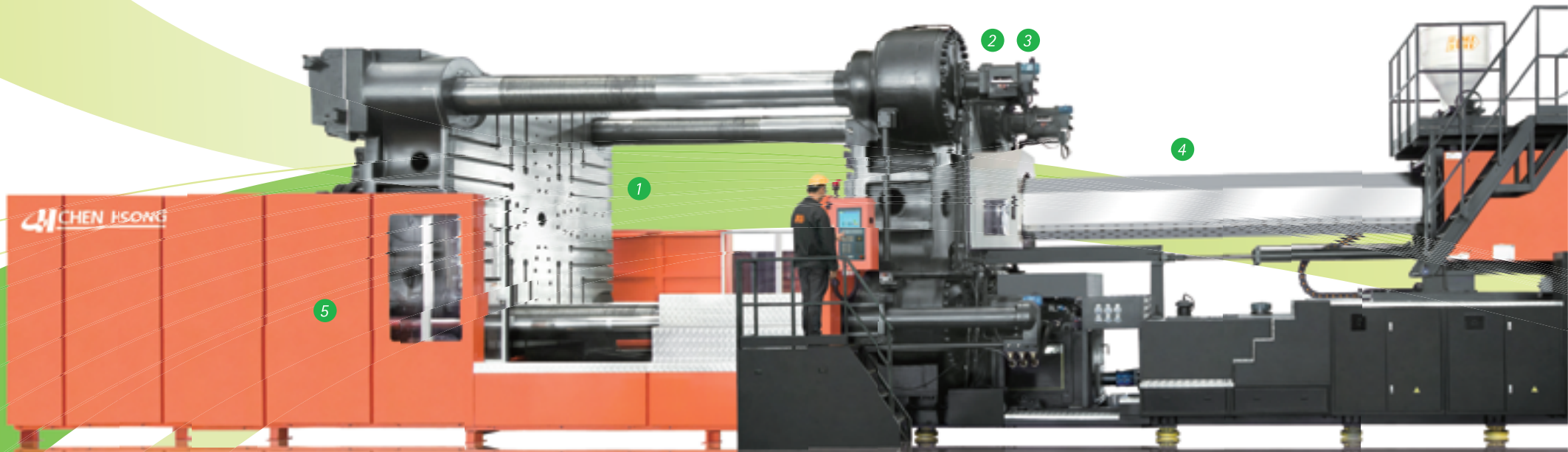


Insist on “True” Two-Platen Design

Shortest space requirement - easy to fit into any factory



Largest opening stroke



SUPERMASTER

Two Platen Advanced Series

The SUPERMASTER TP-Series is a revolutionary "true" two-platen design from the Chen Hsong Group. Designed in 3 years with a team led by leading European and Japanese industry experts, it represents a unique combination of world-class, no compromise performance and characteristic Chen Hsong affordability. Numerous innovations protected by international patents give this machine a price-performance value that is previously undreamt-of. Prepare to be blown away by what kind of wonders it can do to your operation - the possibilities are simply limitless...

1 The Fastest Clamping Unit Available: 750mm/sec

Extremely fast clamp movements (8 seconds dry cycle for SM2200TP) significantly shorten cycle time

2 Patented tie-bar/hydraulic connection

Reduces stress concentration and greatly simplifies maintenance

3 Patented high-speed automatic mould-height adjustment

Ensures accurate and fast operation

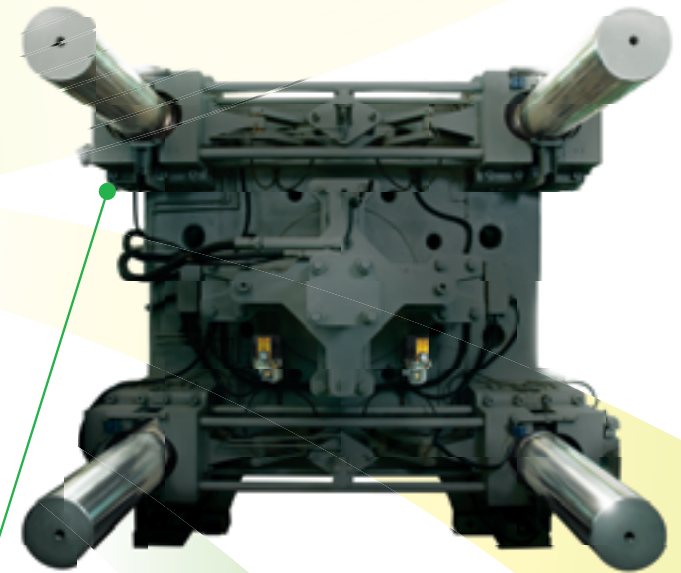
4 State-of-the-Art Injection Unit Design

- Extra feeding temperature control zone
- 3-colinear ball bearings ensure perfect alignment
- Nozzle tip can be moved beyond the fixed platen by up to 300mm
- All screws have L/D ratio of 1:22 for optimal melt quality*

