

Performance Table

Unit	Item	Model	J1800ELIII			
			5200H		7800H	
Injection Unit	Screw cylinder type		A	B	A	B
	Screw diameter	mm	110	120	110	120
	Screw stroke	mm	550		825	
	Theoretical injection capacity	cm <sup>3</sup>	5227	6220	7840	9331
	Injection capacity (GP-PS)	g	4757	5660	7135	8491
	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	172 {1750}	144 {1460}	180 {1830}	151 {1530}
	Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	155 {1580}	130 {1320}	162 {1650}	136 {1380}
	Injection speed	mm/s	160		150	
	Injection rate	cm <sup>3</sup> /s	1521	1810	1425	1696
	Plasticizing rate (GP-PS)	kg/h	580	720	570	660
	Screw speed	min <sup>-1</sup>	130		150	140
	Nozzle touch force	kN {tf}	59.0 {6.0}			
	Nozzle stroke from platen	mm	50			
	Type of nozzle		Open nozzle			
	Cylinder temperature control		Cylinder 4 / Nozzle 2		Cylinder 6 / Nozzle 2	
Heater wattage	kW	55.0		59.0		
Clamping Unit	Mechanism		Double toggle			
	Clamping force	kN {tf}	17700 {1800}			
	Daylight opening (Max.)	mm	3200			
	Opening stroke (Max.)	mm	1700			
	Mold height	mm	800~1500			
	Distance between tie-bars (H×V)	mm	1850×1620			
	Platen size (H×V)	mm	2550×2320			
	Ejector type		37 points			
	Ejector force	kN {tf}	380 {38.7}			
	Ejector stroke	mm	300			
General	Machine weight	t	129		131	
	Machine dimensions (L×W×H)	m	14.08×3.72×3.51		14.94×3.72×3.51	

Remarks:

1. Injection pressure of J-EL III 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

