

# Major Specifications

ITEM		UNIT	MODEL EC350SX III												
INJECTION UNIT CODE			i10			i17				i26					
BARREL CODE			Y	A	B	Y	AT		BH	B	AT		B		
							STD	HIGH TORQUE			STD	HIGH TORQUE	STD	HIGH TORQUE	
SCREW DIAMETER		mm	45	50	55	50	60		65	70	70		80		
INJECTION VOLUME CALCULATED		cm <sup>3</sup>	397	490	593	589	848		995	1155	1340		1750		
SHOT WEIGHT	PS	g	365	450	545	542	780		915	1062	1230		1610		
	PE		289	357	432	430	619		726	842	980		1280		
INJECTION PRESSURE		MPa	247	200	165	288	200		170	147	190		145		
		kgf/cm <sup>2</sup>	2510	2040	1680	2930	2040		1730	1490	1930		1470		
HOLDING PRESSURE		MPa	247	200	165	288	200		170	147	160		122		
		kgf/cm <sup>2</sup>	2510	2040	1680	2930	2040		1730	1490	1630		1240		
INJECTION SPEED		STD	mm/s			160			160			160			
INJECTION RATE (MAX)			cm <sup>3</sup> /s	254	314	380	314	452		530	616	615		804	
INJECTION SPEED		Semi-High Speed	mm/s			250			-			-			
INJECTION RATE (MAX)			cm <sup>3</sup> /s	397	490	593	-	-		-	-	-		-	
INJECTION SPEED		High Speed	mm/s			350			300			-			
INJECTION RATE (MAX)			cm <sup>3</sup> /s	556	687	831	589	848		995	1155	-		-	
PLASTICIZING CAPACITY		PS	kg/h	120	160	190	160	230	190	250	270	260	170	340	230
MAXIMUM SCREW SPEED			min <sup>-1</sup>	285	255	230	255	220	180	195	180	180	120	170	120
SCREW TORQUE			N-m	1058	1421	1421	1421	2367	2900	2367	2367	2580	3310	2580	3310
SCREW STROKE			mm	250			300			350					
NOZZLE TOUCH FORCE			kN(tf)	29.4 (3.0)						44.1 (4.5)					
CLAMPING FORCE			kN(tf)	3430 (350)											
DISTANCE BETWEEN TIE RODS (H×V)			mm	820×740											
PLATEN DIMENSIONS (H×V)			mm	1110×1030											
OPENING STROKE			mm	650											
OPEN DAYLIGHT (Max.)			mm	1470 (★1450) (★★1460)											
CLOSED DAYLIGHT (MIN.~MAX.MOLD)			mm	300~820 (★280~800) (★★290~810)											
EJECTION FORCE			kN(tf)	59 (6.0)											
EJECTOR STROKE			mm	150											
HEATER POWER (STANDARD NOZZLE PROJECTION)		220V SPEC	kW	15.3		15.9		22.4		26.4		22.3		26.5	
		200V SPEC		12.6		13.1		18.6		21.8		18.5		20.0	
APPARENT POWER		Semi-High Speed	kVA	55.6			56.8			74.7					
		STD		37.5			-			-					
		High Speed		76.2			97.7			-					
MAIN BREAKER CAPACITY		Semi-High Speed	A	125			175			200					
		STD		125			-			-					
		High Speed		175			225			-					
SHORT-CIRCUIT CURRENT RATING		Semi-High Speed	kA	36/18			36/18			36/18					
		STD		36/18			-			-					
		High Speed		36/18			36/18			-					
POWER		Semi-High Speed	kW	41.2			46.7			82.3					
		STD		41.2			-			-					
		High Speed		40.6			51.7			-					
MACHINE DIMENSIONS (L×W×H)			m	7.2×2.1× <sup>■</sup> 2.2			7.2×2.1× <sup>■</sup> 2.2			7.3×2.1× <sup>■</sup> 2.2		7.4×2.1× <sup>■</sup> 2.2		7.6×2.1× <sup>■</sup> 2.2	
MACHINE WEIGHT			t	15.3			16.5			17.5					

## MODEL EC350SX III

- Note) 1 : Due to continuous improvements, specifications are subject to change without notice.  
 2 : Shot weight and Plasticizing capacity vary according to the material and/or the molding condition.  
 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 470(H)×430(V).  
 In case of max. clamping force, do not mount smaller mold than described above.  
 5 : High screw torque may be necessary depends on the type, class of resin and molding condition. Please consult us for more details.  
 6 : Values marked with ★ vary with optional insulating plates (10mm) are attached. Values marked with ★★ vary with optional insulating plates (5mm) are attached.  
 7 : Values of Apparent power and Main Breaker Capacities and Heater Power differ when optional equipments are attached. Please contact SHIBAURA MACHINE.  
 8 : Values marked with <sup>■</sup>Machine height differs by optional Alarm Warning Indicator specification. Refer to the attached drawing of "General View" for details.  
 9 : 1MPa=10.2kgf/cm<sup>2</sup>, 1kN=0.102t