



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 ³	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 ³ /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	