

# Titan Model 1220

Demag Plastics Group		Titan Model 1220			
Model Description		6400	9500	13600	19000
International Size Description					

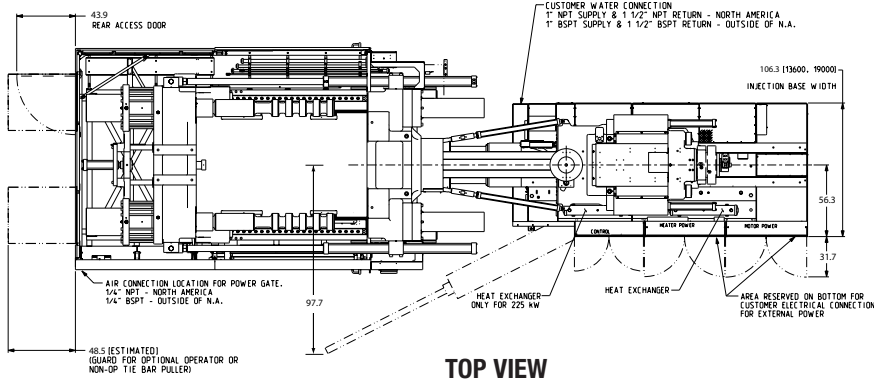
Clamp Unit					
Clamp Force	U.S. tons kN		1220	11000	
Open Force	U.S. tons kN		57	508	
Clamp Stroke - Max.	in. mm		83.5	2120	
Mold Thickness - Min.	in. mm		25.2	640	
Mold Thickness - Max.	in. mm		60.6	1540	
Open Daylight - Max.	in. mm		108.7	2760	
Platen Size					
Horizontal	in. mm		83.9	2130	
Vertical	in. mm		74.0	1880	
Distance Between Tie Bars					
Horizontal	in. mm		61.8	1570	
Vertical	in. mm		51.2	1300	
Ejector Stroke	in. mm		13.8	350	
Ejector Force	U.S. tons kN		26	233	
Clamp Speeds					
Closing	in./sec. mm/sec.	28.2 715	28.2 715	39.4 1000	39.4 1000
Opening	in./sec. mm/sec.	26.2 665	26.2 665	39.4 1000	39.4 1000

Injection Unit		6400			9500			13600			19000	
	Measure	HiPr	Std.	HiVol	HiPr	Std.	HiVol	HiPr	Std.	HiPr	Std.	
Screw Diameter	in. mm	3.15 80	3.74 95	4.33 110	3.74 95	4.33 110	5.12 130	4.33 110	5.12 130	5.12 130	5.71 145	
Screw L/D Ratio		24/1	20/1	20/1	23/1	20/1	20/1	20/1	20/1	20/1	20/1	
Injection Capacity (GPPS)	oz. g	78 2220	110 3131	148 4198	128 3626	171 4861	239 6789	187 5303	261 7406	287 8147	358 10,136	
Injection Capacity	cu. in. ccm	146 2388	205 3367	275 4514	238 3899	319 5227	445 7300	348 5702	486 7964	535 8760	665 10,899	
Recovery Rate (GPPS)	oz./sec. g/sec	3.1 89	4.6 131	6.3 180	3.0 86	4.2 118	6.2 175	4.2 120	6.2 177	4.7 134	6.1 174	
Injection Pressure	psi bar	34,672 2391	27,480 1895	20,496 1413	33,439 2306	26,326 1815	18,849 1300	34,673 2391	24,825 1712	31,600 2179	25,400 1751	
Injection Rate (@ 1740 psi) (@120 bar)	cu. in./sec. ccm/sec	33.3 546	47.0 770	63.0 1033	36.6 600	49.1 804	68.5 1123	55.9 917	78.1 1280	61.4 1006	76.4 1251	
Injection Stroke	in. mm		18.7 475			21.7 550			23.6 600		26.0 660	
Maximum Screw Speed	rpm		187			123			124		95	
Back Pressure Adjust	psi bar		75-300 5-20			75-300 5-20			75-300 5-20		75-300 5-20	
Barrel Heating Capacity	kW	43	43	59	59	59	79	79	94	97	116	

General Machine Specifications		6400			9500			13600			19000	
	Measure											
Oil Tank Capacity	gal. Liter	343	1300		343	1300		661	2500	661	2500	
Pump Motor	Hp kW	147	110		147	110		221	165	221	165	
Pump Capacity (@100 psi) (@7 bar)	gpm LPM	139	527		139	527		210	796	210	796	
Machine Weight (approx.)	lb. kg	149,000	67,646		150,700	68,418		162,000	73,548	170,500	77,407	
Machine Dimensions												
Length (approx.)	ft. m	37.1	11.3		39.7	12.1		40.4	12.3	40.7	12.4	
Width (approx.)	ft. m	12.1	3.7		12.1	3.7		12.1	3.7	12.1	3.7	
Height (approx.)	ft. m	9.8	3.0		9.8	3.0		9.8	3.0	9.8	3.0	

