

Performance Table

Unit	Item	Model	J1300AD			
			3900H		5200H	
Injection Unit	Screw barrel type		A	B	A	B
	Screw diameter	mm (in)	100 {3.94}	110 {4.33}	110 {4.33}	120 {4.72}
	Screw stroke	mm (in)	500 {19.685}		550 {21.654}	
	Theoretical injection capacity	cm ³ (in ³)	3927 {239.7}	4752 {290.0}	5227 {319.0}	6220 {379.6}
	Injection capacity (GP-PS)	g (oz)	3574 {126.1}	4324 {152.5}	4757 {167.8}	5660 {199.7}
	Injection pressure (Max.)	MPa (kgf/cm ²) {psi}	185 (1880) {26800}	153 (1560) {22100}	175 (1780) {25300}	147 (1490) {21300}
	Holding pressure (Max.)	MPa (kgf/cm ²) {psi}	167 (1700) {24200}	138 (1400) {20000}	158 (1610) {22900}	132 (1340) {19100}
	Injection speed	mm/s (in/s)	160 {6.30}		155 {6.10}	
	Injection rate	cm ³ /s (in ³ /s)	1257 {76.7}	1521 {92.8}	1473 {89.9}	1753 {107.0}
	Plasticizing rate (GP-PS)	kg/h (oz/s)	550 {5.39}	620 {6.07}	630 {6.17}	700 {6.86}
	Screw speed	min ⁻¹ (rpm)	165	150	150	140
	Nozzle touch force	kN (tf) {US ton}	65 (6.6) {7.3}		65 (6.6) {7.3}	
	Nozzle stroke from platen	mm (in)	50 {2.0}			
	Type of nozzle		Open nozzle			
	Barrel temperature control		Barrel 5, Nozzle 1			
Heater wattage	kW	46.3		53.7		
Clamping Unit	Mechanism		Double toggle			
	Clamping force	kN (tf) {US ton}	12800 {1300} {1439}			
	Daylight opening (Max.)	mm (in)	2800 {110.238}			
	Opening stroke (Max.)	mm (in)	1500 {59.06}			
	Mold height	mm (in)	650~1300 {25.591~51.182}			
	Platen speed	m/min (ft/s)	65 {3.55}			
	Distance between tie-bars (HxV)	mm (in)	1400x1400 {55.1x55.1}			
	Platen size (HxV)	mm (in)	2000x2000 {78.7x78.7}			
	Ejector point		29 points {25 points}			
	Ejector force	kN (tf) {US ton}	300 {30.5} {33.7}			
Ejector stroke	mm (in)	250 {9.843}				
General	Machine weight	t {US ton}	84 {92.6}		84 {92.6}	
	Machine dimensions (LxWxH)	m (ft)	12.80x3.05x3.02 {41.99x10.01x9.89}		12.80x3.05x3.02 {41.99x10.01x9.89}	
	Hopper capacity (Option)	l {ft ³ }	340 {12.0}		340 {12.0}	

Remarks:

- Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
- The theoretical injection capacity is (cross sectional area of barrel) × (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.
- 1MPa=10.2 kgf/cm², 1kN=0.102tf

■ Total Power Capacity

Machine Model	Total Power Capacity (kVA)
J1300AD	3900H 86.3
	5200H 89.2

- Note: 1. Total power capacity does not include external outlets.
2. We recommend that the rated interrupting current of the main power supply breaker is more than 25 kA at AC400V/460V.



JQA-QMA13993
JQA-EM6416

■ Cooling Water Capacity for Barrel Temperature Control

Injection Unit	Cooling Water Capacity for Barrel Temperature Control m ³ /h (ft ³ /h)
3900H	1.6 {56.50}
5200H	

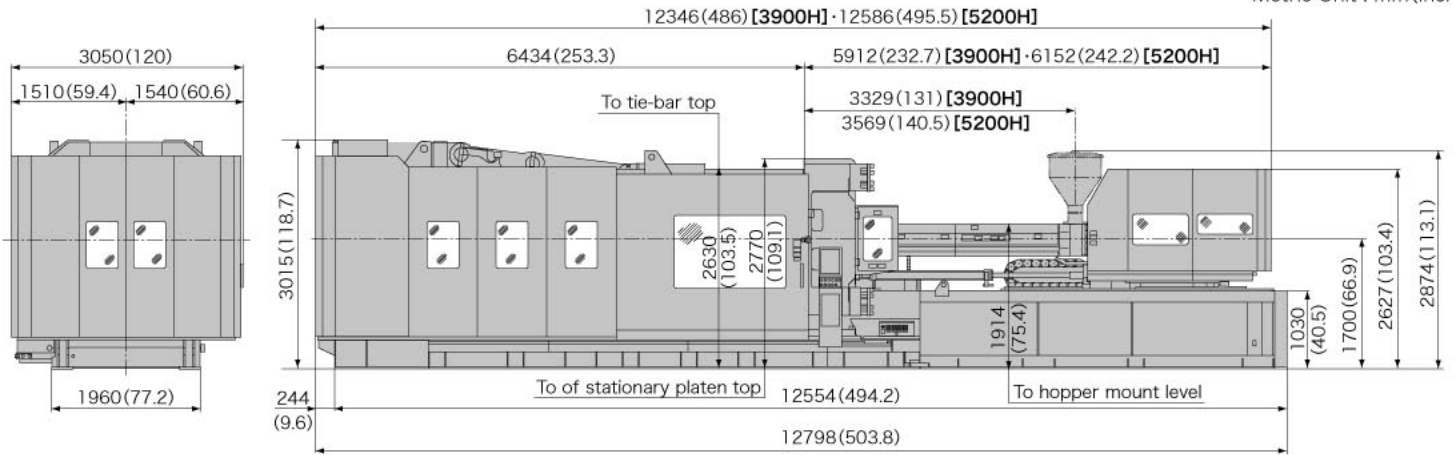
Note: The above figures do not include the required quantity of water for the mold temperature controller.

