

JT40RAD

Performance Table

Module	Item	Model	JT40RAD									
			20V (in preparation)			55V			110V			
Injection Unit	Screw cylinder type		K	A	B (OP)	K	A	B (OP)	K	A	B (OP)	
	Screw diameter	mm	18	20	22	25	28	32	32	35	40	
	Screw stroke	mm	65			90			110			
	Theoretical injection capacity	cm ³	17	20	25	44	55	72	88	106	138	
	Injection capacity (GP-PS)	g	16	19	24	42	52	69	84	101	131	
	Standard	Injection pressure (Max.)	MPa {kgf/cm ² }	222 {2260}	180 {1840}	149 {1520}	226 {2300}	180 {1840}	138 {1410}	215 {2190}	180 {1840}	138 {1410}
		Holding pressure (Max.)	MPa {kgf/cm ² }	200 {2040}	162 {1650}	134 {1370}	203 {2070}	162 {1650}	124 {1260}	194 {1980}	162 {1650}	124 {1260}
		Injection speed	mm/s	300			270			160		
		Injection rate	cm ³ /s	76	94	114	133	166	217	129	154	201
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	30	40	50
		Screw speed	min ⁻¹	500			350			300		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa {kgf/cm ² }	247 {2520}	200 {2040}	165 {1680}	251 {2560}	200 {2040}	153 {1560}	239 {2440}	200 {2040}	153 {1560}
		Holding pressure (Max.)	MPa {kgf/cm ² }	222 {2260}	180 {1840}	149 {1520}	226 {2300}	180 {1840}	138 {1410}	215 {2190}	180 {1840}	138 {1410}
		Injection speed	mm/s	350			350			200		
		Injection rate	cm ³ /s	89	110	133	172	216	281	161	192	251
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	30	40	50
		Screw speed	min ⁻¹	500			350			300		
	High-speed (HS) OP	Injection pressure (Max.)	MPa {kgf/cm ² }	247 {2520}	200 {2040}	165 {1680}	251 {2560}	200 {2040}	153 {1560}	—	—	—
		Holding pressure (Max.)	MPa {kgf/cm ² }	222 {2260}	180 {1840}	149 {1520}	226 {2300}	180 {1840}	138 {1410}	—	—	—
		Injection speed	mm/s	550			500			—		
		Injection rate	cm ³ /s	140	173	209	245	308	402	—	—	—
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	—	—	—
		Screw speed	min ⁻¹	500			350			—		
	Nozzle touch force			kN {tf}			15 {1.5}			15 {1.5}		
	Nozzle stroke from platen			mm			20					
	Type of nozzle						Open nozzle					
	Cylinder temperature control						Cylinder: 3 / Nozzle: 2					
Heater wattage			kW			2.8			5.1			
Heater wattage			kW			2.8			7.1			
Clamping Unit	Mechanism						Double toggle					
	Clamping force			kN {tf}			392 {40}					
	Daylight opening (Max.)			mm			470					
	Opening stroke (Max.)			mm			200					
	Mold height			mm			170~270					
	Mold size (Max.)			mm			365×365					
	Lower mold weight (Max.)			kg			225×2					
	Table outside diameter			mm			1032					
	Ejector point						1 point					
	Ejector force			kN {tf}			18 {1.8}					
Ejector stroke			mm			40						
Miscellaneous	Machine weight			t			3.0 (3.2)*			3.2 (3.4)*		
	Machine dimensions (LxWxH)			m			2.23×1.22×2.67			2.23×1.22×2.85		
	Machine dimensions (HS) (LxWxH)			m			2.23×1.22×3.05			2.23×1.22×3.27		
	Table height			mm			889					

