

α-S150iB (small capacity)

Mechanical specifications



Clamping unit						
Clamping mechanism	5 Point double toggle					
Tonnage [kN tonf]	1500 150 Increased (1800 180)					
Maximum and minimum die height Double platen [mm]	500-200 Increased (600-200)					
Maximum and minimum die height Single platen [mm]	575-275 Increased (675-275)					
Clamping stroke [mm]	440					
Locating ring diameter [mm]	Ø 160					
Tie bar spacing, HxV [mm]	560 x 510					
Platen size, HxV [mm]	800 x 750					
Minimum mould size, HxV [mm] *1	325 x 300					
Maximum mold weight Double platen Single platen (Moving-Stationary) *2	800 - 800 1060 - 800					
Ejector stroke [mm]	150					
Maximum ejector force [kN tonf]	35 3.5 Increased (80 8.0)					
Injection unit						
Screw diameter [mm]	22	26	28	32	36	40 *11
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] *6	35 3.5 Increased (80 8.0)					
Max. Injection Speed mm/s *4						
350						
Max. injection pressure (high-pressure filling mode) [MPa] *3*5	340	340	320	270	220	-
Max. injection & Hold Pressure 1 [MPa] *3*6	290	290	270	250	190	160
Max. injection & Hold Pressure 2 [MPa] *3*7	260	260	240	220	190	160
Max. injection rate [cm ³ /s] *4	133	185	215	281	356	439
Max. screw rotation speed [min ⁻¹]	400					
Machine weight Double platen Single platen [t] *9	6.4 ≈ 6.15					
Max. Injection Speed mm/s *4						
550						
Max. injection pressure (high-pressure filling mode) [MPa] *3*5	340	-	-	-	-	-
Max. injection & Hold Pressure 1 [MPa] *3*6	290	260	220	170	-	-
Max. injection & Hold Pressure 2 [MPa] *3*7	260	260	220	170	-	-
Max. injection rate [cm ³ /s] *4	209	292	338	442	-	-
Max. screw rotation speed [min ⁻¹]	450					
Machine weight Double platen Single platen [t] *9	6.4 ≈ 6.15					
Screw and Barrel						
Number of heater zones [Barrel]	3					
Number of pyrometers [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) If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
- *3) Maximum injection pressure and maximum hold pressure are the output of the injection unit, not the resin pressure.
 - Maximum injection pressure and maximum pack pressure are the maximum values that can be set.
- *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 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)
- *6) Maximum injection pressure 1 and maximum hold pressure 1 are the values when the wear-resistant and anti-corrosion cylinder etc. is installed.
 - Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and cylinder specifications.
- *7) Maximum injection pressure 2 and maximum hold pressure 2 are the values when the general purpose cylinder etc. is installed.
 - Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and cylinder specifications.
- *8) Sprue break cannot be used with increased nozzle touch force option.
- *9) The machine without option.
- *10) The pressure conversion is 1MPa=10kgf/cm².
- *11) The molding condition might be limited by the resin. (Contact sales for detail)
- *12) In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

α-S150iB (small capacity) Dimensions / Clamp layout

