

α-S30iA Mechanical specifications



Clamping unit					
Clamping mechanism	Double toggle				
Tonnage [kN tonf]	300 30				
Maximum and minimum mold height [mm]	330-150				
Clamping stroke [mm]	230				
Locating ring diameter [mm]	Ø 100				
Tie bar spacing, HxV [mm]	310 × 290				
Platen size, HxV [mm]	440 × 420				
Minimum mold size, HxV [mm] *1	175 × 165				
Ejector stroke [mm]	60				
Maximum ejector force [kN tonf]	8 0.8				
Injection unit					
Screw diameter [mm]	14	16	18	20	22
Injection stroke [mm]	56	56	75	75	75
Max. injection volume [cm ³]	9	11	19	24	29
Nozzle touch force [kN tonf]	9 0.9				
Max. Injection Speed mm/s *4					
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	-	330	330	-	-
Maximum injection pressure [MPa] *3	250	250	260	270	220
Max. pack pressure [MPa] *3	250	250	260	250	200
Max. injection rate [cm ³ /s] *4	80	105	133	164	199
Max. screw rotation speed [min ⁻¹]	450				
Machine weight [t] *5	≈ 2.0				
Max. Injection Speed mm/s *4					
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	-	-	300	-	-
Maximum injection pressure [MPa] *3	250	250	260	270	220
Max. pack pressure [MPa] *3	250	250	260	250	200
Max. injection rate [cm ³ /s] *4	122	160	202	250	303
Max. screw rotation speed [min ⁻¹]	450				
Machine weight [t] *5	≈ 2.0				
Screw and Barrel					
Number of heater [Barrel]	3				
Number of heater [Nozzle]	1				
Total heater wattage [kW]	2.4	2.8	3.1	3.5	3.8

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

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

*2) 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)

*3) 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.

*4) 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.

*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)

α -S30iA Dimensions

