



Management System  
ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
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# VSP Series

Hybrid High-Performance Injection Moulding Machine



# VsP Series

## 60-260 Tons VsP Series Simple, Productive, Economical

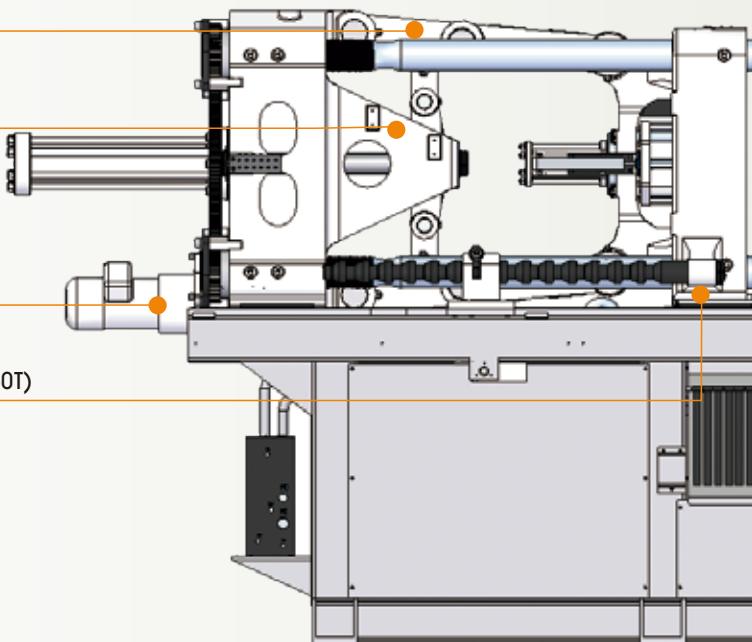


Five-points double toggle clamping system &  
Self-lubricating bushings

Integrated guide armrest design

Electrical mold height adjustment

Sliding shoe support moving platen (80T~250T)



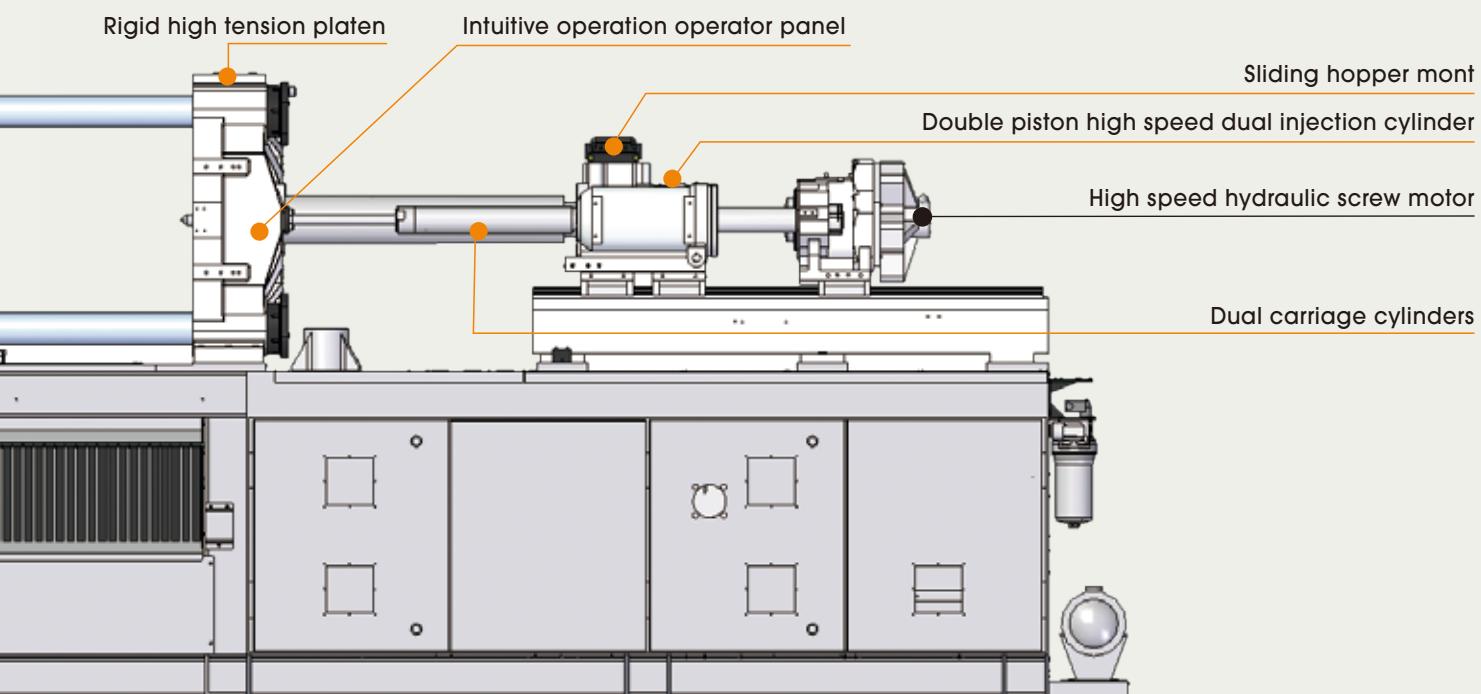
**CE****国家品质奖**  
NATIONAL QUALITY AWARD

With a powerful V8800 controller and a high efficacy gear pump driven by P.M. Synchronous servomotor to satisfy your energy saving, requirement and achieves the outstanding process consistency and repeatability.

Victor Taichung VsP Series injection moulding machine has been developed by fusing of merits of hydraulic injection machines (low maintenance-free operation, long life, and low cost) and electric molding machines (energy-saving, high-velocity injection, quick response, high repeatability, and low operation noise)

The innovative new servo motor with high efficacy gear pump system, achieves energy-saving operation and quick response equivalent to those of all electric injection molding machines.

- Energy saving-almost equivalent to all- electric model machine.
- Quick response-Injection response time (Standard mode).
- Stability in low-velocity/low-pressure & wide range-Injection velocity: From ultra-low to high velocity range.
- Linearity-Excellent linearity in both injection velocity and injection pressure.
- Excellent injection holding pressure performance-Capability in sustaining high injection holding pressure longer (as compared with full-electric machine).
- Reduction in the amount of hydraulic oil and cooling water volume.
- Silent! (Low noise gear pump operation) Almost equivalent to all electric injection molding machine.



## High Precision Injection Unit

The VsP Series optimum screw geometry plus the perfected drive and injection concepts provides excellent plasticising and injection capacity. Newly developed high wear and corrosion resistance ion-nitrided screw and barrel gives the customer a wide choice of materials for numerous applications. The gently prepared and properly homogenised melt is metered accurately, shot after shot, and is injected into the mould with high power and high speed.



***The screw and barrel used on the Victor machines has the following properties.***

- Injection screw ACM2 German material
- Surface hardness: 900~1100 HV
- Processed by Nitride (500~520°C for 72hrs)
- Nitrided thickness: 0.4~0.5 mm

Bi-metallic coating screw and barrel (Option) - SKD 61 base material. Excellent wear-resistant, corrosion resistant screw & barrel for the processing of materials with fiber additives and also fire retardant materials. Victor general purpose screw and barrels can process any kind of material like PE, PP, PA, ABS, AS. We also supply an optional screw & barrel for engineering materials like PC, PBT, PET, with an L/D ratio from 18, 20, 22.

The multi-notch locking style screw tip. the locking style tip is useful for stabilizing part weight and increasing product precision comparing the convectional screw tip. the gap between the screw and check ring is reduced to the least, thereby the back flow resin can be reduced to minimum.



## Heavy Duty, Rigid, Clamping Unit

Every component in the clamping unit that is subjected to a mechanical stress was designed and checked using the F.E.M (Finite element method) method of structure analysis. All VsP Series machines feature a unique, ultra-reliable, five-point toggle clamping mechanism, which is characterised, by an almost ideal kinematic velocity feature. This system has fast speed, high force ratio, sensitive mould protection and good energy saving capabilities. The large square cast iron platens are extremely robust and the widely spaced tie bars allow for even the most complex of moulds.

The large, square cast iron platens virtually eliminate deflection. The bushings are manufactured from graphite impregnated phosphor bronze. Designed to run totally oil-free, there's no chance of contaminating molds, and maintenance is limited to long periodic greasing.



