

GS Series

**New Generation All-Electric injection
molding machine**



GS Series

50-250 Tons Third Generation injection molding machine

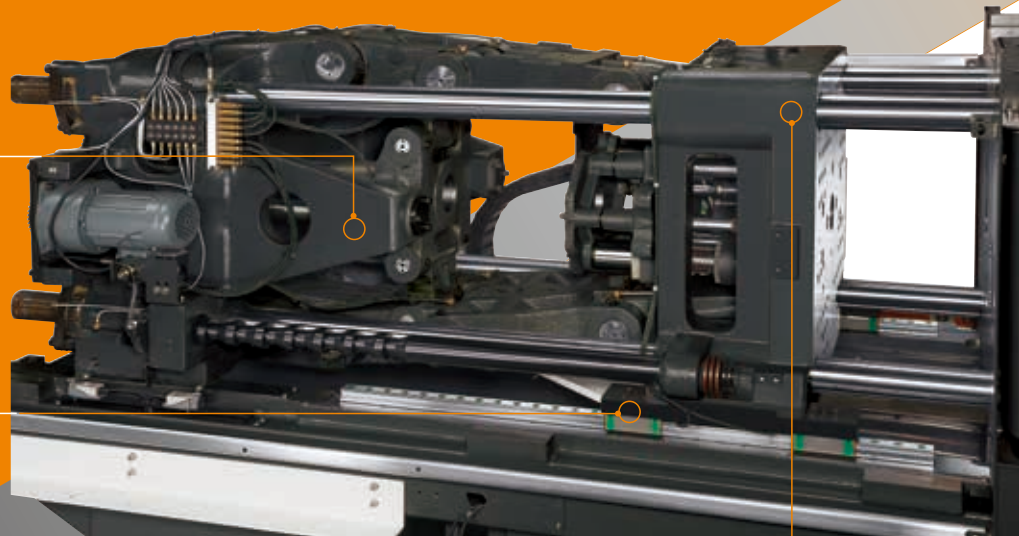
Clamping Unit

Integrated guide armrest design

- Integrated and synchronized processing, improve assembly accuracy, reduces guide bar warp and improves mold adjustment.

Precision and Clean design

- Large linear distance configuration linear slide, higher accuracy and longer slider life.
- Moving platen non-contact with Tie-bar. Prevent products contaminated by lubrications oil.



Platen structure optimization

- Square structure with concentrated crank force design, reduce platen distortion.

