

# JT150RAD

## Performance Table

Module	Item	Model	JT150RAD						
			110V			230V			
Injection Unit	Screw cylinder type		K	A	B (OP)	K	A	B (OP)	
	Screw diameter	mm	32	35	40	40	45	50	
	Screw stroke	mm	110			145			
	Theoretical injection capacity	cm <sup>3</sup>	88	106	138	182	231	285	
	Injection capacity (GP-PS)	g	84	101	131	173	219	271	
	Standard	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	215 {2190}	180 {1840}	138 {1410}	228 {2320}	180 {1840}	146 {1490}
		Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	194 {1980}	162 {1650}	124 {1260}	205 {2090}	162 {1650}	131 {1340}
		Injection speed	mm/s	160			160		
		Injection rate	cm <sup>3</sup> /s	129	154	201	201	254	314
		Plasticizing rate (GP-PS)	kg/h	30	40	50	60	76	88
		Screw speed	min <sup>-1</sup>	300			250		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	239 {2440}	200 {2040}	153 {1560}	—	—	—
		Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	215 {2190}	180 {1840}	138 {1410}	—	—	—
		Injection speed	mm/s	200			—		
		Injection rate	cm <sup>3</sup> /s	161	192	251	—	—	—
		Plasticizing rate (GP-PS)	kg/h	30	40	50	—	—	—
		Screw speed	min <sup>-1</sup>	300			—		
	High-speed (HS) OP	Injection pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	239 {2440}	200 {2040}	153 {1560}	228 {2320}	180 {1840}	146 {1490}
		Holding pressure (Max.)	MPa {kgf/cm <sup>2</sup> }	215 {2190}	180 {1840}	138 {1410}	205 {2090}	162 {1650}	131 {1340}
		Injection speed	mm/s	350			330		
		Injection rate	cm <sup>3</sup> /s	281	337	440	415	525	648
		Plasticizing rate (GP-PS)	kg/h	30	40	50	60	76	88
		Screw speed	min <sup>-1</sup>	300			250		
	Nozzle touch force			kN {tf}			15 {1.5}		
	Nozzle stroke from platen			mm			20		
	Type of nozzle						Open nozzle		
	Cylinder temperature control						Cylinder: 3 / Nozzle: 2		
Heater wattage			kW			7.7			
Mechanism						Double toggle			
Clamping Unit	Clamping force	kN {tf}				1471 {150}			
	Daylight opening (Max.)	mm				650			
	Opening stroke (Max.)	mm				250			
	Mold height	mm				300~400			
	Mold size (Max.)	mm				510×510			
	Lower mold weight (Max.)	kg				500×2			
	Table outside diameter	mm				1490			
	Ejector point					1 point			
	Ejector force	kN {tf}				26 {2.7}			
	Ejector stroke	mm				60			
Miscellaneous	Machine weight	t	7.1 (7.3)*			7.6 (8.0)*			
	Machine dimensions (LxWxH)	m	2.83×1.72×3.68			2.83×1.72×3.98			
	Machine dimensions (HS) (LxWxH)	m	2.83×1.72×4.25			2.83×1.72×4.57			
	Table height	mm				1198			

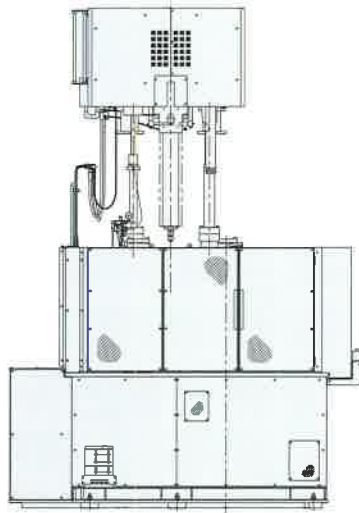
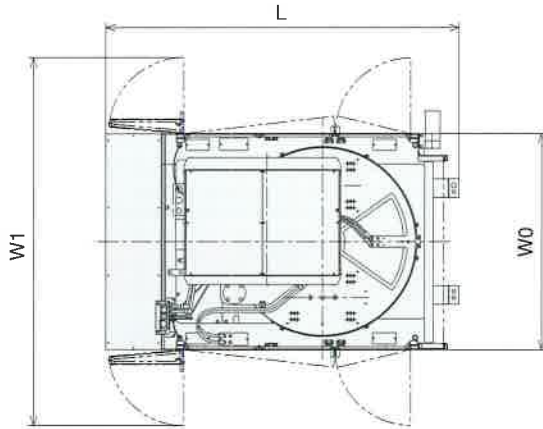
**Remarks:**

