

α-S250iA Mechanical specifications



Clamping unit								
Clamping mechanism	Double toggle ●							
Tonnage [kN tonf]	2500 250 (3000 300)							
Maximum and minimum die height Doubleplaten [mm]	650-300 (750-300)							
Maximum and minimum die height Singleplaten [mm]	-							
Clamping stroke [mm]	600							
Locating ring diameter [mm]	Ø 160							
Tie bar spacing, HxV [mm]	710 × 635							
Platen size, HxV [mm]	1030 × 960							
Minimum mold size, HxV [mm] *1	420 × 385							
Ejector stroke [mm]	200							
Maximum ejector force [kN tonf]	80 8.0							
Injection unit								
Screw diameter [mm]	32	36	40	44	48	52	56	77
Injection stroke [mm]	150	150	150	176	176	208	260	
Max. injection volume [cm ³]	121	153	188	268	318	442	640	
Nozzle touch force [kN tonf]	30 3.0							
Max. Injection Speed mm/s *3								
	330							
Max. injection pressure (high-pressure filling mode) [MPa] *2*4	380	345	280	-	-	-	-	
Max. injection pressure [MPa] *2	280	280	260	220	190	160	140	
Max. pack pressure [MPa] *2	280	280	260	220	190	160	140	
Max. injection rate [cm ³ /s] *3	265	335	414	501	597	700	812	
Max. screw rotation speed [min ⁻¹]	400							
Machine weight [t] *5	≈ 13.7							
Screw and Barrel								
Number of heater [Barrel]	3			4				
Number of heater [Nozzle]	1							
Total heater wattage [kW]	12.0	13.0	14.9	15.9	17.9	20.2	23.5	

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

*1) Smaller mold 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 molding 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 maximum injection pressure setting at high pressure filling mode option.

- There is a limitation in injection time setting and pack time setting, when high pressure filling mode option is selected. (Contact sales for detail)
- High pressure resistance barrel and nozzle are necessary, when high pressure filling option is selected. (Contact sales for detail)

*5) The machine without option.

*6) The pressure conversion is 1MPa=10kgf/cm².

*7) The molding condition might be limited by the resin. (Contact sales for detail)