### Material:

Platen: Meehanite casting FCD 55

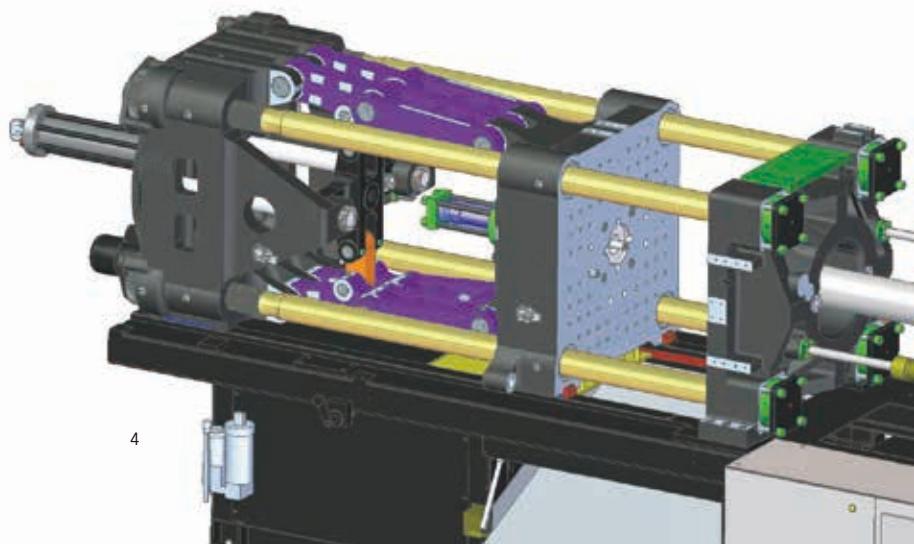
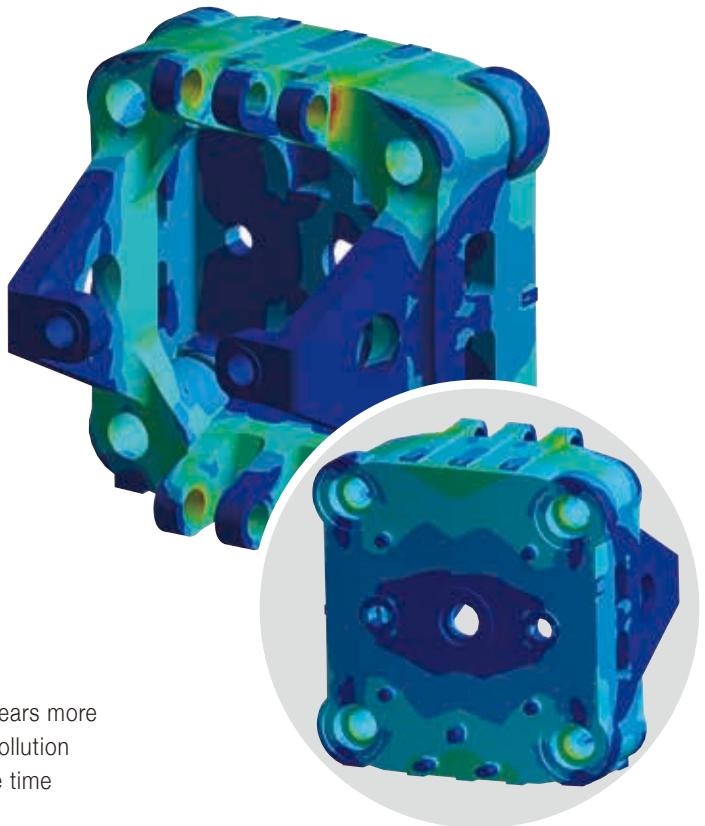
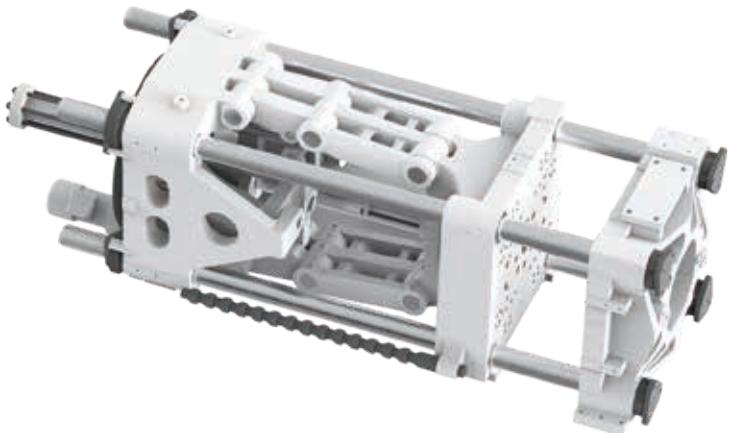
Tie bar: NH48MV (from Japan)

Toggle pin: SCM440 (hard chrome plating)

### Advantage:

- \* Machine life = 15 years more
- \* Eliminates the oil pollution
- \* Saves maintenance time

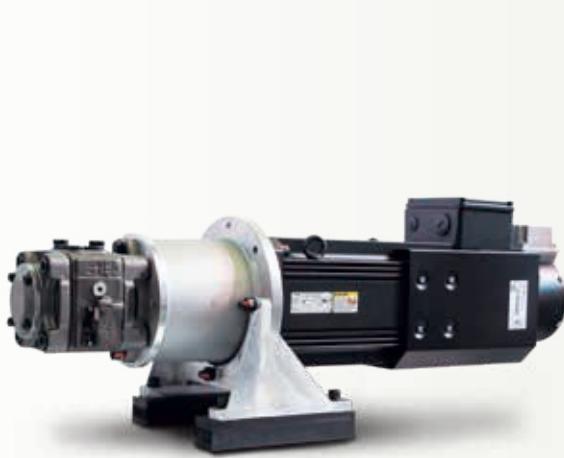
Mould height adjustment, which is the bull gear system, is operated by an electrical brake motor and when co-ordinated with a precision circuit breaker proceeds to prevent the possibility of overloading by force and cause machine damage.



# Energy Saving system (Option)

Servo driven pump with variable speed drives for injection moulding machine.

Cost reduction by energy efficiency in Plastic Machinery.



## Request on drive system

- Reduced energy cost.
- Reduced installed power.
- Less secondary measures for reduction of noise.
- Reduced cost for oil cooling.