5 Patented inter-lock mechanism

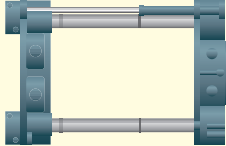
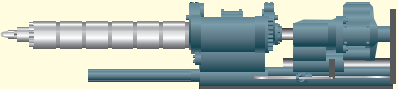
Combines high speed and silent operation with extremely high precision and rock-solid reliability

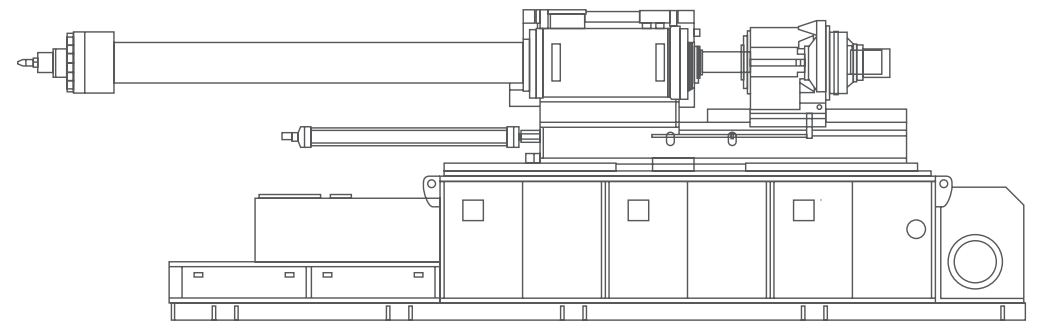
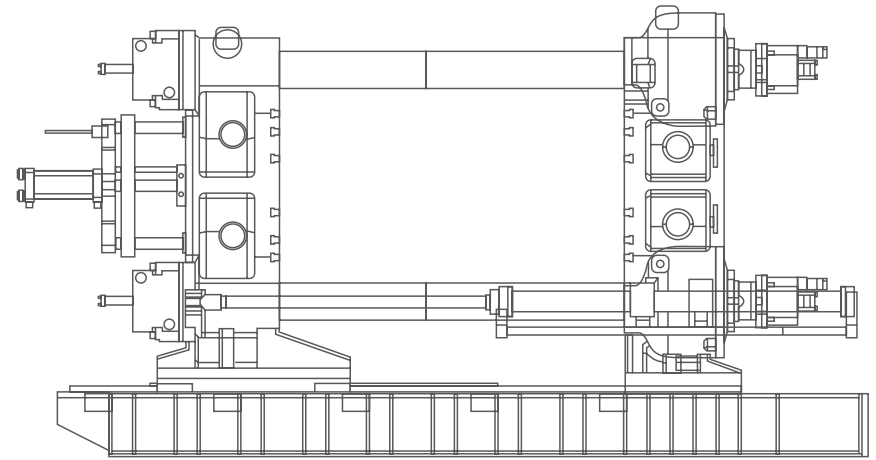
*19:1 to 20:1 alternatives are available



Mix-and-Match with Unparalleled Flexibility

14 Clamping Units (from 700 to 6,500 tons) and 14 injection Units (Shot Weight from 1,968-106,081 grams) for flexible mix-and-match.

14 Clamping Units	14 Injection Units (Shot Weight)
	
1 (700 tons)	J (1,968g)
2 (850 tons)	K (2,604g)
3 (1050 tons)	N (3,430g)
4 (1250 tons)	P (4,754g)
5 (1450 tons)	Q (6,172g)
6 (1650 tons)	A (7,847g)
7 (1900 tons)	R (9,801g)
8 (2200 tons)	B (13,180g)
9 (2600 tons)	C (21,002g)
10 (3000 tons)	D (31,431g)
11 (3600 tons)	E (44,843g)
12 (4500 tons)	F (61,166g)
13 (5500 tons)	G (81,043g)
14 (6500 tons)	H (106,081g)





Exclusive Circular Platen (patented on ZL 01 2 57876.2)

- Even stress distribution to moulds - improves production stability and quality
- More uniform stress distribution helps extend mould life
- Enhanced stiffness and structural integrity makes this design suitable for all moulding applications



