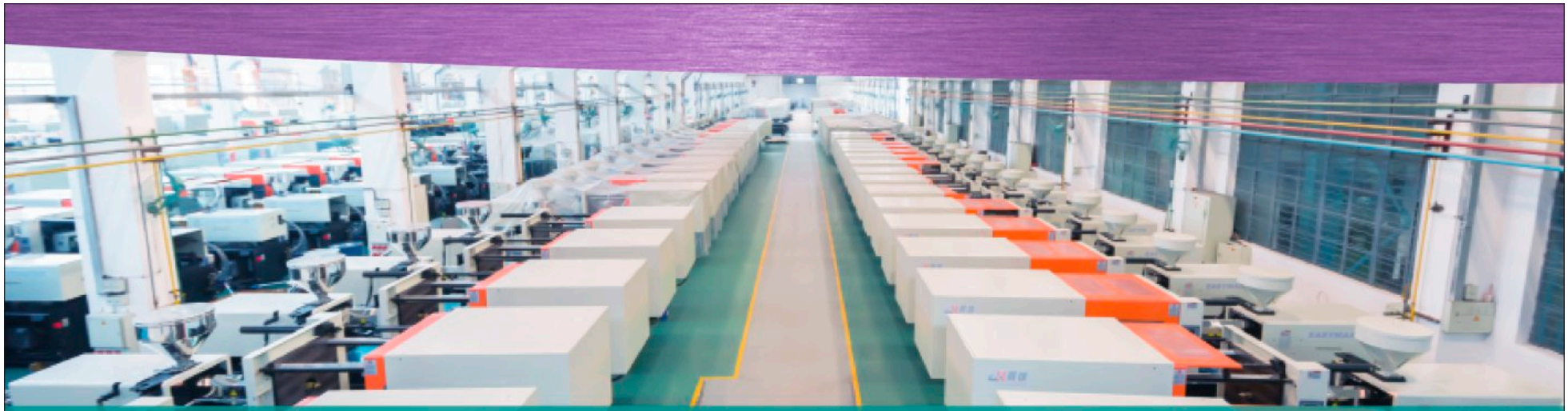
SVP/3

JETMASTER

Third Generation Servo Drive Series

268-568 tons

The Chen Hsong Group



Our products are developed through relentless pursuit of perfection and continuous innovation.

The SVP/3 series of servo-driven injection moulding machines combines Chen Hsong's long tradition in optimised machine design with new concepts and modules, resulting in an offering that sets new standards in performance and ease-of-use. New ergonomic features, an enlarged power pack and structurally-strengthened platens yield large improvements in stability and precision, while further opitmisations in hydraulics reduce energy wastages due to pressure drops.

The SVP/3 series cumulates from more than half a century of technical excellence and is your ideal choice for the future.

Excellence

Intelligent, high-precision, environmentally-friendly and highly efficient

Quality

Total quality control, assembly-line production

Flexibility

Mix-and-match multiple modules for fast responses and shorten delivery lead-time

Value-Added

"VIP" service levels

Efficiency and Precision

Saves up to 80% of electricity and water compared to traditional power packs. Product repeatability up to ±0.25% Injection speed 23% higher than previous generation

Reliability

Compliant with national standards

JETMASTER Third Generation Servo Drive Series

268-328 tons

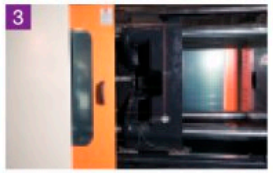
408-568 tons

Product images are for reference only and subject to change without notice

10 Convenience and User-friendly designs

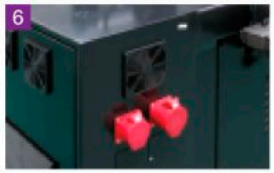

1 High-precision potentiometers for clamping, injection and ejection – product quality ensured


2 Auto-adjust menchanical safely bar


3 JM Intelligent moveable platen


4 Sliding hopper (stainless steel)


5 Sliding nozzle guard



External power outlets for easy connection of auxiliary equipment: 32A x 2, 16A x 2

Larger water manifold:
6/6 (268-328t)
8/8 (408-568t)

EUROMAP 12 robotic interface

2 core pull standard, 2 reserved for easy later installation (268-568t)

