

MAXIMA SERVO 725



TECHNICAL SPECIFICATIONS

| Injection Unit Specifications | ENGLISH METRIC | 3470 Frame | | | 4880 Frame | | 6610 Frame | | 10100 Frame | | |
|--|--|-----------------|-----------------|-----------------|-----------------|--|-----------------|-----------------|-------------------|-----------------|--|
| | | A | B | C | A | B | A | B | A | B | |
| Injection Capacity, Maximum GPPS | oz g | 46 1,304 | 60 1,701 | 75 2,155 | 85 2,410 | 105 2,977 | 116 3,289 | 140 3,969 | 178 5,046 | 230 6,521 | |
| Theoretical Displacement | in ³ cm ³ | 84.5 1,385 | 110.4 1,810 | 139.8 2,290 | 155.3 2,545 | 191.7 3,142 | 210.9 3,456 | 255.2 4,181 | 324.8 5,322 | 419.4 6,872 | |
| Maximum Injection Pressure | psi bar | 33,200 2,290 | 27,800 1,917 | 21,900 1,510 | 27,800 1,917 | 22,500 1,552 | 27,700 1,910 | 22,900 1,579 | 27,500 1,897 | 21,200 1,462 | |
| Injection Rate | in ³ /sec cm ³ /sec | 28 452 | 36 590 | 46 747 | 40 655 | 49 809 | 35 660 | 49 800 | 36 596 | 47 769 | |
| Screw Stroke | in mm | 14.2 360 | | | 15.7 400 | | 17.3 440 | | 22 560 | | |
| Screw Diameter | in mm | 2.76 70 | 3.15 80 | 3.54 90 | 3.54 90 | 3.94 100 | 3.94 100 | 4.33 110 | 4.33 110 | 4.92 125 | |
| L / D Ratio | L / D | 26 | 23 | 20 | 22 | 20 | 22 | 20 | 23 | 20 | |
| Low Torque Screw Speed Maximum | rpm | 289 | 253 | 225 | 225 | 202 | 202 | 184 | 132 | | |
| Low Torque at Screw | in - lb Nm | 22,726 2,566 | | | 30,498 3,444 | | 42,924 4,850 | | 77,904 8,802 | | |
| | psi bar | 2,450 169 | | | 2,450 169 | | 2,450 169 | | 2,450 169 | | |
| Calculated Recovery Rate (GP Styrene) | oz / sec g / sec | 3.2 90 | 4 115 | 4.7 134 | 4.7 134 | 5.8 164 | 5.64 160 | 6.42 184 | 4.61 131 | 6.63 188 | |
| High Torque Screw Speed Maximum | rpm | 251 | 251 | 225 | 202 | | 124 | | 85 | | |
| High Torque at Screw | in - lb Nm | 30,876 3,882 | | | 41,572 5,227 | | 73,212 8,272 | | 119,952 13,552 | | |
| | psi bar | 2,450 169 | | | 2,450 169 | | 2,450 169 | | 2,450 169 | | |
| Calculated Recovery Rate (GP Styrene) | oz / sec g / sec | 2.8 78 | 4 115 | 4.7 134 | 4.2 120 | 5.8 164 | 3.9 112 | 4.9 141 | 2.9 84 | 4.27 121 | |
| Number of Pyrometers (Barrel / Nozzle) | qty | 4/1 | | | 4/1 | | 4/1 | | 4/1 | | |
| Total Heat Capacity | kW | 57.8 | | | 53.8 | | 56 | | 61.2 | | |
| Clamp | | | | | | | | | | | |
| Clamping Force | ton kN | | | | | 725 6,490 | | | | | |
| Clamp Opening Force | ton kN | | | | | 36 318 | | | | | |
| Clamp Stroke | in mm | | | | | 69.9 1,775 | | | | | |
| Clamp Speed Open/Close | in / sec mm / sec | | | | | 31 / 30 787 / 762 | | | | | |
| Maximum Daylight | in mm | | | | | 81.7 2,075 | | | | | |
| Min/Max Mold Thickness | in mm | | | | | 11.8 / 43.3 300 / 1,100 | | | | | |
| Maximum Mold Weight | lb kg | | | | | 26,485 12,011 | | | | | |
| Platen Size (H x V) | in mm | | | | | 55.5 x 55.5 1,410 x 1,410 | | | | | |
| Distance Between Tie Rods (H x V) | in mm | | | | | 42.5 x 42.5 1,080 x 1,080 | | | | | |
| Tie Rod Diameter | in mm | | | | | 6.69 170 | | | | | |
| Maximum Ejector Stroke | in mm | | | | | 9.8 250 | | | | | |
| Ejector Force @ 2000 psi | ton kN | | | | | 13.2 117 | | | | | |
| General | | | | | | | | | | | |
| Machine Dimensions (L x W x H) | in mm | | | | | 371.3 x 104 x 132.4 9,430 x 2,642 x 3,364 | | | | | |
| Shipping Weight (without oil) | lb kg | | | | | 75,000 34,014 | | | | | |
| Hydraulic System Pressure | psi bar | | | | | 2,950 203 | | | | | |
| Gear Pump Capacity | g / min l / min | | | | | 115 435 | | | | | |
| Injection and Extruder (1540 IU) | g / min l / min | | | | | 115 435 | | | | | |
| Eject and CP | g / min l / min | | | | | 25 / 21 95 / 79 | | | | | |
| Electric Motors | HP kW | | | | | 55 41 | | | | | |
| Oil Reservoir Capacity | gal L | | | | | 260 984 | | | | | |
| Heat Exchanger Water @ 85 F | g / min l / min | | | | | 21 79 | | | | | |

Due to continuous improvements, specifications are subject to change without notice.