MEDIUM SIZE INJECTION MOLDING MACHINE
J450EIII
SPECIFICATIONS

	Item			J450EIII		
Injection Unit	Screw cylinder type			A	B	C
	Screw diameter		mm	76	84	99
	Injection pressure		MPa {kgf/cm^2}	181{1840}	149{1510}	106{1080}
	Injection capacity (Theoretical)		cm^3	1360	1660	2300
	Injection capacity (GP-PS)		g	1238	1511	2093
	Injection rate		cm^3/s	399(332)	488(407)	677(564)
	Plasticizing rate (GP-PS)		kg/h	266(221)	328(273)	375(312)
	Screw speeds	High torque (Max.)	min^{-1}	120(100)		
		Low torque (Max.)	min^{-1}	165(137)		
	Screw stroke		mm	300		
	Nozzle stroke from platen		mm	50		
	Type of nozzle			Open nozzle		
	"PID" cylinder temperature control			Cylinder 4 / Nozzle 1		
Clamping Unit	Mechanism			Double toggle		
	Clamping force		kN{tf}	4420{450}		
	Maximum daylight opening		mm	1550		
	Opening stroke (Max.)		mm	800		
	Mold height		mm	380~750		
	Distance between tie-bars (HxV)		mm	810x810		
	Platen size (HxV)		mm	1175x1175		
	Hydraulic ejector		mm	Cross line[17 points]		
	Ejector force/stroke		kN{tf}/mm	108.0{11.0}/150		
	Mold closing/opening speeds		m/min	50-43(42-36)		
Electrical Equipment	Pump driving motor		kW	55		
	Heater wattage		kW	34.9		
	Mold height adjusting motor		kW	1.5		
	Total power capacity		kW	90.9		
Machine Dimensions and General	Machine weight		t	22.0		
	Machine dimensions (LxWxH)		m	8.51x1.81x2.34		
	Hydraulic oil reservoir		L	700		
	Hopper capacity		L	124[optional]		

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

Remarks:
1) The theoretical injection capacity is (cross sectional area of cylinder) x (stroke of screw).
2) The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
3) The plasticizing rate is applicable for GP-PS.
4) The total power capacity does not include power for the mold height adjusting motor (as it is not used while the machine is operated.)
5) Figures in parenthesis are applicable for 50 Hz power source.
6) PC (polycarbonate), HPVC, low temperature setting, high speed molding, engineering plastic, etc. may require a high torque depending on the grade or molding conditions. Please contact us if you plan.