

JT70RAD

Performance Table

Module	Item	Model	JT70RAD						
			55V			110V			
Injection Unit	Screw cylinder type		K	A	B(OP)	K	A	B(OP)	
	Screw diameter	in	0.98	1.10	1.26	1.26	1.38	1.57	
	Screw stroke	in	3.543			4.331			
	Theoretical injection capacity	in ³	2.69	3.36	4.39	5.37	6.47	8.42	
	Injection capacity (GP-PS)	oz	1.5	1.8	2.4	3.0	3.6	4.6	
	Standard	Injection pressure (Max.)	psi	32780	26110	20020	31180	26110	20020
		Holding pressure (Max.)	psi	29940	23500	17980	28140	23500	17980
		Injection speed	in/s	10.63			6.30		
		Injection rate	in ³ /s	8.1	10.1	13.3	7.9	9.4	12.3
		Plasticizing rate (GP-PS)	oz/s	0.20	0.24	0.29	0.29	0.39	0.49
		Screw speed	rpm	350			300		
	Low-inertia (HR) OP	Injection pressure (Max.)	psi	36410	29010	22190	34660	29010	22190
		Holding pressure (Max.)	psi	32780	26110	20020	31180	26110	20020
		Injection speed	in/s	13.78			7.87		
		Injection rate	in ³ /s	10.5	13.2	17.2	9.8	11.7	15.3
		Plasticizing rate (GP-PS)	oz/s	0.20	0.24	0.29	0.29	0.39	0.49
		Screw speed	rpm	350			300		
	High-speed (HS) OP	Injection pressure (Max.)	psi	36410	29010	22190	34660	29010	22190
		Holding pressure (Max.)	psi	32780	26110	20020	31180	26110	20020
		Injection speed	in/s	19.69			13.78		
		Injection rate	in ³ /s	15.0	18.8	24.6	17.1	20.6	26.9
		Plasticizing rate (GP-PS)	oz/s	0.20	0.24	0.29	0.29	0.39	0.49
		Screw speed	rpm	350			300		
	Nozzle touch force	US ton	1.65			1.65			
	Nozzle stroke from platen	in	0.8						
	Type of nozzle		Open nozzle (Tip type)						
	Cylinder temperature control		Cylinder: 3 / Nozzle: 1						
Heater wattage	kW	5.1			7.1				
Clamping Unit	Mechanism		Double toggle						
	Clamping force	US ton	77.2						
	Daylight opening (Max.)	in	21.65						
	Opening stroke (Max.)	in	9.84						
	Mold height	in	7.874~11.811						
	Mold size (Max.)	in	15.94×15.94						
	Lower mold weight (Max.)	lb	662×2 Molds						
	Table outside diameter	in	45.67						
	Ejector point		1 point						
	Ejector force	US ton	2.98						
Ejector stroke	in	2.362							
Miscellaneous	Machine weight	US ton	4.4 (4.6)*			4.7			
	Machine dimensions (LxWxH)	ft	7.79×4.46×10.04			7.79×4.46×10.89			
	Machine dimensions (HS) (LxWxH)	ft	7.79×4.46×11.44			7.79×4.46×12.78			
	Table height	ft	3.26						

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) x (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:

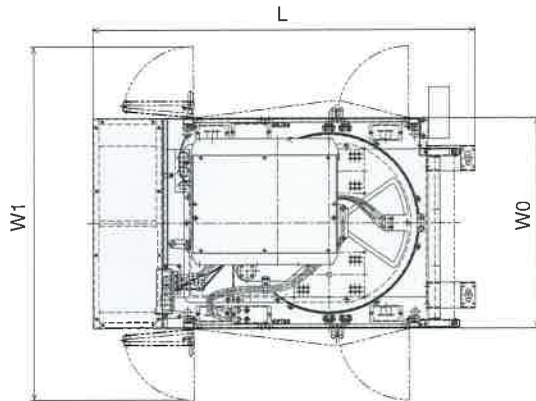
- Due to continual improvements, specifications are subject to change without notice.
- Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
- Performance specifications are based on theoretical data.
- Low inertia injection specifications and high-speed injection specifications can be handled as option.
- Values in parentheses () * in the table are for high-speed injection specifications.
- Screw cylinder size B is optional.
- 1 MPa = 10.2 kgf/cm², 1 kN = 0.102 tf