**Comparison with traditional fixed pump with constant speed.**

### Example: Load sensing

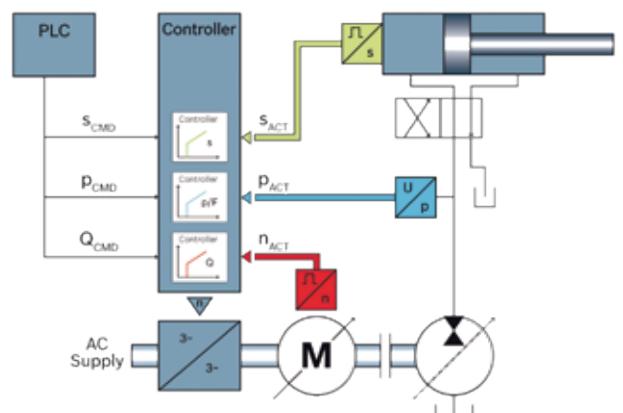
72.3% energy saving

Model: VsP-50T

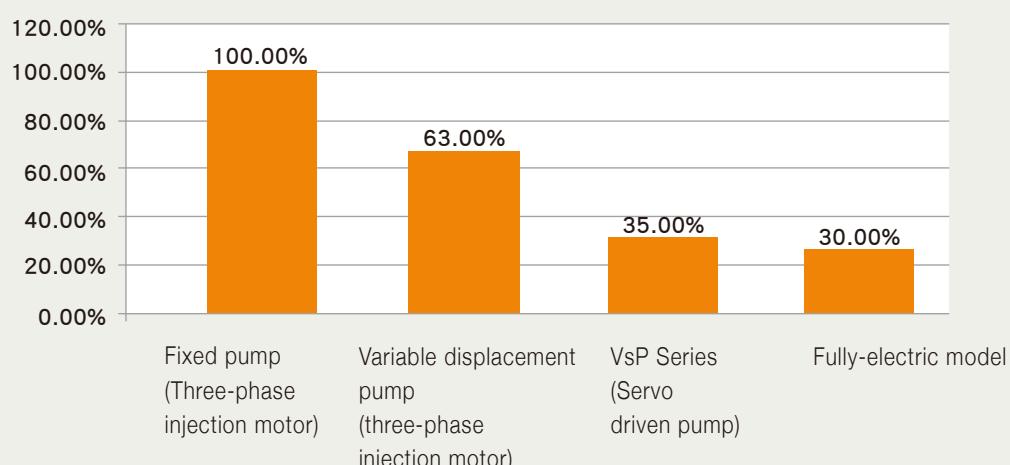
75s cycle times

const. speed (15kW): 2.9 kW

SVP: 0.8 kW



### Power consumption



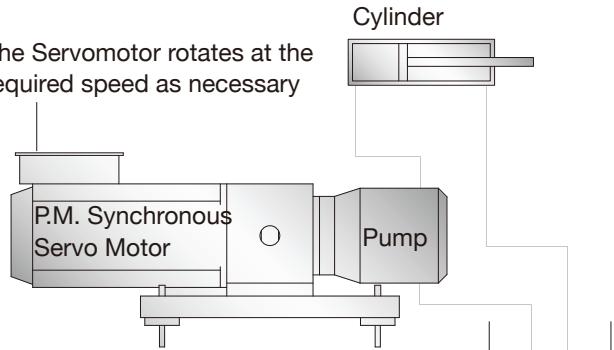
## Hybrid Hydraulic Control

### (Option - servomotor pump)

VsP Series injection molding machine every moving steps require pressure and flow control by high-efficacy gearpump collocating with powerful permanent-magnet synchronous servo motor. This series machine is availability of energy saving up to 60~75% as compared with the traditional hydraulic machine.



The Servomotor rotates at the required speed as necessary



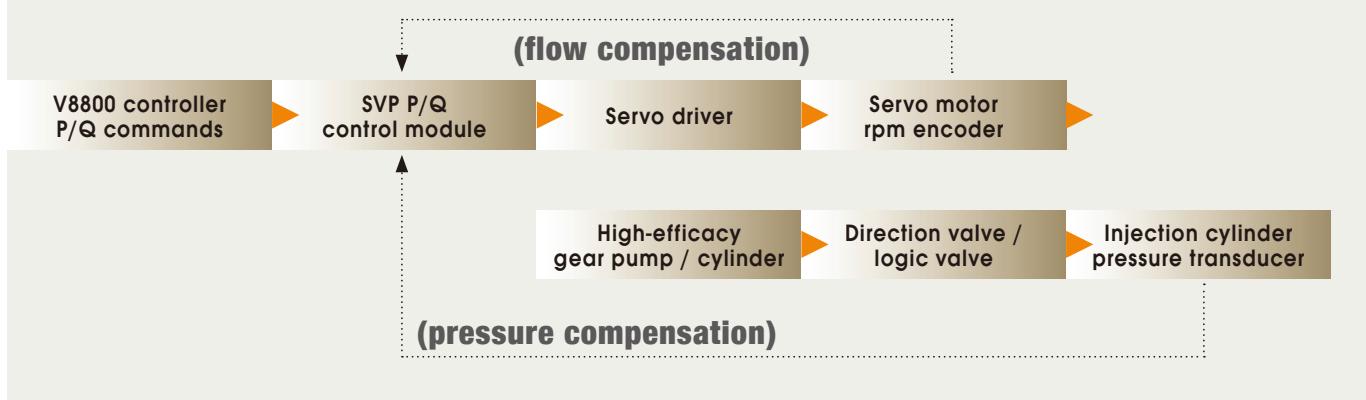
Pressure: Torque of Servomotor / Pressure transducer.  
 Flow: Revolution speed of Servomotor

Piston seal:	NOK (Japan)/Hallite
Cylinder seal:	NOK (Japan)
O-Ring:	NOK (Japan)
Back-up Ring:	NOK (Japan)

The VsP Series (120T~260T models) adopts logic valves in its hydraulic system circuits. The logic valves give high response performance in injection and mould travelling stages and offers 5% energy reduction due to low-pressure loss, and can guarantee a long service life. Less energy loss means lower heat build-up in addition to a substantial reduction in the requirement of cooling water. This is further help automatic regulation of the hydraulic oil temperature.

### VsP Energy Saving SVP system (Injection close-loop feedback control):

The pressure transducer measures the real injection cylinder and feedback to P/Q control module for the close-loop pressure compensation. The servo motor rpm encoder measures and feedback the pump flow to P/Q control module for the speed compensation to get precision relativity control.



# New Generation V8800 Control

## Intuitive 15 inch touch screen framed with keyboard

The swivel mounted 15" LCD high resolution touch screen, graphical user interface, can be optimally positioned for each operator, allowing an easy setting position and easy access to the mould area.

Lighted on/off manual movement buttons for each axis.



## Simple Friendly Operation interface

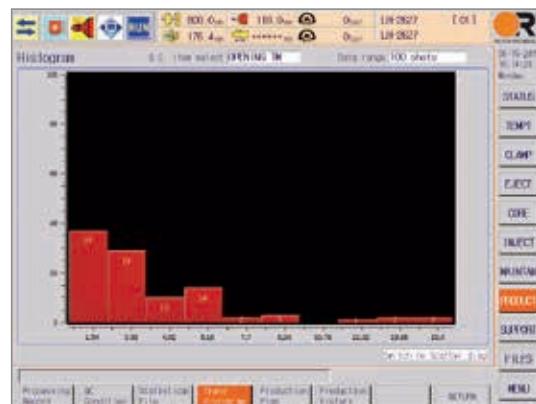
Mold settings can be transferred using a USB drive

The internal memory allows for up to 1000 set to be stored, the USB port enables molding condition files to be stored to an external USB memory stick.



## Overall setting screen

- Single screen for setting clamp, ejector, injection, temperature, air-blast and charging etc.
- Great for quick setups and adjustments.
- Improves operator setup efficiency.



## SPC/SQC Production management - quality control

Process cycle data maintains information over the last 10,000 cycles allowing for quick analysis of process history. This data can be printed, and save to USB sticker, for off line Excel analyzing.

