

VAN DORN®

400 HP SERIES

Injection Unit

International Size	Measure	1220		1920		2800	
		Std.	HiPr	Std.	HiPr	Std.	HiPr
Injection Capacity (GPPS)	oz.	25.4	17.6	40.3	29.6	59.2	45.3
	g	720	490	1,142	839	1,678	1,284
Injection Capacity	cu. in.	46.6	32.4	74.0	54.4	108.6	83.1
	ccm	764	532	1,213	891	1,780	1,362
Recovery Rate (GPPS)	oz./sec.	1.67	1.37	2.25	1.67	3.04	2.24
	g/sec	47	39	64	47	86	64
Injection Pressure	psi	23,565	33,934	23,212	31,594	22,949	29,974
	bar	1,625	2,340	1,600	2,178	1,582	2,067
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	29.3	20.4	29.8	21.9	30.1	23.1
	ccm/sec	488	334	488	359	493	379
Injection Stroke	in.	10.63	10.63	12.40	12.40	13.94	13.94
	mm	270	270	315	315	354	354
Screw Diameter	in.	2.36	1.97	2.76	2.36	3.15	2.76
	mm	60	50	70	60	80	70
Screw L/D Ratio		20/1	20/1	20/1	20/1	20/1	20/1
		20/1	20/1	20/1	20/1	20/1	20/1
Maximum Screw Speed	rpm	238	286	204	238	179	204
	rpm	238	286	204	238	179	204
Back Pressure Adjust	psi	75-300	75-300	75-300	75-300	75-300	75-300
	bar	5-21	5-21	5-21	5-21	5-21	5-21
Barrel Heating Capacity	kW	22	18	33	26	38	34
	kW	22	18	33	26	38	34

General Machine Specifications

	Measure	1220	1920	2800
Pump Motor	hp	60	60	60
	kW	45	45	45
Pump Capacity	gpm	85	85	85
	lpm	322	322	322
Oil Capacity	gal.	300	300	300
	l	1135	1135	1135
Machine Weight (approx.)	lb.	37,300	37,500	38,000
	kg	16,920	17,010	17,240
Machine Dimensions				
Length	ft.	26.2	27.6	29.1
	m	8.0	8.4	8.9
Width	ft.	6.0	6.0	6.0
	m	1.8	1.8	1.8
Height	ft.	8.9	8.9	8.9
	m	2.7	2.7	2.7

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

Clamp Unit

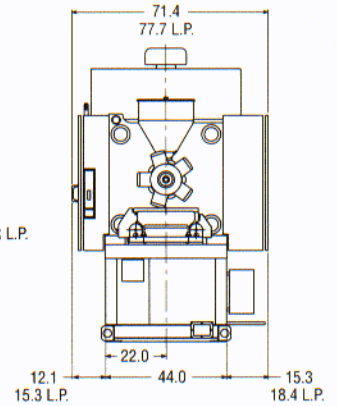
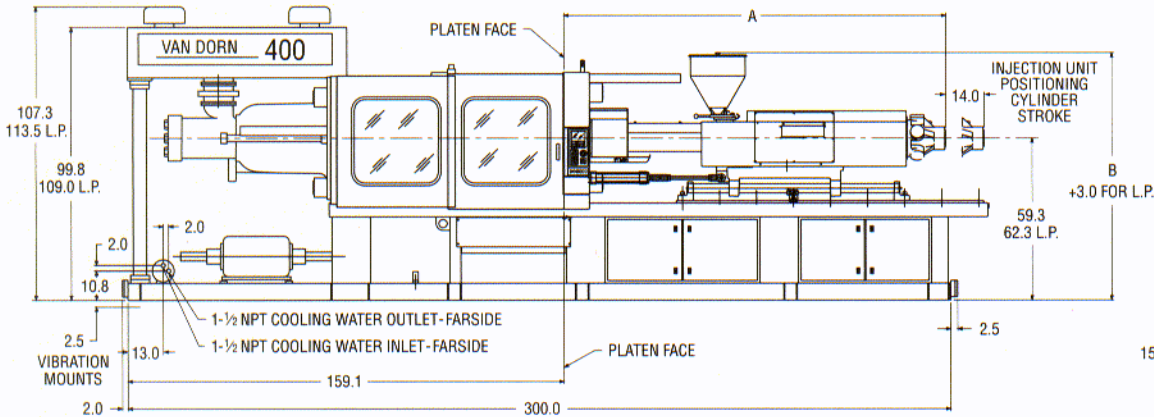
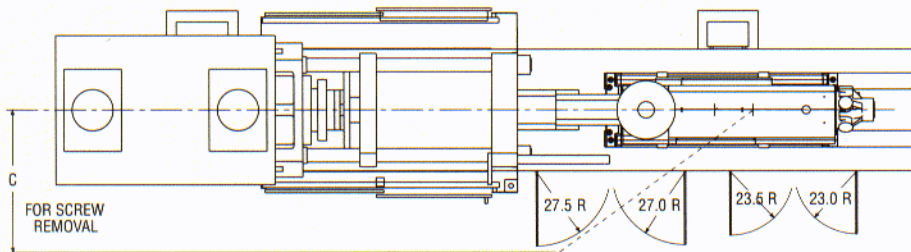
Clamp Force	U.S. tons kN	400 3,559
Open Force	U.S. tons kN	17.7 157
Clamp Stroke - Max.	in.	32
	mm	813
Open Daylight - Max. (w/o Ejector Box)	in.	54
	mm	1,372
Mold Thickness - Min. (w/ Ejector Box)	in.	10
	mm	254
Ejector Box Thickness	in.	12
	mm	305
Distance Between Tie Bars		
Horizontal (Standard)	in.	28
	mm	711
(Optional Extended Tie Bar Spacing)	in.	34.25
	mm	870
Vertical (Standard)	in.	28
	mm	711
(Optional Extended Tie Bar Spacing)	in.	34.25
	mm	870
Platen Size		
Horizontal (Standard)	in.	41.5
	mm	1,054
(Optional Extended Tie Bar Spacing)	in.	47.75
	mm	1,213
Vertical (Standard)	in.	41.5
	mm	1,054
(Optional Extended Tie Bar Spacing)	in.	47.75
	mm	1,213
Tie Bar Diameter	in.	5.0
	mm	127
Clamp Speeds		
Closing	in./sec.	26
	mm/sec.	660
Opening	in./sec.	32
	mm/sec.	813
Ejector Force	U.S. tons kN	8.3 74
	Ejector Stroke	in.
mm		152