Hydraulic gear mould adjustment

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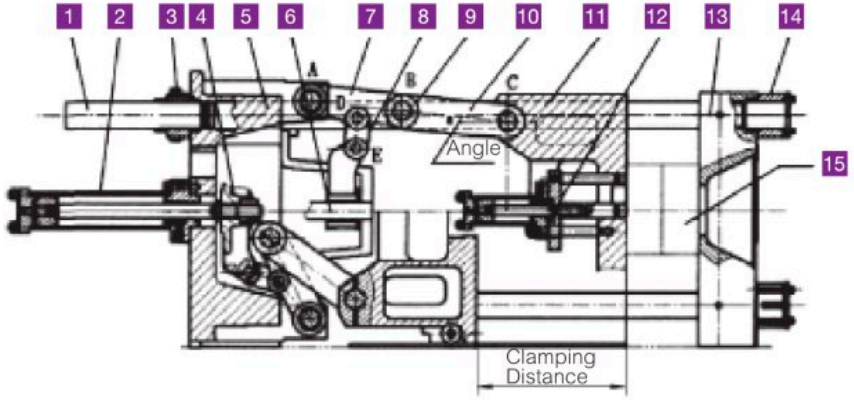
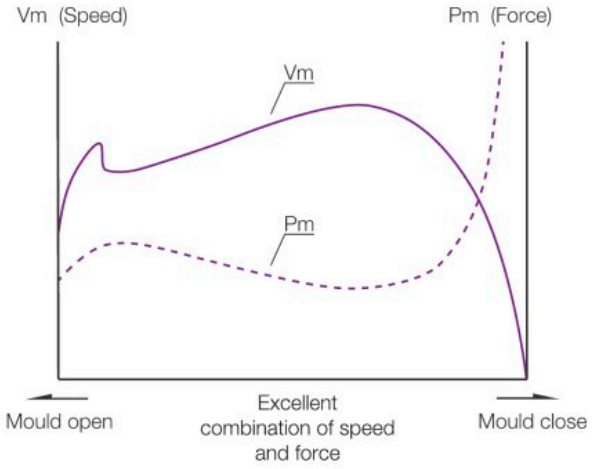
Principle of Clamping unit

Main components of clamping unit



1 Tie Bar	2 Clamping Cylinder	3 Mould Adjustment Nut	4 Cross Head	5 Tail Platen
6 Guide Pin of Cross Head	7 Toggle	8 Small Toggle	9 Large Shaft	10 Long Toggle
11 Movable Platen	12 Ejection Unit	13 Stationary Platen	14 Tie Bar Nut	15 Mould

Toggle speed diagram



5-point toggle clamping system

1 Well structure design, even loading distribution

2 Large distance between tie bars, widely apply to different molding parts

3 Fast mold open/close, short cycle time

4 Large clamping distance, suitable for deep cavity product

5 Enough lubrication and hence durable clamp

Show case

Model	Product	Cavity	Resin	Cycle Time
JM488-SVP/3	Helmet Shield	2	PC	50sec

Electricity Consumption*

Model	Pump	Cycle Time (s)	Injection Holding Time (s)	Time for Test (h)	Electricity Comsumption (kWh)	Product (pcs)	Electricity Consumption for each piece (kWh)	Consumption (%)	Energy Saving (%)
CJ380M3	Fixed Pump	48.5	4	8	131.0	594	0.22	100%	0%
JM408-C²	VDP	48.5	4	8	72.8	594	0.12	56%	44%
JM408-SVP/3	SVP3 Servo System	45.0	4	8	42.2	640	0.07	30%	70%

Practical Example*

Resin: PP

Product: Exercise Bike

Time savings per year

24 days

Cost savings per year

¥ 60,822

Energy Saving and Efficiency Comparison*

For 500,000 pieces of product, roughly one year at 20 hours/day, 6days/week, 52 weeks

	CJ380M3		JM408-C²		JM408-SVP/3	
	Fixed Pump		VDP		SVP3 Servo System	
	kWh	RMB	kWh	RMB	kWh	RMB
Production time (days)	337	-	337	-	313	-
Product (per piece)	0.22	0.176	0.12	0.096	0.07	0.056
500,000 pieces total:	111,492	89,194	60,814	48,334	35,465	28,372

