

α-S220iA Mechanical specifications



Clamping unit						
Clamping mechanism	Double toggle					
Tonnage [kN tonf]	● 2200 220					
Maximum and minimum mould height [mm]	650-250 (750-250)					
Clamping stroke [mm]	550					
Locating ring diameter [mm]	Ø 160					
Tie bar spacing, H×V [mm]	650 × 650					
Platen size, H×V [mm]	900 × 900					
Minimum mould size, H×V [mm] *1	375 × 375					
Ejector stroke [mm]	150					
Maximum ejector force [kN tonf]	Standard 35 (3.5tonf) / Increased 80 (8.0tonf) (Option)					
Injection unit						
Screw diameter [mm]	32*7	36*7	40*7	44*7	48*7	52*7
Injection stroke [mm]	150	176	176	176	176	208
Max. injection volume [cm ³]	121	179	221	268	318	442
Nozzle touch force [kN tonf]	30 3.0					
Max. Injection Speed mm/s *3						
200						
Max. injection pressure [MPa] *2	190	190	190	190	190	160*8
Max. pack pressure [MPa] *2	160	160	160	160	160	130*8
Max. injection rate [cm ³ /s] *3	160	203	251	304	361	424
Max. screw rotation speed [min ⁻¹]	300					
Max. Injection Speed mm/s *3						
330						
Max. injection pressure [MPa] *4 <small>(High pressure filling mode)</small>	380	345	280	-	-	-
Max. injection pressure [MPa] *2	280	280	260	220	190	160*8
Max. pack pressure [MPa] *2	280	280	260	220	190	160*8
Max. injection rate [cm ³ /s] *3	265	335	414	501	597	700
Max. screw rotation speed [min ⁻¹]	400					
Machine weight [t] *4	Inj. speed 200mm/s 8.7 (Approximately) - Inj. speed 330mm/s 8.7 (Approximately)					
Screw and Barrel						
Number of heater [Barrel]	3					
Number of heater [Nozzle]	1					
Total heater wattage [kW]	12.0	13.0	14.9	15.9	17.9	20.2

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

*1) Smaller mold 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 molding 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) After shipment, the machine equipped with screw diameter φ32-φ36mm cannot install φ40-φ52mm.

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

α-S220iA Dimensions