Extended tie bar spacing reduces minimum mold thickness and maximum open daylight by 1/2".

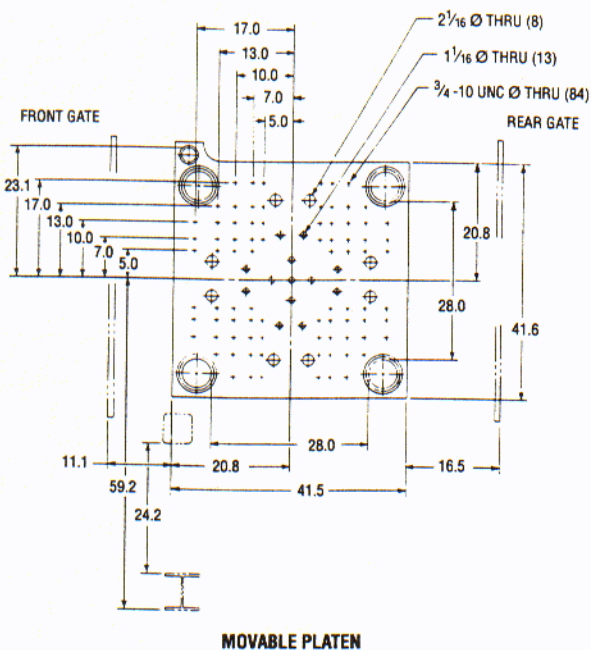
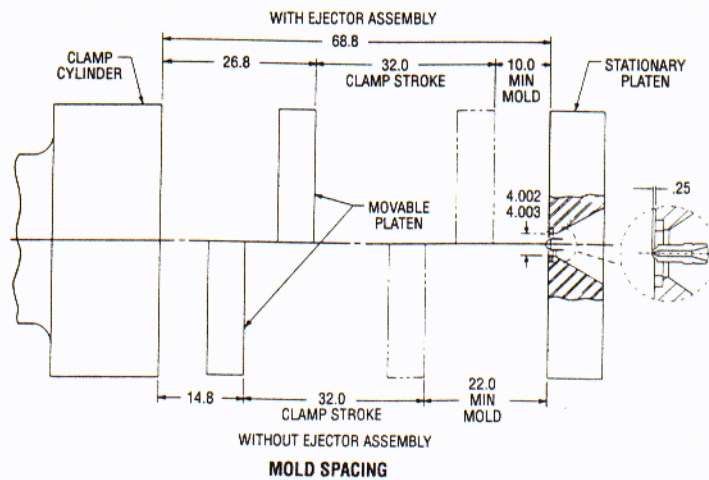
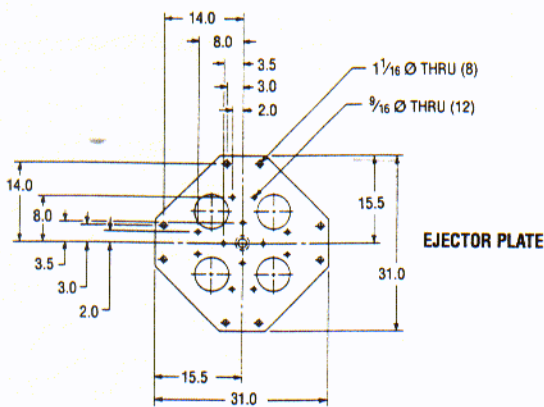
The specifications listed are standard. However, Van Dorn Demag will provide engineered options and solutions to meet virtually any performance requirements including high-pressure and high-speed configurations.

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Injection Unit	A	B	C
STANDARD BARREL			
60mm / 1220	139.4	91.8	59.4
70mm / 1920	156.5	99.4	60.8
80mm / 2800	174.6	101.2	63.3



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