

## EC280SXIII MAJOR SPECIFICATIONS

ITEM		UNIT	MODEL EC280SXIII							
INJECTION UNIT CODE			i10			i17				
BARREL CODE			Y	A	B	Y	A		BH	B
							STD	HIGH TORQUE		
SCREW DIAMETER		mm	45	50	55	50	60		65	70
INJECTION VOLUME CALCULATED		cm <sup>3</sup>	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 <sup>2</sup>		2510	2040	1680	2930	2040		1730	1490
HOLDING PRESSURE	MPa		247	200	165	288	200		170	147
	kgf/cm <sup>2</sup>		2510	2040	1680	2930	2040		1730	1490
INJECTION SPEED	STD	mm/s	160			160				
INJECTION RATE (MAX)		cm <sup>3</sup> /s	254	314	380	314	452		530	616
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
MAXIMUM SCREW SPEED		min <sup>-1</sup>	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	STD	kVA	55.6			56.8				
	High Duty		37.5			-				
	High Speed		76.2			97.7				
MAIN BREAKER CAPACITY	STD	A	125			175				
	High Duty		125			-				
	High Speed		175			225				
SHORT-CIRCUIT CURRENT RATING	STD	kA	36/18			36/18				
	High Duty		36/18			-				
	High Speed		36/18			36/18				
POWER	STD	kW	41.2			46.7				
	High Duty		41.2			-				
	High Speed		40.6			51.7				
MACHINE DIMENSIONS (L×W×H)		m	6.7×2.0 <sup>■</sup> ×2.2		6.8×2.0 <sup>■</sup> ×2.2	6.8×2.0 <sup>■</sup> ×2.2		7.0×2.0 <sup>■</sup> ×2.2		
MACHINE WEIGHT		t	12.5			13.8				

- 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 (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 TOSHIBA 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=0.102tf