JSW Hiroshima Plant

JSW Injection Molding Machinery Division

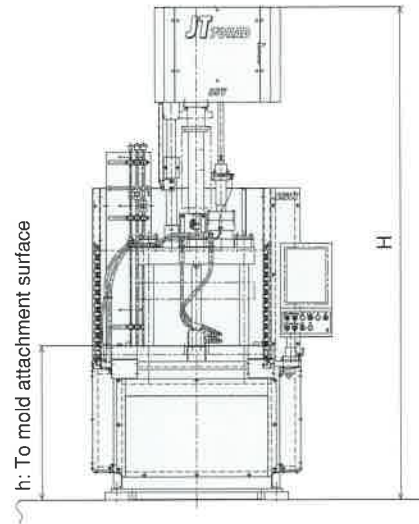
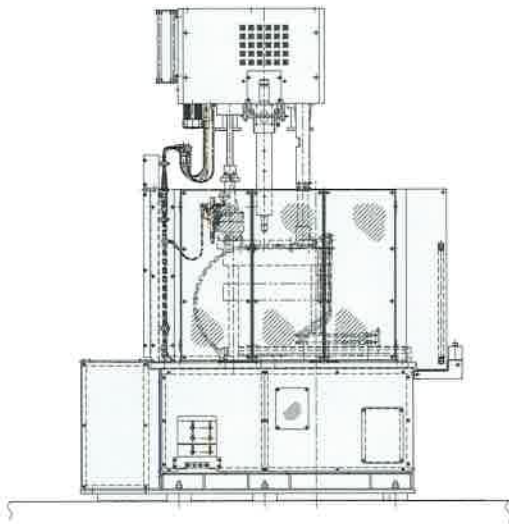
Dimensions of Machine



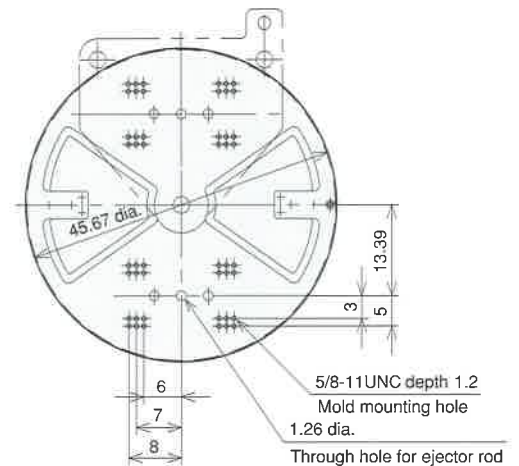
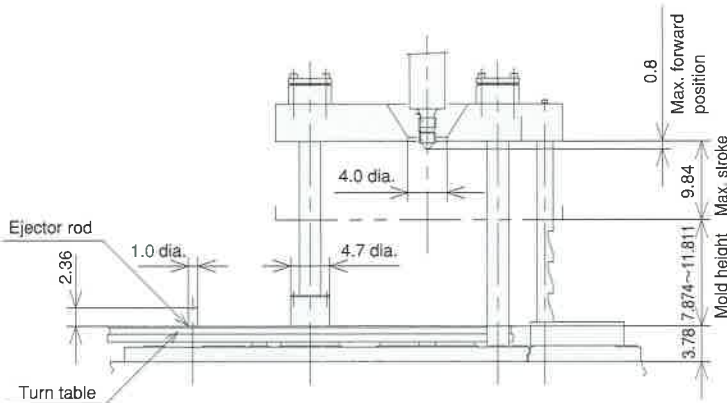
■ Dimensions of machine

(Unit: ft)

Model	L	W0	W1	H		h	
				MIN.	MAX.		
JT70RAD	7.79	4.46	7.53	8.11	10.04	3.26	
				55V-HR	8.11		10.04
				55V-HS	9.51		11.44
				110V	8.95		10.89
				110V-HR	8.95		10.89
				110V-HS	10.84		12.78



Mold Related Dimensions



■ Total Power Capacity

Machine Model	Injection unit	Total Power Capacity (kVA)		
		Standard Injection	Low-inertia Injection	High Speed Injection
JT70RAD	55V	24.67	24.67	25.63
	110V	27.31	28.27	29.95

Note 1: The above incoming line size and main breaker capacity are values obtained by adding the capacity of molding machine unit to the capacity of mold thermal control/hydraulic unit, which is optional.
 Note 2: We recommend that the rated interrupting current of the main power supply breaker is more than 25 kA at AC400V/460V.

■ Capacity of Cooling Water (outline)

Model	Injection unit	Cooling Water Capacity for Barrel Temperature Control (ft ³ /h)
JT70RAD	55V	10.59
	110V	

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

■ Capacity of Air

Compressed air pressure	psi	72.5
Compressed air necessity volume	NI/min	2