

# MAXIMA SERVO 1300



## TECHNICAL SPECIFICATIONS

Injection Unit Specifications	ENGLISH METRIC	10100 Frame		16000 Frame		23000 Frame	
		A	B	A	B	A	B
Injection Capacity, Maximum GPPS*	oz g	179 5,082	231 6,562	288 8,174	362 10,253	413 11,718	540 15,305
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	326 5,341	421 6,897	524 8,590	658 10,776	752 12,315	982 16,085
Maximum Injection Pressure	psi bar	27,500 1,896	21,300 1,469	27,500 1,896	21,900 1,510	27,500 1,896	21,100 1,455
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	68 1,114	87 1,425	67 1,097	81 1,327	77 1,261	101 1,655
Screw Stroke	in mm	22.10 562		27.60 700		31.50 800	
Screw Diameter	in mm	4.33 110	4.92 125	4.92 125	5.51 140	5.51 140	6.30 160
L / D Ratio	L / D	22.70**		22.40**		22.92**	
Low Torque Screw Speed Maximum	rpm	184		162		****	
Low Torque at Screw	in - lb Nm	73,211 8,272		****		****	
Low Torque at Pressure	psi bar	2,300 159		****		****	
Calculated Recovery Rate***	oz / sec g / sec	6.50 184		8.20 232		****	
High Torque Screw Speed Maximum	rpm	152		110		117	
High Torque at Screw	in - lb Nm	113,477 12,821		156,306 17,660		183,760 20,762	
High Torque at Pressure	psi bar	****		2,300 159		****	
Calculated Recovery Rate***	oz / sec g / sec	5.40 152	7.70 218	5.60 158	7.40 211	7.90 225	11.10 313
Number of Heating Zones	qty	****		4/1		****	
Total Heat Capacity	kW	61		65		91	
Nozzle Holding Force	ton kN	****		12 107		****	
Unit Stroke	in mm	****		38.20 970		****	
Calculated Injection Power	hp kW	283 210		279 207		321 238	
<b>Clamp</b>							
Clamping Force	ton kN	****		1,292 11,500		****	
Opening Force	ton kN	****		71.60 637		****	
Mold Opening Stroke	in mm	****		86.60 2,200		****	
Clamp Speed	in / sec mm / sec	****		37 940		****	
Maximum Daylight with Ejector System	in mm	****		110.20 2,800		****	
Maximum Daylight without Ejector System (optional traverse cylinder location)	in mm	****		****		****	
Minimum / Maximum Mold Thickness with Ejector System	in mm	****		23.60 / 61.40 600 / 1,560		****	
Minimum / Maximum Mold Thickness without Ejector System	in mm	****		****		****	
Minimum / Maximum Mold Thickness without Ejector System (optional traverse cylinder location)	in mm	****		****		****	
Maximum Mold Weight	lb kg	****		55,500 25,175		****	
Platen Size (H x V)	in mm	****		86.60 x 70.10 2,200 x 1,780		****	
Distance Between Tie Rods (H x V)	in mm	****		65.70 x 52.40 1,670 x 1,330		****	
Tie Rod Diameter	in mm	****		8.86 225		****	
Eject Stroke Maximum	in mm	****		11.80 300		****	
Eject Force @ 2190 psi (150 bar)	ton kN	****		28.10 250		****	
Mold Locating Ring Inside Diameter	in mm	****		5 127		****	
<b>General</b>							
Machine Dimensions (L x W x H)	in mm	443.80 x 145.80 x 105.40 11,273 x 3,702 x 2,678		471.40 x 145.80 x 105.40 11,973 x 3,702 x 2,678		488.10 x 145.80 x 105.40 12,398 x 3,702 x 2,678	
Shipping Weight (without oil)	lb kg	157,700 71,530		174,700 79,250		182,600 82,800	
Hydraulic System Pressure	psi bar	****		2,600 180		****	
Pump Capacity @ 100 psi (7 bar)	gpm L / min	****		214 810		268 1,014	
Servo Motors	kW	****		92.40		115.50	
Oil Reservoir Capacity	gal L	****		470 1,780		****	
Water Requirements Heat Exchanger @ 90° F (32° C)	gpm L / min	****		25 95		****	

\*Conversion factor 0.95 g/cc based on polystyrene

\*\*L/D calculation includes feedthroat width

\*\*\*Calculated based on polystyrene

\*\*\*\*Does not apply to this model