- 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

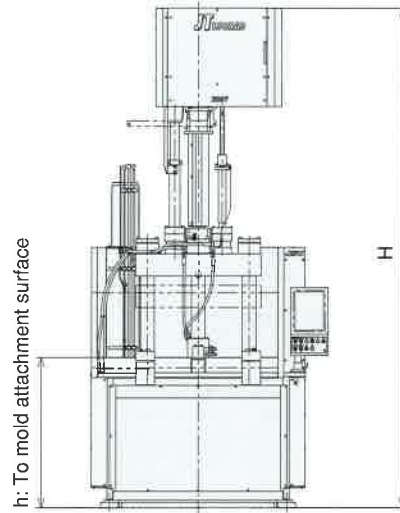
## Dimensions of Machine



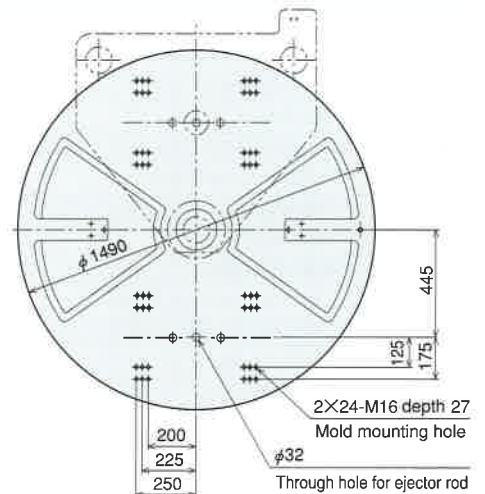
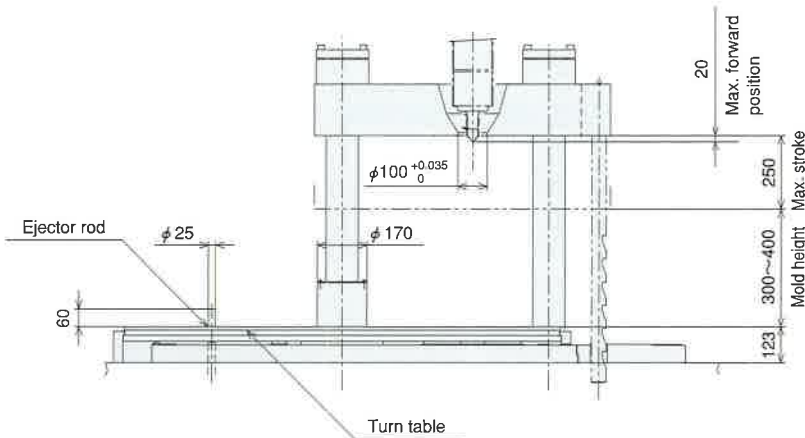
### ■ Dimensions of Machine

(Unit: mm)

Model	L	W0	W1	H		h	
				MIN.	MAX.		
JT150RAD	110V	2826	1720	2930	3031	3671	1198
	110V-HR				3031	3671	
	110V-HS				3608	4248	
	230V				3336	3976	
	230V-HS				3923	4563	



## Mold Related Dimensions



### ■ Total Power Capacity

Machine Model	Total Power Capacity (kVA)			
	Injection unit	Standard Injection	Low-inertia Injection	High Speed Injection
JT150RAD	110V	30.54	30.54	33.44
	230V	38.96	—	46.35

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	Cooling Water Capacity for Barrel Temperature Control (m <sup>3</sup> /h)	
	Injection unit	
JT150RAD	110V	0.3
	230V	

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