

# 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 [mm] *1	300 x 300				
Maximum mold weight Single platen (Moving-Stationary) *2	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 <sup>3</sup> ]	50	58	103	147	181
Nozzle touch force [kN   tonf] *6	15   1.5 Increased (30   3.0)				
<b>Max. Injection Speed mm/s *4</b>	<b>200</b>				
Max. injection pressure (high-pressure filling mode) [MPa] *3 *5	340	320	270	220	-
Max. injection & Hold Pressure 1 [MPa] *3 *6	290	270	250	190	160
Max. injection & Hold Pressure 2 [MPa] *3 *7	260	240	220	190	160
Max. injection rate [cm <sup>3</sup> /s] *4	106	123	160	203	251
Max. screw rotation speed [min <sup>-1</sup> ]	300				
Machine weight Single platen [t] *7	4.9				
<b>Max. Injection Speed mm/s *4</b>	<b>350</b>				
Max. injection pressure (high-pressure filling mode) [MPa] *3 *5	340	320	270	220	-
Max. injection & Hold Pressure 1 [MPa] *3 *6	290	270	250	190	160
Max. injection & Hold Pressure 2 [MPa] *3 *7	260	240	220	190	160
Max. injection rate [cm <sup>3</sup> /s] *4	185	215	281	356	439
Max. screw rotation speed [min <sup>-1</sup> ]	450				
Machine weight Single platen [t] *2	4.9				
<b>Max. Injection Speed mm/s *4</b>	<b>550</b>				
Max. injection & Hold Pressure 1 [MPa] *3 *6	260	220	170	-	-
Max. injection & Hold Pressure 2 [MPa] *3 *7	260	220	170	-	-
Max. injection rate [cm <sup>3</sup> /s] *4	292	338	442	-	-
Max. screw rotation speed [min <sup>-1</sup> ]	450				
Machine weight Single platen [t] *2	4.9				
<b>Screw and Barrel</b>					
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 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)

