

α-S150iA (small capacity) Mechanical specifications



Clamping unit							
Clamping mechanism	Double toggle						
Tonnage [kN tonf]	1500 150 (1800 180)						
Maximum and minimum die height Doubleplaten [mm]	500-200 (600-200)						
Maximum and minimum die height Singleplaten [mm]	575-275 (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						
Ejector stroke [mm]	150						
Maximum ejector force [kN tonf]	35 3.5						
Injection unit							
Screw diameter [mm]	22	26	28	32	48	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 *3	330						
Max. injection pressure (high-pressure filling mode) [MPa] *2*4	340	340	320	270	220	-	
Max. injection pressure [MPa] *2	260	260	240	220	190	160	
Max. pack pressure [MPa] *2	260	260	220	200	170	140	
Max. injection rate [cm ³ /s] *3	125	175	203	265	335	414	
Max. screw rotation speed [min ⁻¹]	450						
Machine weight Doubleplaten Singleplaten [t] *5	6.4 ≈ 6.15						
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	307	402	508	-	
Max. screw rotation speed [min ⁻¹]	450						
Machine weight Doubleplaten Singleplaten [t] *5	6.55 ≈ 6.3						
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 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.

*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 moulding condition might be limited by the resin. (Contact sales for detail)

α-S150iA (small capacity) Dimensions

