

ITEM		Unit	EC310SXIII						
CLAMP	Clamping Force	tf	280						
		US Ton	308						
	Tie Bar Distance (HxV)	mm	730 x 660						
		in	28.7 x 26.0						
	Platen Dimension (HxV)	mm	1030 x 960						
		in	40.6 x 37.8						
	Clamp Stroke	mm	600						
		in	23.6						
	Maximum Daylight	mm	1350						
		in	53.1						
	Mold Height (Min~Max)	mm	250 ~ 750						
		in	9.8 ~ 29.5						
	Ejector Force	tf	6.0						
		US Ton	6.6						
Ejector Stroke	mm	150							
	in	5.9							
INJECTION	Injection Unit		i10			i17			
	Barrel Code		Y	A	B	Y	AT	B	
	Screw Diameter	mm	45	50	55	50	60	70	
		in	1.77	1.97	2.17	1.97	2.36	2.76	
	Injection Capacity	cm <sup>3</sup>	397	490	593	589	848	1155	
		in <sup>3</sup>	24.3	30.0	36.2	35.9	51.8	70.5	
	Shot Volume	PS	g	365	450	545	542	780	1062
			oz	12.9	15.9	19.2	19.1	27.5	37.5
		PE	g	289	357	432	430	619	842
			oz	10.2	12.6	15.2	15.2	21.8	29.7
	Maximum Injection Pressure	MPa	247	200	165	288	200	147	
		PSI	35800	29000	23900	41700	29000	21300	
	Maximum Holding Pressure	MPa	247	200	165	288	200	147	
		PSI	35800	29000	23900	41700	29000	21300	
	Injection Velocity	STD	mm/s	160			160		
			in/s	6.3			6.3		
	Injection Rate	STD	cm <sup>3</sup> /s	254	314	380	314	452	616
			in <sup>3</sup> /s	15.5	19.2	23.2	19.2	27.6	37.6
	Injection Velocity	HIGH SPEED	mm/s	350			300		
			in/s	13.8			11.8		
	Injection Rate	HIGH SPEED	cm <sup>3</sup> /s	556	687	831	589	848	1155
			in <sup>3</sup> /s	34.0	41.9	50.7	35.9	51.7	70.5
	Plasticizing Capacity (PS)	STD	g/sec	33.3	44.4	52.8	44.4	63.9	75.0
			oz/sec	1.18	1.57	1.86	1.57	2.25	2.65
		HIGH TORQUE	g/sec	—	—	—	—	52.8	64.6
			oz/sec	—	—	—	—	1.86	2.28
	Screw Speed	STD	rpm	285	255	230	255	220	180
		HIGH TORQUE	rpm	—	—	—	—	180	155
Screw Torque	STD	N·m	1058	1421	1421	1421	2360	2360	
		lbf·ft	780	1048	1048	1048	1746	1746	
	HIGH TORQUE	N·m	—	—	—	—	2900	2900	
		lbf·ft	—	—	—	—	2139	2139	
Nozzle Touch Force	kN	29.4			29.4				
	US Ton	3.3			3.3				
GENERAL	Main Breaker Capacity	STD	A	125			175		
			kVA	61			61		
	Main Breaker Capacity	HIGH SPEED	A	175			225		
			kVA	81			103		
	Heater Capacity		kW	15.2		15.8	21.7	25.5	
	Machine Dimensions L x W x H	m	6.7 x 2.0 x 2.2		6.8 x 2.0 x 2.2	6.8 x 2.0 x 2.2	7.0 x 2.0 x 2.2		
		ft	22.0 x 6.4 x 7.1		22.3 x 6.4 x 7.1	22.1 x 6.4 x 7.1	22.8 x 6.4 x 7.1		
	Machine Weight	t	12.5			13.8			
US Ton		13.7			15.2				

Note)

- 1 : Due to continuous improvements, specifications are subject to change without notice.
- 2 : Shot weight and Plasticizing capacity vary according to the materials and/or the molding conditions.
- 3 : Max. Injection Pressure and Max. Holding Pressure are power of injection unit, not resin pressure.  
Max. Injection Pressure and Max. Holding Pressure are limited according to molding conditions.
- 4 : Min. mold dimensions are 16.7in(H) x 15.4in(V), 425mm(H) x 390mm(V).  
In case of Max. Clamping Force, do not mount smaller mold than described above.
- 5 : High screw torque may be necessary depending on the type of resin and running condition. Please consult us for more details.
- 6 : Values of Apparent Power, Main Breaker Capacities and Heater Power differ when optional equipment is attached.  
Please contact SHIBAURA MACHINE.

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