

VAN DORN®

85 HT SERIES

Injection Unit

	Measure	3-oz.	5-oz.
Injection Capacity (GPPS)	oz.	3	5
	g	85	142
Injection Capacity	cu. in.	5.8	9.3
	ccm	95	152
Recovery Rate (GPPS) (With increased screw speed)	oz./sec.	0.35	0.72
	g/sec	10.0	20.3
	oz./sec.	—	0.75
	g/sec	—	21.3
Injection Pressure	psi	20,300	20,200
	bar	1,400	1,393
Injection Rate (@10,000 psi) (@ 700 bar)	cu. in./sec.	8.4	8.5
	ccm/sec	138	139
Injection Stroke	in.	5.31	6.25
	mm	135	159
Screw Diameter	in.	1.18	1.38
	mm	30	35
Barrel L/D Ratio		20/1	20/1
		20/1	20/1
Screw Speed Range	rpm	30-320	30-410
	rpm	30-320	30-410
Back Pressure Adjust	psi	50-300	50-300
	bar	3-20	3-20

General Machine Specifications

	Measure	3-oz.	5-oz.
Pump Motor	hp	15	15
	kW	11	11
Pump Capacity	gpm	22	23
	lpm	84	87
Oil Capacity	gal.	80	80
	l	300	300
Machine Weight (approx.)	lb.	9,400	9,400
	kg	4,264	4,264
Machine Dimensions			
Length	ft.	14.7	14.7
	m	4.5	4.5
Width	ft.	4.3	4.3
	m	1.3	1.3
Height	ft.	6.6	6.6
	m	2.0	2.0
Barrel Heating Capacity	kW	5.6	8.1
	kW	5.6	8.1

Clamp Unit

Clamp Force	U.S. tons	85
	kN	756
Clamp Stroke - Max.	in.	12
	mm	305
Open Daylight - Max.	in.	28
	mm	711
Mold Thickness - Min.	in.	4
	mm	102
Distance Between Tie Bars		
Horizontal	in.	16
	mm	406
Vertical	in.	13.6
	mm	345
Platen Size		
Horizontal	in.	22.8
	mm	579
Vertical	in.	20.4
	mm	518
Tie Bar Diameter	in.	2.375
	mm	60
Clamp Speeds		
Closing	in./sec.	29
	mm/sec	737
Opening	in./sec.	45
	mm/sec	1,143
Ejector Force	U.S. tons	5.0
	kN	44
Ejector Stroke	in.	3.0
	mm	76

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.