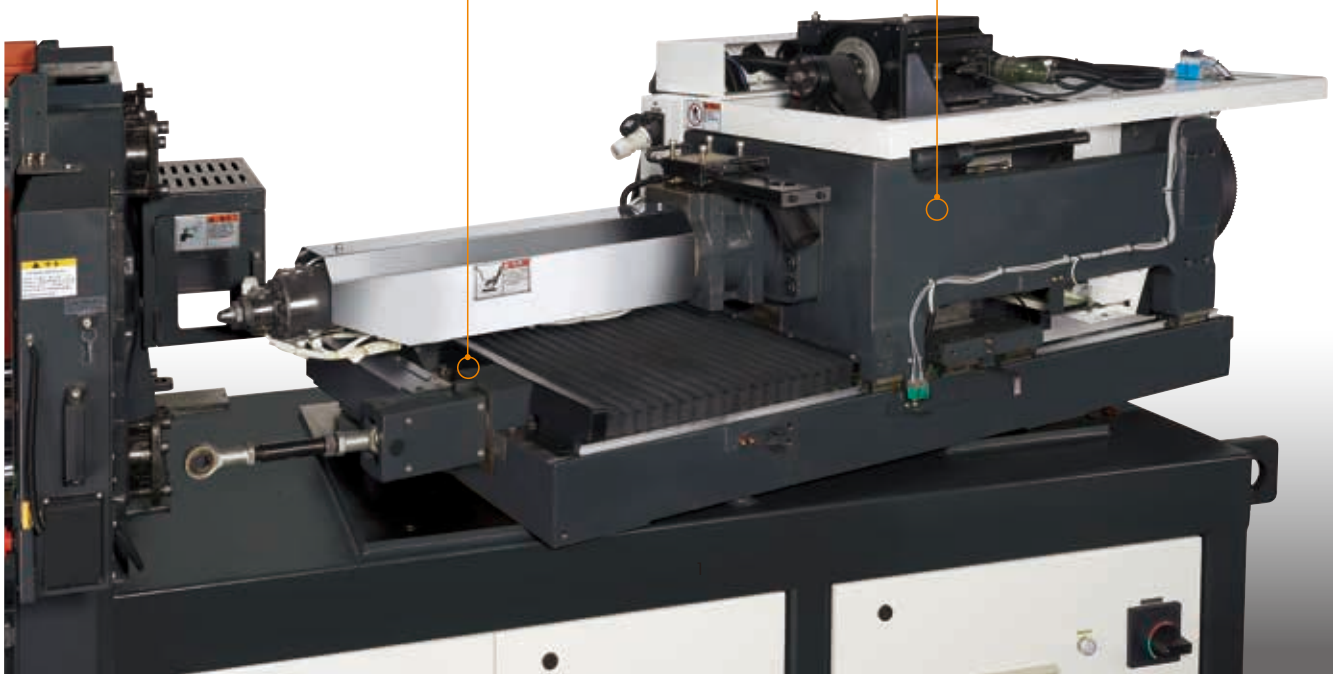
Injection Unit

Pivoting injection unit

- 130-250 Tons provide manual rotation of the injection unit. Easier for repair or replacement without remove the mold.

High rigidity injection structure

- Injection casting Integrated design and all processed synchronized, high strength and precision.



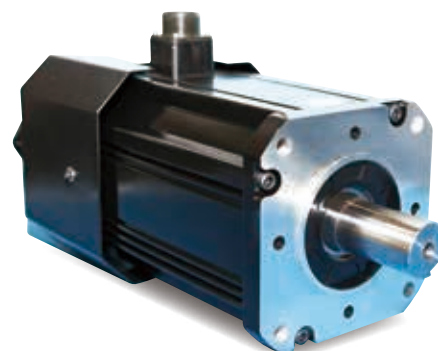


Energy saving \

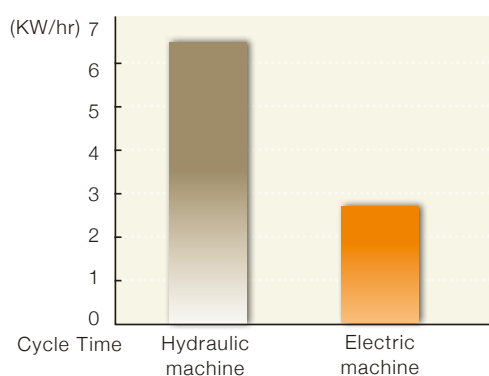
Environmental

Save more than 60% of energy consumption

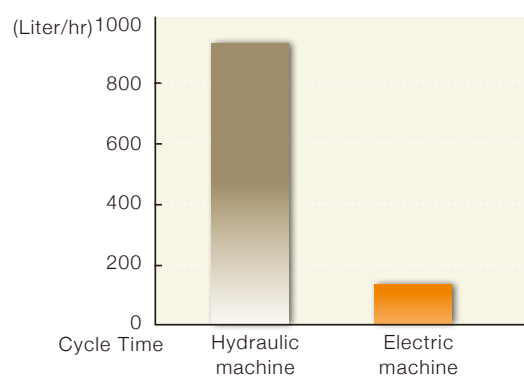
The All electric power system is completely driven by servo motor, at the same time, only water for feeding pipe inlet and mold cooling is required, save more than 60% of energy compared with the traditional hydraulic, at the same time, only water for feeding pipe inlet and mold cooling is required, cooling water usage saving to 1/5 or less of the hydraulic machine.



