



**PATEL PLASTIC MACHINERY
MFRS.**

9-10, Bhagirath Ind. Estate, B/h. Swastic Textile,
Gulab Nagar, Amraiwadi, Ahmedabad.
Ph: 079 - 22745562

E-mail : info@pplastmach.com
Website: www.pplastmach.com

MODEL		SPM - 20 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	28	43
THEORETICAL DISPLACEMENT	cc	31	49
INJECTION PRESSURE	bar	1530	1250
INJECTION RATE	cc/sec	21	25
INJECTION SCREW STROKE	mm	100	100
SCREW DIAMETER	mm	20	25
SCREW L/D RATIO		24.2	19.4
SCREW SPEED	rpm	200	200
PLASTICIZING RATE (GPPS)	gm/sec	2.8	3.5
NOZZLE DEPTH	mm	30	30
NO OF HEATING ZONE		4	4
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	20	
MOULD OPENING STROKE	mm	200	
MOULD HEIGHT MIN / MAX	mm	100 / 250	
MAX. DAYLIGHT	mm	450	
DISTANCE BETWEEN TIE ROD	mm	210 X 210	
PLATEN SIZE (H X V)	mm	330 X 330	
EJECTOR STROKE	mm	80	
EJECTOR FORCE	KN	10	
GENERAL			
ELECTRIC MOTOR	kw	3.75	
HEATING LOAD	kw	3	
CONNECTED LOAD	kw	6.75	
TOTAL OIL CAPACITY	L	80	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	25	
MACHINE DIEMENSION (L X W X H)	m	2.8 x 1 x 1.6	
MACHINE WEIGHT	kg	900	



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MODEL		SPM - 100 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	154	201
THEORETICAL DISPLACEMENT	cc	173	226
INJECTION PRESSURE	bar	1900	1456
INJECTION RATE	cc/sec	86	102
INJECTION SCREW STROKE	mm	180	180
SCREW DIAMETER	mm	35	40
SCREW L/D RATIO		22	19.2
SCREW SPEED	rpm	250	250
PLASTICIZING RATE (GPPS)	gm/sec	18	24
NOZZLE DEPTH	mm	45	45
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	1000	
MOULD OPENING STROKE	mm	325	
MOULD HEIGHT MIN / MAX	mm	150 / 350	
MAX. DAYLIGHT	mm	775	
DISTANCE BETWEEN TIE ROD	mm	400 X 330	
PLATEN SIZE (H X V)	mm	600 X 530	
EJECTOR STROKE	mm	100	
EJECTOR FORCE	KN	40	
GENERAL			
ELECTRIC MOTOR	kw	11	
HEATING LOAD	kw	8.6	
CONNECTED LOAD	kw	19.6	
TOTAL OIL CAPACITY	L	220	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	40	
MACHINE DIEMENSION (L X W X H)	m	4.3 X 1.5 X 2.2	
MACHINE WEIGHT	kg	3900	



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MODEL		SPM - 125 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	223	283
THEORETICAL DISPLACEMENT	cc	251	318
INJECTION PRESSURE	bar	1934	1567
INJECTION RATE	cc/sec	114	145
INJECTION SCREW STROKE	mm	200	200
SCREW DIAMETER	mm	40	45
SCREW L/D RATIO		22	19.5
SCREW SPEED	rpm	228	228
PLASTICIZING RATE (GPPS)	gm/sec	22.8	31.3
NOZZLE DEPTH	mm	45	45
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	1250	
MOULD OPENING STROKE	mm	380	
MOULD HEIGHT MIN / MAX	mm	180/425	
MAX. DAYLIGHT	mm	805	
DISTANCE BETWEEN TIE ROD	mm	425 X 425	
PLATEN SIZE (H X V)	mm	625 X 625	
EJECTOR STROKE	mm	140	
EJECTOR FORCE	KN	40	
GENERAL			
ELECTRIC MOTOR	kw	15	
HEATING LOAD	kw	11.3	
CONNECTED LOAD	kw	26.3	
TOTAL OIL CAPACITY	L	250	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	50	
MACHINE DIEMENSION (L X W X H)	m	4.8 X 1.5 X 2.2	
MACHINE WEIGHT	kg	4300	



