

# Small & Medium Size Injection Molding Machine

# J450EIII

## ■ Specifications

Item		Grade	J450EIII			
Injection Unit	Screw cylinder type		A	B	C	
	Screw diameter	mm	76	84	99	
	Injection pressure	MPa {kgf /cm <sup>2</sup> }	181 {1840}	149 {1510}	106 {1080}	
	Theoretical injection capacity	cm <sup>3</sup>	1360	1660	2300	
	Injection capacity 【GP-PS】	g	1238	1511	2093	
	Injection rate	cm <sup>3</sup> /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 <sup>-1</sup>	120 (100)		
		Low torque [Max.]	min <sup>-1</sup>	165 (137)		
	Screw stroke	mm	300			
	Nozzle stroke from platen	mm	50			
	Type of nozzle		Open nozzle			
	Cylinder temperature control		Cylinder 4, nozzle 1			
Clamping Unit	Mechanism		Double toggle			
	Clamping force	kN {tf}	4420 {450}			
	Daylight opening [Max.]	mm	1550			
	Opening stroke [Max.]	mm	800			
	Mold height	mm	380~750			
	Distance between tie-bars [H×V]	mm	810×810			
	Platen size [H×V]	mm	1175×1175			
	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 [L×W×H]	m	8.51×1.81×2.34			
	Hydraulic oil reservoir	L	700			
	Hopper capacity	L	124 [optional]			

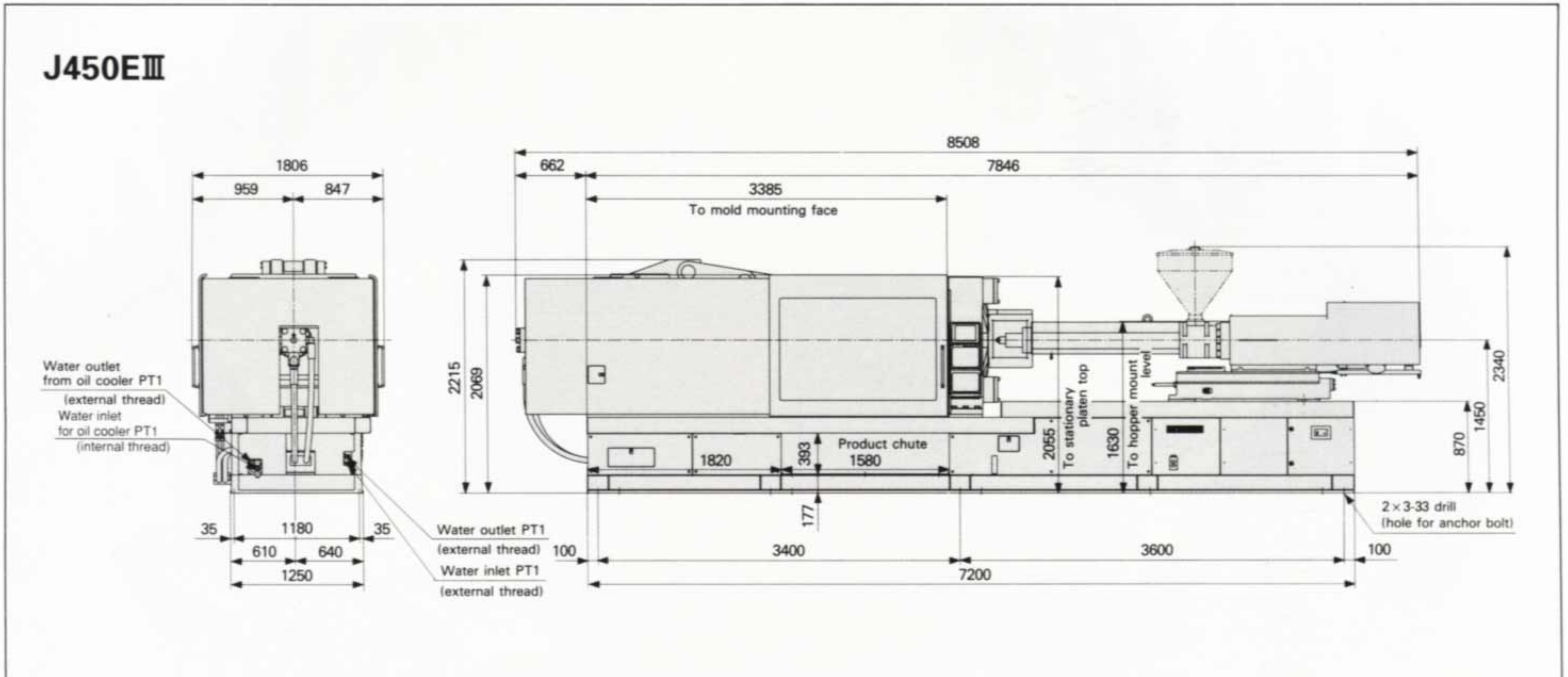
### Remarks:

- 1) The theoretical injection capacity is cross sectional area of cylinder × 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, 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.

### 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<sup>2</sup>, 1kN=0.102tf

## Machine Dimensions



## Mold Dimensions and Relative Equipment

