

# α-S220iB

## Mechanical specifications



<b>Clamping unit</b>								
Clamping mechanism	5 Point double toggle							
Tonnage [kN   tonf]	2200   220							
Maximum and minimum die height Single platen [mm]	650-250 Increased (750-250)							
Clamping stroke [mm]	550							
Locating ring diameter [mm]	Ø 160							
Tie bar spacing, HxV [mm]	650 x 650							
Platen size, HxV [mm]	900 x 900							
Minimum mould size, HxV [mm] *1	375 x 375							
Maximum mold weight Single platen (Moving-Stationary) *2	1500 - 1500							
Ejector stroke [mm]	150							
Maximum ejector force [kN   tonf]	35   3.5 Increased (80   8.0)							
<b>Injection unit</b>								
Screw diameter [mm]	32	36	40	44	48	52 *11	56 *11	
Injection stroke [mm]	150	150	150	176	176	208	208	
Max. injection volume [cm <sup>3</sup> ]	121	153	188	268	318	442	512	
Nozzle touch force [kN   tonf] *6	30   3.0 (50   5.0)							
<b>Max. Injection Speed mm/s *4</b>								
	<b>220</b>							
Max. injection & Hold Pressure 1 [MPa] *3 *6	310	310	260	220	190	160	-	
Max. injection & Hold Pressure 2 [MPa] *3 *7	280	280	260	220	190	160	-	
Max. injection rate [cm <sup>3</sup> /s] *4	160	203	251	304	361	424	-	
Max. screw rotation speed [min <sup>-1</sup> ]	300							
Machine weight Single platen [t] *9	8.7							
<b>Max. Injection Speed mm/s *4</b>								
	<b>350</b>							
Max. injection pressure (high-pressure filling mode) [MPa] *3 *5	380	345	-	-	-	-	-	
Max. injection & Hold Pressure 1 [MPa] *3 *6	310	310	280	240	190	160	140	
Max. injection & Hold Pressure 2 [MPa] *3 *7	280	280	260	220	190	160	140	
Max. injection rate [cm <sup>3</sup> /s] *4	281	356	439	532	633	743	862	
Max. screw rotation speed [min <sup>-1</sup> ]	400							
Machine weight Double platen   Single platen [t] *9	8.85							
<b>Screw and Barrel</b>								
Number of heater zones [Barrel]	3							
Number of pyrometers [Nozzle]	1							
Total heater wattage [kW]	12.0	13.0	14.9	15.9	17.9	20.2	23.5	

- 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/cm<sup>2</sup>.

\*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)

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## Dimensions / Clamp layout