Power consumption



Cooling water consumption



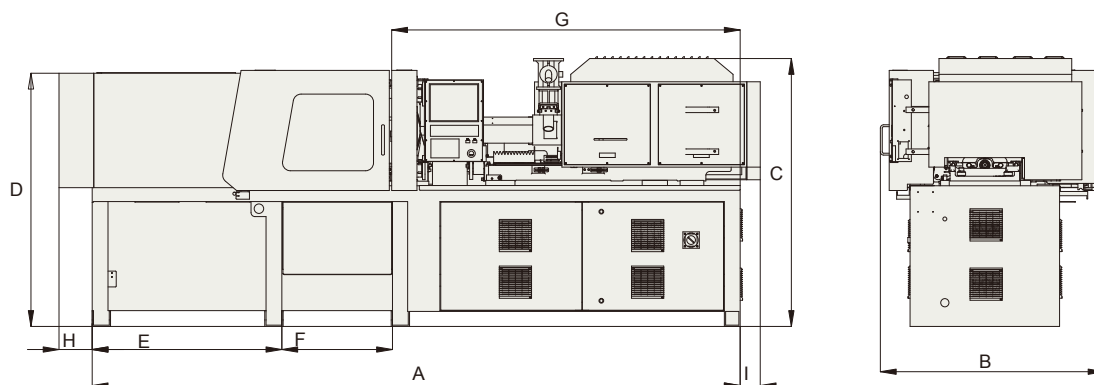
Controller

New generation ME300 electronic control system

- The swivel mounted 15" LCD high resolution touch screen, graphical user interface.
- Adopt dual CPU architecture (separation of man-machine and control) to improve system reliability.
- Connected with EtherCAT, it has high-speed, real-time and stable communication.
- The OS adopts Linux instant multiplex system, which is stable and efficient.
- Internal molding parameters can be stored in 1000 groups, and USB can be used as external, this unit expands the storage space.



Machine Layout

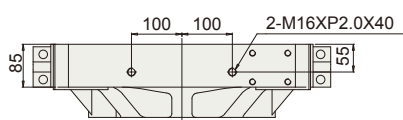


Unit: mm

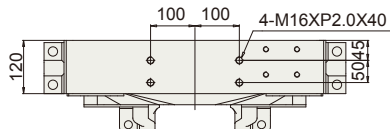
Model	A	B	C	D	E	F	G	H	I	Machine size (L x W x H)
GS-50	3230	1260	1600	1575	800	550	1885	221	200	3651*1260*1600
GS-80	3840	1340	1700	1600	1050	620	2175	231	290	4361*1340*1700
GS-100	4100	1415	1700	1620	1200	700	2205	210	270	4580*1415*1700
GS-130	4710	1450	1810	1770	1310	790	2645	430	240	5380*1450*1810
GS-180	5360	1590	1920	1910	1280	985	3100	420	200	5980*1590*1920
GS-250	5695	1670	2060	2010	1495	940	3265	415	450	6560*1670*2060