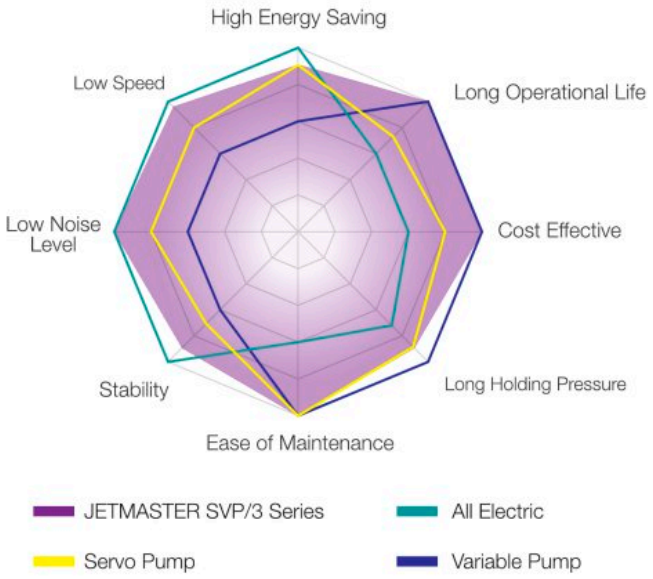
Based on RMB 0.8/kWh

Ultimate Energy Saving

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

Ultimate Response

The response speed is more than double of a variable displacement pump



Ultimate Precision and Repeatability

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

Long Operational Life

Low oil temperature conserve cooling water and reduces the need for hydraulic oil thus extends the useable lives of hydraulic parts

Items	JM-SVP/3	Servo Pump	All Electric	Variable Pump
High Energy Saving	✓	✓	✓	●
High Precision	✓	●	✓	●
High Repeatability	✓	●	✓	●
Dynamic Response	✓	X	✓	●
Low Speed Control	✓	●	✓	X
Long Holding Pressure	✓	●	X	✓
Low Noise Level	✓	✓	✓	X
Low Cooling Water Consumption	✓	✓	✓	X
Long Operational Life	✓	●	X	✓
Ease of Maintenance	✓	✓	X	✓

✓ Excellent ● Average X Poor

* Subject to different product applications and cycle times

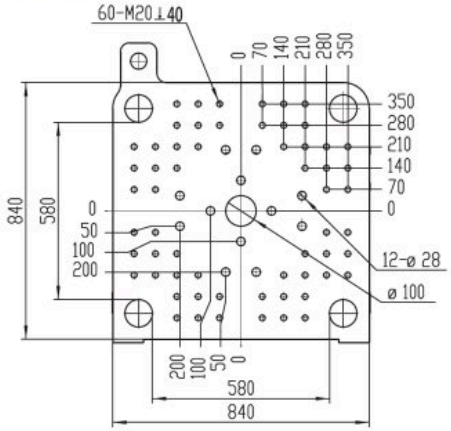
JETMASTER Third Generation Servo Drive Series

SPECIFICATIONS	UNIT	JM268-SVP/3	JM328-SVP/3	JM408-SVP/3	JM488-SVP/3	JM568-SVP/3
Injection Unit						
Swept Volume	cm^3	584 777 969	904 1128 1413	1216 1524 1866	1767 2164 2544	1767 2164 2544
Shot Weight (PS)	g	537 715 892	832 1038 1300	1119 1402 1717	1625 1990 2340	1625 1990 2340
Shot Weight (PS)	oz	18.9 25.2 31.4	29.3 36.6 45.9	39.5 49.5 60.6	57.3 70.2 82.5	57.3 70.2 82.5
Screw Diameter	mm	52 60 67	60 67 75	67 75 83	75 83 90	75 83 90
Injection Pressure (Max.)	MPa	226 169 136	219 175 140	217 173 141	209 171 145	209 171 145
Injection Pressure (Max.)	kgf/cm^2	2295 1724 1387	2224 1785 1428	2203 1765 1438	2132 1734 1479	2132 1734 1479
Screw L/D Ratio		24.2 21 18.8	23.5 21 18.8	23.8 21 19.2	23.2 21 19.4	23.2 21 19.4
Screw Stroke	mm	275	320	345	400	400
Screw Rotation Speed (Max.)	rpm(max)	195	183	181	194	194
Plasticizing Rate	kg/h	156 233 275	210 277 347	274 361 442	385 496 641	385 496 641
Injection Rate	cm^3/s	201 268 334	260 324 406	327 410 502	435 532 626	435 532 626
Hopper Cavity	liter	82	87	87	87	87
Nozzle Force	t	5.5	11.1	11.1	11.1	11.1
Nozzle Stroke	mm	325	360	420	460	460
Clamping Unit						
Clamping Force (Max.)	ton	268	328	408	488	568
Opening Stroke	mm	530	600	670	770	835
Space Between Tie Bar (H*V)	mm×mm	580×580	660×660	730×730	810×810	855×855
Mould Dimensions (H*V)	mm×mm	840×840	940×940	1050×1050	1155×1155	1210×1210
Maximum Daylight	mm	1130	1280	1420	1590	1685
Mould Thickness (Min.-Max.)	mm	195-600	220-680	250-750	275-820	330-850
Ejector Stroke	mm	170	180	195	220	220
Ejector Force (Max.)	ton	7.7	7.7	11.1	11.1	11.1
Mould Register Hole (HT)	mm	160	160	200	200	200
Power/ Heating Unit						
System Pressure	MPa	17.5	17.5	17.5	17.5	17.5
System Pressure	kgf/cm^2	178	178	178	178	178
Servomotor Power	kW	35.6	48.1	50	54	54
Electrial Heating Power	kW	18.3	19.9	20	30	30
Temperature Control Zone		5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle
Others						
Oil Tank Capacity	liter	430	525	600	800	800
Machine Dimensions (L*W*H)	m×m×m	6.5×1.5×2.2	6.8×1.6×2.3	8.1×1.7×2.3	8.6×1.9×2.3	8.9×2.0×2.3
Macine Weight (Approx.)	ton	8.1	9.7	12.8	16.8	18.1

