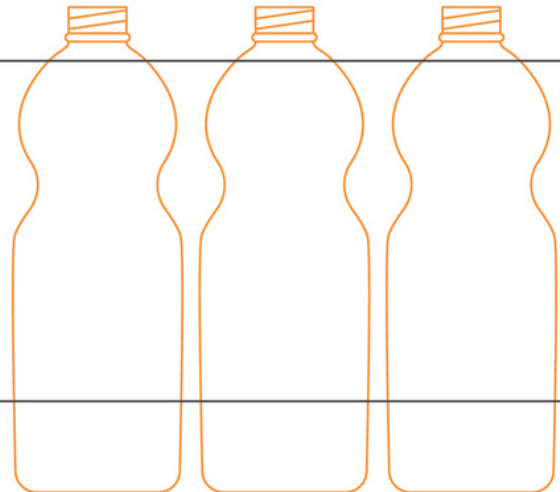
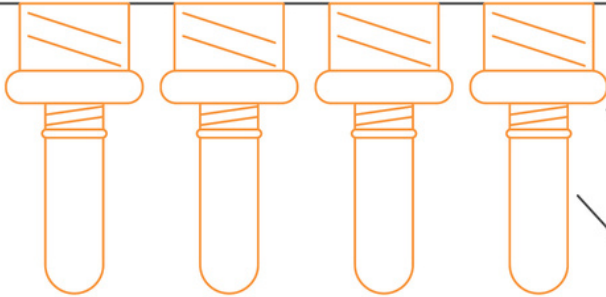


Advanced Solutions for
PET Preform Manufacturing



PM PET
125 - 450 T



Advanced Clamping for Efficiency & Accuracy

Designed for precision, the PET Series clamp system runs on LM guideways, reducing friction and enhancing movement. It supports higher mold loads while ensuring perfect alignment and stability.

Ejector

- High ejector force with large strokes
- Multi ejector holes for multi cavities
- Settable speed & pressure in HMI
- Parallel ejector operations possible (optional)

Injection

- 6 Stage settable Injection speed & pressure
- Closed Loop Pressure Control through pressure sensor
- Settable Pack/Hold pressure steps
- Linear position transducer
- Sliding Hopper mechanism
- High Through output & Quick response
- Insulated Ceramic Heaters
- Barrier Screw design for better melt quality and low shear
- Heater Failure Detection & Monitoring on screen
- Injection unit with LM Guides
- High torque Hydro motor

PM PET

Production of Pet Preforms

Machine Base Structure

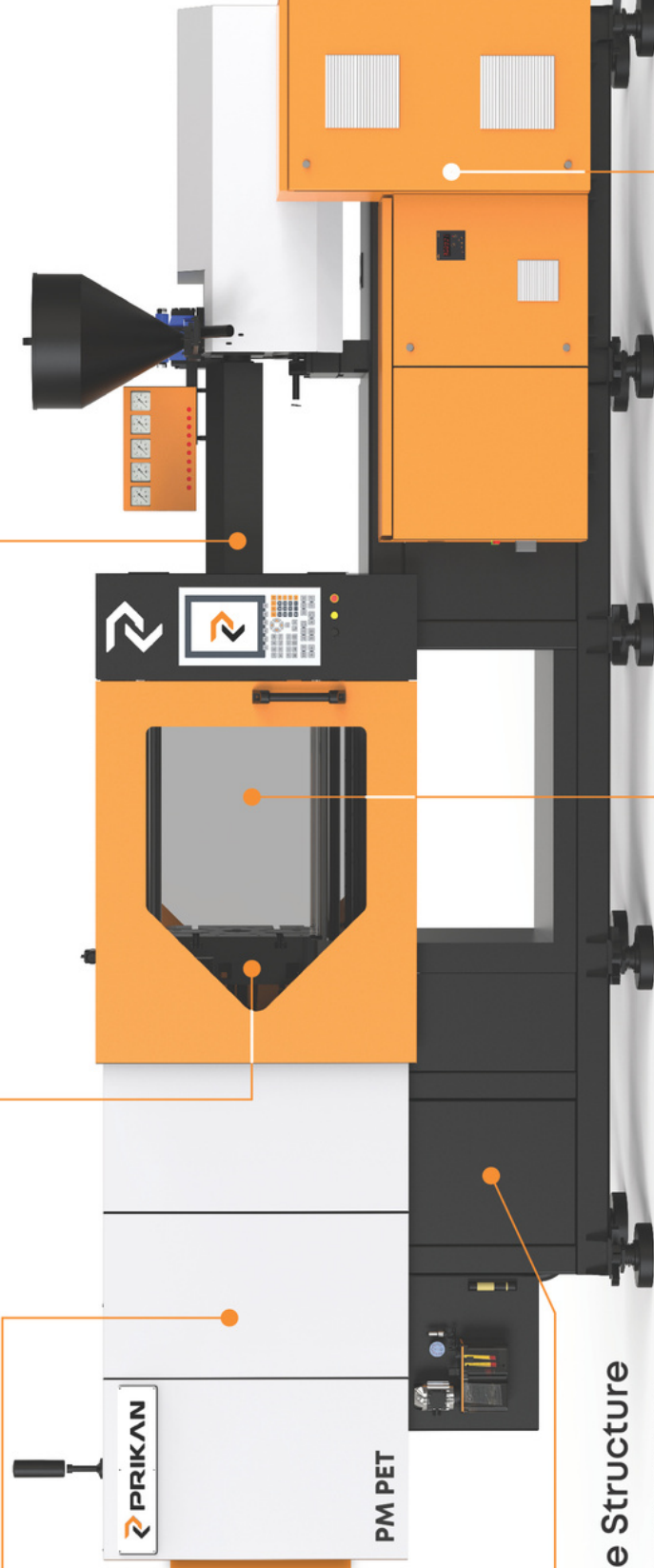
The lower machine base height improves stability and reduces vibrations, even at high molding speeds.

