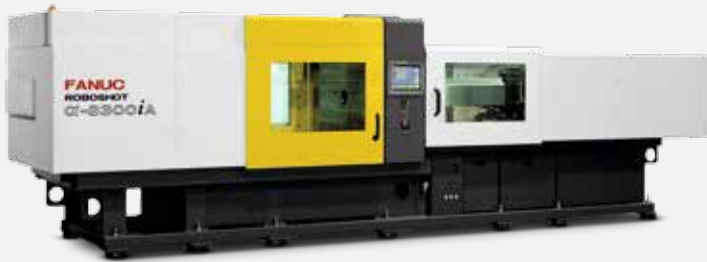


α-S300iA Mechanical specifications



Clamping unit									
Clamping mechanism	Double toggle ●								
Tonnage [kN tonf]	3000 300 (3500 350)								
Maximum and minimum die height Doubleplaten [mm]	650-300 (750-300)								
Maximum and minimum die height Singleplaten [mm]	-								
Clamping stroke [mm]	600								
Locating ring diameter [mm]	Ø 160								
Tie bar spacing, H×V [mm]	810 × 710								
Platen size, H×V [mm]	1130 × 1030								
Minimum mold size, H×V [mm] *1)	470 × 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									
Max. injection pressure (high-pressure filling mode) [MPa] *2	-	-	-	-	-	-	-	-	-
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] *2	302	365	434	510	591	772	872	977	
Max. screw rotation speed [min ⁻¹] *2	400								
Machine weight [t] *5	≈ 14.2								
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	

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

α-S300iA Dimensions