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

JSW

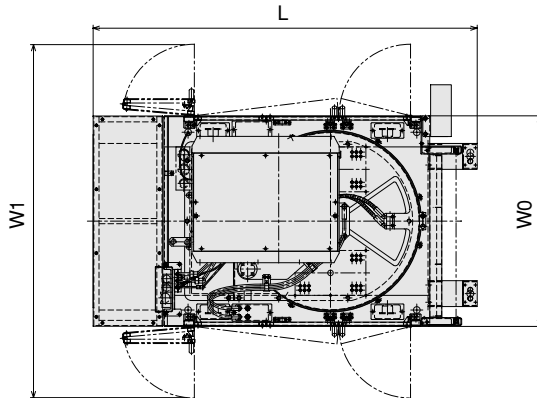


JSW Hiroshima Plant



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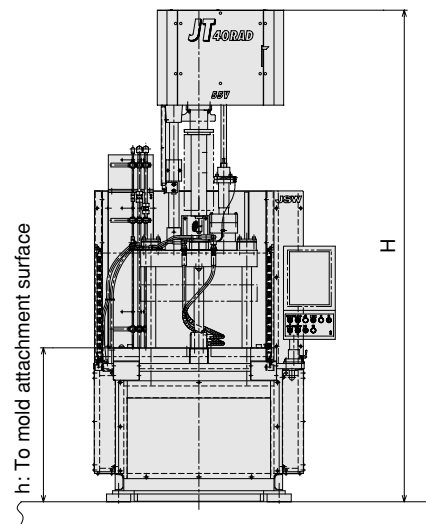
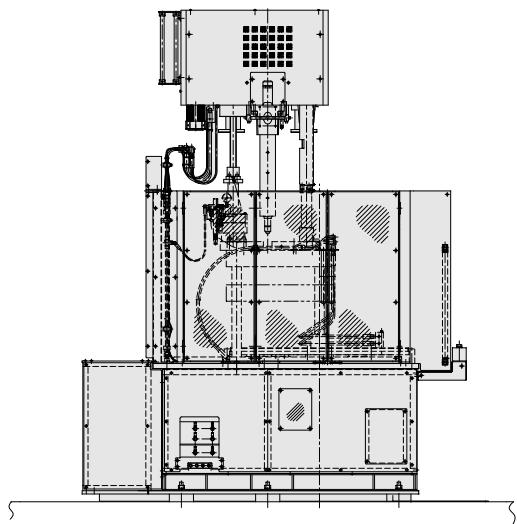
Dimensions of Machine



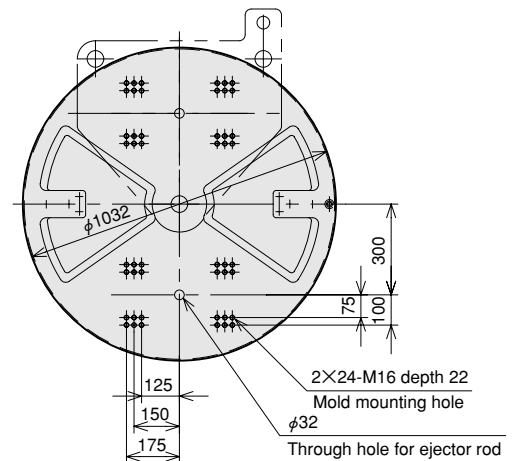
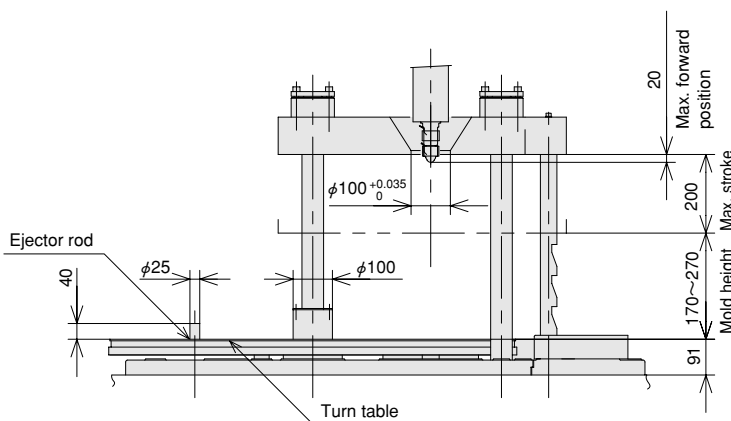
■ Dimensions of machine

(Unit: mm)

Model	L	W0	W1	H		h	
				MIN.	MAX.		
JT40RAD	20V	2225	1220	2050	2164	2674	889
	20V-HR				2164	2674	
	20V-HS				2538	3048	
	55V				2335	2845	
	55V-HR				2335	2845	
	55V-HS				2762	3272	
	110V				2592	3102	
	110V-HR				2592	3102	



Mold Related Dimensions



■ Total Power Capacity

Machine Model	Injection unit	Total Power Capacity (kVA)		
		Standard Injection	Low-inertia Injection	High Speed Injection
JT40RAD	20V	19.39	19.39	20.71
	55V	23.83	23.83	24.79
	110V	26.47	27.94	—

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)
		JT40RAD
	55V	
	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