



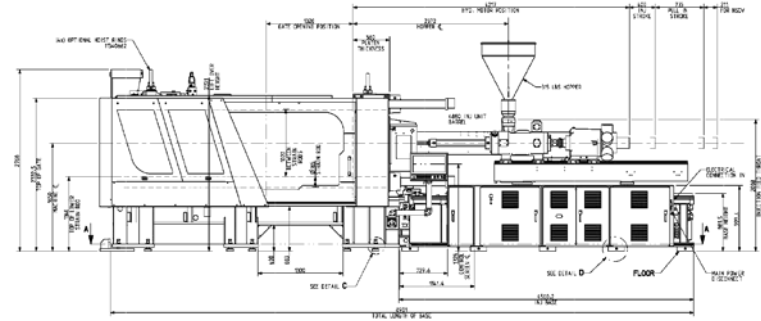
# MAXIMA

## PERFORMANCE SERIES

**Tonnage: 725**

**Frame Sizes: 6610, 10100**

## TECHNICAL SPECIFICATIONS



|                                      | ENGLISH METRIC                               | 6610 Frame  |                 |                 | 10100 Frame   |                 |                 |
|--------------------------------------|--|---|-----------------|-----------------|---|-----------------|-----------------|
|                                      |  | A'  | A               | B               | A'  | A               | B               |
| <b>General</b>                       |  |   |                 |                 |   |                 |                 |
| Electrical Motor                     | hp<br>kW                                     | 40 (54 HP) / 80 (107 HP)<br>40 (19 kW) / 80 (43 kW) |                 |                 | 80 (107 HP) / 80 (107 HP)<br>80 (107 kW) / 80 (43 kW) |                 |                 |
| Total Oil Capacity                   | gal<br>L                                     | 180<br>681  |                 |                 | 240<br>908  |                 |                 |
| Water Supply (29°C Inlet Temp)       | gal/min<br>L/min                             | 25<br>95  |                 |                 | 25<br>95  |                 |                 |
| Connected Load                       | FLI  | 207   |                 |                 | 249   |                 |                 |
| Overall Dimensions (L x W x H)       | in<br>mm                                     | 367.8 x 110.9 x 107.5<br>9,342 x 2,819 x 2,731      |                 |                 | 390.6 x 110.9 x 107.5<br>9,922 x 2,733 x 2,731        |                 |                 |
| Machine Weight (without oil)         | lbs<br>kg                                    | 68,916<br>31,259                                    |                 |                 | 78,264<br>35,495                                      |                 |                 |
| <b>Injection Unit Specifications</b> |  |   |                 |                 |   |                 |                 |
| Injection Capacity, Maximum GPPS     | oz<br>gms                                    | 93<br>2,637   | 116<br>3,288    | 140<br>3,969    | 148<br>4,185  | 179<br>5,064    | 231<br>6,539    |
| Theoretical Displacement             | in <sup>3</sup><br>cm <sup>3</sup>           | 170.8<br>2,799                                      | 210.8<br>3,455  | 255.1<br>4,181  | 268.3<br>4,398  | 324.7<br>5,321  | 419.3<br>6,872  |
| Maximum Injection Pressure           | psi<br>bar                                   | 34,200<br>2,359                                     | 27,700<br>1,910 | 22,900<br>1,579 | 33,200<br>2,290                                       | 27,400<br>1,890 | 21,200<br>1,462 |
| Injection Rate                       | in <sup>3</sup> /sec<br>cm <sup>3</sup> /sec | 33.1<br>543   | 40.9<br>671     | 49.5<br>812     | 40.7<br>667   | 49.2<br>807     | 63.6<br>1042    |
| Injection Velocity                   | in/sec<br>mm/sec                             | 3.3<br>83.89  |                 |                 | 3.28<br>83.19   |                 |                 |
| Screw Stroke                         | in<br>mm                                     | 17.3<br>440   |                 |                 | 22.0<br>560   |                 |                 |
| Back Pressure Limits                 | psi<br>bar                                   | 500   |                 |                 | 500   |                 |                 |
| Low Torque Screw Speed Maximum       | rpm  | 225   | 202             | 184             | 170   | 170             | 162             |
| Low Torque at Screw                  | in-lb<br>Nm                                  | 46,767<br>5,284                                     |                 |                 | 74,087<br>8,371                                       |                 |                 |
|                                      | psi<br>bar                                   | 2,450<br>169  |                 |                 | 2,450<br>169  |                 |                 |
| Plasticizing Rate (GPPS)             | oz/sec<br>gm/sec                             | 4.2<br>120  | 5.8<br>164      | 6.5<br>184      | 4.8<br>137  | 6.1<br>172      | 8.2<br>234      |
| High Torque Screw Speed Maximum      | rpm  | 135   | 135             | 135             | 110   | 110             | 110             |
| High Torque at Screw                 | in-lb<br>Nm                                  | 70,086<br>7,919                                     |                 |                 | 114,834<br>12,974                                     |                 |                 |
|                                      | psi<br>bar                                   | 2,450<br>169  |                 |                 | 2,450<br>169  |                 |                 |
| Plasticizing Rate (GPPS)             | oz/sec<br>gm/sec                             | 2.8<br>80   | 3.8<br>109      | 4.8<br>137      | 3.1<br>88   | 4.8<br>137      | 5.6<br>158      |

