

JT70RAD

Performance Table

Module	Item	Model	JT70RAD							
			55V			110V				
Injection Unit	Screw cylinder type		K	A	B (OP)	K	A	B (OP)		
	Screw diameter	mm	25	28	32	32	35	40		
	Screw stroke	mm	90			110				
	Theoretical injection capacity	cm ³	44	55	72	88	106	138		
	Injection capacity (GP-PS)	g	42	52	69	84	101	131		
	Standard	Injection pressure (Max.)	MPa {kgf/cm ² }	226 {2300}	180 {1840}	138 {1410}	215 {2190}	180 {1840}	138 {1410}	
		Holding pressure (Max.)	MPa {kgf/cm ² }	203 {2070}	162 {1650}	124 {1260}	194 {1980}	162 {1650}	124 {1260}	
		Injection speed	mm/s	270			160			
		Injection rate	cm ³ /s	133	166	217	129	154	201	
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50	
		Screw speed	min ⁻¹	350			300			
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa {kgf/cm ² }	251 {2560}	200 {2040}	153 {1560}	239 {2440}	200 {2040}	153 {1560}	
		Holding pressure (Max.)	MPa {kgf/cm ² }	226 {2300}	180 {1840}	138 {1410}	215 {2190}	180 {1840}	138 {1410}	
		Injection speed	mm/s	350			200			
		Injection rate	cm ³ /s	172	216	281	161	192	251	
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50	
		Screw speed	min ⁻¹	350			300			
	High-speed (HS) OP	Injection pressure (Max.)	MPa {kgf/cm ² }	251 {2560}	200 {2040}	153 {1560}	239 {2440}	200 {2040}	153 {1560}	
		Holding pressure (Max.)	MPa {kgf/cm ² }	226 {2300}	180 {1840}	138 {1410}	215 {2190}	180 {1840}	138 {1410}	
		Injection speed	mm/s	500			350			
		Injection rate	cm ³ /s	245	308	402	281	337	440	
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50	
		Screw speed	min ⁻¹	350			300			
	Nozzle touch force			kN {tf}			15 {1.5}		15 {1.5}	
	Nozzle stroke from platen			mm			20		20	
	Type of nozzle			Open nozzle						
	Cylinder temperature control			Cylinder: 3 / Nozzle: 2						
Heater wattage			kW			5.1		7.1		
Clamping Unit	Mechanism		Double toggle							
	Clamping force		kN {tf}		686 {70}					
	Daylight opening (Max.)		mm		550					
	Opening stroke (Max.)		mm		250					
	Mold height		mm		200~300					
	Mold size (Max.)		mm		405×405					
	Lower mold weight (Max.)		kg		300×2					
	Table outside diameter		mm		1160					
	Ejector point				1 point					
	Ejector force		kN {tf}		26 {2.7}					
Ejector stroke		mm		60						
Miscellaneous	Machine weight		t		4.0 (4.2)*		4.3			
	Machine dimensions (LxWxH)		m		2.37×1.36×3.06		2.37×1.36×3.32			
	Machine dimensions (HS) (LxWxH)		m		2.37×1.36×3.49		2.37×1.36×3.90			
	Table height		mm		995					

Remarks:

1. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
2. The theoretical injection capacity is (cross sectional area of cylinder) x (stroke of screw).
3. The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
4. The plasticizing rate is applicable for GP-PS.
5. 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:

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. Low inertia injection specifications and high-speed injection specifications can be handled as option.
5. Values in parentheses (*) in the table are for high-speed injection specifications.
6. Screw cylinder size B is optional.
7. 1 MPa = 10.2 kgf/cm², 1 kN = 0.102 tf

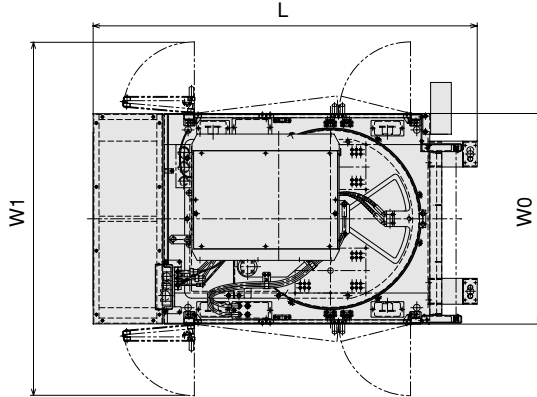
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JSW Hiroshima Plant

