

Specifications

Unit	Item		Model / J450EL III							
			890H			1400H				
Injection Unit	Screw cylinder type		K (0P)	A	B	K (0P)	A	B		
	Screw diameter		mm	58	66	72	66	76	84	
	Screw stroke		mm	260			300			
	Theoretical injection capacity		cm ³	687	890	1059	1026	1361	1663	
	Injection capacity(PS)		g	625	810	965	934	1238	1513	
	Standard	Injection pressure (Max.)		MPa {kgf/cm ² }	216 {2200}	167 {1700}	138 {1400}	241 {2450}	182 {1850}	149 {1510}
		Holding pressure (Max.)		MPa {kgf/cm ² }	187 {1900}	148 {1500}	118 {1200}	216 {2200}	163 {1660}	134 {1360}
		Injection speed		mm/s	160			160		
		Injection rate		cm ³ /s	423	547	651	547	726	887
		Plasticizing rate		kg/h	197	282	336	237	338	418
		Screw Speed		min ⁻¹	250			210		
	High speed (OP)	Injection pressure (Max.)		MPa {kgf/cm ² }	216 {2200}	167 {1700}	138 {1400}	*STD		
		Holding pressure (Max.)		MPa {kgf/cm ² }	177 {1800}	138 {1400}	113 {1150}			
		Injection speed		mm/s	200					
		Injection rate		cm ³ /s	528	684	814			
		Plasticizing rate		kg/h	197	282	336			
		Screw Speed		min ⁻¹	250					
	Nozzle touch force		kN{tf}	29.5{3.0}			39.3{4.0}			
	Nozzle stroke from platen		mm	50						
	Type of nozzle			Open nozzle (tip type)						
Cylinder temperature control			Cylinder 4 / Nozzle 1							
Heater wattage		kW	24.5			34.7				
Clamping Unit	Mechanism		Double toggle							
	Clamping force		kN{tf}	4420{450}						
	Day light opening (Max.)		mm	1550						
	Opening stroke (Max.)		mm	800						
	Mold height		mm	350~750						
	Distance between tie-bars (HxV)		mm	810x810						
	Platen size (HxV)		mm	1210x1210						
	Ejector type			17 points						
	Ejector force		kN{tf}	99.0{10.0}						
	Ejector stroke		mm	180						
General	Machine weight		t	24.0			25.5			
	Machine dimensions (LxWxH)		m	8.37x1.89x2.21			8.40x1.89x2.21			

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. 1MPa=10.2kgf/cm², 1kN=0.102tf