

# 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 <sup>3</sup>	44	55	72	88	106	138	
	Injection capacity (GP-PS)	g	42	52	68	84	101	131	
	Standard	Injection pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	22{ 2300 }	18{ 1840 }	13{ 1410 }	21{ 2190 }	18{ 1840 }	13{ 1410 }
		Holding pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	20{ 2070 }	16{ 1650 }	12{ 1260 }	19{ 1980 }	16{ 1650 }	12{ 1260 }
		Injection speed	mm/s	270			160		
		Injection rate	cm <sup>3</sup> /s	133	166	217	129	154	201
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50
		Screw speed	min <sup>-1</sup>	350			300		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	25{ 2560 }	20{ 2040 }	15{ 1560 }	23{ 2440 }	20{ 2040 }	15{ 1560 }
		Holding pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	22{ 2300 }	18{ 1840 }	13{ 1410 }	21{ 2190 }	18{ 1840 }	13{ 1410 }
		Injection speed	mm/s	350			200		
		Injection rate	cm <sup>3</sup> /s	172	216	281	161	192	251
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50
		Screw speed	min <sup>-1</sup>	350			300		
	High-speed (HS) OP	Injection pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	25{ 2560 }	20{ 2040 }	15{ 1560 }	23{ 2440 }	20{ 2040 }	15{ 1560 }
		Holding pressure (Max.)	MPa{ kgf/cm <sup>2</sup> }	22{ 2300 }	18{ 1840 }	13{ 1410 }	21{ 2190 }	18{ 1840 }	13{ 1410 }
		Injection speed	mm/s	500			350		
		Injection rate	cm <sup>3</sup> /s	245	308	402	281	337	440
		Plasticizing rate (GP-PS)	kg/h	20	25	30	30	40	50
		Screw speed	min <sup>-1</sup>	350			300		
	Nozzle touch force	kN{ tf }	1{ 1.5 }			1{ 1.5 }			
	Nozzle stroke from platen	mm	20						
	Type of nozzle		Open nozzle						
	Cylinder temperature control		Cylinder: 3 / Nozzle: 2						
Heater wattage	kW	5.5			7.7				
Clamping Unit	Mechanism		Double toggle						
	Clamping force	kN{ tf }	68{ 70 }						
	Daylight opening (Max.)	mm	550						
	Opening stroke (Max.)	mm	250						
	Mold height	mm	200 ~ 300						
	Mold size (Max.)	mm	405 x 405						
	Lower mold weight (Max.)	kg	300 x 2						
	Table outside diameter	mm	1160						
	Ejector point		1 point						
	Ejector force	kN{ tf }	2{ 2.7 }						
Ejector stroke	mm	60							
Miscellaneous	Machine weight	t	4.0( 4.2 )*			4.2( 4.5 )*			
	Machine dimensions (LxWxH)	m	2.38 x 1.36 x 3.07			2.38 x 1.36 x 3.32			
	Machine dimensions (HS) (LxWxH)	m	2.38 x 1.36 x 3.49			2.38 x 1.36 x 3.90			
	Table height	mm	995						

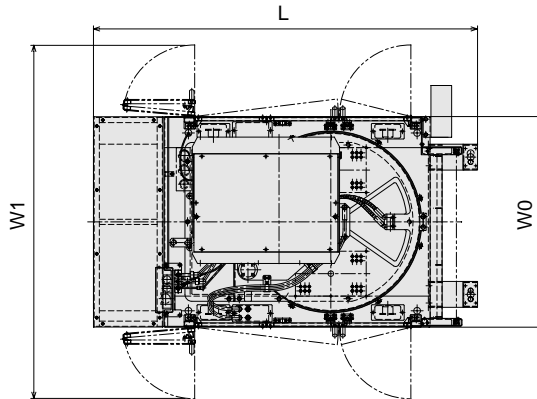
**Remarks:**

- 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/cm<sup>2</sup>, 1 kN = 0.102 tf

