

# THE LP500M SERIES

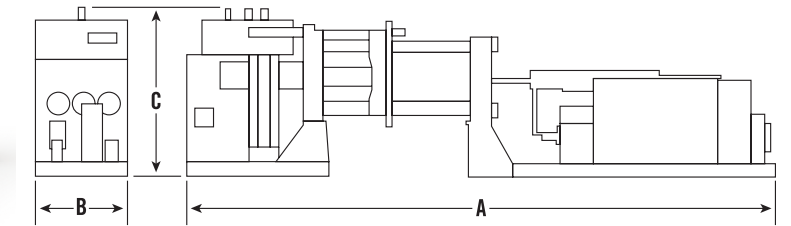
**LOW PRESSURE  
MULTI NOZZLE SERIES**

**TONNAGE: 500**

**TECHNICAL  
SPECIFICATIONS**

**Melt Unit: 423**

| LP500M-423                             |                  |                              |
|--|------------------|------------------------------|
|  | ENGLISH METRIC   |                              |
| <b>Clamp</b>                           |                  |                              |
| Clamp Tonnage                          | tons<br>tonnes   | 500<br>454                   |
| Platen Size (H x V)                    | in<br>mm         | 89 x 98<br>2,261 x 2,489     |
| Distance Between Tie Bars              | in<br>mm         | 67.5 x 58.5<br>1,715 x 1,486 |
| Tie Bar Diameter                       | in<br>mm         | 7.5<br>191                   |
| Max. Clamp Opening (Daylight)          | in<br>mm         | 120<br>3,048                 |
| Clamp Stroke                           | in<br>mm         | 108<br>2,743                 |
| Min. Mold Shut Height                  | in<br>mm         | 12<br>305                    |
| Clamp Speed Max                        | in/sec<br>mm/sec | 14<br>356                    |
| Mold Carrying Capacity (Moving Platen) | lbs<br>kg        | 35,000<br>15,876             |
| Way Support System                     |                  | Standard                     |
| <b>Extruder</b>                        |                  |                              |
| Number of Extruders                    |                  | 1                            |
| Screw Diameter                         | in<br>mm         | 4.5<br>114                   |
| L/D Ratio                              |                  | 30:1                         |
| Output HDPE or P.S. (total)            | lbs/hr<br>kg/hr  | 900<br>408                   |
| Drive Size                             | Hp<br>kW         | 250<br>186.4                 |
| Barrel Heating\Cooling Zones           |                  | 5                            |
| Barrel Cooling Type                    |                  | Air Barrel Cooling           |



| LP500M-423                            |                                    |                    |
|---------------------------------------|------------------------------------|--------------------|
|                                       | ENGLISH METRIC                     |                    |
| <b>Injection</b>                      |                                    |                    |
| Number of Accumulators                |                                    | 1                  |
| Total Shot Weight (Shot Size) PS/HDPE | lbs<br>kg                          | 75/60<br>34/27     |
| Accumulators Volume (Each)            | in <sup>3</sup><br>cm <sup>3</sup> | 2,300<br>37,690    |
| Total Shot Volume                     | in <sup>3</sup><br>cm <sup>3</sup> | 2,300<br>37,690    |
| Pressure Maximum (Per Accum.)         | psi<br>bar                         | 6,000<br>414       |
| Total Number of Shot Sizes            |                                    | 16                 |
| Independent Nozzle Sequence           |                                    | 32                 |
| <b>Nozzle</b>                         |                                    |                    |
| Multiple Nozzles                      |                                    | As Required        |
| Nozzle Spacing                        | in<br>mm                           | 6 x 6<br>152 x 152 |
| Number of Nozzle Locations            |                                    | 180                |
| Nozzle Heat Control Zones             |                                    | 32                 |
| Manifold Extension Heat Control Zones |                                    | 20                 |
| Nozzle Hydraulic Controls             |                                    | 32                 |

| LP500M-423 |  |                |            |
|------------|--|----------------|------------|
|            |  | ENGLISH METRIC |            |
| A          | Est. Configuration Length                    | ft<br>m        | 60<br>18.3 |
| B          | Est. Configuration Width                     | ft<br>m        | 12<br>3.7  |
| C          | Est. Configuration Height (without air bags) | ft<br>m        | 13<br>3.9  |
|            | Est. Configuration Weight                    | tons<br>tonnes | 113<br>103 |
|            | Est. Power Consumption @ 85% Output          | kW/hr          | 360        |

**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.