

Performance Table

| Unit | Item | Model | J850ELⅢ | | | | | |
|----------------|---------------------------------|-------------------------------|-----------------------|---------------|-----------------|---------------|-----------------|---------------|
| | | | 3100H | | 3900H | | 5200H | |
| Injection Unit | Screw cylinder type | | A | B | A | B | A | B |
| | Screw diameter | mm | 92 | 100 | 100 | 110 | 110 | 120 |
| | Screw stroke | mm | 460 | | 500 | | 550 | |
| | Theoretical injection capacity | cm ³ | 3058 | 3613 | 3927 | 4752 | 5227 | 6220 |
| | Injection capacity (GP-PS) | g | 2783 | 3288 | 3574 | 4324 | 4757 | 5660 |
| | Injection pressure (Max.) | MPa {kgf/cm ² } | 185 {1880} | 156 {1590} | 185 {1880} | 153 {1560} | 172 {1750} | 144 {1460} |
| | Holding pressure (Max.) | MPa {kgf/cm ² } | 167 {1700} | 140 {1420} | 167 {1700} | 138 {1400} | 155 {1580} | 130 {1320} |
| | Injection speed | mm/s | 160 | | 160 | | 160 | |
| | Injection rate | cm ³ /s | 1064 | 1257 | 1257 | 1521 | 1521 | 1810 |
| | Plasticizing rate (GP-PS) | kg/h | 470 | 580 | 500 | 620 | 580 | 720 |
| | Screw speed | min ⁻¹ | 165 | | 140 | | 130 | |
| | Nozzle touch force | kN {tf} | 59.0 {6.0} | | 59.0 {6.0} | | 59.0 {6.0} | |
| | Nozzle stroke from platen | mm | 50 | | | | | |
| | Type of nozzle | | Open nozzle | | | | | |
| | Cylinder temperature control | | Cylinder 4 / Nozzle 1 | | | | | |
| Heater wattage | kW | 45.2 | | 47.0 | | 55.0 | | |
| Clamping Unit | Mechanism | | Double toggle | | | | | |
| | Clamping force | kN {tf} | 8340 {850} | | | | | |
| | Daylight opening (Max.) | mm | 2300 | | | | | |
| | Opening stroke (Max.) | mm | 1200 | | | | | |
| | Mold height | mm | 500~1100 | | | | | |
| | Distance between tie-bars (H×V) | mm | 1060×1060 | | | | | |
| | Platen size (H×V) | mm | 1590×1590 | | | | | |
| | Ejector type | | 29 points | | | | | |
| | Ejector force | kN {tf} | 230 {23.5} | | | | | |
| | Ejector stroke | mm | 200 | | | | | |
| General | Machine weight | t | 51 | | 54 | | 54 | |
| | Machine dimensions (L×W×H) | m | 11.06×2.49×2.63 | | 11.56×2.49×2.63 | | 11.70×2.49×2.63 | |

Remarks:

1. Injection pressure of J-ELⅢ series is different from that of JSW's hydraulic machines.
2. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
3. The theoretical injection capacity is (cross sectional area of cylinder) × (stroke of screw).
4. The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
5. The plasticizing rate is applicable for GP-PS.
6. PC (polycarbonate), HPVC, other engineering plastic, etc., low temperature setting and high speed molding may require a high torque depending on the grade or molding conditions. Please contact us if you plan.

Note:

1. Due to continual improvements, specifications are subject to change without notice.
2. Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3. Performance specifications are based on theoretical data.
4. 1MPa=10.2 kgf/cm², 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions

J850EL III