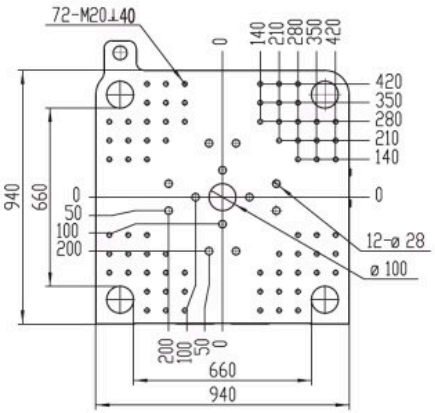
Remark : The technical parameters above are for reference only and discrepancies may arise in different circumstances. The company keeps upgrading the products and reserves the right to change the product specifications and parameters without prior notice. The final interpretatation to the above specifications and parameters belongs to the company.

Mould Platen

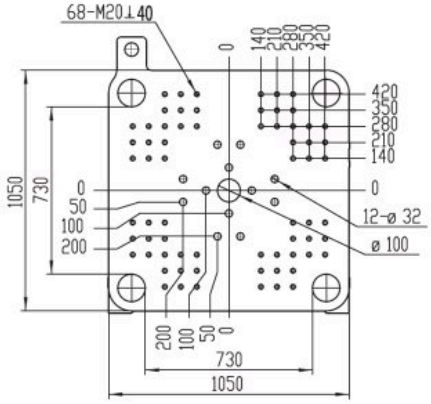
JM268-SVP/3



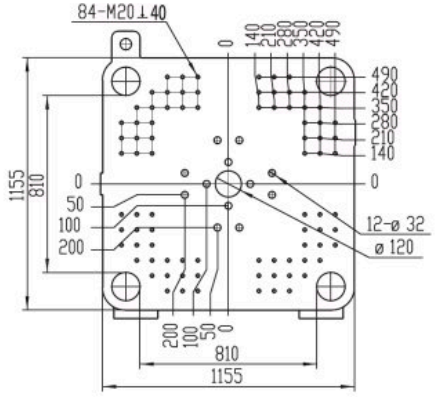
JM328-SVP/3



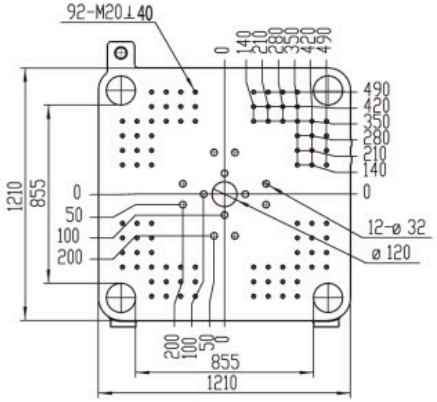
JM408-SVP/3



JM488-SVP/3



JM568-SVP/3



The Chen Hsong Group

Hong Kong

13-15, Dai Wang Street, Tai Po Industrial Estate, Tai Po, Hong Kong
Tel: +852 2665 3222 Fax: +852 2664 1115

Shenzhen

No.31-48, Renmin Zhong Lu, Kengzi, Pingshan District, Shenzhen, China
Postal Code: 518112
Tel: +86 755 8413 9999 Fax: +86 755 8413 8750

Shunde

Daliang Honggang District, Shunde, Foshan, Guangzhou, China
Postal Code: 528300
Tel: +86 757 2233 8666 Fax: +86 757 2233 8566

Ningbo

No.28, Yongjiang Road, Dagang Industry Area, Beilun, Ningbo, China
Postal Code: 315800
Tel: +86 574 8683 2888 Fax: +86 574 8683 5550

Taiwan

No.1, Shung Chiang North Road, Chung Li Industrial District, Chung Li,
Taoyuan, Taiwan, R.O.C.
Tel: +886 3 452 2288 Fax: +886 3 452 0261

Website: www.chenhsong.com Email: marketing@chenhsong.com

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