

Major Specifications

ITEM		UNIT	MODEL EC450SX III												
INJECTION UNIT CODE			i17				i26				i36				
BARREL CODE	Y	AT		BH	B	AT		B		AT		B			
		STD	HIGH TORQUE			STD	HIGH TORQUE	STD	HIGH TORQUE	STD	HIGH TORQUE				
SCREW DIAMETER	mm	50	60	65	70	70	80	80	90						
INJECTION VOLUME CALCULATED	cm ³	589	848	995	1155	1340	1750	1880	2380						
SHOT WEIGHT	PS	g	542	780	915	1062	1230	1610	1730	2190					
	PE	g	430	619	726	842	980	1280	1370	1740					
INJECTION PRESSURE	MPa	288	200	170	147	190	145	190	150						
	kgf/cm ²	2930	2040	1730	1490	1930	1470	1930	1530						
HOLDING PRESSURE	MPa	288	200	170	147	160	122	160	126						
	kgf/cm ²	2930	2040	1730	1490	1630	1240	1630	1280						
INJECTION SPEED	STD	mm/s	160				160				140				
INJECTION RATE (MAX.)	STD	cm ³ /s	314	452	530	616	615	804	704	891					
INJECTION SPEED	High Speed	mm/s	300				-				-				
INJECTION RATE (MAX.)	High Speed	cm ³ /s	589	848	995	1155	-	-	-	-					
PLASTICIZING CAPACITY	PS	kg/h	160	230	190	250	270	260	170	340	230	340	220	400	280
MAXIMUM SCREW SPEED		min ⁻¹	255	220	180	195	180	120	170	120	170	115	150	115	
SCREW TORQUE		N-m	1421	2367	2900	2367	2367	2580	3310	2580	3310	3310	4610	3310	4610
SCREW STROKE		mm	300				350				375				
NOZZLE TOUCH FORCE		kN(tf)	29.4 (3.0)				44.1 (4.5)				58.8 (6.0)				
CLAMPING FORCE		kN(tf)	4410 (450)												
DISTANCE BETWEEN TIE RODS (H×V)		mm	870×810												
PLATEN DIMENSIONS (H×V)		mm	1230×1160												
OPENING STROKE		mm	800												
OPEN DAYLIGHT (MAX.)		mm	1800 (★1780) (★★1790)												
CLOSED DAYLIGHT (MIN.~MAX.MOLD)		mm	350~1000 (★330~980) (★★340~990)												
EJECTION FORCE		kN(tf)	127 (13.0)												
EJECTOR STROKE		mm	180												
HEATER POWER (STANDARD NOZZLE PROJECTION)	220 V SPEC	kW	22.4		26.4		22.3		26.5		29.7		34.2		
	200 V SPEC		18.6		21.8		18.5		20.0		24.9		28.7		
APPARENT POWER	STD	kVA	71.8				78.3				85.0				
	High Speed		98.4				-				-				
MAIN BREAKER CAPACITY	STD	A	175				200				200				
	High Speed		225				-				-				
MACHINE DIMENSIONS (L×W×H)		m	8.1×2.2×■2.2				8.1×2.2×■2.2				8.4×2.2×■2.4		8.6×2.2×■2.4		
MACHINE WEIGHT		t	21.7				22.5				23.9				

MODEL EC450SX III

<p>Note) 1 : Due to continuous improvements, specifications are subject to change without notice.</p> <p>2 : Shot weight and Plasticizing capacity vary according to the material and/or the molding condition.</p> <p>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.</p> <p>4 : Min. mold dimensions are 500(H) × 500(V). In case of max. clamping force, do not mount smaller mold than described above.</p> <p>5 : High screw torque may be necessary depends on the type, class of resin and molding condition. Please consult us for more details.</p> <p>6 : Values marked with ★ vary with optional insulating plates (10 mm) are attached. Values marked with ★★ vary with optional insulating plates (5 mm) are attached.</p> <p>7 : Values of Apparent power and Main Breaker Capacities and Heater Power differ when optional equipments are attached. Please contact SHIBAURA MACHINE.</p> <p>8 : Values marked with ■ Machine height differs by optional Alarm Warning Indicator specification. Refer to the attached drawing of "General View" for details.</p> <p>9 : 1 MPa=10.2kgf/cm², 1 kN=0.102tf</p>
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