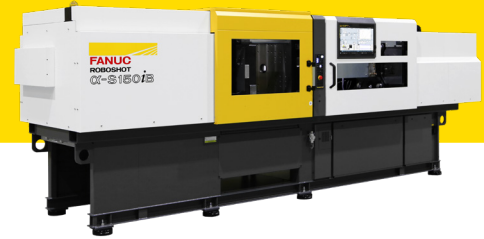


α-S150iB (small capacity)

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

