

# VAN DORN®

## 275 HP SERIES

### Injection Unit

International Size		720		1220		1920	
	Measure	Std.	HiPr	Std.	HiPr	Std.	HiPr
Injection Capacity (GPPS)	oz. g	14.7 417	11.9 337	25.4 720	17.6 499	40.3 1,142	29.6 839
Injection Capacity	cu. in. ccm	27.0 442	21.8 357	46.6 764	32.4 531	74.0 1,213	54.4 891
Recovery Rate (GPPS)	oz./sec. g/sec	1.37 39	1.18 33	1.67 47	1.37 39	2.25 64	1.67 47
Injection Pressure	psi bar	24,064 1,659	29,709 2,048	23,565 1,625	33,934 2,340	23,212 1,600	31,594 2,178
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec. ccm/sec	25.9 424	20.9 342	26.4 433	18.3 300	26.8 439	19.7 323
Injection Stroke	in. mm	8.9 225	8.9 225	10.6 270	10.6 270	12.4 315	12.4 315
Screw Diameter	in. mm	1.97 50	1.77 45	2.36 60	1.97 50	2.76 70	2.36 60
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 rpm	286 286	318 318	238 238	286 286	204 204	238 238
Back Pressure Adjust	psi bar	75-300 5-21	75-300 5-21	75-300 5-21	75-300 5-21	75-300 5-21	75-300 5-21
Barrel Heating Capacity	kW kW	14 14	12 12	22 22	18 18	33 33	26 26

### General Machine Specifications

	Measure	720		1220		1920	
Pump Motor	hp kW	50 37		50 37		50 37	
Pump Capacity	gpm lpm	77 291		77 291		77 291	
Oil Capacity	gal. l	190 720		190 720		190 720	
Machine Weight (approx.)	lb. kg	27,100 12,290		27,300 12,380		27,500 12,470	
<b>Machine Dimensions</b>							
Length	ft. m	21.0 6.4		23.8 7.3		24.3 7.4	
Width	ft. m	5.3 1.6		5.3 1.6		5.3 1.6	
Height	ft. m	8.2 2.5		8.2 2.5		8.2 2.5	

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

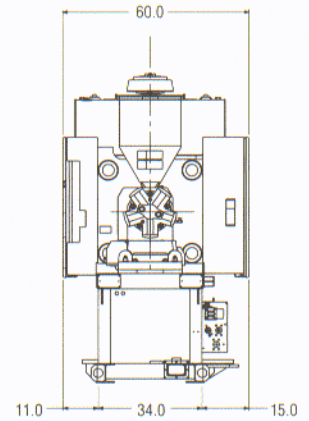
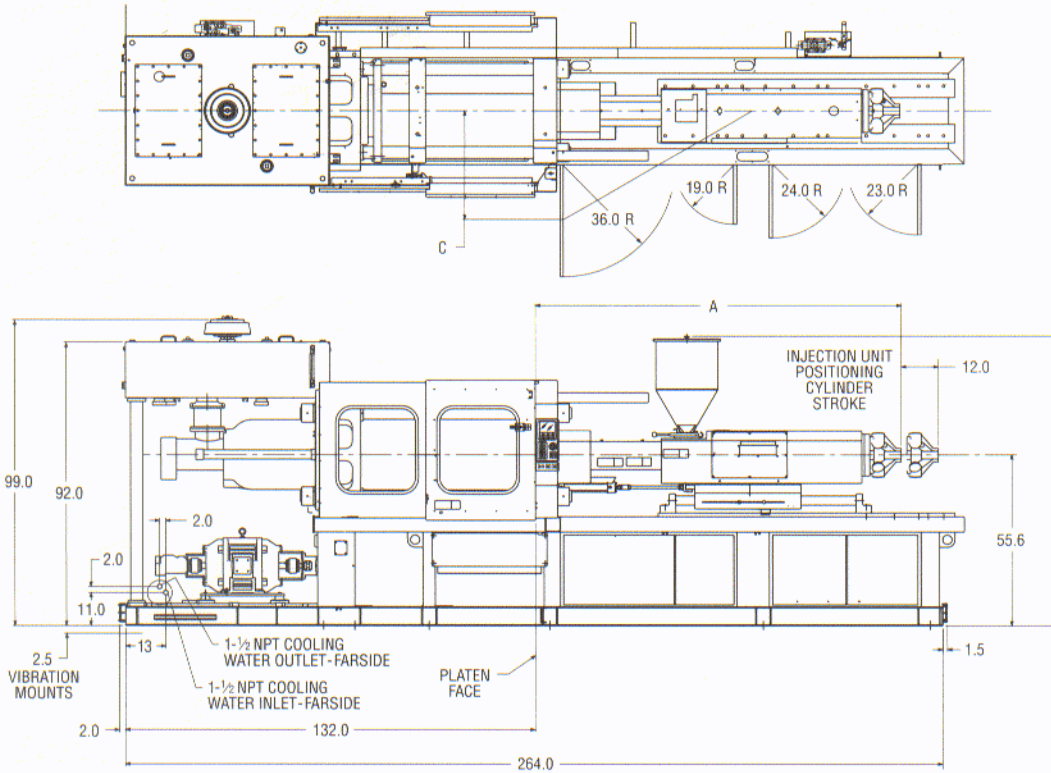
Clamp Force	U.S. tons kN	275 2,447
Open Force	U.S. tons kN	10.3 92
Clamp Stroke - Max.	in. mm	29 737
Open Daylight - Max. (w/o Ejector Box)	in. mm	44 1,118
Mold Thickness - Min. (w/ Ejector Box)	in. mm	6 152
Ejector Box Thickness	in. mm	9 229
<b>Distance Between Tie Bars</b>		
Horizontal (Standard)	in. mm	23 584
(Optional Extended Tie Bar Spacing)	in. mm	27 686
Vertical (Standard)	in. mm	23 584
(Optional Extended Tie Bar Spacing)	in. mm	27 686
<b>Platen Size</b>		
Horizontal (Standard)	in. mm	34 864
(Optional Extended Tie Bar Spacing)	in. mm	38 1,080
Vertical (Standard)	in. mm	34 864
(Optional Extended Tie Bar Spacing)	in. mm	38 1,080
Tie Bar Diameter	in. mm	4.0 102
<b>Clamp Speeds</b>		
Closing	in./sec. mm/sec.	32 813
Opening	in./sec. mm/sec.	30 762
Ejector Force	U.S. tons kN	4.9 44
Ejector Stroke	in. mm	4.8 121

