

α-S15iA Mechanical specifications



Clamping unit			
Clamping mechanism	Double toggle ●		
Tonnage [kN tonf]	150 15		
Maximum and minimum mould height [mm]	260-130		
Clamping stroke [mm]	160		
Locating ring diameter [mm]	Ø 60		
Tie bar spacing, H×V [mm]	260 × 235		
Platen size, H×V [mm]	355 × 340		
Minimum mould size, H×V [mm] *1	150 × 135		
Ejector stroke [mm]	50		
Maximum ejector force [kN tonf]	7 0.7		
Injection unit			
Screw diameter [mm]	14	16	18
Injection stroke [mm]	56	56	75
Max. injection volume [cm ³]	9	11	19
Nozzle touch force [kN tonf]	5 0.5		
Max. Injection Speed mm/s *3	525		
Max. injection pressure [MPa] *2	250	250	230
Max. pack pressure [MPa] *2	250	230	190
Max. injection rate [cm ³ /s] *3	80	105	133
Max. screw rotation speed [min ⁻¹]	450		
Machine weight [t] *5	≈ 1.45		
Max. Injection Speed mm/s *3	800		
Max. injection pressure [MPa] *2	250	250	230
Max. pack pressure [MPa] *2	250	230	190
Max. injection rate [cm ³ /s] *3	123	160	203
Max. screw rotation speed [min ⁻¹]	450		
Machine weight [t] *5	≈ 1.5		
Screw and Barrel			
Number of heater [Barrel]	3		
Number of heater [Nozzle]	1		
Total heater wattage [kW]	2.4	2.8	3.1

● 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=10kgf/cm².

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

