

PLASTICS INJECTION MOLDING MACHINE

MODEL	UNIT	VT - 60			VT - 80			VT - 110			VT - 140			VT - 200
		A	B	C	A	B	C	A	B	C	A	B	C	
INJECTION UNIT														
Screw Diameter	mm	30	30	27	35	35	32	45	45	40	50	50	45	55
Screw L / D Ratio		18:01	18:01	20:01	18:01	18:01	20:01	18:01	18:01	20:01	18:01	18:01	20:01	18:01
Max. Swept Volume	Cub. cm	105	105	86	168	168	140	317	317	251	431	431	349	555
Max. Shot Weight	gms	95	95	77	151	151	126	285	285	225	388	388	314	500
Max. Injection Pressure	Kg. / cm ²	1100	1400	2058	1100	1540	1842	1100	1540	1961	1100	1650	2016	1100/1500
Rate Of Injection	cc / sec	42	42	35	55	55	46	115	115	91	165	165	134	213
Screw Speed	rpm	250	250	250	250	250	250	250	250	250	250	250	250	200
Nozzle Force	Tons	3	3	3	3	3	3	5	5	5	5	5	5	6
LOCKING UNIT														
Mold Clamping Force	Tons	60			80			110			140			200
Mold Clamping Stroke	mm	240			300			325			400			450
Mold Thickness - Min - Max.	mm	150 - 300			150 - 350			200 - 400			200 - 450			200 - 560
Max. Day light Openin	mm	540			650			725			850			1010
Space Betn. Tie Bars - H x V	mm	325 X 325			375 X 350			420 X 420			460 X 460			520 X 520
Platen Size -	mm	470 X 470			550 X 550			630 X 630			720 X 720			750 X 750
HYDRAULIC EJECTOR														
Ejector Stroke	mm	50			65			85			110			110
Ejector Force	Tons	2			3			5			6			5
GENERAL														
Electric Motor	HP	5	7.5	7.5	7.5	10	10	15	20	20	20	30	30	30 (40)
Heating Capacity	HP	5	5	5	7	7	7	10.4	10.4	10.4	12	12	12	15 (12)
Total Connected Load	HP	10	12.5	12.5	14.5	17	17	25.4	30.4	30.4	32	42	42	45 (52)
Tank Capacity	Lts	150			225			350			400			500
Machine weight	Tons	2			2.75			4.5			5.5			7.5
Floor Space (L x W x H)	Mtr.	3.25 X 1.0 X 1.5			3.25 X 1.25 X 1.75			4.5 X 1.5 X 2.0			5.5 X 2.0 X 2.2			6.2 X 1.4 X 2.3

Salient Features :-

Proportional Hydraulics for Pressure & Flow Fault Diadnosis & Multi Stages of all The Functions Strong & Robust Mechanical Structure	INJECTION UNIT Injection in 5 Stages Hold on in 4 Stages Refill in 3 Stages Suck Back in 2 Stages Direct Hydraulic Screw Drive Carriage Movement in 2 stages Sprue Break Facility Linear Transducer for precision control of movements	CLAMPING UNIT Motorised Mould Height Adjustment Automatic Lubrication Five Point Twin Toggle Mechanism Ejector Forward / Retract in Two stages Linear Transducer for precision control of movements	MICROPROCESSOR 30 sets of Mould Data Memory PID Temperature Control Production counter Monthly Production History Last 128 Alarm Display Real time Clock Fault Diagnosis through IP / OP Display Weekly Heating Schedule	OPTIONAL FEATURES 1) "T " Slot Platen 2) Variable Displacement Pump - VDP 3) Core Pull - Single/ Double 4) Air Ejection System 5) Water Manifold 6) Hopper Dryer & Loader 7) Extra Long Ejector Stroke 8) Extra Large Platen / Day Light
--	---	---	---	---