Robot installation measurement

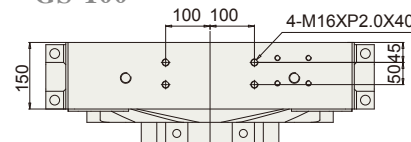
GS-50



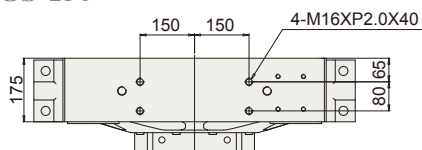
GS-80



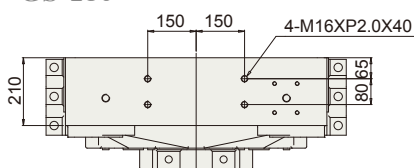
GS-100



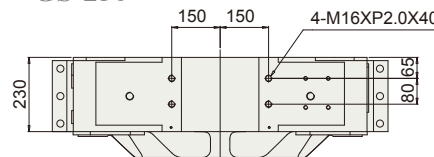
GS-130



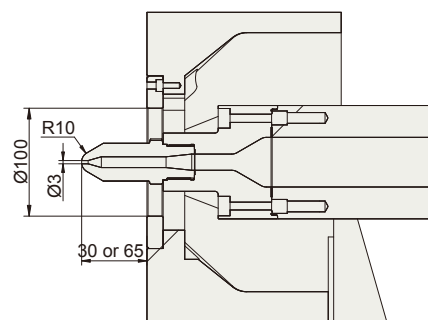
GS-180



GS-250



Nozzle & Locating ring Location Related



Specifications

Model		GS-50				GS-80				GS-100				
Injection unit		C		D		D		F		D		F		
Screw dia.	mm	22	26	28	32	28	32	32	36	28	32	32	36	
Calculated Injection Capacity	cm ³	34	48	62	80	62	80	117	148	62	80	117	148	
Actual Shot weight (PS)	g	32	45	58	76	58	76	110	139	58	76	110	139	
	oz	1.1	1.6	2	2.7	2	2.7	3.9	4.9	2	2.7	3.9	4.9	
Plastizing capacity	kg/hr	19	29	35	51	35	51	50	68	35	44	50	68	
Screw L/D ratio	m/m	23.6	20	22.9	20	22.9	20	22.5	20	22.9	20	22.5	20	
Total heating wattage	kw	4.5		5.8		5.8		6.8		5.8		6.8		
Standard	Injection rate	cm ³ /sec	114	159	185	241	185	241	241	305	185	241	241	305
	Injection speed	kgf/cm ³	300		300		300		300		300		300	
Long holding type	Injection rate	cm ³ /sec	65	90	105	137	105	137	137	173	105	137	137	173
	Injection speed	mm/sec	170		170		170		170		170		170	
Injection pressure - Max.	kgf/cm ²	2500	2130	2440	1870	2440	1870	2300	1820	2440	1870	2300	1820	
Holding pressure - Max.	kgf/cm ²	2125	1810	2075	1590	2075	1590	1955	1550	2075	1590	1955	1550	
Screw stroke	mm	90		100		100		145		100		145		
Screw speed	rpm	375		375		375		365		375		365		
Calculated Nozzle contact force	ton	1		1.5		1.5		2		1.5		2		
Clamping unit														
Clamping force	ton	50				80				100				
Clamp stroke - Max.	mm	270				320				360				
Mold thickness Min. - Max.	mm	150 - 350				150 - 380				150 - 450				
Open daylight - Max.	mm	620				700				810				
Tie-bar distance (H x V)	mm	360 x 310				410 x 360				460 x 410				
Platen dimension (H x V)	mm	505 x 502				585 x 530				640 x 595				
Ejector stroke	mm	70				80				100				
Ejector force	ton	2				2.5				2.5				
General														
Machine weight	ton	3.2		3.3		4.2		4.6		4.9		5.2		
Machine size (L x W x H)	mm	3651 × 1260 × 1600				4361 × 1340 × 1700				4580 × 1415 × 1700				

Notes: Due to continual improvements, specifications technical information and dimensions are subjected to change without prior notice.



GS-130					GS-180						GS-250					
F		G			G			H			H			J		
32	36	36	40	46	36	40	46	46	50	55	46	50	55	50	55	63
117	148	163	201	266	163	201	266	332	393	475	332	393	475	471	570	748
110	139	153	189	250	153	189	250	312	369	447	312	369	447	443	536	703
3.9	4.9	5.4	6.7	8.8	5.4	6.7	8.8	11	13	15.7	11	13	15.7	15.6	18.9	24.8
50	68	54	70	102	54	70	102	102	127	158	102	127	158	118	147	199
22.5	20	22.2	20	17.4	22.2	20	17.4	21.7	20	18.2	21.7	20	18.2	22	20	17.5
6.8		8			8			12.9			12.9			18.6		
241	305	204	251	332	204	251	332	266	314	380	266	314	380	314	380	499
300		200			200			160			160			160		
137	173	132	163	216	132	163	216	199	236	285	199	236	285	236	285	374
170		130			130			120			120			120		
2300	1820	2500	2050	1550	2500	2050	1550	2265	1920	1585	2265	1920	1585	2290	1890	1440
1955	1550	2125	1740	1315	2125	1740	1315	1925	1630	1345	1925	1630	1345	1945	1605	1225
145		160			160			200			200			240		
365		280			280			280			280			260		
2		2.5			2.5			2.5			2.5			3		

130	180	250
400	470	520
180 - 450	200 - 480	250 - 600
850	950	1120
510 x 460	560 x 510	610 x 560
720 x 685	785 x 745	885 x 830
110	120	150
3.3	3.3	4.5

7.5	9.1	11.5
5380 x 1450 x 1810	5980 x 1590 x 1920	6560 x 1670 x 2060

Worldwide Subsidiaries



ONWARD RISE

To ensure the return on investment, Victor Taichung has invested considerably in setting up a distribution network in terms of global vision local touch for our sales and service supports worldwide. Besides the qualified exclusive agents around the world, Victor Taichung has 7 overseas subsidiaries to provide our customers efficient after-sales service and technical supports.



THE VICTOR-TAICHUNG COMPANIES



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