

Performance Table

| Unit | Item | J85AD | | | | | | | | | |
|------------------------------|---|---|---|------------|-----------------------|------------|------------|----------------|------------|------------|------------|
| | | 30H | | | 60H | | | 110H | | | |
| Injection Unit | Screw cylinder type | K | A | B | K | A | B | K | A | B | |
| | Screw diameter mm | 20 | 22 | 25 | 25 | 28 | 32 | 32 | 35 | 40 | |
| | Screw stroke mm | 80 | | | 100 | | | 120 | | | |
| | Theoretical injection capacity cm ³ | 25 | 30 | 39 | 49 | 62 | 80 | 97 | 115 | 151 | |
| | Injection capacity (GP-PS) g | 23 | 28 | 38 | 45 | 56 | 73 | 88 | 105 | 137 | |
| | Standard | Injection pressure(Max.) MPa {kgf/cm ² } | 270 {2750} | 223 {2270} | 172 {1750} | 270 {2750} | 215 {2190} | 165 {1680} | 270 {2750} | 225 {2290} | 172 {1750} |
| | | Holding pressure(Max.) MPa {kgf/cm ² } | 245 {2490} | 203 {2070} | 157 {1600} | 245 {2490} | 195 {1980} | 150 {1530} | 245 {2490} | 205 {2090} | 157 {1600} |
| | | Injection speed mm/s | 350 | | | 350 | | | 350 | | |
| | | Injection rate cm ³ /s | 110 | 133 | 172 | 172 | 216 | 281 | 281 | 337 | 440 |
| | | Plasticizing rate (GP-PS) kg/h | 17 | 21 | 28 | 34 | 46 | 74 | 74 | 92 | 123 |
| | | Screw speed min ⁻¹ | 500 | | | 400 | | | 400 | | |
| | | High speed (HS) | Injection pressure(Max.) MPa {kgf/cm ² } | 270 {2750} | 223 {2270} | 172 {1750} | 270 {2750} | 215 {2190} | 165 {1680} | — | — |
| | Holding pressure(Max.) MPa {kgf/cm ² } | | 245 {2490} | 203 {2070} | 157 {1600} | 245 {2490} | 195 {1980} | 150 {1530} | — | — | — |
| | Injection speed mm/s | | 550 | | | 500 | | | — | | |
| | Injection rate cm ³ /s | | 173 | 209 | 270 | 245 | 308 | 402 | — | — | — |
| | Plasticizing rate (GP-PS) kg/h | | 17 | 21 | 28 | 34 | 46 | 74 | — | — | — |
| | Screw speed min ⁻¹ | | 500 | | | 400 | | | — | | |
| | Ultra speed (US) | Injection pressure(Max.) MPa {kgf/cm ² } | 270 {2750} | 223 {2270} | 172 {1750} | 270 {2750} | 215 {2190} | 165 {1680} | — | — | — |
| | | Holding pressure(Max.) MPa {kgf/cm ² } | 245 {2490} | 203 {2070} | 157 {1600} | 245 {2490} | 195 {1980} | 150 {1530} | — | — | — |
| | | Injection speed mm/s | 800 | | | 800 | | | — | | |
| | | Injection rate cm ³ /s | 251 | 304 | 393 | 393 | 493 | 643 | — | — | — |
| | | Plasticizing rate (GP-PS) kg/h | 17 | 21 | 28 | 34 | 46 | 74 | — | — | — |
| | Screw speed min ⁻¹ | 500 | | | 400 | | | — | | | |
| | Nozzle touch force kN {tf} | 14.8 {1.5} | | | 14.8 {1.5} | | | 19.7 {2.0} | | | |
| | Nozzle stroke from platen mm | 50 | | | | | | | | | |
| Type of nozzle | Open nozzle | | | | | | | | | | |
| Cylinder temperature control | Cylinder 3 / Nozzle 2 | | | | Cylinder 4 / Nozzle 2 | | | | | | |
| Heater wattage kW | 3.9 | | | 5.5 | | | 9.2 | | | | |
| Clamping Unit | Mechanism | Double toggle | | | | | | | | | |
| | Clamping force kN {tf} | 834 {85} | | | | | | | | | |
| | Daylight opening (Max.) mm | 710 | | | | | | | | | |
| | Opening stroke (Max.) mm | 300 | | | | | | | | | |
| | Mold height mm | 180~410 | | | | | | | | | |
| | Distance between tie-bars (H×V) mm | 410×360 | | | | | | | | | |
| | Platen size (H×V) mm | 580×530 | | | | | | | | | |
| | Ejector point | 5 points | | | | | | | | | |
| Ejector force kN {tf} | 32.4 {3.3} | | | | | | | | | | |
| Ejector stroke mm | 80 | | | | | | | | | | |
| General | Machine weight t | 3.9 | | | 3.9 | | | 4.0 | | | |
| | Machine dimensions (L×W×H) m | 4.14×1.12×1.59 | | | 4.14×1.12×1.59 | | | 4.35×1.12×1.62 | | | |

Remarks:

- Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
- The theoretical injection capacity is (cross sectional area of cylinder) × (stroke of screw).
- The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
- The plasticizing rate is applicable for GP-PS.
- PC, 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:

- Due to continual improvements, specifications are subject to change without notice.
- Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
- Performance specifications are based on theoretical data.
- High speed injection and Ultra speed injection are optional.
- 5.1MPa=10.2 kgf/cm², 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions

