



# Specifications SM-TSV Series • 55 ton - 1550 ton

## Energy Saving Toggle Injection Molding Machines

MODEL		50-TSV	90TSV	120TSV	150TSV	200TSV	250TSV	350TSV	450TSV	650TSV	850TSV	1100-TSV	1400-TSV												
Clamping Force	US tons	55	100	130	165	220	280	390	500	720	940	1200	1550												
Opening Stroke	in	9.84	10.63	13.78	15.75	18.50	21.65	25.59	29.13	35.43	39.37	49.21	53.15												
Max Daylight	in	22.44	24.41	29.53	33.46	40.16	47.24	53.94	62.60	78.74	86.61	100.39	108.27												
Mold Height (min/max)	in	3.94 - 12.6	4.92 - 13.78	5.91 - 15.75	5.91 - 17.72	7.87 - 21.65	7.87 - 25.59	11.81 - 28.35	11.81 - 33.46	13.78 - 43.31	15.75 - 47.24	19.69 - 51.18	27.56 - 55.12												
Space between Tie Bar	HxV in	12.6 x 12.6	14.17 x 14.17	16.93 x 16.93	18.11 x 18.11	20.08 x 20.08	24.02 x 24.02	28.35 x 28.35	32.28 x 32.28	35.83 x 38.83	42.52 x 42.52	49.21 x 49.21	55.91 x 55.91												
Platen Dimension	HxV in	18.11 x 18.11	20.87 x 20.87	24.8 x 24.21	26.77 x 25.98	30.31 x 28.35	35.04 x 33.07	40.75 x 40.75	46.06 x 46.65	53.15 x 53.15	63.78 x 62.01	71.65 x 71.65	80.71 x 80.71												
Hydraulic Ejector	US tons X in	2.4 x 3.15	3.3 x 3.54	3.7 x 4.92	3.7 x 4.92	5.5 x 5.91	8.3 x 5.91	8.8 x 7.87	13.2 x 7.87	15.4 x 9.84	15.4 x 9.84	23.7 x 15.75	23.7 x 15.75												
Injection Volume	in <sup>3</sup>	3.9	4.9	5.6	6.9	7.8	10.6	11.8	15.3	23.3	29.8	33.7	44.9	50	62.4	86.3	106	142	178	207	240	325	386	386	454
Shot Weight (PS)	oz	2.1	2.6	3.0	3.7	4.2	5.6	6.3	8.2	12	16	18	24	27	33	46	57	76	95	110	128	173	206	206	242
Screw Diameter	in	0.98	1.10	1.10	1.22	1.22	1.42	1.42	1.61	1.81	2.05	2.05	2.36	2.36	2.64	2.95	3.27	3.27	3.66	3.66	3.94	4.33	4.72	4.72	5.12
Injection Pressure	psi	37550	29869	37976	31007	40679	30153	38972	30011	37834	29585	39825	29869	37265	29869	28232	23042	31007	24606	27309	23611	29727	25033	31007	26455
Injection Rate	in <sup>3</sup> /sec	4.6	5.7	5.3	6.5	7.2	9.7	8.2	10.6	13.8	17.6	16.2	21.6	17.3	21.7	18.2	22.3	29.7	37.2	37.2	43.0	46.3	55.1	50.6	59.4
Screw Stroke	in	5.12	5.91	6.69	7.48	9.06	10.24	11.42	12.60	16.93	19.69	22.05	22.05												
Screw Rotation	rpm	290	300	300	300	245	200	175	110	130	130	125	120												
Plasticizing Capacity	oz/sec	0.23	0.29	0.34	0.37	0.43	0.49	0.67	0.78	0.92	1.27	1.34	1.59	1.59	2.05	1.55	1.90	2.22	2.82	2.82	3.25	4.23	5.04	4.83	5.68
Total IPM Pump Motor	HP	15	15	20	20	35	40	40	40	75	95	120	135												
Heating Capacity	Kw	6	7	7	8	9	10	10	12	18	20	22	22	25	25	27	27	35	35	35	35	35	48	35	64
Max System Pressure	psi	2489	2489	2489	2489	2489	2489	2489	2489	2489	2489	2489	2489												
Oil Tank Capacity	gal	40	53	53	53	132	159	159	159	264	317	476	581												
Machine Dimensions	LWH ft	13.1 x 4.3 x 4.9	13.5 x 4.3 x 5.1	15.4 x 4.9 x 5.4	16.7 x 4.9 x 5.6	19.4 x 5.6 x 6.1	22.3 x 6.1 x 6.4	24.9 x 6.1 x 6.4	26.2 x 6.9 x 6.9	37.7 x 7.2 x 7.2	37.7 x 7.9 x 7.9	40.7 x 8.5 x 8.9	44.9 x 9.5 x 9.2												
Machine Weight	lbs	7055	8378	10582	12346	20062	25353	34172	45195	77162	99208	121254	1743063												



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