

# α-S300iB

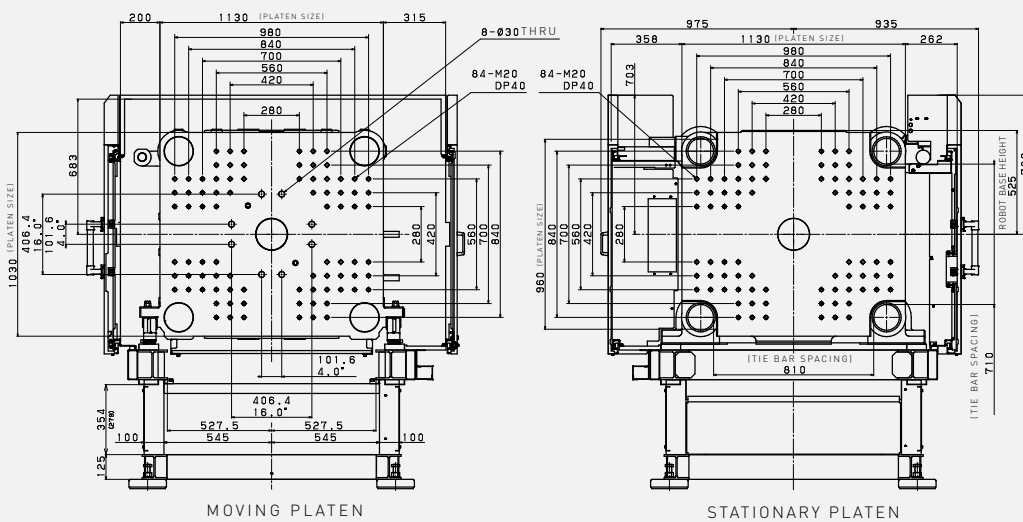
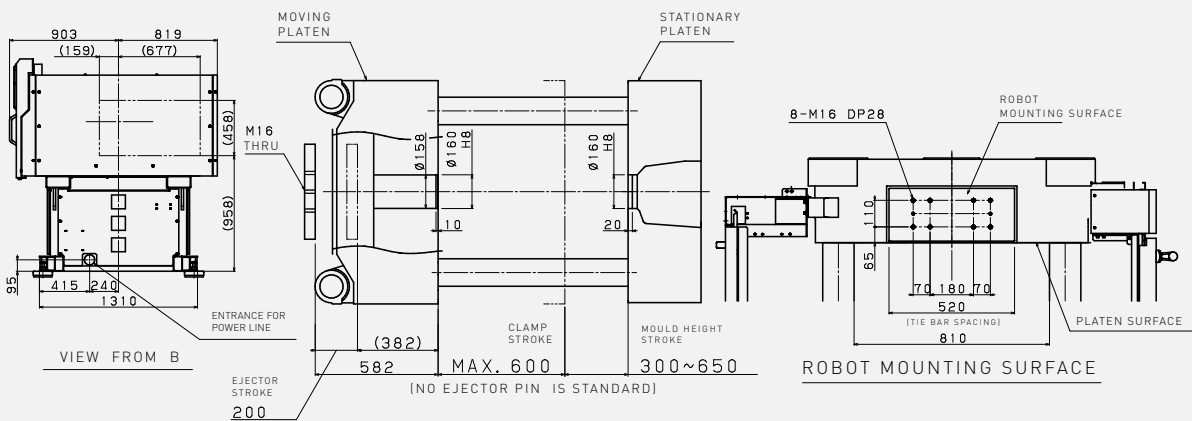
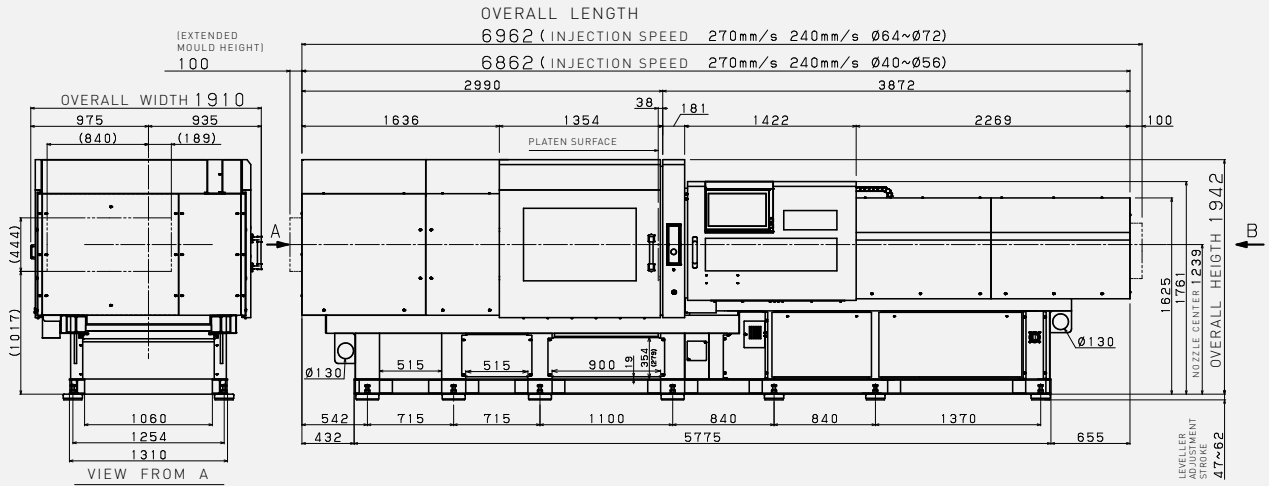
## Mechanical specifications



