

## Specifications

Unit	Item		Model						
			J180EL III			J220EL III			
Injection Unit	Screw cylinder type		KK (0P)	K	A	K (0P)	A	B	
	Screw diameter	mm	35	40	46	46	53	58	
	Screw stroke	mm	140	180		210			
	Theoretical injection capacity	cm <sup>3</sup>	135	226	300	349	463	555	
	Injection capacity(PS)	g	123	206	273	318	421	505	
	Standard	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	246 {2500}	216 {2200}	177 {1800}	216 {2200}	177 {1800}	138 {1400}
		Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	216 {2200}	197 {2000}	157 {1600}	187 {1900}	157 {1600}	123 {1250}
		Injection speed	mm/s	160			160		
		Injection rate	cm <sup>3</sup> /s	153	201	266	266	353	423
		Plasticizing rate	kg/h	58	82	117	115	163	197
		Screw Speed	min <sup>-1</sup>	250			250		
	High speed (OP)	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	246 {2500}	216 {2200}	177 {1800}	216 {2200}	177 {1800}	138 {1400}
		Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	216 {2200}	197 {2000}	157 {1600}	187 {1900}	157 {1600}	123 {1250}
		Injection speed	mm/s	240			240		
		Injection rate	cm <sup>3</sup> /s	231	301	400	400	530	633
		Plasticizing rate	kg/h	92	130	184	161	228	275
		Screw Speed	min <sup>-1</sup>	400			350		
	Nozzle touch force		kN{tf}	24.6{2.5}			24.6{2.5}		
	Nozzle stroke from platen		mm	50			50		
	Type of nozzle			Open nozzle (tip type)			Open nozzle (tip type)		
Cylinder temperature control			Cylinder 4 / Nozzle 1			Cylinder 4 / Nozzle 1			
Heater wattage		kW	10.8	12.9		18.2			
Clamping Unit	Mechanism		Double toggle			Double toggle			
	Clamping force	kN{tf}	1770{180}			2160{220}			
	Day light opening (Max.)	mm	940			1050			
	Opening stroke (Max.)	mm	440			550			
	Mold height	mm	220~500			230~500			
	Distance between tie-bars (HxV)	mm	530x530			590x590			
	Platen size (HxV)	mm	780x780			870x870			
	Ejector type			9 points			9 points		
	Ejector force	kN{tf}	32.4{3.3}			44.2{4.5}			
	Ejector stroke	mm	130			130			
General	Machine weight		t			8.1			
	Machine dimensions (LxWxH)		m			5.51x1.37x1.92			

### Remarks:

1. Injection pressure of J-EL III series is different from that of JSW's hydraulic machines.
2. "KK" size screw J180ELIII and smaller is same as "K" size of one smaller model.
3. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
4. The theoretical injection capacity is (cross sectional area of cylinder) x (stroke of screw).
5. The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
6. The plasticizing rate is applicable for GP-PS.
7. 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. High speed injection is optional(except J35ELIII,and J450ELIII-1400H).
5.  $1\text{MPa}=10.2\text{kgf/cm}^2$ ,  $1\text{kN}=0.102\text{tf}$