

MAXIMA SERVO 550



TECHNICAL SPECIFICATIONS

Injection Unit Specifications	ENGLISH METRIC	2290 Frame			3470 Frame			4880 Frame	
		A	B	C	A	B	C	A	B
Injection Capacity, Maximum GPPS	oz g	30 851	41 1,162	54 1,531	46 1,304	60 1,701	75 2,155	85 2,410	105 2,977
Theoretical Displacement	in ³ cm ³	55.2 905	75.2 1,232	98.2 1,609	84.5 1,385	110.4 1,810	139.8 2,290	155.3 2,545	191.7 3,142
Maximum Injection Pressure	psi bar	32,400 2,234	26,900 1,855	20,600 1,421	33,200 2,290	27,800 1,917	21,900 1,510	27,800 1,917	22,500 1,552
Injection Rate	in ³ / sec cm ³ / sec	21 337	28 459	37 599	28 452	36 590	46 747	40 655	49 809
Screw Stroke	in mm	12.6 320			14.2 360			15.7 400	
Screw Diameter	in mm	2.36 60	2.76 70	3.15 80	2.76 70	3.15 80	3.54 90	3.54 90	3.94 100
L / D Ratio	L / D	27	23	20	26	23	20	22	20
Low Torque Screw Speed Maximum	rpm	337	289	253	289	253	225	225	202
Low Torque at Screw	in - lb Nm	18,840 2,127			22,726 2,566			30,498 3,444	
	psi bar	2,450 169			2,450 169			2,450 169	
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	2.7 76	3.2 90	4.0 115	3.2 90	4 115	4.7 134	4.7 134	5.8 164
High Torque Screw Speed Maximum	rpm	226			251	251	225	202	
High Torque at Screw	in - lb Nm	26,324 3,310			30,876 3,882			41,572 5,227	
	psi bar	2,450 169			2,450 169			2,450 169	
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	1.8 51	2.5 70	3.6 103	2.8 78	4 115	4.7 134	4.2 120	5.8 164
Number of Pyrometers (Barrel / Nozzle)	qty	4/1			4/1			4/1	
Total Heat Capacity	kW	39.5			57.8			53.8	
Clamp									
Clamping Force	ton kN				550 4,895				
Clamp Opening Force	ton kN				27 240				
Clamp Stroke	in mm				58.1 1,475				
Clamp Speed Open/Close	in / sec mm / sec				41 / 41 1,041 / 1,041				
Maximum Daylight	in mm				67.9 1,725				
Min/Max Mold Thickness	in mm				9.9 / 39.4 250 / 1,000				
Maximum Mold Weight	lb kg				16,500 7,483				
Platen Size (H x V)	in mm				49.2 x 49.2 1,250 x 1,250				
Distance Between Tie Rods (H x V)	in mm				36.2 x 36.2 920 x 920				
Tie Rod Diameter	in mm				5.71 145				
Maximum Ejector Stroke	in mm				9.8 250				
Ejector Force @ 2000 psi	ton kN				13.2 117				
General									
Machine Dimensions (L x W x H)	in mm				308.5 x 100.4 x 123.7 7,836 x 2,550 x 3,141				
Shipping Weight (without oil)	lb kg				47,500 21,545				
Hydraulic System Pressure	psi bar				2,950 203				
Gear Pump Capacity	g / min l / min				101 382				
Injection and Extruder (1540 IU)	g / min l / min				101 382				
Eject and CP	g / min l / min				25 / 21 95 / 79				
Electric Motors	HP kW				55 41				
Oil Reservoir Capacity	gal L				260 984				
Heat Exchanger Water @ 85 F	g / min l / min				21 79				

Due to continuous improvements, specifications are subject to change without notice.