α-S30iB Mechanical specifications

Clamping unit						
Clamping mechanism		Double toggle				
Tonnage	kN | tonf	300 | 30				
Maximum and minimum die height Double platen	mm	330-150				
Clamping stroke	mm	230				
Locating ring diameter	mm	Ø 100				
Tie bar spacing, H×V	mm	310 x 290				
Platen size, H×V	mm	440 x 420				
Minimum mould size, H×V *1	mm	175 x 165				
Maximum mould weight Double platen (Moving-Stationary) *2	kg	150-150				
Ejector stroke	mm	60				
Maximum ejector force	kN | tonf	8 | 0.8				
Injection unit						
Screw diameter	mm	14	16	18	20	22
Injection stroke	mm	56	56	75	75	75
Max. injection volume *3	cm^3	9	11	19	24	29
Nozzle touch force *8	kN | tonf	9 | 0.9				
Max. Injection Speed *5	**mm/s**	**600**				
Max. injection pressure (high-pressure filling mode) *4 *6	MPa	-	330	300	-	-
Max. injection & Hold Pressure 1 *3 *6	MPa	250	280	280	270	220
Max. injection & Hold Pressure 2 *3 *7	MPa	250	250	260	270	220
Max. injection rate *5	cm^3/s	92	120	152	188	228
Max. screw rotation speed	min^{-1}	450				
Machine weight Double platen | Single platen *9	t	≈ 2.0				
Screw and Barrel						
Number of heater zones	Barrel	3				
Number of pyrometers	Nozzle	1				
Total heater wattage	kW	2.4	2.8	3.1	3.5	3.8

● 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 holding 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-S30iB Dimensions / Clamp layout