

Performance Table

Unit	Item	Model	J1000ELⅢ					
			3100H		3900H		5200H	
Injection Unit	Screw cylinder type		A	B	A	B	A	B
	Screw diameter	mm	92	100	100	110	110	120
	Screw stroke	mm	460		500		550	
	Theoretical injection capacity	cm <sup>3</sup>	3058	3613	3927	4752	5227	6220
	Injection capacity (GP-PS)	g	2783	3288	3574	4324	4757	5660
	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	185 {1880}	156 {1590}	185 {1880}	153 {1560}	172 {1750}	144 {1460}
	Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	167 {1700}	140 {1420}	167 {1700}	138 {1400}	155 {1580}	130 {1320}
	Injection speed	mm/s	160		160		160	
	Injection rate	cm <sup>3</sup> /s	1064	1257	1257	1521	1521	1810
	Plasticizing rate (GP-PS)	kg/h	470	580	500	620	580	720
	Screw speed	min <sup>-1</sup>	165		140		130	
	Nozzle touch force	kN {tf}	59.0 {6.0}		59.0 {6.0}		59.0 {6.0}	
	Nozzle stroke from platen	mm	50					
	Type of nozzle		Open nozzle					
	Cylinder temperature control		Cylinder 4 / Nozzle 1					
Heater wattage	kW	45.2		47.0		55.0		
Clamping Unit	Mechanism		Double toggle					
	Clamping force	kN {tf}	9810 {1000}					
	Daylight opening (Max.)	mm	2500					
	Opening stroke (Max.)	mm	1300					
	Mold height	mm	500~1200					
	Distance between tie-bars (H×V)	mm	1320×1320					
	Platen size (H×V)	mm	1900×1900					
	Ejector type		29 points					
	Ejector force	kN {tf}	230 {23.5}					
	Ejector stroke	mm	200					
General	Machine weight	t	67		71		71	
	Machine dimensions (L×W×H)	m	11.70×2.97×2.92		12.20×2.97×2.92		12.34×2.97×2.92	

## Remarks:

1. Injection pressure of J-ELⅢ series is different from that of JSW's hydraulic machines.
2. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
3. The theoretical injection capacity is (cross sectional area of cylinder) × (stroke of screw).
4. The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
5. The plasticizing rate is applicable for GP-PS.
6. PC (polycarbonate), HPVC, other engineering plastic, etc., low temperature setting and high speed molding may require a high torque depending on the grade or molding conditions. Please contact us if you plan.

## Note:

1. Due to continual improvements, specifications are subject to change without notice.
2. Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3. Performance specifications are based on theoretical data.
4. 1MPa=10.2 kgf/cm<sup>2</sup>, 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions

J1000EL III