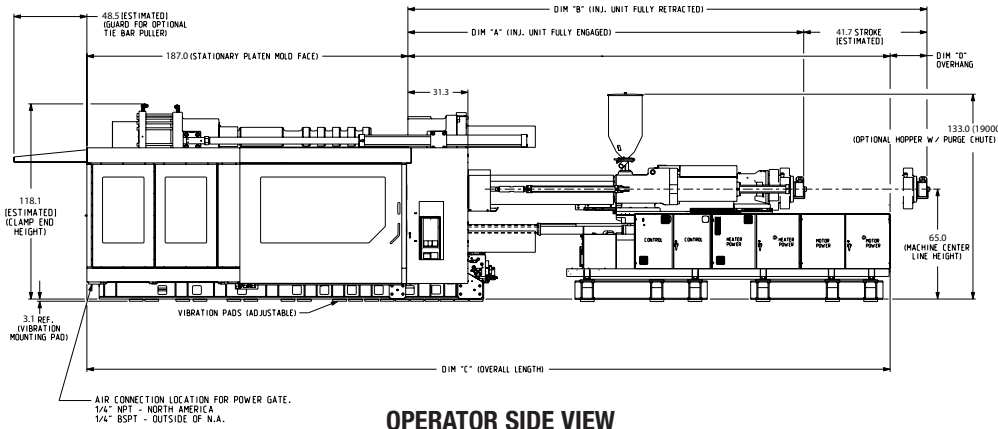
Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is the policy of Demag Plastics Group, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements including high-speed configurations.

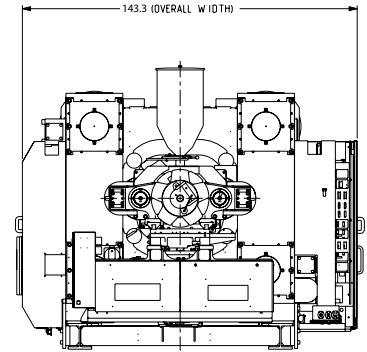


Injection Unit	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)
<b>STANDARD BARREL</b>				
95mm 20:1 6400	279.3	322.6	443.9	0
110mm 20:1 9500	297.0	340.4	473.0	0
130mm 20:1 13600	223.5	265.3	483.3	-28.4
130mm 25:1 13600	249.1	290.5	483.3	-2.8
145mm 20:1 19000	254.4	296.2	483.3	2.5
145mm 25:1 19000	290.4	332.1	483.3	38.4

**TOP VIEW**

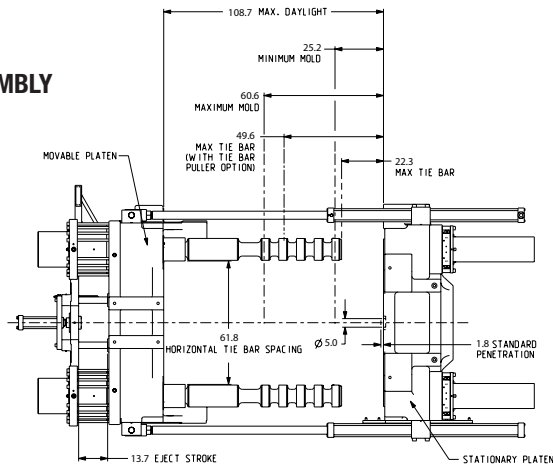


**OPERATOR SIDE VIEW**

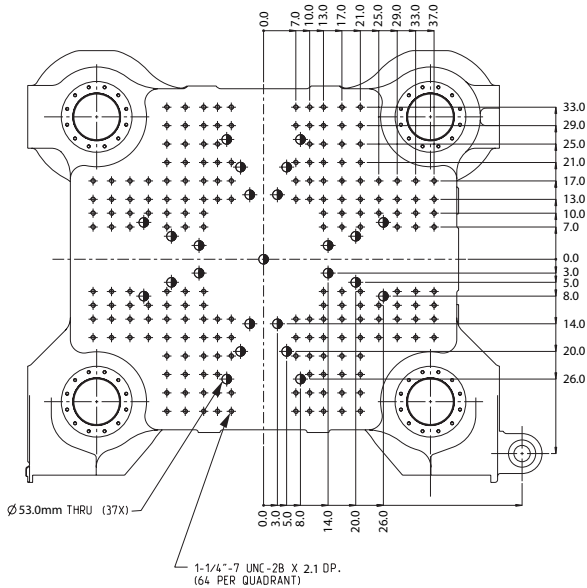


**INJECTION END VIEW**

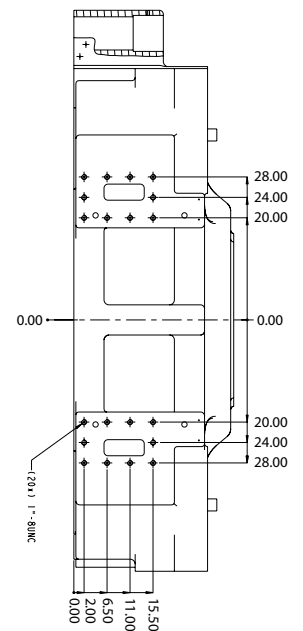
**CLAMP ASSEMBLY**



**MOVABLE PLATEN\***



**ROBOT MOUNTING PATTERN\***



\* SPI Specifications. Refer to Appendix for Euromap specifications.