PLASTICS INJECTION MOLDING MACHINE

MODEL		PS 60		PS 90		PS120		PS 160	
	UNIT	A	B	A	B	A	B	A	B
INJECTION UNIT									
Screw Diameter	mm	32	27	38	32	45	40	52	45
Screw L / D Ratio		18:01	21:01	18:01	21.5:01	18:01	20:01	18:01	21:01
Max. Swept Volume	Cub. cm	108	77	198	140	317	251	466	350
Max. Shot Weight	gms	98	70	178	126	285	226	420	315
Max. Injection Pressure	Kg. / cm2	1550	2300	1540	2170	1600	2025	1600	2140
Rate Of Injection	cc / sec	65	45	81	57	125	99	169	126
Screw Speed	rpm	275	275	250	250	250	250	200	200
Nozzle Force	Tons	3	3	3.3	3.3	4.6	4.6	4.6	4.6
Screw Stroke	mm	135	135	175	175	200	200	220	220
Hopper Capacity	Kg.	25	25	25	25	50	50	50	50
LOCKING UNIT									
Mold Clamping Force	Tons	60		90		120		160	
Mold Clamping Stroke	mm	240		300		340		410	
Mold Thickness - Min - Max.	mm	150-325		150 - 375		150 - 425		200 - 450	
Max. Day light Openin	mm	565		675		765		910	
Space Betn. Tie Bars - H x V	mm	325 X 300		390 X 360		430 X 430		480 X 480	
Platen Size -	mm	470 X 470		565 X 565		640 X 640		740 X 740	
HYDRAULIC EJECTOR									
Ejector Stroke	mm	65		80		100		125	
Ejector Force	Tons	2.8		3.5		5		7.1	
GENERAL									
Electric Motor	HP	7.5	7.5	10	10	20	20	25	25
Heating Capacity	HP	5	5	7	7	9	9	14	14
Total Connected Load	HP	12.5	12.5	17	17	29	29	39	39
Tank Capacity	Lts	150		225		350		400	
Machine weight	Tons	2.3		3.5		5		6	
Floor Space (L x W x H)	Mtr.	3.25 X 1.0 X 1.5		3.6 X 1.25 X 1.75		4.2 X 1.5 X 2.0		5.5 X 1.8 X 2.2	

Salient Features :-

Proportional Hydraulics for Pressure & Flow

Fault Diagnosis & Multi Stages of all Functions .

Strong & Robust Mechanical Structure

INJECTION UNIT

Injection in 5 Stages

Hold on in 4 Stages

Refill in 3 Stages

Suck Back in 2 Stages

Direct Hydraulic Screw Drive

Carriage Movement in 2 stages

Sprue Break Facility

Linear Transducer for precision control of movements

CLAMPING UNIT

Motorised Mould Height Adjustment

Automatic Lubrication

Five Point Twin Toggle

Mechanism

Ejector Forward / Retract in Two stages

Linear Transducer for precision control of movements

MICROPROCESSOR

30 sets of Mould Data Memory

PID Temperature Control

Production counter

Monthly Production History

Last 128 Alarm Display

Real time Clock

Fault Diagnosis through IP / OP

Display

Weekly Heating Schedule

OPTIONAL FEATURES

1) "T " Slot Platen

2) Variable Displacement Pump - VDP

3) Core Pull - Single/ Double

4) Air Ejection System

5) Water Manifold

6) Hopper Dryer & Loader

7) Extra Long Ejector Stroke

8) Extra Large Platen / Day Light

PLASTICS INJECTION MOLDING MACHINES - PET SERIES

MODEL		PS 80 P	PS 120 P	PS 150 P	PS 180 P	PS 200 P
	UNIT					
INJECTION UNIT						
Screw Diameter	mm	42	45	52	60	67
Screw L / D Ratio		21:01	21:01	20:01	20:01	20:01
Max. Swept Volume	Cub. cm	255	325	475	725	975
Max. Shot Weight	gms	243	317	467	678	945
Max. Injection Pressure	Kg. / cm2	1250	1250	1250	1250	1250
Rate Of Injection	cc / sec	120	145	188	224	275
Screw Speed	rpm	200	200	165	150	140
Screw Stroke	mm	175	200	220	240	290
Nozzle Force	Tons	3	4.3	4.3	5	6
LOCKING UNIT						
Mold Clamping Force	Tons	80	120	150	180	200
Mold Clamping Stroke	mm	300	325	400	450	450
Mold Thickness - Min - Max.	mm	130 - 400	160 - 450	160 - 500	180 - 560	180 - 560
Max. Day light Openin	mm	700	775	900	1010	1010
Space Betn. Tie Bars - H x V	mm	375 X 350	420 X 420	460 X 460	520 X 520	520 X 520
Platen Size -	mm	550 X 550	630 X 630	720 x 720	750 x 750	750 X 750
HYDRAULIC EJECTOR						
Ejector Stroke	mm	80	100	130	130	150
Ejector Force	Tons	4.5	6.3	7	8	10
GENERAL						
Electric Motor	HP	12.5	20	25	30	30
Heating Capacity	HP	9	11	15	15	20
Total Connected Load	HP	19.5	31	40	45	50
Tank Capacity	Lts	200	250	400	450	500
Machine weight	Tons	3	4.5	5.5	7	7
Floor Space (L x W x H)	Mtr.	3.75 X 1.5 X 3	5 X 1.5 X 2.0	6.0 X 2.0 X 2.0	6.7 X 1.4 X 2.3	7 x 1.4 x 2.3

