

Major Specifications

ITEM		UNIT	MODEL EC280SXIII							
INJECTION UNIT CODE			i10			i17				
BARREL CODE			Y	A	B	Y	AT		BH	B
							STD	HIGH TORQUE		
SCREW DIAMETER		mm	45	50	55	50	60		65	70
INJECTION VOLUME CALCULATED		cm ³	397	490	593	589	848		995	1155
SHOT WEIGHT	PS	g	365	450	545	542	780		915	1062
	PE		289	357	432	430	619		726	842
INJECTION PRESSURE	MPa		247	200	165	288	200		170	147
	kgf/cm ²		2510	2040	1680	2930	2040		1730	1490
HOLDING PRESSURE	MPa		247	200	165	288	200		170	147
	kgf/cm ²		2510	2040	1680	2930	2040		1730	1490
INJECTION SPEED	STD	mm/s	160			160				
INJECTION RATE (MAX)		cm ³ /s	254	314	380	314	452		530	616
INJECTION SPEED	Semi-High Speed	mm/s	250			-				
INJECTION RATE (MAX)		cm ³ /s	397	490	593	-	-		-	-
INJECTION SPEED	High Speed	mm/s	350			300				
INJECTION RATE (MAX)		cm ³ /s	556	687	831	589	848		995	1155
PLASTICIZING CAPACITY	PS	kg/h	120	160	190	160	230	190	250	270
MAXIMUM SCREW SPEED		min ⁻¹	285	255	230	255	220	180	195	180
SCREW TORQUE		N-m	1058	1421	1421	1421	2367	2900	2367	2367
SCREW STROKE		mm	250			300				
NOZZLE TOUCH FORCE		kN(tf)	29.4 (3.0)							
CLAMPING FORCE		kN(tf)	2745 (280)							
DISTANCE BETWEEN TIE RODS (H×V)		mm	730×660							
PLATEN DIMENSIONS (H×V)		mm	1030×960							
OPENING STROKE		mm	600							
OPEN DAYLIGHT (Max.)		mm	1350 (★1330) (★★1340)							
CLOSED DAYLIGHT (MIN.~MAX.MOLD)		mm	250~750 (★230~730) (★★240~740)							
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	
	200V SPEC		12.6		13.1		18.0		21.0	
APPARENT POWER	Semi-High Speed	kVA	55.6			56.8				
	STD		37.5			-				
	High Speed		76.2			97.7				
MAIN BREAKER CAPACITY	Semi-High Speed	A	125			175				
	STD		125			-				
	High Speed		175			225				
SHORT-CIRCUIT CURRENT RATING	Semi-High Speed	kA	36/18			36/18				
	STD		36/18			-				
	High Speed		36/18			36/18				
POWER	Semi-High Speed	kW	41.2			46.7				
	STD		41.2			-				
	High Speed		40.6			51.7				
MACHINE DIMENSIONS (L×W×H)	m	6.7×2.0×■2.2		6.8×2.0×■2.2		6.8×2.0×■2.2		7.0×2.0×■2.2		
MACHINE WEIGHT	t	12.5			13.8					

MODEL EC280SXIII

<p>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 425(H)×390(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 (10 mm) are attached. Values marked with ★★ vary with optional insulating plates (5 mm) 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 ■Machine height differs by optional Alarm Warning Indicator specification. Refer to the attached drawing of "General View" for details. 9 : 1MPa=10.2kgf/cm² , 1kN=0.102t</p>
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