

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)*			3.4			
	Machine dimensions (LxWxH)	m	2.23×1.22×2.67			2.23×1.22×2.85			2.23×1.22×3.10			
	Machine dimensions (HS) (LxWxH)	m	2.23×1.22×3.05			2.23×1.22×3.27			—			
	Table height	mm	889									

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

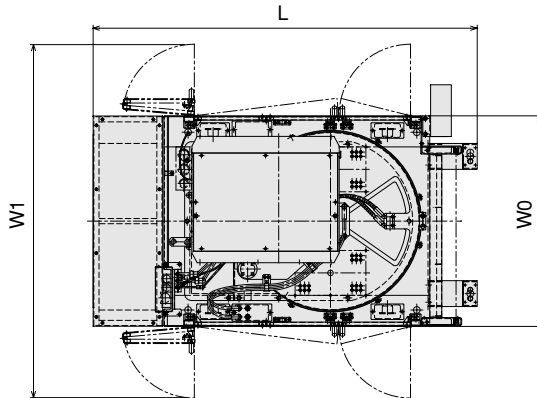
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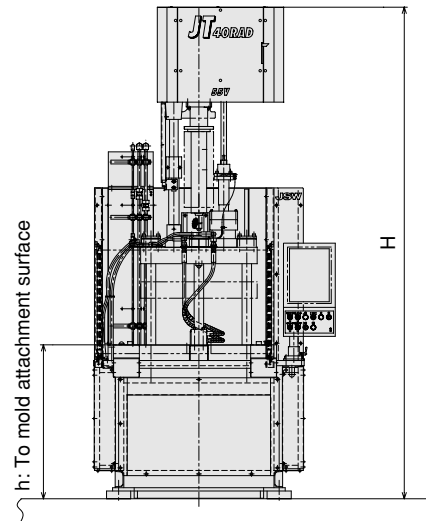
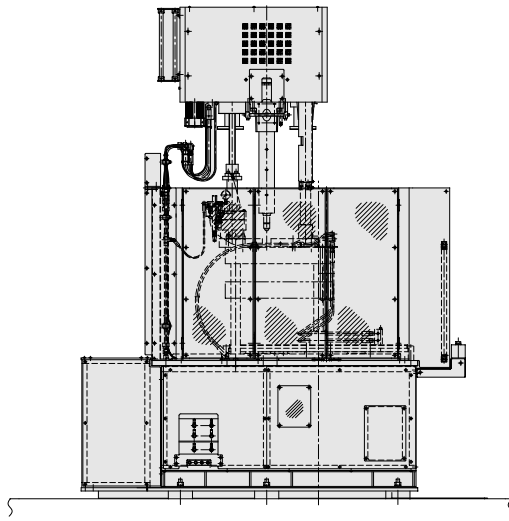
Dimensions of Machine



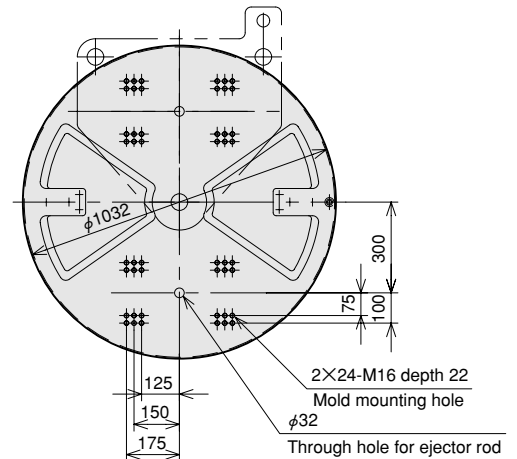
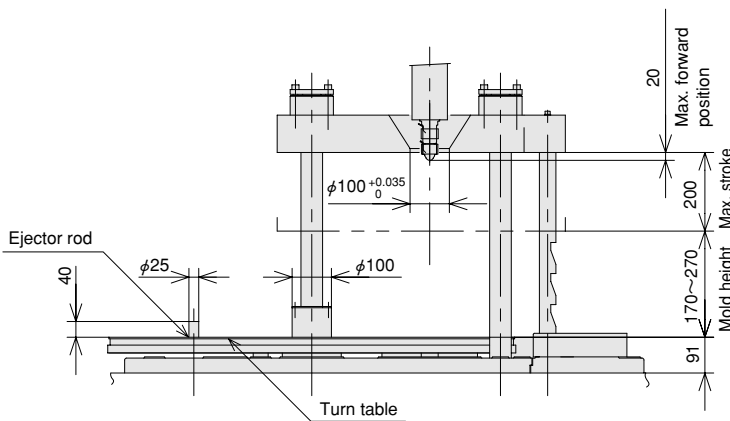
■ Dimensions of machine

(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