Mold Care System

Your mold is the heart of your injection molding process, and protecting it is our priority. The new PET Series machines come equipped with an intelligent Mold Safety system that continuously monitors each cycle. If any leftover material or foreign object is detected between the core and cavity, the system instantly intervenes to prevent damage. With real-time data analysis after every cycle, our machines ensure smooth, efficient, and safe operations—so you can focus on production without worries.

Servo Controlled Pump

- For Energy Saving
- Smooth operation & low noise level



PM PET

Range 125 | 150 | 200 | 280 | 350 | 450 Ton

TECHNICAL DATA

MACHINE MODEL		PM PET - 125		PM PET - 150			PM PET - 200			
MODEL SIZE		1250-630	1250-630	1500-970	1500-970	1500-970	2000-970	2000-970	2000-970	2000-1470
INJECTION UNIT	UNIT	630	630	970	970	970	970	970	970	1470
Screw Diameter	mm	45	50	50	55	65	50	55	65	70
Injection Shot Weight (PET)	gms	403	500	560	672	940	560	672	940	1272
Theoretical Displacement	CC	342	424	471	570	796	471	570	796	1078
Maximum Injection Pressure	bar	1853	1501	2053	1696	1215	2053	1696	1215	1361
Injection Rate	cc/sec	238	293	276	336	475	276	336	475	571
Screw L/D Ratio		24	24	24	24	24	24	24	24	24
Injection Screw Stroke	mm	215	215	240	240	240	240	240	240	280
Screw Speed	rpm	220	220	190	180	160	190	180	160	140
Plasticizing Rate (PET)	gm/sec	45	50	53	60	85	53	60	85	105
No. of Heating Zones	barrel + nozzle	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1
Total Heat Capacity	KW (hp)	10 (13)	12 (16)	14 (18)	17 (22)	19 (25)	14 (18)	17 (22)	19 (25)	28 (37)
CLAMPING UNIT	UNIT									
Clamping Force	ton	125	125	150	150	150	200	200	200	200
Distance Between Tie Bar (HxV)	mm	450 x 450	450 x 450	510 x 510	510 x 510	510 x 510	570 x 570	570 x 570	570 x 570	570 x 57
Platen Size (HxV)	mm	670 x 670	670 x 670	740 x 740	740 x 740	740 x 740	830 x 830	830 x 830	830 x 830	830 x 830
Mold Opening Stroke	mm	550	550	650	650	650	850	850	850	850
Mold Height Minimum	mm	200	200	250	250	250	250	250	250	250
Ejector Force	ton	5.6	5.6	10	10	10	14.2	14.2	14.2	14.2
Ejector Stroke	mm	130	130	180	180	180	200	200	200	200
Maximum Daylight	mm	750	750	900	900	900	1100	1100	1100	1100
Mould Weight Capacity	kg	1050	1050	2000	2000	2000	2800	2800	2800	2800
GENERAL DATA	UNIT									
Water Requirement (Inlet Temp 26 deg.)	lpm	125	125	180	180	180	180	180	180	180
Total Oil Tank Capacity	ltrs.	440	440	570	570	570	650	650	650	650
Machine Dimension	LxWxH (mtr)	4.6 x 1.2 x 1.8	4.8 x 1.2 x 1.8	5.8 x 1.5 x 2.2	5.8 x 1.5 x 2.2	6.5 x 1.8 x 2.1	6.8 x 1.8 x 2.2	6.8 x 1.8 x 2.2	7.1 x 1.8 x 2.2	7.2 x 1.8 x 2.2
Machine Weight	Kg	6200	6500	8200	8200	8500	9300	9400	9600	9800
Servo Motor	KW (hp)	17 (22)	17 (22)	28 (37)	28 (37)	28 (37)	28 (37)	28 (37)	28 (37)	35 (46)
Connected Load	KW (hp)	27 (35)	29 (38)	42 (55)	45 (59)	47 (62)	42 (55)	45 (59)	47 (62)	63 (83)

