

α-S300iA Mechanical specifications



Clamping unit										
Clamping mechanism	Double toggle ●									
Tonnage [kN tonf]	3000 300 (3500 350)									
Maximum and minimum die height Doubleplatten [mm]	650-300 (750-300)									
Maximum and minimum die height Singleplatten [mm]	-									
Clamping stroke [mm]	600									
Locating ring diameter [mm]	Ø 160									
Tie bar spacing, HxV [mm]	810 x 710									
Platen size, HxV [mm]	1130 x 1030									
Minimum mould size, HxV [mm] *1	470 x 420									
Ejector stroke [mm]	200									
Maximum ejector force [kN tonf]	80 8.0									
Injection unit										
Screw diameter [mm]	40	44	48	52	56	64	68	72	*7	
Injection stroke [mm]	150	176	176	208	260	260	260	260		
Max. injection volume [cm ³]	180	268	318	442	640	836	944	1059		
Nozzle touch force [kN tonf]	30 3.0									
Max. Injection Speed mm/s *3	240									
Max. injection pressure (high-pressure filling mode) [MPa] *2 *4	-	-	-	-	-	-	-	-	-	
Max. injection pressure [MPa] *2	280	280	270	240	225	175	155	135		
Max. pack pressure [MPa] *2	280	260	240	220	195	150	130	120		
Max. injection rate [cm ³ /s] *3	302	365	434	510	591	772	872	977		
Max. screw rotation speed [min ⁻¹]	400									
Machine weight Doubleplatten Singleplatten [t] *5	≈ 14.2									
Max. Injection Speed mm/s *4	270									
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	-	-	-	-	-	-	-	-	-	
Max. injection pressure [MPa] *3	280	260	230	200	172	-	-	-	-	
Max. pack pressure [MPa] *3	280	260	230	200	172	-	-	-	-	
Max. injection rate [cm ³ /s] *4	339	411	489	573	665	-	-	-	-	
Max. screw rotation speed [min ⁻¹]	400				300			-	-	
Machine weight Doubleplatten Singleplatten [t] *5	≈ 13.7									
Screw and Barrel										
Number of heater [Barrel]	3				4					
Number of heater [Nozzle]	1									
Total heater wattage [kW]	16.1	17.5	20.5	21.2	23.9	27.2	27.8	27.2		
	14.9	15.9	17.9	20.2	23.5	-	-	-		

● 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 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 moulding condition might be limited by the resin. (Contact sales for detail)

α-S300iA Dimensions

