

MARS SERIES SERVO HYDRAULIC INJECTION MOLDING MACHINE

MA 1600/600

Metric Datasheet

INJECTION UNIT	A	B	C
Screw diameter (mm)	40	45	50
Screw L/D ratio	22.5	20	18
Shot size (theoretical)	253	320	395
Injection weight (g - PS)	230	291	359
Injection rate (g/sec)	135	171	211
Injection Pressure (Mpa)	237	188	152
Plasticizing capacity (Kg/h)	55.44	72	86.4
Screw speed (rpm)		254	

CLAMP UNIT			
Clamp tonnage (kN)		1600	
Toggle stroke (mm)		430	
Mold platen dimensions (mm)	705	x	705
Space between tie bars (mm)	470	x	470
Max. mold height (mm)		520	
Min. mold height (mm)		180	
Max. daylight (mm)		950	
Ejector stroke (mm)		140	
Ejector force (kN)		33	
Ejector number (pcs)		5	

OTHERS				
Heater power (kW)			9.75	
Adjusted pressure (Mpa)			14	
Pump motor power (kW)			18.5	
Machine dimensions (l x w x h) (mm)	5.02	x	1.35	x 1.96
Machine weight (metric tons)			5.3	
Hopper capacity (kg)			25	
Oil tank capacity (liters)			350	

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English Datasheet

INJECTION UNIT	A	B	C
Screw diameter (in)	1.57	1.77	1.97
Screw L/D ratio	22.5	20	18
Shot size (theoretical) (cu. Cm)	253	320	395
Injection weight (oz. - PS)	8.11	10.26	12.66
Injection rate (oz./sec)	4.76	6.03	7.44
Injection Pressure (psi)	34374	27268	22046
Plasticizing capacity (oz./sec)	0.54	0.71	0.85
Screw speed (rpm)		254	

CLAMP UNIT			
Clamp tonnage (US tons)		180	
Toggle stroke (in)		16.93	
Mold platen dimensions (in)	27.76	x	27.76
Space between tie bars (in)	18.50	x	18.50
Max. mold height (in)		20.47	
Min. mold height (in)		7.09	
Max. daylight (in)		37.40	
Ejector stroke (in)		5.51	
Ejector force (US tons)		3.7	
Ejector number (pcs)		5	

OTHERS				
Heater power (kW)			9.75	
Adjusted pressure (psi)			2031	
Pump motor power (kW)			18.5	
Machine dimensions (l x w x h) (in)	199	x	54	x 78
Machine weight (lbs)			11687	
Hopper capacity (lbs)			55	
Oil tank capacity (gals)			92	

