

Titan Model 500

Demag Plastics Group		Titan Model 500		
Model Description		Titan Model 500		
International Size Description		1920	2800	4300

Clamp Unit				
Clamp Force	U.S. tons kN	500	4,450	
Open Force	U.S. tons kN	23	208	
Clamp Stroke - Max.	in. mm	51.2	1,300	
Mold Thickness - Min.	in. mm	11.8	300	
Mold Thickness - Max.	in. mm	34.25	870	
Open Daylight - Max.	in. mm	63.0	1,600	
Platen Size				
Horizontal (Standard)	in. mm	51.2	1,300	
Vertical	in. mm	51.2	1,300	
Distance Between Tie Bars				
Horizontal	in. mm	36.4	925	
Vertical	in. mm	36.4	925	
Ejector Stroke	in. mm	9.8	250	
Ejector Force	U.S. tons kN	15.7	140	
Clamp Speeds				
Closing	in./sec. mm/sec.	49.3	1,253	
Opening	in./sec. mm/sec.	51.3	1,304	

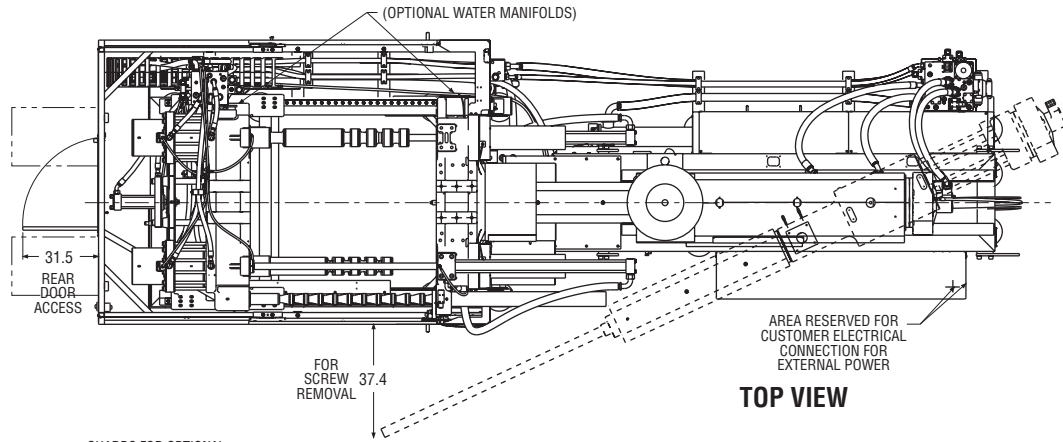
Injection Unit		1920		2800		4300	
Measure		HiPr	Std.	HiPr	Std.	HiPr	Std.
Screw Diameter	in. mm	2.36 60	2.76 70	2.76 70	3.15 80	3.15 80	3.74 95
Screw L/D Ratio		20/1		20/1		20/1	
Injection Capacity (GPPS)	oz. g	29.6 840	40.3 1,143	45.3 1,285	59.2 1,678	63.5 1,801	89.6 2,540
Injection Capacity	cu. in. ccm	54.4 891	74.0 1,212	83.1 1,362	108.6 1,779	116.6 1,910	164.4 2,694
Recovery Rate (GPPS)	oz./sec. g/sec	2.23 63	3.30 94	2.46 70	3.81 108	2.54 72	3.74 106
Injection Pressure	psi bar	31,191 2,151	22,916 1,580	29,592 2,040	22,656 1,562	32,625 2,249	23,136 1,595
Injection Rate (@ 10,000 psi) (@ 700 bar)	cu. in./sec. ccm/sec	27.9 458	38.0 623	29.4 482	38.4 630	26.7 437	37.6 617
Injection Stroke	in. mm	12.4 315		13.9 354		15.0 380	
Maximum Screw Speed	rpm	318	300	224		150	
Back Pressure Adjust	psi bar	75-300 5-21		75-300 5-21		75-300 5-21	
Barrel Heating Capacity	kW	25.6	33.4	34.0	38.0	42.8	56.0

General Machine Specifications		1920		2800		4300	
Measure							
Oil Tank Capacity	gal. Liter	130 492		130 492		130 492	
Pump Motor	Hp kW	75 56		75 56		75 56	
Pump Capacity (@100 psi) (@7 bar)	gpm LPM	104.9 397		104.9 397		104.9 397	
Machine Weight (approx.)	lb. kg	43,700 19,800		45,400 20,600		48,000 21,800	
Machine Dimensions							
Length	ft. m	25.7 7.8		25.8 7.9		27.7 8.5	
Width	ft. m	7.4 2.2		7.4 2.2		7.4 2.2	
Height	ft. m	8.7 2.7		8.7 2.7		8.7 2.7	

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.

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Injection Unit	A (in.)	B (in.)
STANDARD BARREL		
70mm 20:1 1920RR	158.8	178.5
70mm 25:1 1920RR	172.4	192.3
80mm 20:1 2800RR	174.8	194.5
80mm 25:1 2800RR	190.6	210.2
95mm 20:1 4300RR	198.4	218.1
95mm 25:1 4300RR	217.1	236.8

