

α-S50iA Mechanical specifications



| Clamping unit | | | | | |
|--|---------------------|-----|-----|-----|-------|
| Clamping mechanism | Double toggle | | | | |
| Tonnage [kN tonf] | 500 50 (650 65) | | | | |
| Maximum and minimum die height Doubleplaten [mm] | 350-150 (400-150) | | | | |
| Maximum and minimum die height Singleplaten [mm] | 410-210 (460-210) | | | | |
| Clamping stroke [mm] | 250 | | | | |
| Locating ring diameter [mm] | ∅ 125 | | | | |
| Tie bar spacing, HxV [mm] | 360 x 320 | | | | |
| Platen size, HxV [mm] | 500 x 470 | | | | |
| Minimum mold size, HxV [mm] *1 | 205 x 185 | | | | |
| Ejector stroke [mm] | 70 | | | | |
| Maximum ejector force [kN tonf] | 20 2.0 | | | | |
| Injection unit | | | | | |
| Screw diameter [mm] | 20 | 22 | 26 | 28 | 32 *7 |
| Injection stroke [mm] | 75 | 75 | 95 | 95 | 95 |
| Max. injection volume [cm ³] | 24 | 29 | 50 | 58 | 76 |
| Nozzle touch force [kN tonf] | 15 1.5 | | | | |
| Max. Injection Speed mm/s *4 | 330 | | | | |
| Max. injection pressure (high-pressure filling mode) [MPa] *2 *3 | 360 | 340 | 290 | 250 | - |
| Max. injection pressure [MPa] *3 | 280 | 260 | 210 | 190 | 150 |
| Max. pack pressure [MPa] *3 | 280 | 240 | 190 | 160 | 130 |
| Max. injection rate [cm ³ /s] *4 | 104 | 125 | 175 | 203 | 265 |
| Max. screw rotation speed [min ⁻¹] | 450 | | | | |
| Machine weight Doubleplaten Singleplaten [t] *2 | 2.9 ≈ 2.85 | | | | |
| Max. Injection Speed mm/s *4 | 500 | | | | |
| Max. injection pressure (high-pressure filling mode) [MPa] *2 *3 | 360 | 340 | 275 | 240 | - |
| Max. injection pressure [MPa] *3 | 280 | 260 | 210 | 190 | - |
| Max. pack pressure [MPa] *3 | 280 | 240 | 190 | 160 | - |
| Max. injection rate [cm ³ /s] *4 | 157 | 190 | 265 | 308 | - |
| Max. screw rotation speed [min ⁻¹] | 450 | | | | |
| Machine weight Doubleplaten Singleplaten [t] *2 | 3.1 ≈ 3.05 | | | | |
| Screw and Barrel | | | | | |
| Number of heater [Barrel] | 3 | | | | |
| Number of heater [Nozzle] | 1 | | | | |
| Total heater wattage [kW] | 3.5 | 3.8 | 6.5 | 7.2 | 8.4 |

● standard - not available () with hardware and/or software option

*1) Smaller mold than this size may limit clamp force.

*2) 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)
- High pressure resistance barrel and nozzle are necessary, when high pressure filling option is selected. (Contact sales for detail)

*3) The maximum injection pressure and maximum pack pressure is not melt pressure but injection unit output.

- The maximum injection pressure and maximum pack pressure is the maximum value can be set.
- The maximum injection pressure and maximum pack pressure might be limited depending on the molding condition.

*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 machine without option.

*6) The pressure conversion is 1MPa=10kgf/cm².

*7) After shipment, the machine equipped with screw diameter φ20-φ28mm cannot install φ32mm.

- The machine equipped with screw diameter φ32mm can install φ26-φ32mm and cannot install φ20mm and φ22mm.
- The molding condition might be limited by the resin. (Contact sales for detail)

α -S50iA Dimensions

