

Machines that **WIN** your trust



## INNOVATIVE TECHNOLOGY FOR **PET PREFORMS**



125 to 350 Ton

### **ARMOUR PET** Series

Toggle Injection Moulding Machines

#### **Machine Features**

- Wide platens and daylight accommodate larger size moulds
- Energy efficient Variable Delivery Pump (VDP)
- Larger Ejector strokes & co-ordinated forces for multi-cavity ejection
- Patented Screw ensures high output at reduced material shear and better melt homogeneity
- Injection unit with Linear Guide ways
- Feed throat temperature control
- Statistical Process Control



# Machine Specifications

Parameters	Unit	Armour 125 PET	Armour 150 PET	Armour 180 PET	Armour 220 PET	Armour 260 PET	Armour 350 PET
<b>Injection Unit</b>		<b>640</b>	<b>825</b>	<b>1480</b>	<b>2275</b>	<b>2275</b>	<b>3750</b>
Screw Diameter	mm	50	60	70	80	80	100
Injection Pressure	bar	1555	1215	1380	1415	1415	1260
Stroke Volume	cc	412	678	1077	1608	1608	2985
Screw Stroke	mm	210	240	280	320	320	380
Max. Injected Weight (PET)	g	486	800	1271	1897	1897	3522
Injection Rate	cc/s	230	409	458	495	495	696
Plasticising Rate (PET) @ Max. Speed	g/s	52	75	92	120	120	135
Screw Speed - Max.	rpm	180	175	140	112	112	110
L/D Ratio	-	24	24	24	25	25	24
Heating Capacity	kW	17.7	19.7	27.5	37	37	65
No. of Heating Zones	no.	4	5	6	6	6	6
Nozzle Protrusion	mm	45	65	65	65	65	65
Nozzle Contact Force	kN	60	60	60	75	75	75
<b>Closing Unit</b>							
Clamping Force	ton	125	150	180	220	260	350
Mould Opening Stroke	mm	375	430	430	510	510	610
Mould Height (Min.~Max.)	mm	180 ~ 450	200 ~ 500	200 ~ 500	230 ~ 580	230 ~ 580	300 ~ 650
Distance Between Platens - Max.	mm	825	930	930	1090	1090	1260
Distance Between Tiebars (H x V)	mm	460 x 460	510 x 510	510 x 510	578 x 578	560 x 560	710 x 710
Clamping Platens (H x V)	mm	670 x 670	750 x 750	750 x 750	840 x 840	840 x 840	1030 x 1030
Ejector Force	kN	49	75	75	130	130	130
Ejector Stroke	mm	140	135	135	180	180	200
Mould Weight - Max.	kg	1250	1500	1800	2200	2600	3500
<b>General Data</b>							
Pump Drive	kW	22	30	37	45	45	55
Overall Dimensions (LxWxH)	mm	5175 x 1410 x 2200	5835 x 1525 x 2235	6500 x 1825 x 2600	7665 x 2050 x 2660	7665 x 2050 x 2660	8790 x 2050 x 2660
Total Connected Load	kW	39.7	49.7	64.5	82	82	120
Oil Tank Capacity	lit.	285	375	400	500	500	1000
Hopper Capacity	lit.	40	40	65	93	93	93
Machine Weight	ton	6	8	10.5	14	14	19

\*Specifications are subject to change on account of technical developments.



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