■ Hydraulic Oil Tank Capacity

Machine Model	Hydraulic Oil Tank Capacity L {USgal}
J1300AD	30 {7.9}

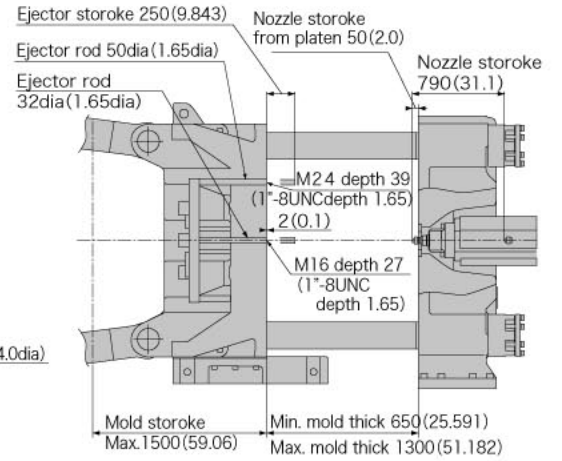
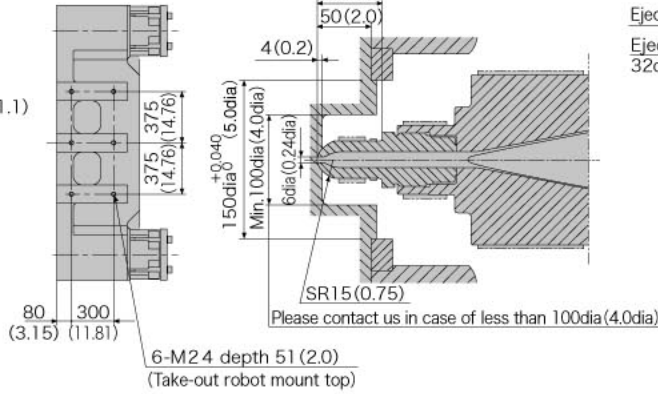
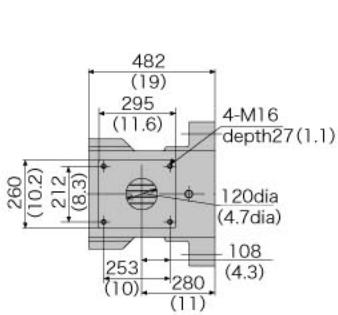
Equipment Dimensions and Mold Related Dimensions

Metric Unit : mm (inch)



Hopper Mount

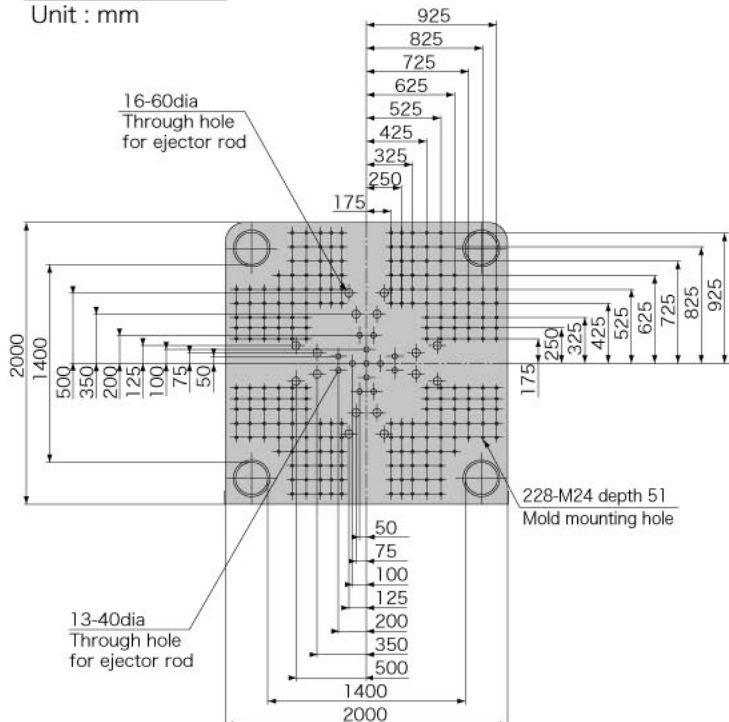
Stationary Platen Top



Movable Platen

JIS Specification

Unit : mm



SPI Specification

Unit : inch