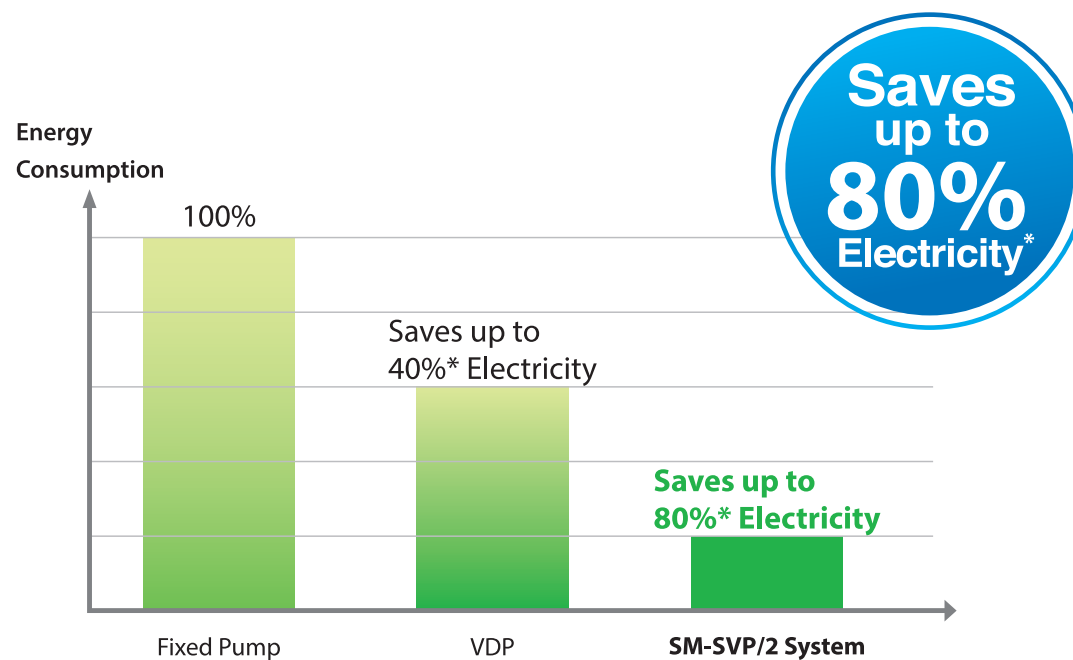
Ai-12 intelligent networkable computer controller

The *Ai-12* is a high-performance, new-generation intelligent computer controller available exclusively from Chen Hsong. Designed in Japan and constructed with the latest SMT technology, it boasts fully compatibility with JIS standards, enhanced stability and ultimate reliability. This controller comes standard with multi-lingual interfaces, built-in networking, advanced intelligent diagnostics, and the ability to retain data for over five years without external power.



Second Generation Servo-Drive System Saves up to 80% Electricity*

Driven by a revolutionary intelligent servo system, the second-generation SVP/2 power pack combines a fast-response gear pump with a high-precision servomotor, integrated with a proprietary servo-drive into an affordable package that guarantees the highest response, highest precision and lowest power consumption at the same time.



*Subject to different applications and cycle times.

Energy Saving

Saves up to 80% of electricity compared to traditional fixed pump systems*

Ultimate Response

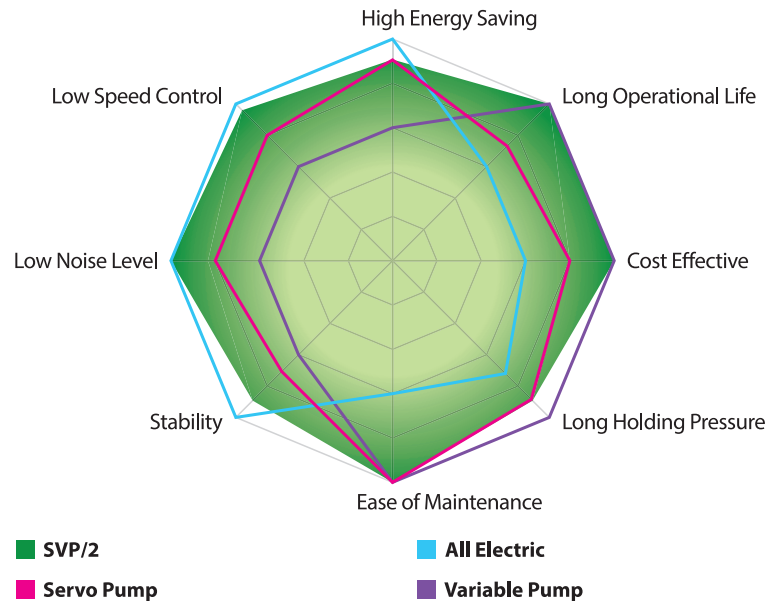
Response speed is more than double of a variable displacement pump

Ultimate Precision & Repeatability

Up to 0.5% repeatability even under extremely low speed & prolonged holding conditions

Long Operational Life

Low oil temperature conserves cooling water and reduces the need for hydraulic oil, thus extending the useable lives of hydraulic parts



Items	SVP/2	Servo Pump	All Electric	Variable Pump
High Energy Saving	✓	✓	✓	●
High Precision	✓	●	✓	●
High Repeatability	✓	●	✓	●
Dynamic Response	✓	✗	✓	●
Low Speed Control	✓	●	✓	✗
Long Holding Pressure	✓	●	✗	✓
Low Noise Level	✓	✓	✓	✗
Low Cooling Water Consumption	✓	✓	✓	✗
Long Operational Life	✓	●	✗	✓
Ease of Maintenance	✓	✓	✗	✓

✓ Excellent ● Average ✗ Weak