

α-S450iA Mechanical specifications



Clamping unit					
Clamping mechanism	Double toggle ●				
Tonnage [kN tonf]	4500 450 (Option 5000 500)				
Maximum and minimum die height Doubleplaten [mm]	1000/350				
Maximum and minimum die height Singleplaten [mm]	-				
Clamping stroke [mm]	900				
Locating ring diameter [mm]	φ200				
Tie bar spacing, H×V [mm]	920 × 920				
Platen size, H×V [mm]	1300 × 1300				
Minimum mould size, H×V [mm] *1	535 × 535				
Ejector stroke [mm]	250				
Maximum ejector force [kN tonf]	150 15.0				
Injection unit					
Screw diameter [mm]	68	72	80	90	100
Injection stroke [mm]	260	260	360	360	360
Max. injection volume [cm ³]	944	1059	1810	2290	2827
Nozzle touch force [kN tonf]	30 3.0				
Max. Injection Speed mm/s *3					
	180				
Max. injection pressure [MPa] *2	280	280	250	200	160
Max. pack pressure [MPa]*2	280	250	200	160	130
Max. injection rate [cm ³ /s] *3	654	733	905	1145	1414
Max. screw rotation speed [min ⁻¹]	200				
Screw and Barrel					
Number of heater [Barrel]	Nozzle adaptor 1 + Barrel 4				
Number of heater [Nozzle]	1				
Total heater wattage [kW]	29.1	31.3	33.9	37.9	41.1
Machine weight [t] *4	≈ 29.7				

● standard - not available () with hardware and/or software option

*1) Smaller mould than this size may limit clamp force.

*2) The maximum injection pressure and maximum pack pressure is not melt pressure but injection unit output.

- The maximum injection pressure and maximum pack pressure is the maximum value can be set.
- The maximum injection pressure and maximum pack pressure might be limited depending on the moulding condition.

*3) Maximum injection rate and maximum injection speed is a theoretical value.

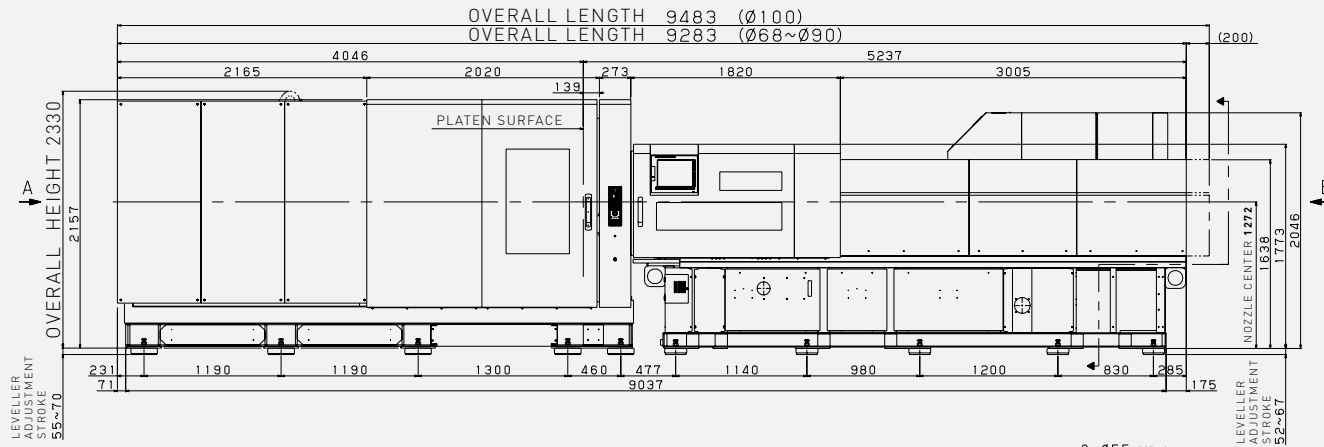
- Maximum injection rate and maximum injection speed can not be guaranteed when the injection pressure is maximum.

*4) The machine without option.

*5) The pressure conversion is 1MPa=10kg/cm².

*6) The moulding condition might be limited by the resin. Contact sales for detail.

α-S450iA Dimensions



OVERALL WIDTH 2212