# The Setting Page Of Controller V8800 Series

## Machine Status



## Inject & Holding



## Clamp Setting



## Corepull on Ejection



## Cycle Monitor



## WeekTime & Auto Tuning



## Charge & Suckback



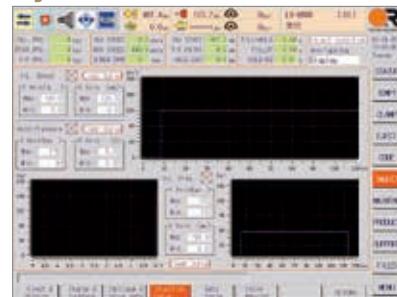
## Barrel Temperature



## Mold Setup



## Injection Curve



## Injection Unit

	$\sqrt{sP-80}$	$\sqrt{sP-90}$	$\sqrt{sP-120}$	$\sqrt{sP-150}$	$\sqrt{sP-180}$	$\sqrt{sP-220}$	$\sqrt{sP-260}$
Pivoting injection unit	S	S	S	S	S	S	S
Cold start protection	S	S	S	S	S	S	S
Six injection speed & pressure steps	S	S	S	S	S	S	S
Four holding pressures stages	S	S	S	S	S	S	S
V-P switchover time, position and cylinder pressure dependent	S	S	S	S	S	S	S
V-P switchover cavity pressure dependent	O	O	O	O	O	O	O
Control for intrusion injection	S	S	S	S	S	S	S
PID temperatures control	S	S	S	S	S	S	S
Thermocouple controlled nozzle zone	S	S	S	S	S	S	S
Screw suck back with open nozzle	S	S	S	S	S	S	S
Spring shut-off nozzle	O	O	O	O	O	O	O
Hydraulic or pneumatic actuated needle shut-off nozzle.	O	O	O	O	O	O	O
Slide-away stainless steel hopper for quick material change	S	S	S	S	S	S	S
High wear resistant plasticising units	S	S	S	S	S	S	S
Thermoset processing unit	O	O	O	O	O	O	O
Rigid PVC processing unit	O	O	O	O	O	O	O
Adjustable nozzle force	O	O	O	O	O	O	O
Delayed nozzle retraction	S	S	S	S	S	S	S
Stainless steel barrel cover	S	S	S	S	S	S	S
Nozzle guarding	S	S	S	S	S	S	S
Automatic heating and pre-heating	S	S	S	S	S	S	S
Additional temperature zones	O	O	O	O	O	O	O
RPM display	S	S	S	S	S	S	S
Control for automatic purging	S	S	S	S	S	S	S
Low torque / Extra high speed hydraulic screw motor	O	O	O	O	O	O	O
Screw speed adjustable via screen	S	S	S	S	S	S	S
Bimetallic screw and barrel	O	O	O	O	O	O	O
Ceramic heater bands	O	O	O	O	O	O	O
Feed throat zone temperature display	S	S	S	S	S	S	S
Feed throat zone temperature control	O	O	O	O	O	O	O
Hopper (+ magnet)	O	O	O	O	O	O	O
Auto loader	O	O	O	O	O	O	O
Vented screw and barrel	O	O	O	O	O	O	O
Barrel temperature display with set value and deviation	S	S	S	S	S	S	S
Plasticising time monitor	S	S	S	S	S	S	S
Injection unit forward / back speeds adjustable	S	S	S	S	S	S	S
Suck-back before or after metering	S	S	S	S	S	S	S
Thermocouple breakage alarm	S	S	S	S	S	S	S
Injection endpoint control	S	S	S	S	S	S	S
Barrel cooling fan	O	O	O	O	O	O	O
Twin carriage cylinder	S	S	S	S	S	S	S
Insulated blanket for plasticizing barrel	O	O	O	O	O	O	O
Long nozzle	S	S	S	S	S	S	S
Injection controlled by linear transducer	S	S	S	S	S	S	S
Carriage controlled by linear transducer	O	O	O	O	O	O	O
Oil heated barrel (some thermoset materials)	O	O	O	O	O	O	O
Heater bands up to 450° C	O	O	O	O	O	O	O
Braided heater bands	O	O	O	O	O	O	O

S=Standard O=Option

**Clamping Unit**

	$\sqrt{sp} 60$	$\sqrt{sp} 90$	$\sqrt{sp} 120$	$\sqrt{sp} 150$	$\sqrt{sp} 180$	$\sqrt{sp} 220$	$\sqrt{sp} 260$
Five mould closing / open speed ranges with four adjustable speeds	S	S	S	S	S	S	S
Mould height adjustment by electric break motor	S	S	S	S	S	S	S
Hydraulic ejector with adjustable speed, pressure and position and no. strokes	S	S	S	S	S	S	S
Hydraulic unscrew device	O	O	O	O	O	O	O
Core pull x 1, Air blow x 1	S	S	S	S	S	S	S
Core pull x 2, Air blow x 2	O	O	O	O	O	O	O
Core pull x 3, Air blow x 3	O	O	O	O	O	O	O
Mechanical scotch bar	S	S	S	S	S	S	S
Pneumatic operated safety gate	O	O	O	O	O	O	O
Stainless steel drop chute	S	S	S	S	S	S	S
Mould lifting crane	O	O	O	O	O	O	O
Phosphor bronze, graphite impregnated toggle bushings	S	S	S	S	S	S	S
Chromium plated tie bars	S	S	S	S	S	S	S
Clamping measurement by linear transducer	S	S	S	S	S	S	S
Mould safety devices (Low pressure protection)	S	S	S	S	S	S	S
Platen holes and locating ring to Euromap or SPI or JIS specifications	S	S	S	S	S	S	S
Additional mould height	O	O	O	O	O	O	O
Mould safety gate operator and rear side	S	S	S	S	S	S	S
Robot fixing holes on top of fixed platen	S	S	S	S	S	S	S
Manual lubrication system	S	S	S	S	S	S	S
Auto clamping force set-up	S	S	S	S	S	S	S
Ejector stroke controller by linear transducer	S	S	S	S	S	S	S
Ejector retract confirmed interface (Euromap-13)	O	O	O	O	O	O	O
FCD 55 casted platens	S	S	S	S	S	S	S
Ejector forward when safety door open (Semi-auto mode / motion switch)	S	S	S	S	S	S	S
Next cycle start by closing safety door	O	O	O	O	O	O	O
Mould insulation plate	O	O	O	O	O	O	O

**Hydraulic System**

	$\sqrt{sp} 60$	$\sqrt{sp} 90$	$\sqrt{sp} 120$	$\sqrt{sp} 150$	$\sqrt{sp} 180$	$\sqrt{sp} 220$	$\sqrt{sp} 260$
Servo motor pump system	O	O	O	O	O	O	O
Pressure electronic display for system monitoring	S	S	S	S	S	S	S
Oil level monitoring	O	O	O	O	O	O	O
Return line oil filter	S	S	S	S	S	S	S
Oil suction filter	S	S	S	S	S	S	S
Maintenance hatch for cleaning and checking oil tank	S	S	S	S	S	S	S
High performance oil seals	S	S	S	S	S	S	S
Water / Air chiller	O	O	O	O	O	O	O
High precision directional / flow valves	S	S	S	S	S	S	S
Steel braided hydraulic pipe	S	S	S	S	S	S	S
Oil level detect and monitoring	O	O	O	O	O	O	O

S=Standard O=Option

### Control & Electrical Unit

	$\sqrt{sp} 60$	$\sqrt{sp} 90$	$\sqrt{sp} 120$	$\sqrt{sp} 150$	$\sqrt{sp} 180$	$\sqrt{sp} 220$	$\sqrt{sp} 260$
Modular assembly, compact microprocessor with 240 mould data storage	S	S	S	S	S	S	S
Data interface for printer via USB memory stick	S	S	S	S	S	S	S
Data interface for computer connection USB	S	S	S	S	S	S	S
Reference hints and problem indicators in clear text	S	S	S	S	S	S	S
Hour, minute, second counter	S	S	S	S	S	S	S
Cycle counter	S	S	S	S	S	S	S
Part piece counter	S	S	S	S	S	S	S
Preselectable cycle counter with auto shut-off	S	S	S	S	S	S	S
Air eject programmable start and blow time	S	S	S	S	S	S	S
Tolerance monitoring of parameters	S	S	S	S	S	S	S
Standard SPC / SQC program	S	S	S	S	S	S	S
7-day timer for auto heating and preheating	S	S	S	S	S	S	S
Additional temperature control zones	O	O	O	O	O	O	O
Interface for temperature control devices	O	O	O	O	O	O	O
Alarm log	S	S	S	S	S	S	S
Multi language choice	S	S	S	S	S	S	S
Cycle, Filling & metering time indicator	S	S	S	S	S	S	S
Parts counter	S	S	S	S	S	S	S
Reject counter	S	S	S	S	S	S	S
Cushion control	S	S	S	S	S	S	S
Servo system transformer (220V/240V)	O	O	O	O	O	O	O

### General Features

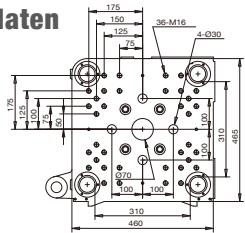
	$\sqrt{sp} 60$	$\sqrt{sp} 90$	$\sqrt{sp} 120$	$\sqrt{sp} 150$	$\sqrt{sp} 180$	$\sqrt{sp} 220$	$\sqrt{sp} 260$
3 Phase auto loader socket x1 220 / 380 / 460 Volts	S	S	S	S	S	S	S
Cabinet ventilation by fan	S	S	S	S	S	S	S
Heating and motor power are on separate circuits, switchable on or off	S	S	S	S	S	S	S
Solid state heat contacts for plasticising units	S	S	S	S	S	S	S
Part chute with sensor indicator cycle restart	O	O	O	O	O	O	O
Parts removal from both sides	O	O	O	O	O	O	O
Anti-vibration floor pads	S	S	S	S	S	S	S
Pneumatic cores pull	O	O	O	O	O	O	O
Mold water manifold (4~7 zones)	S	S	S	S	S	S	S
Mould heating zones	O	O	O	O	O	O	O
Hot runner regulators	O	O	O	O	O	O	O
Euromap 12/67 for robot interface	O	O	O	O	O	O	O
Conveyor belt	O	O	O	O	O	O	O
Masterbatch colour dosing interface	O	O	O	O	O	O	O
Tool kit	S	S	S	S	S	S	S
Euromap 13 Core-pulling interface	O	O	O	O	O	O	O
Euromap for mold heating interface	O	O	O	O	O	O	O
Electric power consumption display meter	O	O	O	O	O	O	O

