

MARS SERIES SERVO HYDRAULIC INJECTION MOLDING MACHINE

MA 1200/410

Metric Datasheet

INJECTION UNIT	A	B	C
Screw diameter (mm)	36	40	45
Screw L/D ratio	23.3	21	18.7
Shot size (theoretical)	173	214	270
Injection weight (g - PS)	157	195	246
Injection rate (g/sec)	117	144	182
Injection Pressure (Mpa)	237	192	152
Plasticizing capacity (g/s)	12.6	15.4	20
Screw speed (rpm)		0-272	
CLAMP UNIT			
Clamp tonnage (kN)		1200	
Toggle stroke (mm)		360	
Mold platen dimensions (mm)	625	x	627
Space between tie bars (mm)	410	x	410
Max. mold height (mm)		450	
Min. mold height (mm)		150	
Max. daylight (mm)		810	
Ejector stroke (mm)		120	
Ejector force (kN)		33	
Ejector number (pcs)		5	
OTHERS			
Heater power (kW)		9.75	
Adjusted pressure (Mpa)		16	
Pump motor power (kW)		15	
Machine dimensions (L x W x H) (mm)	4.73	x	1.26
			x
			1.96
Machine weight (metric tons)		4.6	
Hopper capacity (kg)		25	
Oil tank capacity (liters)		280	

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English Datasheet

INJECTION UNIT	A	B	C
Screw diameter (in)	1.42	1.57	1.77
Screw L/D ratio	23.3	21	18.7
Shot size (theoretical) (cu. Cm)	173	214	270
Injection weight (oz. - PS)	5.54	6.88	8.68
Injection rate (oz./sec)	4.13	5.08	6.42
Injection Pressure (psi)	34374	27848	22046
Plasticizing capacity (oz./sec)	0.44	0.54	0.71
Screw speed (rpm)		0-272	

CLAMP UNIT			
Clamp tonnage (US tons)		135	
Toggle stroke (in)		14.17	
Mold platen dimensions (in)	24.61	x	24.69
Space between tie bars (in)	16.14	x	16.14
Max. mold height (in)		17.72	
Min. mold height (in)		5.91	
Max. daylight (in)		31.89	
Ejector stroke (in)		4.72	
Ejector force (US tons)		3.7	
Ejector number (pcs)		5	

OTHERS				
Heater power (kW)			9.75	
Adjusted pressure (psi)			2321	
Pump motor power (kW)			15	
Machine dimensions (L x W x H) (in)	187	x	51	x 78
Machine weight (lbs)			10143	
Hopper capacity (lbs)			55	
Oil tank capacity (gals)			74	

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