

VAN DORN®

1500 HP SERIES

Injection Unit

| | Measure | 165-oz. | 260-oz. | 400-oz. |
|--|--------------|---------|---------|---------|
| Injection Capacity (GPPS) | oz. | 165 | 260 | 400 |
| | g | 4,678 | 7,371 | 11,340 |
| Injection Capacity | cu. in. | 298.0 | 466.0 | 716.5 |
| | ccm | 4,883 | 7,636 | 11,741 |
| Recovery Rate (GPPS) | oz./sec. | 7.70 | 8.90 | 11.00 |
| | g/sec | 218 | 252 | 312 |
| Injection Pressure | psi | 20,000 | 19,800 | 20,000 |
| | bar | 1,379 | 1,365 | 1,379 |
| Injection Rate (@10,000 psi) (@ 700 bar) | cu. in./sec. | 116.5 | 119.0 | 117.5 |
| | ccm/sec | 1,909 | 1,950 | 1,925 |
| Injection Stroke | in. | 16.75 | 18.50 | 24.50 |
| | mm | 425 | 470 | 622 |
| Screw Diameter | in. | 4.53 | 5.32 | 6.10 |
| | mm | 115 | 135 | 155 |
| Barrel L/D Ratio | | 20/1 | 20/1 | 20/1 |
| | | 20/1 | 20/1 | 20/1 |
| Screw Speed Range | rpm | 20-200 | 20-170 | 20-140 |
| | rpm | 20-200 | 20-170 | 20-140 |
| Back Pressure Adjust | psi | 75-300 | 75-300 | 75-300 |
| | bar | 5-21 | 5-21 | 5-21 |

General Machine Specifications

| | Measure | 165-oz. | 260-oz. | 400-oz. |
|---------------------------|---------|---------|---------|---------|
| Pump Motor | hp | 250 | 250 | 250 |
| | kW | 186 | 186 | 186 |
| Pump Capacity | gpm | 381 | 381 | 381 |
| | lpm | 1,442 | 1,442 | 1,442 |
| Oil Capacity | gal. | 1,200 | 1,200 | 1,200 |
| | l | 4,540 | 4,540 | 4,540 |
| Machine Weight (approx.) | lb. | 208,000 | 220,000 | 238,000 |
| | kg | 94,350 | 99,800 | 107,960 |
| Machine Dimensions | | | | |
| Length | ft. | 46.0 | 48.6 | 52.8 |
| | m | 14.0 | 14.8 | 16.1 |
| Width | ft. | 9.7 | 9.7 | 9.7 |
| | m | 3.0 | 3.0 | 3.0 |
| Height | ft. | 12.8 | 12.8 | 12.8 |
| | m | 3.9 | 3.9 | 3.9 |

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 | 1,500 13,349 |
| Open Force | U.S. tons kN | 77 685 |
| Clamp Stroke - Max. | in. mm | 60 1,524 |
| Open Daylight - Max. (w/o Ejector Box & Ram Spacers) | in. mm | 123 3,124 |
| Mold Thickness - Min. (w/ Ejector Box & Ram Spacers) | in. mm | 30 762 |
| Ejector Box Thickness | in. mm | 21 533 |
| Ram Spacer Thickness | in. mm | 12 305 |
| Distance Between Tie Bars | | |
| Horizontal (Standard) | in. mm | 52 1,321 |
| | (Optional Extended Tie Bar Spacing) | in. mm |
| Vertical | in. mm | 52 1,321 |
| Platen Size | | |
| Horizontal (Standard) | in. mm | 76 1,930 |
| | (Optional Extended Tie Bar Spacing) | in. mm |
| Vertical | in. mm | 76 1,930 |
| Tie Bar Diameter | in. mm | 9.5 241 |
| | Clamp Speeds | |
| Closing | in./sec. mm/sec. | 25 635 |
| Opening | in./sec. mm/sec. | 23 584 |
| Ejector Force | U.S. tons kN | 38.5 343 |
| Ejector Stroke | in. mm | 10 254 |

Extended tie bar spacing reduces minimum mold thickness and maximum open daylight by 3".

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.

