



# TG & DTG SERIES

## Technical Data



### SMC Machine Model

Unit	3000TG	3000DTG	5000TG	5000DTG	10000TG	10000DTG
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#### General Specification

Clamping Movement		Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Capacity / Article Size	ml	Up to 3000	Up to 3000	Up to 5000	Up to 5000	Up to 10000	Up to 10000
Clamping Force	kN	180	180	230	230	277	277
Operating Pressure	bar	100	100	120	120	120	120
High Pressure	bar	150	150	150	150	180	180
Mould Dimensions (W x L x T)	mm	580 x 400 x 260	580 x 400 x 260	630 x 400 x 260	640 x 400 x 260	780 x 400 x 260	780 x 400 x 260
Daylight Opening (Min/Max)	mm	250/550	250/550	250/650	250/650	250/650	250/650
Dry Cycle	sec	4	6	6	8	10	10

#### Extrusion Die Head Center Distance (CD)

2 Cavities	mm	180	180	250	250	300	300
3 Cavities	mm	160	160	180	180	200	200
4 Cavities	mm	120	120	140	140	180	180
6 Cavities	mm	85	85	85	85	100	100
8 Cavities	mm	65	65	65	65	85	85

#### Extruder Unit with Inverter Drive

Screw Diameter	mm	70	80	80	90	100	120
Length / Diameter Ratio	L/D	24	24	24	24	24	24
Number of Heating Zones	No.	3	3	3	5	5	5
Screw Speed (Max)	rpm	75	75	75	75	75	75

#### Hydraulic Unit

Oil Tank Capacity	litre	300	400	550	600	550	600
Accumulator	litre	20 + 4	32 + 4	32 + 4	50 + 10	32 + 10	50 + 10

#### Energy Consumption with Inverter Drive

Electric Screw Motor	kW	30	45	45	45	55	110
Main Drive Power	kW	18.5 + 11	22 + 11	22	45	45	45
Hydraulic Pump	gpm	17	24	30	48.64	30	48.64
Barrel Heater	kW	18.00	18.00	18.00	22.50	30	35
Heating Capacity (Max)	kW	26.80	37.20	37.20	43.70	27.7	60.98
Total Connected Load	kW	85.80	104.20	115.20	133.70	130.20	180.98
Average Power Consumption*	kW	51.48	62.52	57.60	80.22	78.12	108.58
Estimated Power Consumption*	kW	36.60	49.04	51.00	54.17	43.07	71.04
Average Air Consumption	NL/min	1800	2400	2600	3200	2600	3200
Required Air Pressure (Min)	bar	6	6	6	6	6	6
Mould Cooling System (Chiller)	Ton	5	7	7	10	10	10
Cooling System Pressure	bar	2-3	2-3	2-3	2-3	2-3	2-3
Hydraulic System Cooling*	kcal/hr	12900	15000	16000	20000	16000	20000

#### Machine Dimensions

Machine Width*	mm	2675	3350	2725	3450	3100	4200
Machine Length*	mm	5300	5300	5300	5300	5900	7000
Machine Height*	mm	3500	3500	3500	3500	3500	3500
Machine Weight*	kg	11500	13500	12700	15000	14000	18000

Remark : \*Estimated Values only