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MODEL		SPM – 160 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	419	604
THEORETICAL DISPLACEMENT	cc	471	678
INJECTION PRESSURE	bar	1800	1250
INJECTION RATE	cc/sec	157	204
INJECTION SCREW STROKE	mm	240	240
SCREW DIAMETER	mm	50	60
SCREW L/D RATIO		22	18.3
SCREW SPEED	rpm	215	215
PLASTICIZING RATE (GPPS)	gm/sec	30.4	47.4
NOZZLE DEPTH	mm	45	45
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	1600	
MOULD OPENING STROKE	mm	430	
MOULD HEIGHT MIN / MAX	mm	200 / 485	
MAX. DAYLIGHT	mm	915	
DISTANCE BETWEEN TIE ROD	mm	460 X 460	
PLATEN SIZE (H X V)	mm	675 X 675	
EJECTOR STROKE	mm	140	
EJECTOR FORCE	KN	40	
GENERAL			
ELECTRIC MOTOR	kw	22.5	
HEATING LOAD	kw	13.2	
CONNECTED LOAD	kw	35.7	
TOTAL OIL CAPACITY	L	320	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	50	
MACHINE DIEMENSION (L X W X H)	m	5X1.6X2.3	
MACHINE WEIGHT	kg	5600	



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MODEL		SPM – 225 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	705	827
THEORETICAL DISPLACEMENT	cc	792	929
INJECTION PRESSURE	bar	1875	1597
INJECTION RATE	cc/sec	210	252
INJECTION SCREW STROKE	mm	280	280
SCREW DIAMETER	mm	60	65
SCREW L/D RATIO		21.6	20
SCREW SPEED	rpm	190	190
PLASTICIZING RATE (GPPS)	gm/sec	41	40
NOZZLE DEPTH	mm	50	50
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	2250	
MOULD OPENING STROKE	mm	525	
MOULD HEIGHT MIN / MAX	mm	250 / 625	
MAX. DAYLIGHT	mm	1150	
DISTANCE BETWEEN TIE ROD	mm	560 X 560	
PLATEN SIZE (H X V)	mm	820 X 820	
EJECTOR STROKE	mm	160	
EJECTOR FORCE	KN	65	
GENERAL			
ELECTRIC MOTOR	kw	30	
HEATING LOAD	kw	17	
CONNECTED LOAD	kw	47	
TOTAL OIL CAPACITY	L	500	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	75	
MACHINE DIEMENSION (L X W X H)	m	6.1X1.9X2.5	
MACHINE WEIGHT	kg	8500	



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MODEL		SPM - 300 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	945	1096
THEORETICAL DISPLACEMENT	cc	1062	1232
INJECTION PRESSURE	bar	1800	1552
INJECTION RATE	cc/sec	246	288
INJECTION SCREW STROKE	mm	320	320
SCREW DIAMETER	mm	65	70
SCREW L/D RATIO		21.5	20
SCREW SPEED	rpm	180	180
PLASTICIZING RATE (GPPS)	gm/sec	38	51
NOZZLE DEPTH	mm	50	50
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	3000	
MOULD OPENING STROKE	mm	630	
MOULD HEIGHT MIN / MAX	mm	300 / 680	
MAX. DAYLIGHT	mm	1310	
DISTANCE BETWEEN TIE ROD	mm	660 X 660	
PLATEN SIZE (H X V)	mm	950 X 950	
EJECTOR STROKE	mm	160	
EJECTOR FORCE	KN	65	
GENERAL			
ELECTRIC MOTOR	kw	37.5	
HEATING LOAD	kw	21.8	
CONNECTED LOAD	kw	59.3	
TOTAL OIL CAPACITY	L	600	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	75	
MACHINE DIEMENSION (L X W X H)	m	6.5 X 2 X 2.7	
MACHINE WEIGHT	kg	11500	



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MODEL		SPM - 360 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	1233	1610
THEORETICAL DISPLACEMENT	cc	1385	1810
INJECTION PRESSURE	bar	1850	1415
INJECTION RATE	cc/sec	298	390
INJECTION SCREW STROKE	mm	360	360
SCREW DIAMETER	mm	70	80
SCREW L/D RATIO		22.9	20
SCREW SPEED	rpm	150	150
PLASTICIZING RATE (GPPS)	gm/sec	41.7	57.9
NOZZLE DEPTH	mm	50	50
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	3600	
MOULD OPENING STROKE	mm	700	
MOULD HEIGHT MIN / MAX	mm	325 / 750	
MAX. DAYLIGHT	mm	1450	
DISTANCE BETWEEN TIE ROD	mm	730 X 730	
PLATEN SIZE (H X V)	mm	1050 X 1050	
EJECTOR STROKE	mm	200	
EJECTOR FORCE	KN	80	
GENERAL			
ELECTRIC MOTOR	kw	37.5	
HEATING LOAD	kw	27.3	
CONNECTED LOAD	kw	64.8	
TOTAL OIL CAPACITY	L	600	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	75	
MACHINE DIEMENSION (L X W X H)	m	7.4 X 2.1 X 2.7	
MACHINE WEIGHT	kg	15000	



