

DIRECTIONAL VALVE CONTROL

For container ranging from 30ml to 10 liters

TC & DTC Series – Technical Data



SMC Machine Model	Unit	1000TC	1000DTC	2000TC	2000DTC	3000TC	3000DTC	5000TC	5000DTC	10000TC	10000DTC
General Specification											
Capacity / Article Size	ml	Up to 1000	Up to 1000	Up to 2000	Up to 2000	Up to 3000	Up to 3000	Up to 5000	Up to 5000	Up to 10000	Up to 10000
Carriage Stroke	mm	400	400	500	500	600	600	650	650	800	800
Clamping Force	kN	30	30	50	50	120	120	150	150	230 @150bar	230 @150bar
Mould Dimensions (W x L x T)*	mm	380x300x120	380x300x120	480x320x160	480x320x160	580x370x260	580x370x260	630x400x260	630x400x260	780x400x260	780x400x260
Daylight Opening (Min/Max)	mm	110/360	110/360	150/450	150/450	250/550	250/550	250/650	250/650	250/650	250/650
Dry Cycle	sec	3.5	5.5	4	6	6	8	6	8	10	10
Extrusion Die Head Center Distance (CD)											
2 Cavities	mm	120	120	160	160	180	180	250	250	300	300
3 Cavities	mm	85	85	100	100	160	160	180	180	200	200
4 Cavities	mm	65	65	85	85	120	120	140	140	180	180
6 Cavities	mm			65	65	85	85	85	85	100	100
8 Cavities	mm					65	65	65	65	85	85
Extruder Unit with Inverter Drive											
Screw Diameter	mm	52	60	60	70	70	80	80	90	90	110
Length / Diameter Ratio	L/D	24	24	24	24	24	24	24	24	24	24
Number of Heating Zones	No.	3	3	3	3	3	3	3	5	5	5
Screw Speed (Max)	rpm	75	75	75	75	75	75	75	75	75	75
Hydraulic Unit											
Oil Tank Capacity	litre	150	200	200	200	300	400	300	400	400	600
Accumulator	litre	4	10	10	20	20	32	32	32	32+4	50+10
Energy Consumption with Inverter Drive											
Electric Screw Motor	kW	22	22	30	30	30	45	45	55	55	90
Main Drive Power	kW	7.5	7.5	7.5	11	15	18.5	18.5	22	37	45
Total Connected Load	kW	41.00	51.40	52.50	70.00	72.50	97.00	97.00	116.50	119.70	195.98
Average Power Consumption**	kW	27.60	30.84	35.70	42.00	50.70	58.20	58.20	69.90	71.82	117.58
Average Air Consumption	NL/min	1200	2400	1400	2800	1600	3200	1800	3600	2000	4000
Required Air Pressure (Min)	bar	6	6	6	6	6	6	6	6	6	6
Mould Cooling System (Chiller)	ton	5	5	5	7	5	10	7	10	10	10
Cooling System Pressure	bar	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
Hydraulic System Cooling**	kcal/hr	3500	3500	3500	5000	7300	8600	8600	10500	16500	19500
Machine Dimensions											
Machine Width***	mm	2100	2100	2100	2600	2675	3350	2725	3450	3000	4200
Machine Length***	mm	3900	3900	3900	3900	5300	5300	5300	5300	5300	6000
Machine Height***	mm	2800	2800	2800	2800	3500	3500	3500	3500	3500	3500
Machine Weight***	kg	7000	9300	8500	10500	11000	13200	12000	14400	14000	18000

Remark: *Mould dimension including the water cooling connection
 **Final values may vary as all are made to order
 ***Machine dimension excluding auto-punch and accessories