

SMC Injection Blow Moulding Machines

For container ranging from 5ml to 1 liter

IBS Series – Technical Data



SMC Machine Model	Unit	65IBS		85IBS		135IBS	
General Specification							
Injection Mould Clamping Force	kN	565		700		1200	
Blow Mould Clamping Force	kN	90		170		300	
Standard Trigger Bar Length	mm	500		750		1050	
Swing Radius	mm	570		650		830	
Machine Center of Pressure	mm	440		465		550	
Operating pressure	bar	80		100		100	
High Pressure	bar	150		150		150	
Dry Cycle Time	sec	3		3		3	
Mould Dimensions							
Mould Width (Max)	mm	420		450		700	
Mould Length (Max)	mm	620		880		1200	
Mould Thickness (Min)	mm	254		254		254	
Injection Mould Opening	mm	160		160		190	
Blow Mould Opening	mm	160		160		160	
Injection Unit							
Screw Diameter	mm	50		60		70	
Length / Diameter Ratio	L/D	21		21		21	
Theoretical Shot Volume*	cm ³	320		510		1322	
Maximum Shot Weight (PS)*	g	270		470		1116	
Number of Heating Zone	no.	5		5		5+1	
Energy Consumption with Inverter Drive							
Hydraulic Pump Motor	kW	44.00		67.00		90.00	
Heating Capacity (Max)	kW	14.20		22.00		30.00	
Total Connected Load	kW	58.20		89.00		122.00	
Average Power Consumption*	kW	34.92		53.40		73.20	
Estimated Power Consumption*	kW	31.71		40.27		42.70	
Average Air Consumption	NL/min	800		1300		1500	
Required Air Pressure (Min)	bar	8		8		8	
Mould Cooling System (Chiller)	ton	7		10		10	
Hydraulic System Cooling*	kcal/hr	20000		30000		45000	
Cooling System Pressure	bar	2-3		2-3		2-3	
Machine Dimensions							
Machine Width**	mm	2020		2430		2900	
Machine Length**	mm	4800		5000		6100	
Machine Height**	mm	2500		2400		2800	
Machine Weight**	kg	11000		13900		20000	
Moulding Utilization		65IBS		85IBS		135IBS	
No. of Cavity		Center Distance (mm)	Max Article Size (D x H)	Center Distance (mm)	Max Article Size (D x H)	Center Distance (mm)	Max Article Size (D x H)
4 Cavities		115	100x160	165	150x180	180	160x250
6 Cavities		95	80x100	115	100x160	165	150x180
8 Cavities		65	50x100	90	75x150	115	100x160
10 Cavities		55	40x80	70	55x150	100	85x150
12 Cavities		45	30x80	65	50x120	90	75x150
14 Cavities		35	23x60	55	40x100	70	55x150
16 Cavities		32	20x90	50	35x100	65	50x150
18 Cavities		28	16x90	42	30x100	60	45x120
20 Cavities				35	23x100	55	40x120
22 Cavities						48	35x120
28 Cavities						38	25x120

Remark : * Final values may vary as all are made to order / **Machine dimension excluding machine accessories