

α-S130iB

Mechanical specifications



Clamping unit						
Clamping mechanism		5 Point double toggle				
Tonnage	kN tonf	1300 130				
Maximum and minimum die height Single platen	mm	570-200 / Increased (670-200)				
Clamping stroke	mm	400				
Locating ring diameter	mm	Ø 125				
Tie bar spacing, HxV	mm	530 x 530				
Platen size, HxV	mm	730 x 730				
Minimum mould size, HxV *1	mm	300 x 300				
Maximum mould weight Single platen (Moving-Stationary) *2	kg	750-750				
Ejector stroke	mm	100				
Maximum ejector force	kN tonf	25 2.5 / Increased (60 6.0)				
Injection unit						
Screw diameter	mm	26	28	32	36	40 *11
Injection stroke	mm	95	95	128	144	144
Max. injection volume	cm ³	50	58	103	147	181
Nozzle touch force *6	kN tonf	15 1.5 / Increased (30 3.0)				
Max. Injection Speed *4	mm/s	200				
Max. injection pressure (high-pressure filling mode) *3 *5	MPa	340	320	270	220	-
Max. injection & Hold Pressure 1 *3 *6	MPa	290	270	250	190	160
Max. injection & Hold Pressure 2 *3 *7	MPa	260	240	220	190	160
Max. injection rate *4	cm ³ /s	106	123	160	203	251
Max. screw rotation speed	min ⁻¹	300				
Machine weight Single platen *7	t	4.9				
Max. Injection Speed *4	mm/s	-	-	200 (high duty)		
Max. injection pressure (high-pressure filling mode) *3 *5	MPa	-	-	270	220	-
Max. injection & Hold Pressure 1 *3 *6	MPa	-	-	250	200	180
Max. injection & Hold Pressure 2 *3 *7	MPa	-	-	220	200	180
Max. injection rate *4	cm ³ /s	-	-	160	203	251
Max. screw rotation speed	min ⁻¹	-	-	450		
Machine weight Single platen *7	t	4.9				
Max. Injection Speed *4	mm/s	350				
Max. injection pressure (high-pressure filling mode) *3 *5	MPa	340	320	270	220	-
Max. injection & Hold Pressure 1 *3 *6	MPa	290	270	250	190	160
Max. injection & Hold Pressure 2 *3 *7	MPa	260	240	220	190	160
Max. injection rate *4	cm ³ /s	185	215	281	356	439
Max. screw rotation speed	min ⁻¹	450				
Machine weight Single platen *2	t	4.9				
Screw and Barrel						
Number of heater zones	Barrel	3				
Number of pyrometers	Nozzle	1				
Total heater wattage	kW	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 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)

