

Performance Table

Unit	Item	J180AD									
		110H			180H			300H			
General Unit	Screw cylinder type	K	A	B	K	A	B	K	A	B	
	Screw diameter mm	32	35	40	35	40	45	40	46	51	
	Screw stroke mm	120			140			180			
	Theoretical injection capacity cm ³	97	115	151	135	176	223	226	299	368	
	Injection capacity (GP-PS) g	88	105	137	123	160	203	206	273	335	
	Standard	Injection pressure(Max.) MPa {kgf/cm ² }	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}	250 {2550}	189 {1920}	154 {1570}
		Holding pressure(Max.) MPa {kgf/cm ² }	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}	227 {2310}	172 {1750}	140 {1420}
		Injection speed mm/s	350			350			240		
		Injection rate cm ³ /s	281	337	440	337	440	557	302	399	490
		Plasticizing rate (GP-PS) kg/h	74	92	123	92	127	166	130	184	232
		Screw speed min ⁻¹	400			400			400		
		High speed (HS)	Injection pressure(Max.) MPa {kgf/cm ² }	—	—	—	—	—	—	250 {2550}	189 {1920}
	Holding pressure(Max.) MPa {kgf/cm ² }		—	—	—	—	—	—	227 {2310}	172 {1750}	140 {1420}
	Injection speed mm/s		—			—			330		
	Injection rate cm ³ /s		—	—	—	—	—	—	415	548	674
	Plasticizing rate (GP-PS) kg/h		—	—	—	—	—	—	130	184	232
	Screw speed min ⁻¹		—			—			400		
	Ultra speed (US)	Injection pressure(Max.) MPa {kgf/cm ² }	—	—	—	—	—	—	—	—	—
		Holding pressure(Max.) MPa {kgf/cm ² }	—	—	—	—	—	—	—	—	—
		Injection speed mm/s	—			—			—		
		Injection rate cm ³ /s	—	—	—	—	—	—	—	—	—
Plasticizing rate (GP-PS) kg/h		—	—	—	—	—	—	—	—	—	
Screw speed min ⁻¹	—			—			—				
Nozzle touch force kN {tf}	19.7 {2.0}			19.7 {2.0}			24.6 {2.5}				
Nozzle stroke from platen mm	50										
Type of nozzle	Open nozzle						Open nozzle (tip type)				
Cylinder temperature control	Cylinder 4 / Nozzle 2						Cylinder 4 / Nozzle 1				
Heater wattage kW	9.2			10.2			13.0				
Clamping Unit	Mechanism	Double toggle									
	Clamping force kN {tf}	1770 {180}									
	Daylight opening (Max.) mm	950									
	Opening stroke (Max.) mm	450									
	Mold height mm	200~500									
	Distance between tie-bars (H×V) mm	590×530									
	Platen size (H×V) mm	840×780									
	Ejector point	9 points									
	Ejector force kN {tf}	34.3 {3.5}									
Ejector stroke mm	130										
General	Machine weight t	9.0			9.0			9.5			
	Machine dimensions (L×W×H) m	5.22×1.36×1.92			5.22×1.36×1.92			5.51×1.36×1.92			

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