S=Standard O=Option

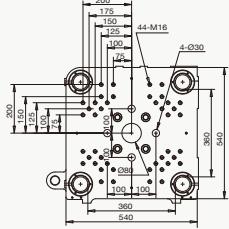
# JIS Platen Information

## Moving platen

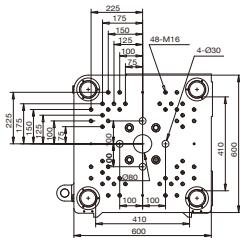
VsP-60



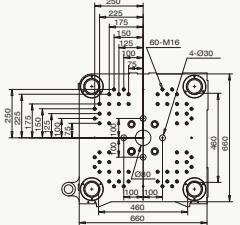
VsP-90



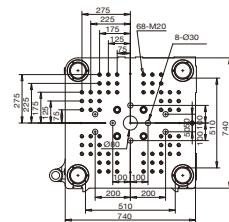
VsP-120



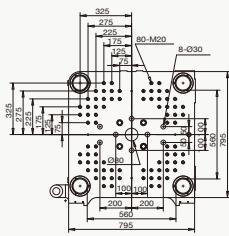
VsP-150



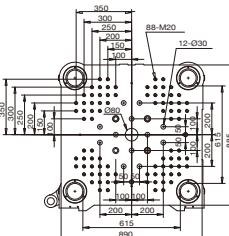
VsP-180



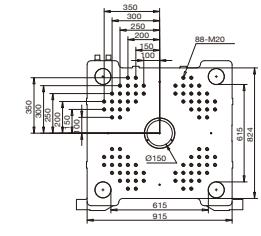
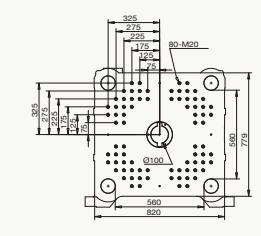
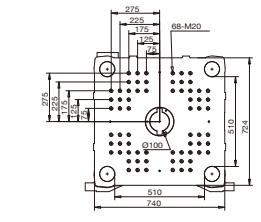
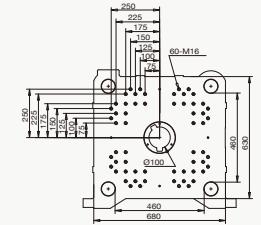
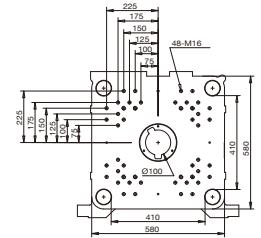
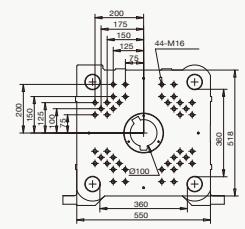
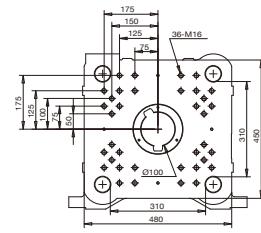
VsP-220



VsP-260



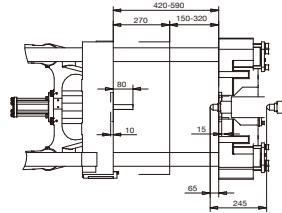
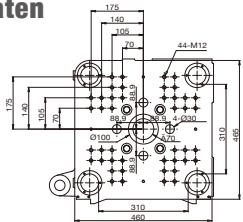
## Fixed platen



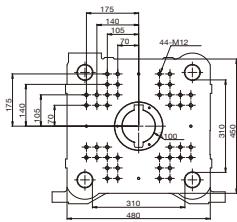
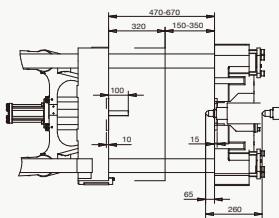
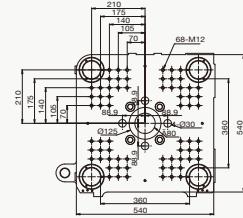
# Euromap Platen Information

## Moving platen

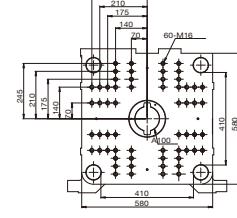
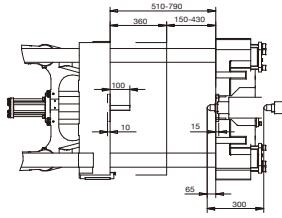
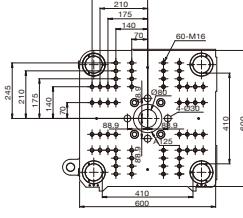
VsP-60



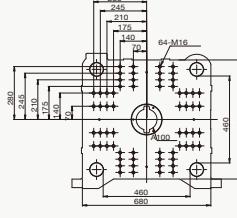
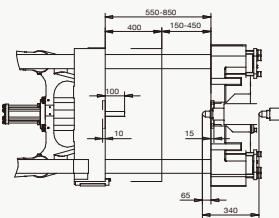
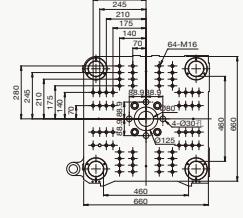
VsP-90



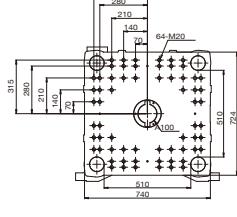
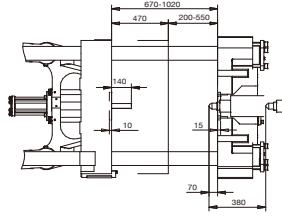
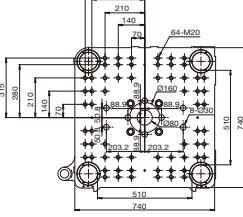
VsP-120



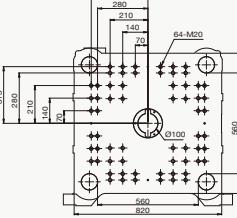
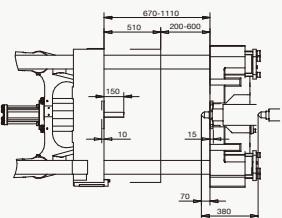
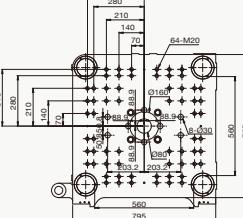
VsP-150



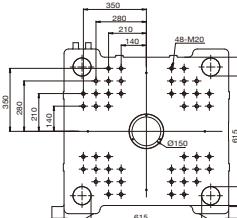
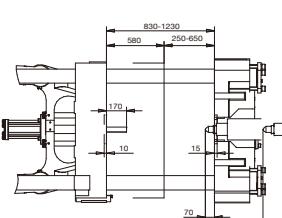
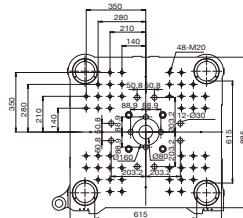
VsP-180



VsP-220



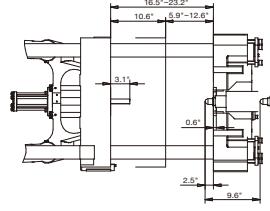
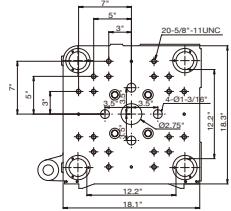
VsP-260