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MODEL		PPM - 18 TON
INJECTION UNIT	UNIT	
SHOT WEIGHT (GPPS)	gms	22
THEORETICAL DISPLACEMENT	cc	25
INJECTION PRESSURE	bar	1325
INJECTION RATE	cc/sec	21
INJECTION SCREW STROKE	mm	80
SCREW DIAMETER	mm	20
SCREW L/D RATIO		20
SCREW SPEED	rpm	200
PLASTICIZING RATE (GPPS)	gm/sec	2.4
NOZZLE DEPTH	mm	30
NO OF HEATING ZONE		4
CLAMP UNIT		
MOULD CLAMPING FORCE	KN	18
MOULD OPENING STROKE	mm	200
MOULD HEIGHT MIN / MAX	mm	100 / 250
MAX. DAYLIGHT	mm	450
DISTANCE BETWEEN TIE ROD	mm	200 X 200
PLATEN SIZE (H X V)	mm	300 X 300
EJECTOR STROKE	mm	80
EJECTOR FORCE	KN	10
GENERAL		
ELECTRIC MOTOR	kw	2.2
HEATING LOAD	kw	3
CONNECTED LOAD	kw	5.2
TOTAL OIL CAPACITY	L	60
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	25
MACHINE DIEMENSION (L X W X H)	m	2.5 X 0.9 X 1.5
MACHINE WEIGHT	kg	900



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MODEL		PPM - 60 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	52	75
THEORETICAL DISPLACEMENT	cc	59	85
INJECTION PRESSURE	bar	1900	1330
INJECTION RATE	cc/sec	28	40
INJECTION SCREW STROKE	mm	120	120
SCREW DIAMETER	mm	25	30
SCREW L/D RATIO		20	16.5
SCREW SPEED	rpm	210	210
PLASTICIZING RATE (GPPS)	gm/sec	3.7	5.8
NOZZLE DEPTH	mm	30	30
NO OF HEATING ZONE		4	4
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	600	
MOULD OPENING STROKE	mm	260	
MOULD HEIGHT MIN / MAX	mm	100 / 300	
MAX. DAYLIGHT	mm	560	
DISTANCE BETWEEN TIE ROD	mm	320 X 260	
PLATEN SIZE (H X V)	mm	480 X 420	
EJECTOR STROKE	mm	80	
EJECTOR FORCE	KN	30	
GENERAL			
ELECTRIC MOTOR	kw	5.6	
HEATING LOAD	kw	5.2	
CONNECTED LOAD	kw	10.8	
TOTAL OIL CAPACITY	L	125	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	40	
MACHINE DIEMENSION (L X W X H)	m	3.6 X 1.2 X 1.8	
MACHINE WEIGHT	kg	2100	



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MODEL		PPM - 80 TON	
INJECTION UNIT	UNIT		
SHOT WEIGHT (GPPS)	gms	137	179
THEORETICAL DISPLACEMENT	cc	154	201
INJECTION PRESSURE	bar	1800	1360
INJECTION RATE	cc/sec	70	90
INJECTION SCREW STROKE	mm	160	160
SCREW DIAMETER	mm	35	40
SCREW L/D RATIO		20	17.5
SCREW SPEED	rpm	225	225
PLASTICIZING RATE (GPPS)	gm/sec	10.8	14.4
NOZZLE DEPTH	mm	45	45
NO OF HEATING ZONE		5	5
CLAMP UNIT			
MOULD CLAMPING FORCE	KN	800	
MOULD OPENING STROKE	mm	310	
MOULD HEIGHT MIN / MAX	mm	150 / 325	
MAX. DAYLIGHT	mm	650	
DISTANCE BETWEEN TIE ROD	mm	320 X 320	
PLATEN SIZE (H X V)	mm	500 X 500	
EJECTOR STROKE	mm	100	
EJECTOR FORCE	KN	40	
GENERAL			
ELECTRIC MOTOR	kw	7.5	
HEATING LOAD	kw	7.3	
CONNECTED LOAD	kw	14.8	
TOTAL OIL CAPACITY	L	180	
WATER REQUIREMENT (Inlet temp. 29 deg)	Imp	40	
MACHINE DIEMENSION (L X W X H)	m	4.2 X 1.5 X 2.2	
MACHINE WEIGHT	kg	3250	