

JT20RAD

Performance Table

Module	Item	Model	JT20RAD								
			20V			55V					
Injection Unit	Screw cylinder type		K	A	B(OP)	K	A	B(OP)			
	Screw diameter	in	0.71	0.79	0.87	0.98	1.10	1.26			
	Screw stroke	in	2.559			3.543					
	Theoretical injection capacity	in ³	1.01	1.25	1.52	2.67	3.37	4.42			
	Injection capacity (GP-PS)	oz	0.6	0.7	0.8	1.5	1.8	2.4			
	Standard	Injection pressure (Max.)	psi	32200	26110	21610	32780	26110	20020		
		Holding pressure (Max.)	psi	29010	23500	19440	29440	23500	17980		
		Injection speed	in/s	11.81			10.63				
		Injection rate	in ³ /s	4.7	5.8	7.0	8.0	10.1	13.3		
		Plasticizing rate (GP-PS)	oz/s	0.14	0.18	0.22	0.20	0.24	0.29		
		Screw speed	rpm	500			350				
		Low-inertia (HR) OP	Injection pressure (Max.)	psi	35820	29010	23930	36400	29010	22190	
	Holding pressure (Max.)		psi	32200	26110	21610	32780	26110	20020		
	Injection speed		in/s	13.78			13.78				
	Injection rate		in ³ /s	5.5	6.8	8.2	10.4	13.1	17.2		
	Plasticizing rate (GP-PS)		oz/s	0.14	0.18	0.22	0.20	0.24	0.29		
	Screw speed		rpm	500			350				
	High-speed (HS) OP	Injection pressure (Max.)	psi	35820	29010	23930					
		Holding pressure (Max.)	psi	32200	26110	21610					
		Injection speed	in/s	21.65							
		Injection rate	in ³ /s	8.6	10.6	12.9					
		Plasticizing rate (GP-PS)	oz/s	0.14	0.18	0.22					
		Screw speed	rpm	500							
	Nozzle touch force		US ton	1.65							
	Nozzle stroke from platen		in	0.8							
	Type of nozzle			Open nozzle (Tip type)							
	Cylinder temperature control			Cylinder: 3 / Nozzle: 2							
	Heater wattage		kW	3.0			5.5				
	Clamping Unit	Mechanism		Double toggle							
		Clamping force		US ton	22.0						
		Daylight opening (Max.)		in	16.93						
		Opening stroke (Max.)		in	7.87						
		Mold height		in	5.906 ~ 9.055						
Mold size (Max.)		in	12.01 x 12.01								
Lower mold weight (Max.)		lb	331 x 2 Molds								
Table outside diameter		in	35.91								
Ejector point			1 point								
Ejector force		US ton	1.98								
Ejector stroke		in	1.575								
Miscellaneous	Machine weight		US ton	2.9(3.0)*			3.0				
	Machine dimensions (LxWxH)		ft	7.30 x 4.00 x 8.65			7.30 x 4.00 x 9.16				
	Machine dimensions (HS) (LxWxH)		ft	7.30 x 4.00 x 9.82							
	Table height		ft	2.90							

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:

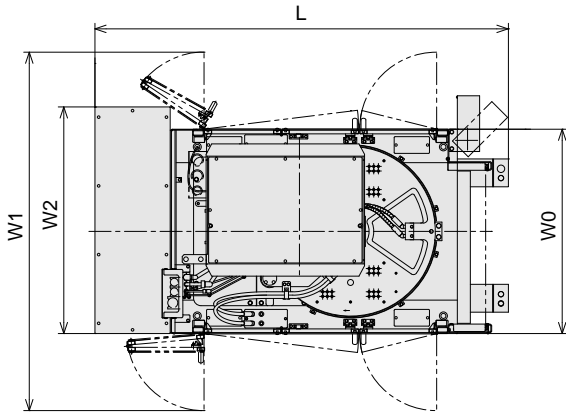
1. Due to continual improvements, specifications are subject to change without notice.
2. Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3. Performance specifications are based on theoretical data.
4. Low inertia 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.