JSW Injection Molding Machinery Division

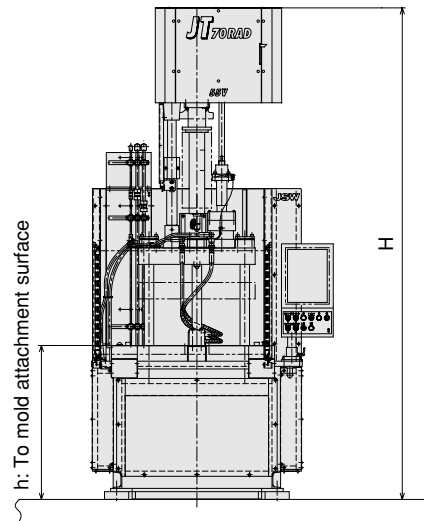
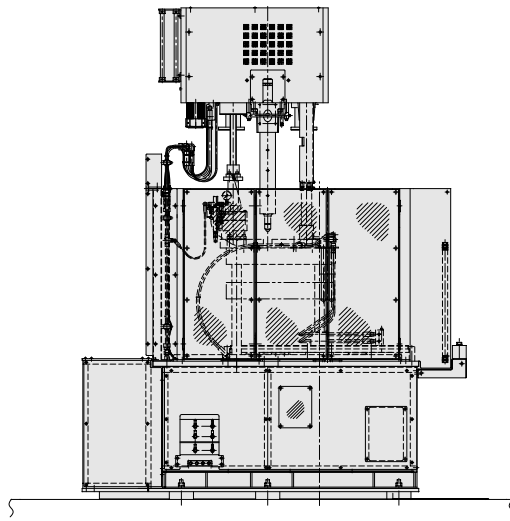
Dimensions of Machine



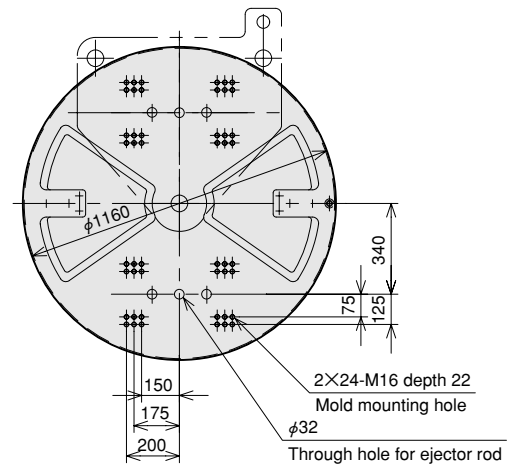
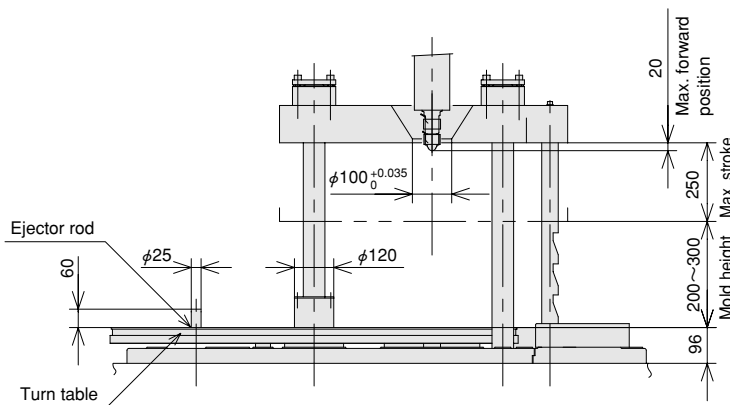
Dimensions of machine

(Unit: mm)

Model	L	W0	W1	H		h	
				MIN.	MAX.		
JT70RAD	55V	2375	1360	2297	2471	3061	995
	55V-HR				2471	3061	
	55V-HS				2898	3488	
	110V				2728	3318	
	110V-HR				2728	3318	
	110V-HS				3305	3895	



Mold Related Dimensions



Total Power Capacity

Machine Model	Total Power Capacity (kVA)			
	Injection unit	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 (m ³ /h)
		JT70RAD
	110V	

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

Capacity of Air

Compressed air pressure	MPa	0.5
Compressed air necessity volume	NI/min	2