

MAXIMA MM 450

CLAMP UNIT SPECIFICATIONS

	English		Metric	
Clamp Force	tons	450	kN	4000
Clamp Opening Force	tons	20	kN	177
Clamp Stroke	in.	47.2	mm	1200
Clamp Speed Open	in./sec.	40	mm/sec.	1016
Clamp Speed Close	in./sec.	40	mm/sec.	1016
Maximum Daylight	in.	57.1	mm	1450
Min/Max Mold Thickness	in.	9.8 / 29.5	mm	250 / 750
Maximum Mold Weight	lbs.	12,425	kgs	5635
Platen Size (H x V)	in.	43.3 x 43.3	mm	1100 x 1100
Distance Between Tie Rods (H x V)	in.	32.3 x 32.3	mm	820 x 820
Tie Rod Diameter	in.	5.51	mm	140
Ejector Stroke (Max)	in.	7.9	mm	200
Ejector Force @2000 psi	tons	8.3	kN	73

MACHINE SPECIFICATIONS

	English		Metric	
Overall Length (w/ 3470 IU)	in.	272.2	mm	6913
Overall Width	in.	88.6	mm	2249
Overall Height	in.	114.8	mm	2917
Shipping Weight (without oil)	lbs.	40,050	kg	18170
Hydraulic System Pressure	psi	2,950	bar	203
Variable Volume Pump Capacity	gpm	65	L/min	246
Fixed Pump Capacity	gpm	36	L/min	136
Injection and Extruder	gpm	80	L/min	303
Eject and Core Pull	gpm	21	L/min	79
Electric Motor	hp	75	kw	56
Total Oil Reservoir Capacity	gal	190	L	719
Heat Exchanger Water @85° F	gpm	15	L/min	57



INJECTION UNIT SPECIFICATIONS

	English	A	B	C	Metric	A	B	C
Injection Capacity Maximum								
G.P. Styrene (theoretical)	oz	18	26	36	g	510	737	1021
Displacement	in ³	33.5	48.3	65.8	cm ³	550	792	1078
Injection Pressure Maximum	psi	32,400	28,100	20,600	bar	2234	1938	1421
Injection Rate - Standard	in ³ /sec	19	27	37	cm ³ /sec	311	442	606
Injection Rate - MAXIMA PLUS	in ³ /sec	59	86	117	cm ³ /sec	966	1409	1917
Screw Stroke	in	11.0	11.0	11.0	mm	280	280	280
Screw Diameter	in	1.97	2.36	2.76	mm	50	60	70
Screw L/D		22.0	23.6	20.0		22.0	23.6	22.0
Low Torque Screw Speed Maximum	rpm	404	337	289	rpm	404	337	289
Low Torque at Screw	in-lb	14,200	14,200	14,200	Nm	1603	1603	1603
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	2.0	2.7	3.2	gr/sec	57	76	90
High Torque Screw Speed Maximum	rpm	359	337	289	rpm	359	337	289
High Torque at Screw	in-lb	21,300	21,300	21,300	Nm	2405	2405	2405
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	1.8	2.7	3.2	gr/sec	51	76	90
Number of Pyrometers (barrel/nozzle)		4 / 1	4 / 1	4 / 1		4 / 1	4 / 1	4 / 1
Total Heat Capacity	kW	19.3	22.2	22.2	kW	19.3	22.2	22.2

INJECTION UNIT SPECIFICATIONS

	English	A	B	C	Metric	A	B	C
Injection Capacity Maximum								
G.P. Styrene (theoretical)	oz	30	41	54	g	851	1162	1531
Displacement	in ³	55.2	75.2	98.2	cm ³	905	1232	1609
Injection Pressure Maximum	psi	32,400	26,900	20,600	bar	2234	1855	1421
Injection Rate - Standard	in ³ /sec	21	29	37	cm ³ /sec	344	475	606
Injection Rate - MAXIMA PLUS	in ³ /sec	86	117	153	cm ³ /sec	1409	1917	2507
Screw Stroke	in	12.6	12.6	12.6	mm	320	320	320
Screw Diameter	in	2.36	2.76	3.15	mm	60	70	80
Screw L/D		22.0	22.9	20.0		22.0	22.9	22.0
Low Torque Screw Speed Maximum	rpm	337	289	253	rpm	337	289	253
Low Torque at Screw	in-lb	22,300	22,300	22,300	Nm	2518	2518	2518
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	2.7	3.2	4.0	gr/sec	76	90	115
High Torque Screw Speed Maximum	rpm	221	221	221	rpm	221	221	221
High Torque at Screw	in-lb	34,700	34,700	34,700	Nm	3918	3918	3918
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	1.8	2.4	3.5	gr/sec	50	69	100
Number of Pyrometers (barrel/nozzle)		4 / 1	4 / 1	4 / 1		4 / 1	4 / 1	4 / 1
Total Heat Capacity	kW	24.3	29.1	29.1	kW	24.3	29.1	29.1

INJECTION UNIT SPECIFICATIONS

	English	A	B	C	Metric	A	B	C
Injection Capacity Maximum								
G.P. Styrene (theoretical)	oz	46	60	76	g	1304	1701	2155
Displacement	in ³	84.5	110.4	139.8	cm ³	1385	1810	2290
Injection Pressure Maximum	psi	33,200	27,800	21,900	bar	2290	1917	1510
Injection Rate - Standard	in ³ /sec	21	28	35	cm ³ /sec	344	459	574
Injection Rate - MAXIMA PLUS	in ³ /sec	82	107	135	cm ³ /sec	1434	1753	2212
Screw Stroke	in	14.2	14.2	14.2	mm	360	360	360
Screw Diameter	in	2.76	3.15	3.54	mm	70	80	90
Screw L/D		22.0	22.8	20.0		22.0	22.8	22.0
Low Torque Screw Speed Maximum	rpm	285	253	225	rpm	285	253	225
Low Torque at Screw	in-lb	26,900	26,900	26,900	Nm	3037	3037	3037
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	3.1	4.0	4.7	gr/sec	89	115	134
High Torque Screw Speed Maximum	rpm	188	188	188	rpm	188	188	188
High Torque at Screw	in-lb	40,700	40,700	40,700	Nm	4595	4595	4595
	@ psi	2,900	2,900	2,900	@ bar	200	200	200
Recovery Rate (GP Styrene) calculated	oz/sec	2.1	3.0	3.9	gr/sec	59	85	112
Number of Pyrometers (barrel/nozzle)		4 / 1	4 / 1	4 / 1		4 / 1	4 / 1	4 / 1
Total Heat Capacity	kW	35.8	41.2	41.2	kW	35.8	41.2	41.2