MACHINE MODEL		PM PET - 280			PM PET - 350			PM PET - 450	
MODEL SIZE		2800-970	2800-1470	2800-2350	3500-1470	3500-2350	3500-2940	4500-2350	4500-2940
INJECTION UNIT	UNIT	970	1470	2350	1470	2350	2940	2350	2940
Screw Diameter	mm	65	70	80	70	80	90	80	90
Injection Shot Weight (PET)	gms	940	1272	1897	1272	1897	2701	1897	2701
Theoretical Displacement	CC	796	1078	1608	1078	1608	2289	1608	2289
Maximum Injection Pressure	bar	1215	1361	1462	1361	1462	1284	1462	1284
Injection Rate	cc/sec	475	571	775	571	775	884	775	884
Screw L/D Ratio		24	24	24	24	24	24	24	24
Injection Screw Stroke	mm	240	280	320	280	320	360	320	360
Screw Speed	rpm	160	140	125	140	125	95	125	95
Plasticizing Rate (PET)	gm/sec	85	105	115	105	115	135	115	135
No. of Heating Zones	barrel + nozzle	4+ 1	4+ 1	4 + 1	4+ 1	4+ 1	4+ 1	4 + 1	4+ 1
Total Heat Capacity	KW (hp)	19 (25)	28 (37)	40 (53)	28 (37)	40 (53)	63 (83)	40 (53)	63 (83)
CLAMPING UNIT	UNIT								
Clamping Force	ton	280	280	280	350	350	350	450	450
Distance Between Tie Bar (HxV)	mm	660 x 660	660 x 660	660 x 660	730 x 730	730 x 730	730 x 730	840 x 840	840 x 840
Platen Size (HxV)	mm	920 x 920	920 x 920	920 x 920	1035 x 1035	1035 x 1035	1035 x 1035	1210 x 1210	1210 x 1210
Mold Opening Stroke	mm	850	850	850	1100	1100	1100	1100	1100
Mold Height Minimum	mm	550	550	550	300	300	300	400	400
Ejector Force	ton	24.2	24.2	24.2	18.5	18.5	18.5	24.2	24.2
Ejector Stroke	mm	200	200	200	200	200	200	200	200
Maximum Daylight	mm	1400	1400	1400	1400	1400	1400	1500	1500
Mould Weight Capacity	kg	4200	4200	4200	5800	5800	5800	7500	7500
GENERAL DATA	UNIT								
Water Requirement (Inlet Temp 26 deg.)	lpm	200	200	200	220	220	220	250	250
Total Oil Tank Capacity	ltrs.	950	950	950	1150	1150	1150	1540	1540
Machine Dimension	LxWxH (mtr)	7.2 x 2.0 x 2.2	7.3 x 2.0 x 2.2	7.5 x 2.2 x 2.2	7.8 x 2.3 x 3.0	8.1 x 2.3 x 3.0	8.3 x 2.3 x 3.0	9.0 x 2.5 x 3.1	9.2 x 2.5 x 3.1
Machine Weight	Kg	11500	12500	13800	14500	15200	16500	20200	21500
Servo Motor	KW (hp)	28 (37)	35 (46)	35 (46)	37 (49)	45 (60)	45 (60)	55 (75)	55 (75)
Connected Load	KW (hp)	47 (62)	63 (83)	63 (83)	65 (86)	85 (113)	108 (143)	95 (128)	118 (158)



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