**Notes**  
1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.

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|  |                  | 6610 Frame                   |             |             | 10100 Frame                  |             |             |
|--|------------------|------------------------------|-------------|-------------|------------------------------|-------------|-------------|
|  | ENGLISH METRIC   | A'                           | A           | B           | A'                           | A           | B           |
| <b>Injection Unit Specifications (continued)</b> |                  |                              |             |             |                              |             |             |
| Screw Diameter                                   | in<br>mm         | 3.54<br>90                   | 3.94<br>100 | 4.33<br>110 | 3.94<br>100                  | 4.33<br>110 | 4.92<br>125 |
| Screw L/D Ratio                                  | L/D              | 24.4                         | 22          | 20          | 23.9                         | 21.7        | 19          |
| Number of Pyrometers (Barrel/Nozzle)             | qty              | 4/1                          |             |             | 4/1                          |             |             |
| Total Heat Capacity                              | kW               | 60.3                         |             |             | 61.3                         |             |             |
| <b>Clamp</b>                                     |                  |                              |             |             |                              |             |             |
| Clamping Force                                   | ton<br>kN        | 731<br>6,500                 |             |             | 731<br>6,500                 |             |             |
| Opening Force                                    | ton<br>kN        | 29<br>260                    |             |             | 29<br>260                    |             |             |
| Clamp Stroke                                     | in<br>mm         | 57.1<br>1,450                |             |             | 57.1<br>1,450                |             |             |
| Clamp Close Velocity                             | in/sec<br>mm/sec | 31.26<br>793.92              |             |             | 31.26<br>793.92              |             |             |
| Clamp Open Velocity                              | in/sec<br>mm/sec | 32.53<br>826.32              |             |             | 32.53<br>826.32              |             |             |
| Eject Force (forward)                            | tons<br>kN       | 13.5<br>120                  |             |             | 13.5<br>120                  |             |             |
| Eject Velocity (forward)                         | in/sec<br>mm/sec | 11.98<br>304.18              |             |             | 11.98<br>304.18              |             |             |
| Eject Velocity (retract)                         | in/sec<br>mm/sec | 17.45<br>443.15              |             |             | 17.45<br>443.15              |             |             |
| Ejector Stroke                                   | in<br>mm         | 9.84<br>250                  |             |             | 9.84<br>250                  |             |             |
| Mold Protect Pressure                            | psi              | 1,500                        |             |             | 1,500                        |             |             |
| Maximum Daylight                                 | in<br>mm         | 72.8<br>1,850                |             |             | 72.8<br>1,850                |             |             |
| Extended Daylight (Option)                       | in<br>mm         | 82.6<br>2,100                |             |             | 82.6<br>2,100                |             |             |
| Minimum Mold Height                              | in<br>mm         | 15.7<br>400                  |             |             | 15.7<br>400                  |             |             |
| Maximum Mold Height                              | in<br>mm         | 37.8<br>960                  |             |             | 37.8<br>960                  |             |             |
| Maximum Mold Weight                              | lbs<br>kg        | 26,370<br>11,960             |             |             | 26,370<br>11,960             |             |             |
| Platen Size (H x V)                              | in<br>mm         | 59.8 x 53.1<br>1,520 x 1,350 |             |             | 59.8 x 53.1<br>1,520 x 1,350 |             |             |
| Distance Between Tie Rods                        | in<br>mm         | 46.9 x 40.2<br>1,190 x 1,020 |             |             | 46.9 x 40.2<br>1,190 x 1,020 |             |             |
| Tie Rod Diameter                                 | in<br>mm         | 6.5<br>165                   |             |             | 6.5<br>165                   |             |             |
| Eject and CP                                     | g/min<br>l/min   | 40 / 21<br>151 / 79          |             |             | 40 / 21<br>151 / 79          |             |             |
| Dry Cycle Time (Euromap 6)                       | sec              | 4.19 w/o eject-on-the-fly    |             |             | 4.19 w/o eject-on-the-fly    |             |             |
| Diagonal Tiebar Distance                         | in<br>mm         | 64<br>1,635                  |             |             | 64<br>1,635                  |             |             |
| Rotary Turn Table Recommended                    |                  | Varian 1350 mm               |             |             | Varian 1350 mm               |             |             |



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