



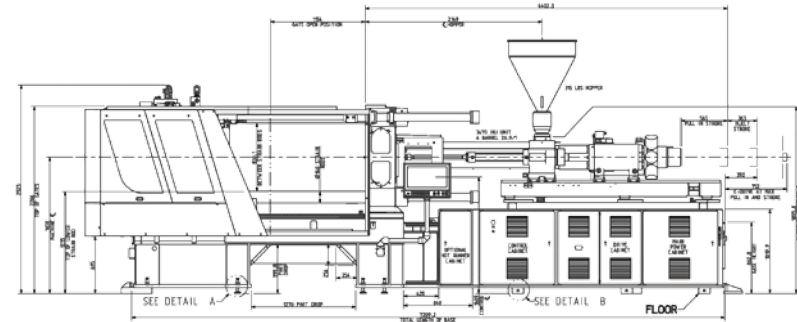
MAXIMA

PERFORMANCE SERIES

Tonnage: 500

Frame Sizes:
2290, 3470, 4880

TECHNICAL SPECIFICATIONS



	ENGLISH METRIC	2290 Frame			3470 Frame			4880 Frame		
		A	B	C	A	B	C	A'	A	C
General										
Electrical Motors	hp kW	26 (21 hp) / 80 (107 hp) 26 (16 kW) / 80 (43 kW)			26 (21 hp) / 80 (107 hp) 26 (16 kW) / 80 (43 kW)			40 (54 hp) / 80 (107 hp) 40 (19 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95			25 95		
Connected Load	FLI	179			202			198		
Overall Dimensions (L x W x H)	in mm	283.8 x 86 x 99 8,136 x 2,179 x 2,523			283.8 x 86 x 99 8,170 x 2,179 x 2,523			283.8 x 86 x 99 8,586 x 2,179 x 2,523		
Machine Weight (without oil)	lbs kg	44,975 20,400			47,615 21,600			52,700 23,900		
Injection Unit Specifications										
Injection Capacity, Maximum GPPS	oz gms	30 850	41 1,162	54 1,530	46 1,304	60 1,701	76 2,155	67 1,899	85 2,410	105 2,977
Theoretical Displacement	in ³ cm ³	55.2 904	75.1 1,231	98.1 1,608	84.5 1,385	110.4 1,809	139.7 2,290	122.6 2,010	155.2 2,544	191.7 3,141
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	35,100 2,421	27,800 1,917	22,500 1,552
Injection Rate	in ³ /sec cm ³ /sec	27.4 449	37.3 611	48.7 798	27.6 453	36.1 591	45.7 749	32.3 529	40.9 670	50.4 827
Injection Velocity	in/sec mm/sec	6.13 155.70			4.54 115.4			4.07 103.3		
Screw Stroke	in mm	12.6 320			14.2 360			15.7 400		
Back Pressure Limits	psi bar	500			500			500		
Low Torque Screw Speed Max	rpm	337	289	253	289	253	225	253	225	202
Low Torque at Screw	in-lb Nm	18,970 2,143			22,745 2,570			31,524 3,562		
at bar	bar PSI	2,450 169			2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	2.7 76	3.2 90	4.0 115	3.2 90	4.0 115	4.7 134	4.0 115	4.7 134	5.8 164
High Torque Screw Speed Max	rpm	289	289	253	243	243	225	200	200	200
High Torque at Screw	in-lb Nm	28,974 3,274			34,450 3,892			47,267 5,340		
at bar	bar PSI	2,450 169			2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	2.3 65	3.2 90	4.0 115	2.7 77	3.8 108	4.7 134	3.0 85	4.8 136	5.9 167

Notes
1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.

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		2290 Frame			3470 Frame			4880 Frame		
	ENGLISH METRIC	A	B	C	A	B	C	A'	A	C
Injection Unit Specifications (continued)										
Screw Diameter	in mm	2.36 60	2.76 70	3.15 80	2.76 70	3.15 80	3.54 90	3.15 80	3.54 90	3.94 100
Screw L/D Ratio	L/D	26.9	22.9	20	26	22.8	20	25	22.2	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1			4/1		
Total Heat Capacity	kW	39.5			57.8			53.0		
Clamp										
Clamping Force	ton kN	505 4,500			505 4,500			505 4,500		
Opening Force	ton kN	20.2 180			20.2 180			20.2 180		
Clamp Stroke	in mm	51.18 1,300			51.18 1,300			51.18 1,300		
Clamp Close Velocity	in/sec mm/sec	48.8 1,240.5			48.8 1,240.5			48.8 1,240.5		
Clamp Open Velocity	in/sec mm/sec	50.8 1,291.15			50.8 1,291.15			50.8 1,291.15		
Eject Force (forward)	tons kN	13.50 120			13.50 120			13.50 120		
Eject Velocity (forward)	in/sec mm/sec	7.76 197.16			7.76 197.16			7.76 197.16		
Eject Velocity (retract)	in/sec mm/sec	11.3 287.24			11.3 287.24			11.3 287.24		
Ejector Stroke	in mm	7.87 200			7.87 200			7.87 200		
Mold Protect Pressure	psi	1,500			1,500			1,500		
Maximum Daylight	in mm	64.96 1,650			64.96 1,650			64.96 1,650		
Extended Daylight	in mm	72.83 1,850			72.83 1,850			72.83 1,850		
Minimum Mold Height	in mm	13.78 350			13.78 350			13.78 350		
Maximum Mold Height	in mm	33.46 850			33.46 850			33.46 850		
Maximum Mold Weight	lbs kg	15,670 7,110			15,670 7,110			15,670 7,110		
Platen Size (H x V)	in mm	49.21 x 45.67 1,250 x 1,160			49.21 x 45.67 1,250 x 1,160			49.21 x 45.67 1,250 x 1,160		
Distance Between Tie Rods	in mm	36.22 x 32.68 920 x 830			36.22 x 32.68 920 x 830			36.22 x 32.68 920 x 830		
Tie Rod Diameter	in mm	5.51 140			5.51 140			5.51 140		
Eject and CP	g/min l/min	26/21 98/79			26/21 98/79			26/21 98/79		
Dry Cycle Time (Euromap 6)	sec	2.92 (25.3" stroke) w/o eject-on-the-fly			2.92 (25.3" stroke) w/o eject-on-the-fly			2.7 (25.3" stroke) w/o eject-on-the-fly		
Diagonal Tiebar Distance	in mm	51 1,297			51 1,297			51 1,297		
Rotary Turn Table Recommended		Varian 1000 mm			Varian 1000 mm			Varian 1000 mm		



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