JSW Hiroshima Plant

JSW Injection Molding Machinery Division

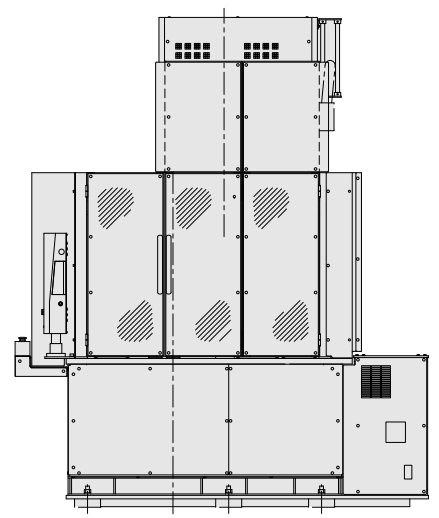
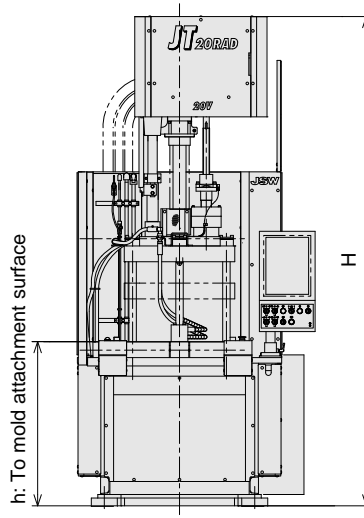
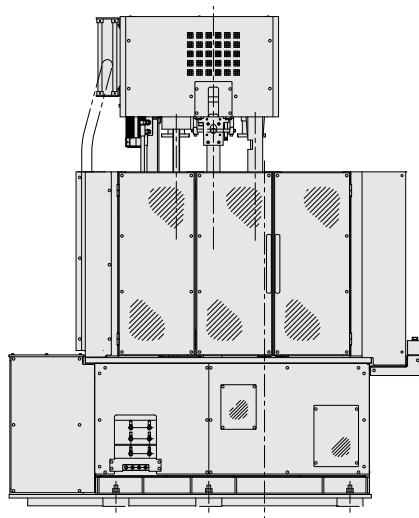
Dimensions of Machine



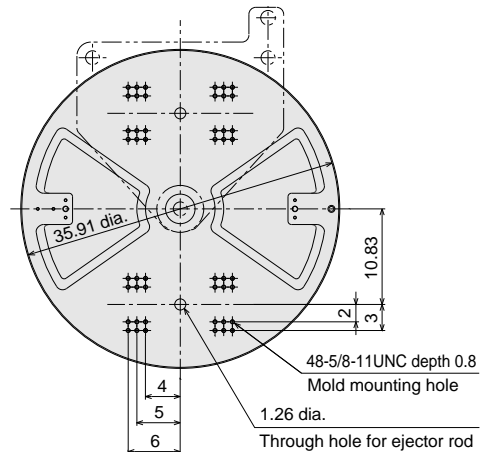
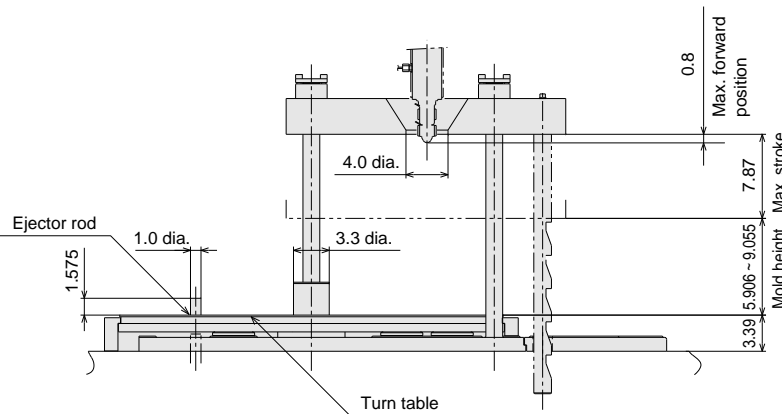
Dimensions of Machine

(Unit: ft)

Model	L	W0	W1	W2	H		h	
					MIN.	MAX.		
JT20RAD	20V	7.30	3.61	6.33	4.00	7.87	8.65	2.90
	20V-HR					7.87	8.65	
	20V-HS					8.24	9.82	
	55V					7.87	9.16	
	55V-HR					7.87	9.16	



Mold Related Dimensions



Total Power Capacity

Machine Model	Total Power Capacity (kVA)			
	Injection unit	Standard Injection	Low-inertia Injection	High Speed Injection
JT20RAD	20V	18.49	18.49	19.81
	55V	23.03	23.03	

Capacity of Cooling Water (outline)

Model	Injection unit	Cooling Water Capacity for Barrel Temperature Control (ft ³ /h)
JT20RAD	20V	10.59
	55V	

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	psi	72.5
Compressed air necessity volume	NI/min	2