

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, HxV [mm]	460 x 410					
Platen size, HxV [mm]	660 x 610					
Minimum mould size, HxV [mm] *1	265 x 240					
Ejector stroke [mm]	100					
Maximum ejector force [kN tonf]	25 2.5 Increased 60 6.0 (Option)					
Injection unit						
Screw diameter [mm]	22	26	28	32	36	40
Injection stroke [mm]	75	95	95	128	144	144
Max. injection volume [cm ³]	29	50	58	103	147	181*7
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*7
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*7
Max. pack pressure [MPa] *3	260	260	220	200	170	140*7
Max. injection rate [cm ³ /s] *4	125	175	203	265	336	415*7
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 mould 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 moulding 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 moulding condition might be limited by the resin. (Contact sales for detail)

α-S100iA Dimensions

