

VAN DORN®

400 HT SERIES

Injection Unit

	Measure	30-oz.	48-oz.	60-oz.
Injection Capacity (GPPS)	oz.	30	48	60
	g	850	1,361	1,701
Injection Capacity	cu. in.	59.2	89.0	111.5
	ccm	970	1,458	1,827
Recovery Rate (GPPS) (With increased screw speed)	oz./sec.	2.02	2.60	2.63
	g/sec	57.3	73.8	74.5
	oz./sec.	3.40	3.60	3.25
	g/sec	96.5	102.1	92.1
Injection Pressure	psi	20,100	20,000	20,400
	bar	1,386	1,379	1,407
Injection Rate (@10,000 psi) (@ 700 bar)	cu. in./sec.	29.7	29.8	29.3
	ccm/sec	486	489	479
Injection Stroke	in.	11.50	13.00	14.31
	mm	292	330	363
Screw Diameter	in.	2.65	2.95	3.15
	mm	65	75	80
Barrel L/D Ratio		20/1	20/1	20/1
		20/1	20/1	20/1
Screw Speed Range	rpm	30-220	30-190	30-180
	rpm	30-220	30-190	30-180
Back Pressure Adjust	psi	50-300	50-300	50-300
	bar	3-20	3-20	3-20

General Machine Specifications

	Measure	30-oz.	48-oz.	60-oz.
Pump Motor	hp	60	60	60
	kW	45	45	45
Pump Capacity	gpm	77	77	77
	ipm	293	293	293
Oil Capacity	gal.	170	170	170
	l	640	640	640
Machine Weight (approx.)	lb.	35,600	35,600	35,600
	kg	16,148	16,148	16,148
Machine Dimensions				
Length	ft.	25.8	27.3	27.6
	m	7.9	8.3	8.4
Width	ft.	5.6	5.6	5.6
	m	1.7	1.7	1.7
Height	ft.	8.4	8.4	8.4
	m	2.6	2.6	2.7
Barrel Heating Capacity	kW	20.0	29.8	28.3
	kW	20.0	29.8	28.3

Clamp Unit

Clamp Force	U.S. tons kN	400 3,559
Clamp Stroke - Max.	in. mm	26 660
Open Daylight - Max.	in. mm	54 1,372
Mold Thickness - Min.	in. mm	8 203
Distance Between Tie Bars		
Horizontal	in. mm	28 711
Vertical	in. mm	28 711
Platen Size		
Horizontal	in. mm	42 1,067
Vertical	in. mm	42 1,067
Tie Bar Diameter	in. mm	5 127
Clamp Speeds		
Closing	in./sec. mm/sec.	24 610
Opening	in./sec. mm/sec.	32 813
Ejector Force	U.S. tons kN	12.5 111
Ejector Stroke	in. mm	6.0 152

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.

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.