

α-S220iB

Mechanical specifications



Clamping unit									
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 *1	mm	375 x 375							
Maximum mould weight Single platen (Moving-Stationary) *2	kg	1500-1500							
Ejector stroke	mm	150							
Maximum ejector force	kN tonf	35 3.5 / Increased (80 8.0)							
Injection unit									
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 ³	121	153	188	268	318	442	512	
Nozzle touch force *6	kN tonf	30 3.0 (50 5.0)							
Max. Injection Speed mm/s *4	mm/s	200							
Max. injection & Hold Pressure 1 [MPa] *3 *6	MPa	310	310	260	220	190	160	-	
Max. injection & Hold Pressure 2 [MPa] *3 *7	MPa	280	280	260	220	190	160	-	
Max. injection rate [cm ³ /s] *4	cm ³ /s	160	203	251	304	361	424	-	
Max. screw rotation speed [min ⁻¹]	min ⁻¹	300							
Machine weight Double platen Single platen [t] *9	t	8.7							
Max. Injection Speed *4	mm/s	270 (high duty)							
Max. injection pressure (high-pressure filling mode) *3 *5	MPa	380	345	320	280	-	-	-	
Max. injection & Hold Pressure 1 *3 *6	MPa	310	310	280	260	230	200	172	
Max. injection & Hold Pressure 2 *3 *7	MPa	280	280	280	260	230	200	172	
Max. injection rate *4	cm ³ /s	217	274	339	410	488	573	665	
Max. screw rotation speed	min ⁻¹	400							
Machine weight Double platen Single platen *9	t	8.85							
Max. Injection Speed *4	mm/s	350							
Max. injection pressure (high-pressure filling mode) *3 *5	MPa	380	345	-	-	-	-	-	
Max. injection & Hold Pressure 1 *3 *6	MPa	310	310	280	240	190	160	140	
Max. injection & Hold Pressure 2 *3 *7	MPa	280	280	260	220	190	160	140	
Max. injection rate *4	cm ³ /s	281	356	439	532	633	743	862	
Max. screw rotation speed	min ⁻¹	400							
Machine weight Double platen Single platen *9	t	8.85							
Screw and Barrel									
Number of heater zones	Barrel	3							4
Number of pyrometers	Nozzle	1							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 hold 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 hold 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 hold 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)

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Dimensions / Clamp layout

