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SPECIFICATION FOR FULLY AUTOMATIC DIRECT LOCK INJECTION MOULDING MACHINES

M/C MODEL	Unit	IM :20	IM: 30	IM:60	IM: 85	IM: 110	IM : 130	IM : 150	IM : 200	IM:250	IM:350	IM:450
(HP) Plasticising capacity	Kg/hr	15	20	30	40	40	60	60	90	110	155	180
Calculated swept volume	cc	32	49	113	135	153	276	276	510	640	1308	1700
Shot capacity (Polysterene)	gms	28	44	100	121	135	221	221	459	577	1111	1530
Rate of Injection	Cc/sec	23	38	70	132	132	150	150	206	240	334	780
Injection pressure	Kg/cm2	2200	1800	1800	1820	1820	1800	1800	1800	1800	1800	1800
Screw diameter	mm	20	20	30	35	35	40	40	50	55	70	80
Screw L / D ratio	-		18.1	20.1	18.1	18.1	18.1	18.1	20.1	20.1	20.1	18.1
(MP) Plasticising capacity	Kg/hr	30	25	40	45	45	65	70	100	120	169	200
Calculated swept volume	cc	70	70	153	175	201	300	333	617	763	1532	2160
Shot capacity (Polysterene)	gms	63	63	139	157	180	270	300	560	688	1300	1944
Rate of Injection	Cc/sec	112	50	95	173	185	190	190	250	285	383	980
Injection pressure	Kg/cm2	1250	1250	1322	1393	1393	1422	1422	1490	1512	1568	1422
Screw diameter	mm	30	30	35	40	40	45	45	55	60	75	90
Screw L / D ratio	-	15:1	15:1	18:1	15.8:1	18:1	20:1	22:1	18:1	18:1	18:1	16:1
(LP) Plasticising capacity	Kg/hr	-	-	-	-	-	70	70	110	130	180	220
Calculated swept volume	cc	-	-	-	-	-	314	412	735	895	1508	2670
Shot capacity (Polysterene)	gms	-	-	-	-	-	282	340	660	806	1357	2400
Rate of Injection	Cc/sec	-	-	-	-	-	233	233	298	335	436	1220
Injection pressure	Kg/cm2	-	-	-	-	-	1152	1152	1250	1288	1378	1152
Screw diameter	mm	-	-	-	-	-	50	50	60	65	80	100
Screw L / D ratio	-	-	-	-	-	-	14.4:1	18:1	16:1	16:1	18.:1	14.4:1
LOCKING UNIT												
Mould clamping force	Tons	20	30	60	85	110	130	150	200	250	350	450
Size of mould plate	H	mm	375	425	500	525	610	650	700	740	850	950
	V	mm	375	425	500	520	610	650	700	740	855	950
Distance between tie bars	H	mm	250	305	360	370	410	450	500	520	550	650
	V	mm	250	205	360	370	410	450	500	520	550	650
Minimum mould height	mm	100	150	200	200	200	200	200	300	300	300	500
Minimum mould height (without spacer)	mm				300	300				450	400	
Mould opening stroke	mm	300	350	350	350	350	550	550	600	700	1000	1000
Max day light	mm	400	500	550	650	650	750	750	900	1150	1400	1500
HYDRUALIC EQUIPMENT												
System pressure	kg/cm2	130	140	140	140	140	150	150	150	150	150	150
HYDRUALIC EJECTOR												
Ejector force	TONS	2.75	2.75	2.75	2.75	2.75	2.75	2.75	5.7	5.7	7.5	14
Stroke	mm	60	70	70	110	110	110	110	140	140	200	200
ELECTRIC SUPPLY												
Electric motor	kw	3.7	5.5	7.5	15	15	18.5	22	25	30	35	70
Heating capacity	kw	2.5	4.6	5.5	6	6	9.4	9.4	11.2	13	22	31.5
Installed total power	kw	6.2	10.1	13	21	21	27.9	31.4	36.7	43	57	101.5
NET WEIGHT	Tons	1.3	2.2	3	4.1	4.2	4.6	5	8.2	10.5	16	29
FLOOR SPACE												
Length	mm	3000	3600	4200	4750	4750	4700	4700	6300	6400	7500	10000
Breadth	mm	850	1050	1000	1000	1000	1100	1100	1250	1150	1800	2300
Height	mm	1750	1750	1750	1850	1850	1950	1950	2000	2000	2300	2500

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