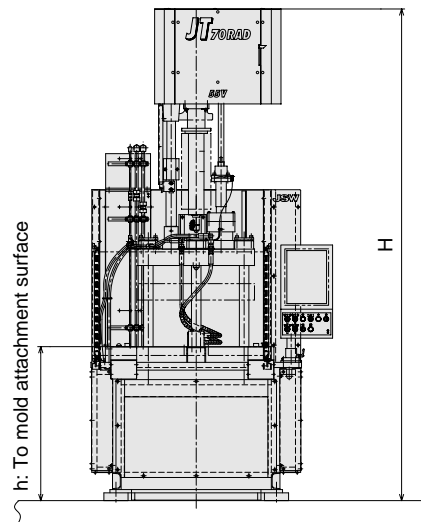
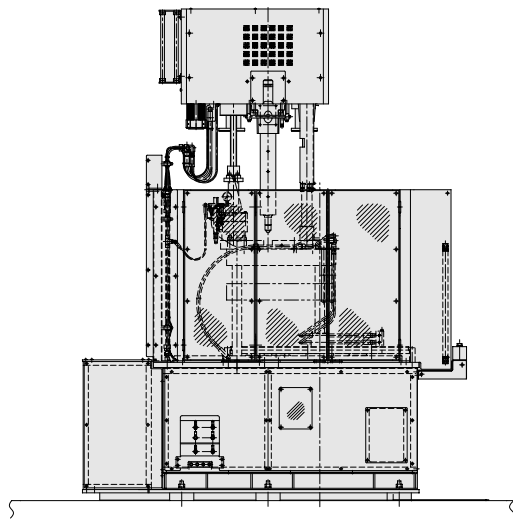
## Dimensions of Machine



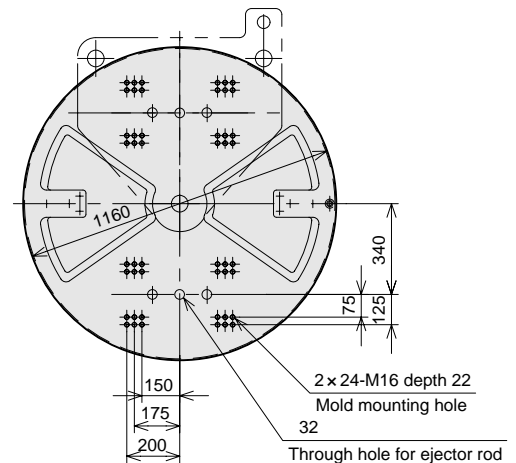
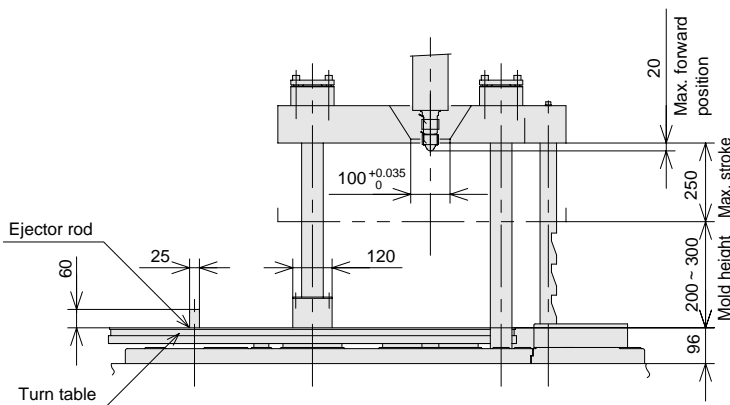
Dimensions of machine

(Unit: mm)

Model	L	W0	W1	H		h	
				MIN.	MAX.		
JT70RAD	55V	2376	1360	2296	2471	3061	995
	55V-HR				2471	3061	
	55V-HS				2897	3487	
	110V				2728	3318	
	110V-HR				2728	3318	
	110V-HS				3305	3895	



## 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

### Capacity of Cooling Water (outline)

Model	Injection unit	Cooling Water Capacity for Barrel Temperature Control (m <sup>3</sup> /h)
		JT70RAD
	110V	

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.

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