

α-S100iA Mechanical specifications



Clamping unit							
Clamping mechanism	Double toggle						
Tonnage [kN tonf]	● 1000 100 (1250 125)						
Maximum and minimum die height Doubleplaten [mm]	450-150 (550-150)						
Maximum and minimum die height Singleplaten [mm]	520-220 (620-220)						
Clamping stroke [mm]	350						
Locating ring diameter [mm]	∅ 125						
Tie bar spacing, H×V [mm]	460 x 410						
Platen size, H×V [mm]	660 x 610						
Minimum mold size, H×V [mm] *1	265 x 240						
Ejector stroke [mm]	100						
Maximum ejector force [kN tonf]	25 2.5						
Injection unit							
Screw diameter [mm]	22	26	28	32	36	40	*7
Injection stroke [mm]	75	95	95	128	144	144	
Max. injection volume [cm ³]	29	50	58	103	147	181	
Nozzle touch force [kN tonf]	15 1.5						
Max. Injection Speed mm/s *4							
200							
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	-	-	-	-	-	-	
Max. injection pressure [MPa] *3	260	260	240	220	190	160	
Max. pack pressure [MPa] *3	260	260	220	200	170	140	
Max. injection rate [cm ³ /s] *4	76	106	123	161	204	251	
Max. screw rotation speed [min ⁻¹]	300						
Machine weight Doubleplaten Singleplaten [t] *5	4.4 ≈ 4.25						
Max. Injection Speed mm/s *4							
330							
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	340	340	320	270	220	-	
Max. injection pressure [MPa] *3	260	260	240	220	190	160	
Max. pack pressure [MPa] *3	260	260	220	200	170	140	
Max. injection rate [cm ³ /s] *4	125	175	203	265	336	415	
Max. screw rotation speed [min ⁻¹]	450						
Machine weight Doubleplaten Singleplaten [t] *5	4.4 ≈ 4.25						
Max. Injection Speed mm/s *4							
500							
Max. injection pressure (high-pressure filling mode) [MPa] *2 *3	340	320	280	-	-	-	
Max. injection pressure [MPa] *3	260	260	240	220	170	-	
Max. pack pressure [MPa] *3	260	260	220	200	170	-	
Max. injection rate [cm ³ /s] *4	190	265	308	402	509	-	
Max. screw rotation speed [min ⁻¹]	450						
Machine weight Doubleplaten Singleplaten [t] *5	4.55 ≈ 4.4						
Screw and Barrel							
Number of heater [Barrel]	3						
Number of heater [Nozzle]	1						
Total heater wattage [kW]	3.8	6.5	7.2	8.4	9.1	9.9	

● 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-S100iA Dimensions