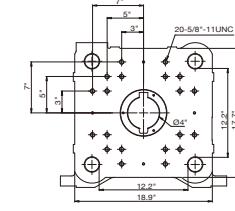
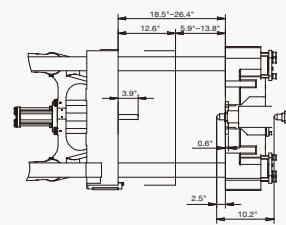
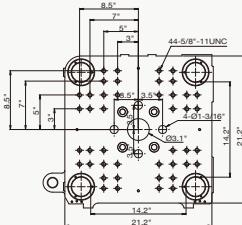
# SPI Platen Information

## Moving platen

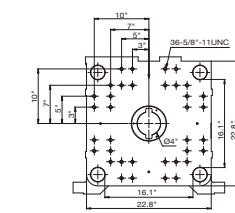
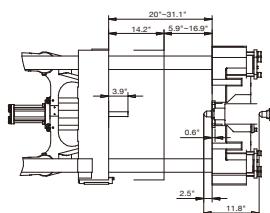
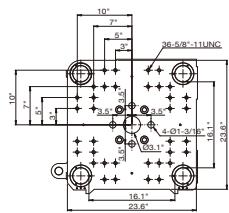
**VsP-60**



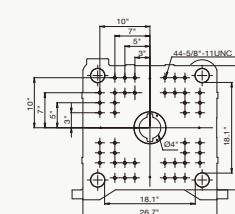
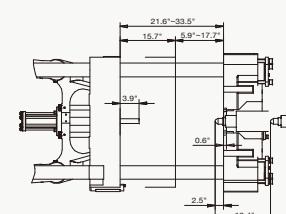
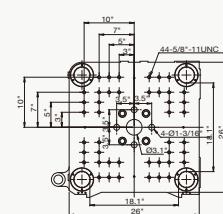
**VsP-90**



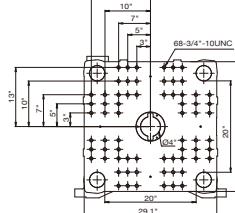
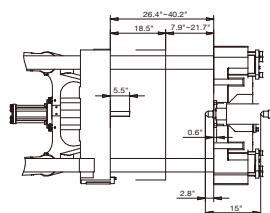
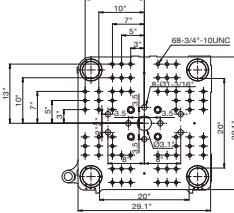
**VsP-120**



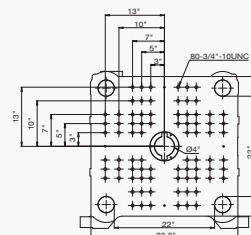
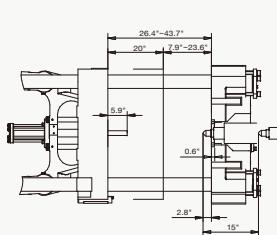
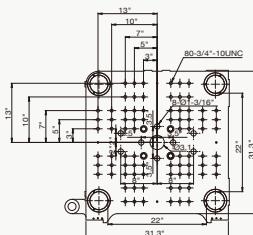
**VsP-150**



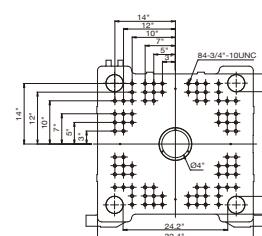
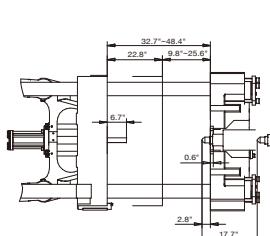
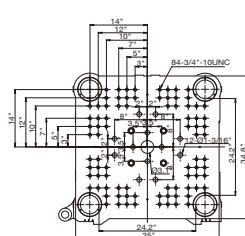
**VsP-180**



**VsP-220**



**VsP-260**



# Euromap Specifications

		VsP-60				VsP-90				VsP-120										
<b>Injection Unit</b>																				
Injection unit size		S		K		S		K		M		K		M						
Screw Diameter	mm	22	25	28	32	36	22	25	28	32	36	32	36	36						
Calculated Injection Capacity	cm³	38	49	62	80	102	38	49	62	80	102	117	148	148						
Actual Shot weight-PS	g	36	46	58	75	95	36	46	58	75	95	109	138	138						
	oz	1.3	1.6	2	2.6	3.3	1.3	1.6	2	2.6	3.3	3.8	4.9	4.9						
Actual Plasticizing Capacity-PS	g/s	5.55	7.77	9.72	14.44	20	5.55	7.77	9.72	14.44	20	10	13.88	13.88						
Injection Pressure-Max.	kgf/cm²	2500	2332	2500	2017	1594	2500	2332	2500	2017	1594	2490	1968	1968						
Injection rate	cm³/sec	53	69	86	113	142	66	85	107	140	177	113	144	144						
Calculated Injection Speed-Max.	mm/sec	140		140		175		175		141		175		141						
L/D ratio		22.4	20	22.9	20	17.8	22.7	20	22.9	20	17.8	22.5	20	20						
Screw Speed	rpm	400		378		400		378		266		400		266						
Screw stroke	mm	100		100		100		100		145		100		145						
Calculated Nozzle contact force	ton	5		5		5		5		5		5		5						
Total Heating wattage	kw	5.25		5.8		5.25		5.8		6.8		5.8		6.8						
<b>Clamping unit</b>																				
Clamping Force	ton	60				90				120										
Tie-Bar distance (H x V)	mm	310 x 310				360 x 360				410 x 410										
Mold thickness Min. - Max.	mm	150 - 320				150 - 350				150 - 430										
Clamp stroke-Max.	mm	270				320				360										
Open daylight-Max.	mm	590				670				790										
Platen dimensions (H x V)	mm	490 x 460				560 x 540				600 x 580										
Ejector stroke	mm	80				100				100										
Ejector force	ton	4				4				4										
Dry. Cycle time	sec.	2.6				2.5				3.2										
<b>General</b>																				
Servo Motor Pump (ES Option)	kw	11				20				20										
Oil tank capacity	l	135				185				190										
Hydraulic sys. Pressure	bar	170				170				170										
Machine weight	ton	2.3				2.9				3.4										
Machine size (L x W x H)	mm	3876 x 1095 x 1918				4122 x 1265 x 1928				4348 x 1231 x 2000										

※ Due to continual improvements, specifications technical imformation and dimensions are subject to change without prior notice.

VsP-150

VsP-180

VsP-220

VsP-260

	M		G		G		F		G		F		F		F		E							
40	32	36	40	36	40	46	36	40	46	46	50	55	36	40	46	46	50	55	46	50	55	55	60	68
182	117	148	182	163	201	266	163	201	266	332	393	475	163	201	266	332	393	475	332	393	475	570	679	872
171	109	138	171	153	188	249	153	188	249	312	368	445	153	188	249	312	368	445	312	368	445	534	636	817
6	3.8	4.9	6	5.4	6.6	8.8	5.4	6.6	8.8	11	13	15.7	5.4	6.6	8.8	11	13	15.7	11	13	15.7	18.8	22.4	28.8
18.61	13.05	18.05	24.16	15.83	20.83	30.55	21.38	27.77	40.83	26.11	32.5	40.55	21.66	27.77	40.83	26.11	32.5	40.55	32.22	39.72	49.72	30	37.22	50
1594	2490	1968	1594	2428	1967	1487	2428	1967	1487	2250	1904	1574	2428	1967	1487	2250	1904	1574	2250	1904	1574	2065	1735	1351
177	147	187	231	151	187	247	186	230	304	201	238	288	186	230	304	201	238	288	251	297	360	274	326	419
	184		149		183		121		183		121		152		115									
18	22.5	20	18	22.2	20	17.4	22.2	20	17.4	21.7	20	18.2	22.2	20	17.4	21.7	20	18.2	21.7	20	18.2	21.8	20	17.6
	345		296		397		255		397		255		312		188									
	145		160		160		200		160		200		200		240									
	5		5		5		5		5		5		5		7.9									
	6.8		8.1		8.1		12.9		8.1		12.9		12.9		18.6									

	150		180		220		260															
	460 x 460		510 x 510		560 x 560		615 x 615															
	150 - 450		200 - 550		200 - 600		250 - 650															
	400		470		510		580															
	850		1020		1110		1230															
	690 x 660		750 x 724		795 x 779		890 x 860															
	100		140		150		170															
	4		5.6		5.6		8.5															
	3.1		3.3		3.5		3.5															