Clamping unit										
Clamping mechanism		Double toggle								
Tonnage	kN   tonf	3000   300 / Increased (3500   350)								
Maximum and minimum die height Single platen	mm	650-300 / Increased (750-300)								
Clamping stroke	mm	600								
Locating ring diameter	mm	Ø 160								
Tie bar spacing, HxV	mm	810 x 710								
Platen size, HxV	mm	1130 x 1030								
Minimum mould size, HxV *1	mm	470 x 420								
Maximum mould weight Single platen (Moving-Stationary) *2	kg	2400-2400								
Ejector stroke	mm	200								
Maximum ejector force	kN   tonf	80   8.0								
Injection unit										
Screw diameter	mm	40	44	48	52	56	64	68	72 *11	
Injection stroke	mm	150	176	176	208	260	260	260	260	
Max. injection volume	cm <sup>3</sup>	188	268	318	442	640	836	944	1059	
Nozzle touch force *6	kN   tonf	30   3.0 / Increased (50   5.0)								
Max. Injection Speed mm/s *4	mm/s	240 (high duty)								
Max. injection & Hold Pressure 1 *3*6	MPa	280	280	270	240	225	175	155	135	
Max. injection & Hold Pressure 2 *3*7	MPa	280	280	270	240	225	175	155	135	
Max. injection rate *4	cm <sup>3</sup> /s	301	364	434	509	591	772	871	977	
Max. screw rotation speed	min <sup>-1</sup>	400								
Machine weight Double platen   Single platen *9	t	14.2								
Max. Injection Speed *4	mm/s	270								
Max. injection & Hold Pressure 1 *3*6	MPa	280	280	270	240	225	175	155	135	
Max. injection & Hold Pressure 2 *3*7	MPa	280	280	270	240	225	175	155	135	
Max. injection rate *4	cm <sup>3</sup> /s	339	410	488	573	665	868	980	1099	
Max. screw rotation speed	min <sup>-1</sup>	400								
Machine weight Double platen   Single platen *9	t	14.2								
Screw and Barrel										
Number of heater zones	Barrel	3			4					
Number of pyrometers	Nozzle	1								
Total heater wattage	kW	17.0	18.4	20.2	21.7	26.9	28.1	28.1	27.5	

● 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/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)



In case of the tiebarbusless clamping specification is selected, this value is applied.