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

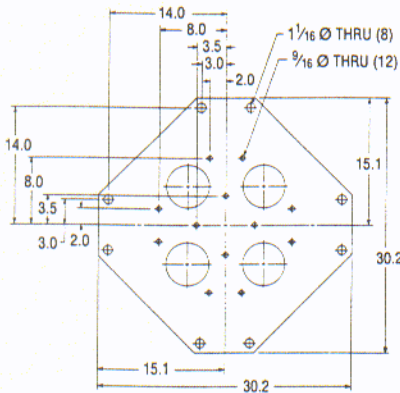
The specifications listed are standard. However, Van Dorn Demag will provide engineered options and solutions to meet virtually any performance requirements including high-pressure and high-speed configurations.

# VAN DORN®

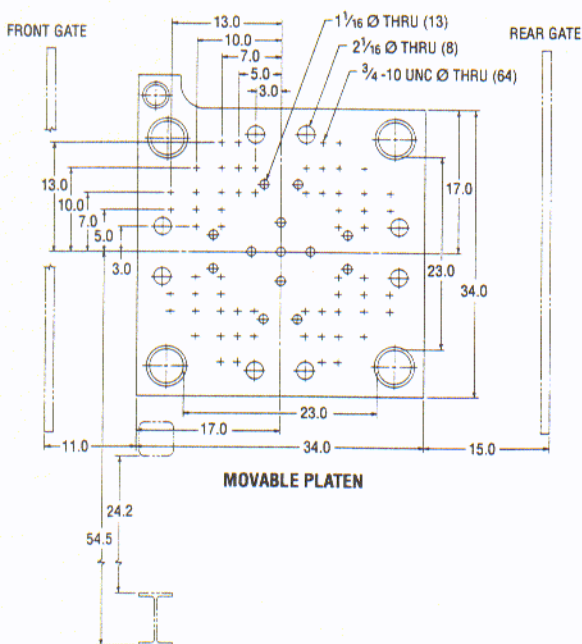
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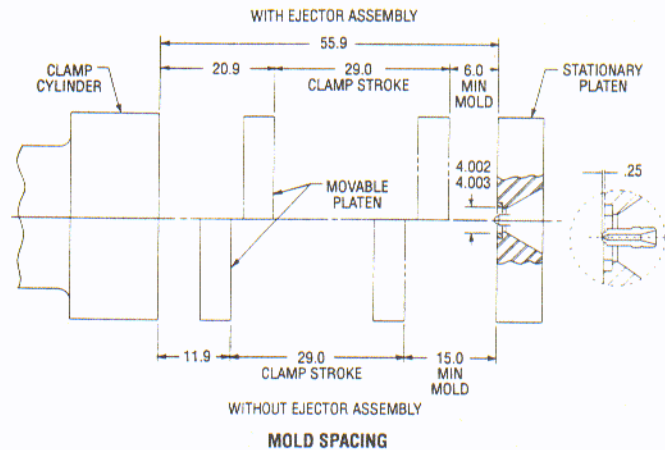
Injection Unit	A	B	C
<b>STANDARD BARREL</b>			
50mm / 720	118.5	94.3	35.0
60mm / 1220	139.25	95.8	42.0
70mm / 1920	145.25	95.6	48.5



**EJECTOR PLATE**



**MOVABLE PLATEN**



**MOLD SPACING**

# VAN DORN DEMAG®

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