	20		22		22		31																
	190		280		280		350																
	170		170		170		170																
	4		5.4		6.2		9.3																
0	4466 x 1280 x 2072				5268 x 1487 x 2289				5548 x 1497 x 2349				6330 x 1582 x 2388										

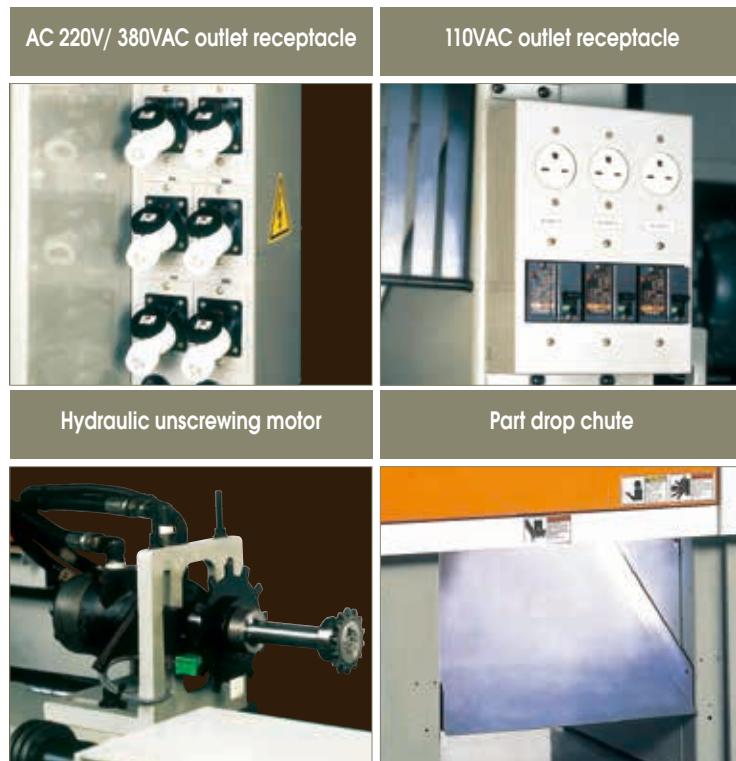
# SPI Specifications

		VsP-60						VsP-90						VsP-120																
<b>Injection Unit</b>																														
<b>Injection unit size</b>																														
Screw Diameter																														
Calculated Injection Capacity																														
Actual Shot weight-PS																														
Actual Plasticzing Capacity-PS																														
Injection Pressure-Max.																														
Injection rate																														
Calculated Injection Speed-Max.																														
L/D ratio																														
Screw Speed																														
Screw stroke																														
Calculated Nozzle contact force																														
Total Heating wattage																														
<b>Clamping unit</b>																														
Clamping Force																														
Tie-Bar distance (H x V)																														
Mold thickness Min. - Max.																														
Clamp stroke-Max.																														
Open daylight-Max.																														
Platen dimensions (H x V)																														
Ejector stroke																														
Ejector force																														
Dry. Cycle time																														
<b>General</b>																														
Servo Motor Pump (ES Option)																														
Oil tank capacity																														
Hydraulic sys. Pressure																														
Machine weight																														
Machine size (L x W x H)																														

VsP-150										VsP-180								VsP-220								VsP-260							
M		M		G		G		F		G		F		F		F		E															
1.41	1.57	1.25	1.41	1.57	1.41	1.57	1.81	1.41	1.57	1.81	1.81	1.96	2.16	1.41	1.57	1.81	1.81	1.96	2.16	1.81	1.96	2.16	2.16	2.36	2.67								
9.03	11.1	7.14	9.03	11.1	9.94	12.2	16.2	9.94	12.2	16.2	20.2	23.9	28.9	9.94	12.2	16.2	20.2	23.9	28.9	20.2	23.9	28.9	34.7	41.4	53.2								
138	171	109	138	171	153	188	249	153	188	249	312	368	445	153	188	249	312	368	445	312	368	445	534	636	817								
4.8	6	3.8	4.9	6	5.4	6.6	8.8	5.4	6.6	8.8	11	13	15.7	5.4	6.6	8.8	11	13	15.7	11	13	15.7	18.8	22.4	28.8								
13.88	18.61	13.05	18.05	24.16	15.83	20.83	30.55	21.38	27.77	40.83	26.11	32.5	40.55	21.66	27.77	40.83	26.11	32.5	40.55	32.22	39.72	49.72	30	37.22	50								
27976	22657	35415	27976	22657	30949	27976	21149	30991	27976	21149	32001	27080	22387	30991	27976	21149	32001	27080	22387	32001	27080	22387	29370	24676	19215								
8.78	10.8	8.97	11.41	14.09	9.21	11.41	15.07	11.35	14.03	18.55	12.26	14.52	17.57	11.35	14.03	18.55	12.26	14.52	17.57	15.31	18.12	21.96	16.72	19.89	25.57								
5.55	7.24		5.86		7.2		4.76		7.2		4.76		5.98		4.52																		
20	18	22.5	20	18	22.2	20	17.4	22.2	20	17.4	21.7	20	18.2	22.2	20	17.4	21.7	20	18.2	21.7	20	18.2	21.8	20	17.6								
250	315		277		355		255		355		255		312		186																		
5.708	5.708		6.299		6.299		7.874		6.299		7.874		7.874		9.448																		
5.5	5.5		5.5		5.5		5.5		5.5		5.5		5.5		8.7																		
6.8	6.8		8.1		8.1		12.9		8.1		12.9		12.9		18.6																		
		165.3				198.4				242.5				286.5																			
		18.1 x 18.1				20 x 20				22 x 22				24.2 x 24.2																			
		5.9 - 17.71				7.87 - 21.65				7.87 - 23.62				9.84 - 25.59																			
		15.748				18.503				20.078				22.834																			
		33.464				40.157				43.7				48.425																			
		27.1 x 25.98				29.52 x 28.5				31.29 x 30.66				35.03 x 33.85																			
		3.937				5.511				5.905				6.692																			
		4.409				6.172				6.172				9.369																			
		3.1				3.3				3.5				3.5																			
		20				22				22				31																			
		215				245				245				450																			
		2417				2417				2417				2417																			
		4.409				5.952				6.834				10.251																			
78.74	175.82 x 50.39 x 81.57		207.4 x 58.54 x 90.11		218.42 x 58.93 x 92.48		249.21 x 62.28 x 94.01																										

## Example of standard/ optional equipment

Accessory	Stand	Option
Tool/ fuse kit	•	
Part drop chute	•	
Conveyor belt		•
Standard 5-in's/ 5-out's water regulator without flow indicator	•	
4 or extra zones water regulator with the flow indicator		•
220V/ 380VAC outlet x 1 for auto loader	•	
110VAC outlet receptacle (power sourced by customer)		•
110VAC outlet receptacle (power sourced via machine)		•
AC 220V/ 380VAC outlet receptacle (power sourced by customer)		•
AC 220V/ 380VAC outlet receptacle (power sourced via machine)		•
Transformer for local power source		•



### Notes:

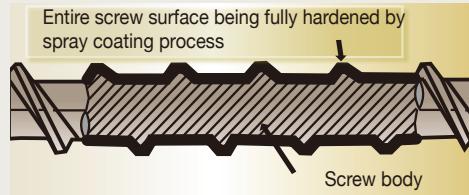
- There are A, B and C three grades of bimetallic screw & barrel available, which can be selected by customer depending on what abrasive/corrosive engineering resin & additives used for molding application.
- For further information details, please contact Victor's sales.



**A Grade** bimetallic barrel and screw set- with 40% tungsten carbide composition included in the barrel's bimetallic content, coupled with a screw which entire surface is fully hardened through HP/HVOF coating treatment process.

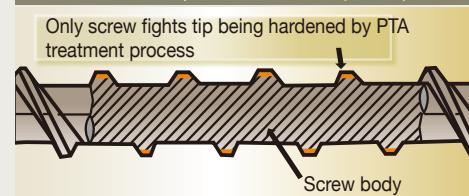
**B Grade** bimetallic barrel and screw set- with 25% tungsten carbide composition included in the barrel's bimetallic content, coupled with a screw which entire surface is fully hardened through HP/HVOF coating treatment process.