SALIENT FEATURES :- Higher Shot Weight Larger Distance betn. Tie bars Larger Ejection stroke Higher Ejection force Proportional Pressure & Speed (Flow) Control Strong & Robust Mechanical Structure	CONTROLLER FEATURES :- Precise multi stage PID Controller Intel Microprocessor Graphical LCD Display 32 Digital Inputs / OutPuts Data Retentions for more than 10 Years Monthly Production History Stastical Quality Control Chart 30 Sets of Mould Memory	OPTIONAL FEATURES :- Variable Displacement Pump - VDP Chrome Plated Screw & Ring Plunger Assly Shutt - Off Nozzle Parallel Circuit Enlarged Mould Thickness
---	---	---

VERTICAL INJECTION VERTICAL LOCKING MOLDING MACHINE

MODEL		VRT 15	VRT 30	VRT 50
	UNIT	FDP	FDP	FDP
INJECTION UNIT				
Screw Diameter	mm	25	30	35
Max. Shot weight	gms	53	80	120
Max. Injection Pressure	Kg / Cm2	1200	1100	1100
LOCKING UNIT				
Mold Clamping Force	Tons	15	30	50
Mold Clamping Stroke	mm	160	200	225
Mold Thickness (Min - Max)	mm	100	150	200
Max. Day light Opening	mm	260	350	425
Size Of Platen	mm	300 X 200	350X 200	400 X 200
GENERAL				
Electric Motor	HP	3	5	7.5
Heating capacity	HP	3	4.3	7.5
Tank Capacity	Ltrs	85	100	150
Machine Weight	Tons	1	1.5	2
HYDRAULIC EJECTOR				
Ejector Stroke	mm	35	40	50
Ejector Force	Tons	1.3	1.7	2.2

SALIENT FEATURES :-

Hydraulic Clamping

Proportional Pressure Control

Micro-processor Control with 60 Mould memory

PID Temperature Control

Proximity Switches for Precise Movement Control of all Functions

Hydraulic ejector

Multiple Stages for all Functions

Fault Diagnostic Facility

VERTICAL INJECTION HORIZONTAL LOCKING MOLDING MACHINE

MODEL		PV 30	PV 40	PV 50
	UNIT			
INJECTION UNIT				
Screw Diameter	mm	30	35	35
Max. Shot weight	gms	60	100	150
Max. Injection Pressure	Kg / Cm2	1100	1100	1100
LOCKING UNIT				
Mold Clamping Force	Tons	30	40	50
Mold Clamping Stroke	mm	200	200	240
Mold Thickness (Min - Max)	mm	150	150	300
Max. Day light Opening	mm	350	350	540
Space Betn. Tie Bars (H X V	mm	250 x 200	265 X 265	300 X 300
GENERAL				
Electric Motor	HP	3	5	7.5
Heating capacity	HP	3.5	4	5
Tank Capacity	Ltrs	100	125	150
Machine Weight	Tons	1	1.25	1.75
HYDRAULIC EJECTOR				
Ejector Stroke	mm	40	40	50
Ejector Force	Tons	1.7	1.7	2.0

SALIENT FEATURES :-

Side Folding 5 Points Twin Toggles
Twin Cylinder Injection
Hydraulic movement for Carriage
PID Temperature Control
Proportional Pressure Control
Micro-processor Control with 60 Mould memory
Hydraulic Multi Strokes ejector
Low Height with Strong C Frame Constructions