### Sectional drawing of screw spindle with HP/HVOF treatment (A & B Grade Screw Spindle)



**C Grade** bimetallic barrel and screw set- with 9.5% tungsten carbide composition included in the barrel's bimetallic content, coupled with a screw which only the flights-tip is hardened through PTA Bimetallic alloy treatment process.

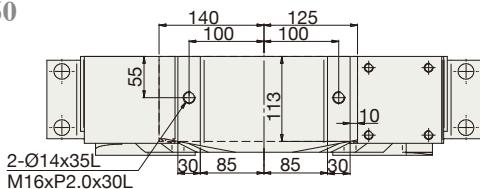
### Sectional drawing of screw spindle with PTA treatment (C Grade Screw Spindle)



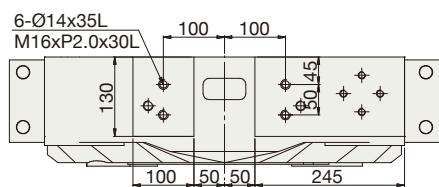
# Robot Installation Measurement Stationary Platen top View part

**Robot mounting holes & Robot seat available mounting space**

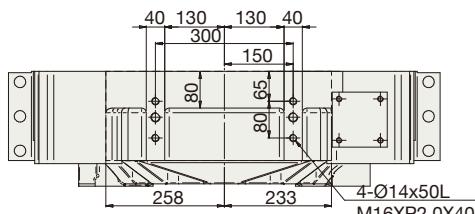
VsP-60



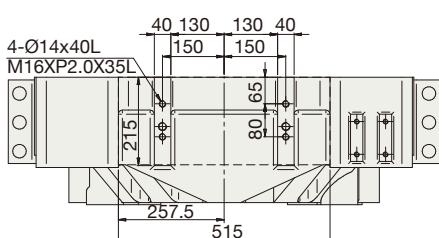
VsP-120



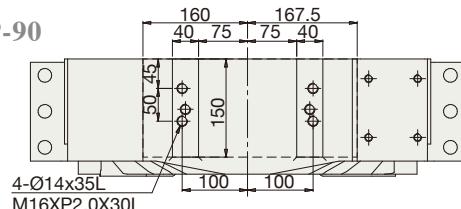
VsP-220



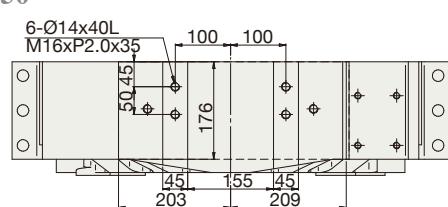
VsP-260



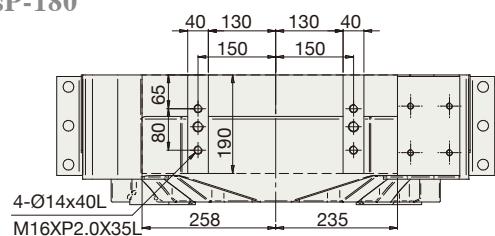
VsP-90



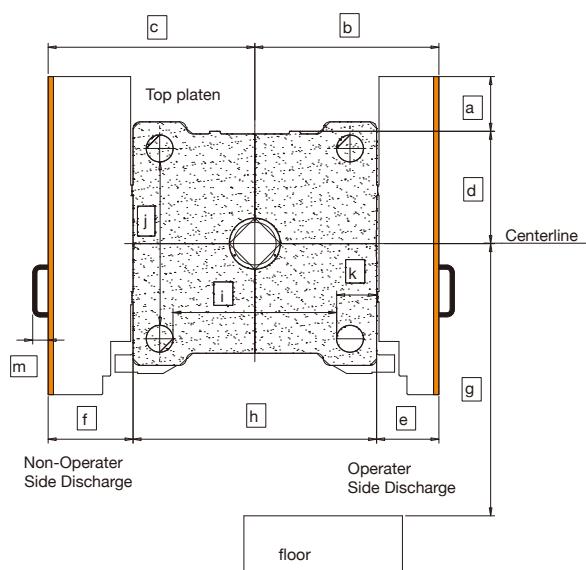
VsP-150



VsP-180



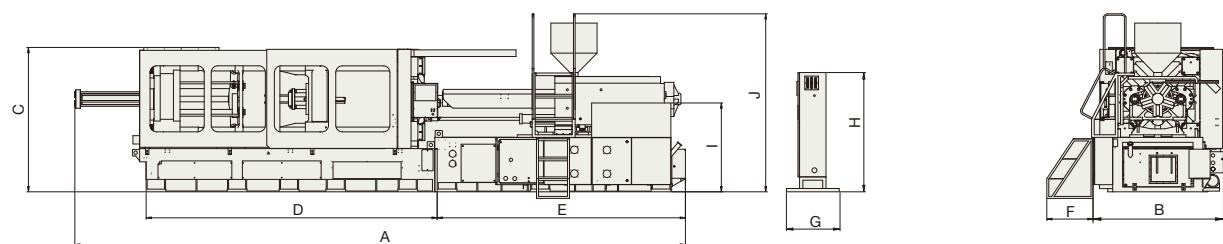
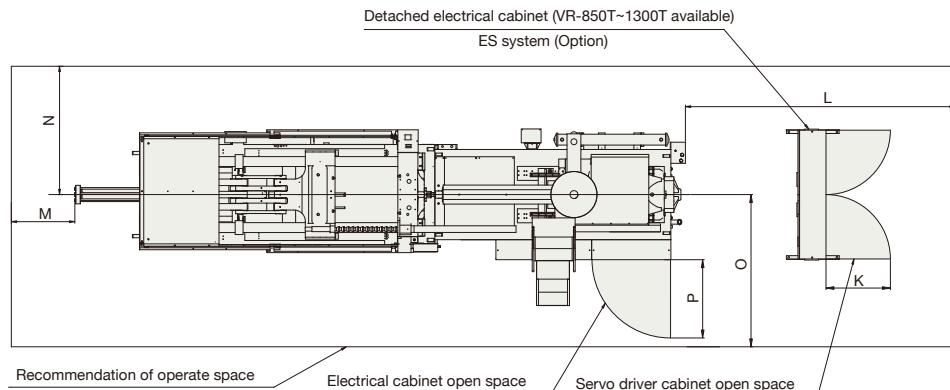
**Various measurement relations**



	a	b	c	d	e	f
VsP-60	70	455	525	258	210	280
VsP-90	70	480	546	292	200	266
VsP-120	64	530	585	338	235	290
VsP-150	75	555	610	348	210	265
VsP-180	75	595	645	400	220	270
VsP-220	69.5	658	672	418	242	256
VsP-260	178	692	777	450	230	315
	g	h	i	j	k	m
VsP-60	1255	490	310	310	40	58
VsP-90	1255	560	360	360	40	58
VsP-120	1310	590	410	410	25	58
VsP-150	1345	690	460	460	45	58
VsP-180	1380	750	510	510	35	58
VsP-220	1440	832	560	560	46	58
VsP-260	1380	923	615	615	54	58

Unit : mm

# Machine Layout (excl. Transformer)



ITEM \ MODEL	Standard											ES (Option)				stairs (Option)	
	A	B	C	D	E	L	M	N	O	P	K	G	H	I	F	J	
VR-350	7500	1950	2100	3840	3000	1000	1000	1975	2450	975	X	X	X	1450	700	2768	
VR-450	8400	2050	2080	4445	3270	1000	1000	2025	2500	975	X	X	X	1450	700	2572	
VR-550	9300	2150	2200	4580	3570	1000	1000	2075	2550	975	X	X	X	1450	700	2700	
VR-700	9950	2950	2400	5255	4280	1000	1000	2475	2950	615	X	X	X	1450	700	2695	
VR-850	10850	2500	2445	5320	4890	3600	1000	2250	2725	630	975	800	1800	X	700	2376	
VR-1000	12595	2595	2568	6575	5456	3347	763	1860	2370	750	1202	820	1653	X	700	3042	
VR-1300	13561	2856	2773	7035	5700	3131	522	2720	2300	750	1202	820	1653	X	700	3130	



THE VICTOR-TAICHUNG COMPANIES



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