



**MILACRON®**

**THE MAXIMA PERFORMANCE**









**SERIES 500-1100**

# THE MAXIMA P

## SERIES 500-1100

The Maxima Performance two platen injection molding machine provides the highest performance, precision and flexibility. Its reduced overall footprint contributes to better floor space utilization and improved access to the molding area. This enhanced platform delivers faster cycle times, wider platens, a precision greaseless clamp guided on linear bearings and integrated auxiliary capability. Its improved centerline promotes an ergonomically friendly design allowing for safer tool install and faster utility hookups. The overall improved clamp design provides a greaseless part drop area, precise alignment, and increased access to the eject plate.

## RAISING THE BAR ON SPEED, PRECISION, RELIABILITY, VERSATILITY

-  High performance specifications
-  Expanded application capability
-  Central tonnage technology
-  Servo hybrid efficiency
-  Design for quicker mold changes with improved mold and ejector access
-  New Mosaic+ Control





# THE MAXIMA PERFORMANCE SERIES

## RUGGED LOCK NUT DESIGN

- High Speed Lock Nut Design
- Fast / Repeatable Cylinders
- Improved response time and performance

## QUICK AND EASY SETUP

- Walk-up operator gates bring you closer to the mold
- Ejector mechanism is open and accessible for easy mold setup
- Lower centerline

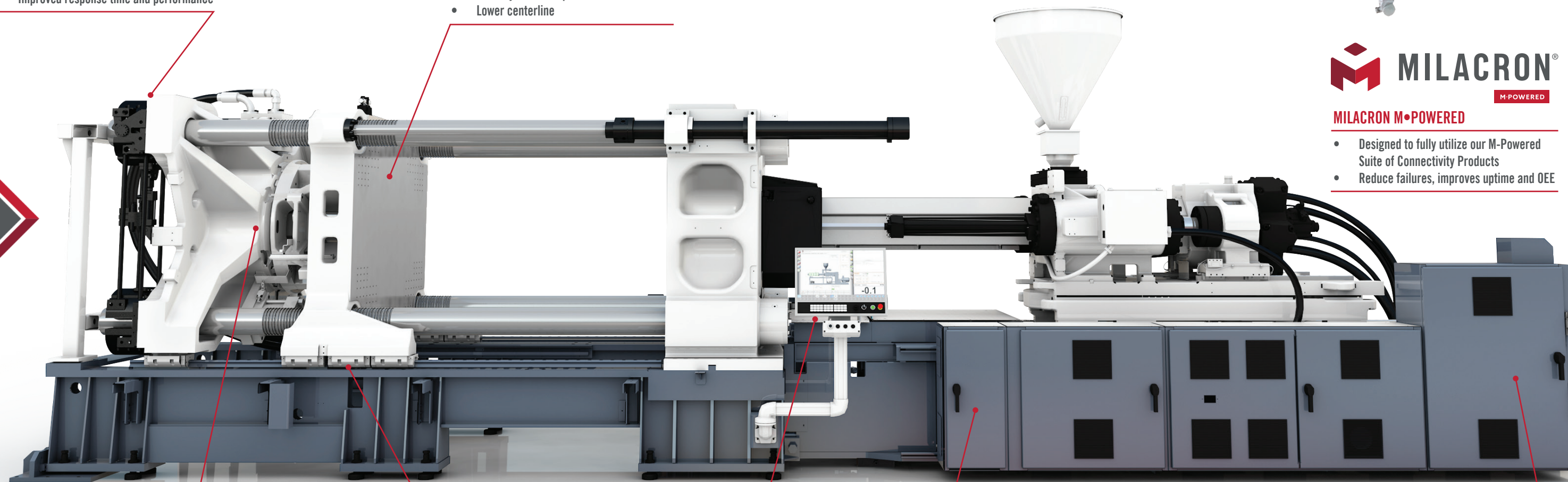
## INTEGRATED 5 AXIS ROBOT (Optional)

- Ultimate in mounting flexibility
- Integrated robot control through machine HMI



## MILACRON M-POWERED

- Designed to fully utilize our M-Powered Suite of Connectivity Products
- Reduce failures, improves uptime and OEE



## MOVING PLATEN GUIDED ON PRECISE LINEAR

- Bearing-No Bushing Required
- Precision guidance of molds
- Reduced friction
- Improved parallelism
- Reduced mold wear
- Greaseless part drop area

## MOSAIC PLUS CONTROL

- 21" multi-touch screen with configurable "PLUS" area
- Integrated auxiliary equipment screens via VNC
- Integrated remote camera interface (optional camera) provides an additional set of eyes monitoring the entire machine

## CENTER TONNAGE CLAMP FORCE

- Improved platen deflection
- Reduced mold wear
- Reduced part scrap

## OPTIONAL INTEGRATED HOT RUNNER CONTROLLER

- Mold-Masters TempMaster iM2 Controller
- Seamless integration
- Reduced mold interface complexity
- Virtual Network Control (VNC) Controlled via the Mosaic control screen
- Widest selection of interchangeable control cards

## SERVO DRIVEN MACHINE PERFORMANCE

- Up to 45% - 60% energy savings
- Closed loop digital control valve
- Improved time ramping
- Faster response times
- Better repeatability
- Reduced complexity/improved reliability
- Quieter machine operation

PROVIDING THE HIGHEST PERFORMANCE,  
PRECISION AND FLEXIBILITY.



# MAXIMA P SERIES

Realize the benefits of configuring a machine that is perfectly suited to your production requirements. The C-Series can be configured for a large range of parts and applications by combining the clamp and injection unit combinations, screw and barrel technologies, and expanded options available.

## Injection Unit Specifications

Frame	2290			3470			4880			6610			10100			16000	
	Screw (mm)	60	70	80	70	80	90	80	90	100	90	100	110	100	110	125	125
Shot Size (g)	850	1,162	1,530	1,304	1,701	2,155	1,899	2,410	2,977	2,637	3,288	3,969	4,185	5,064	6,539	8,174	10,253
Maxima P 500	[Red shaded cells]																
Maxima P 600	[Red shaded cells]																
Maxima P 600WP	[Red shaded cells]																
Maxima P 725	[Red shaded cells]																
Maxima P 950	[Red shaded cells]																
Maxima P 1100	[Red shaded cells]																

## Clamp Specifications

MODEL	TONNAGE	PLATEN SIZE (H x V)	TIE BAR SPACING (H x V)	MAX DAYLIGHT	MIN / MAX MOLD
	US Tons	mm	mm	mm	mm
Maxima P 500	500	1,250 x 1,160	920 x 830	1,650	350 / 850
Maxima P 600	600	1,370 x 1,250	1,040 x 920	1,750	350 / 910
Maxima P 600WP	600	1525 x 1355	1,205 x 1,035	1,850	400 / 960
Maxima P 725	725	1525 x 1355	1,190 x 1,020	1,850	400 / 960
Maxima P 950	950	1850 x 1560	1,390 x 1,100	2,100	500 / 1,100
Maxima P 1100	1100	2,010 x 1,660	1,550 x 1,220	2,400	500 / 1,200

# APPLICATIONS

The Maxima Performance Series is designed to meet the changing demands of a global market. The MP is designed with oversized clamp specs, greaseless part drop, precision linear ways, and reduced center line.

\*AUTOMOTIVE  
\*CONSTRUCTION

\*HOUSEWARES AND APPLIANCE  
\*ELECTRICAL

\*STORAGE AND TRANSPORT CONTAINERS  
\*PACKAGING

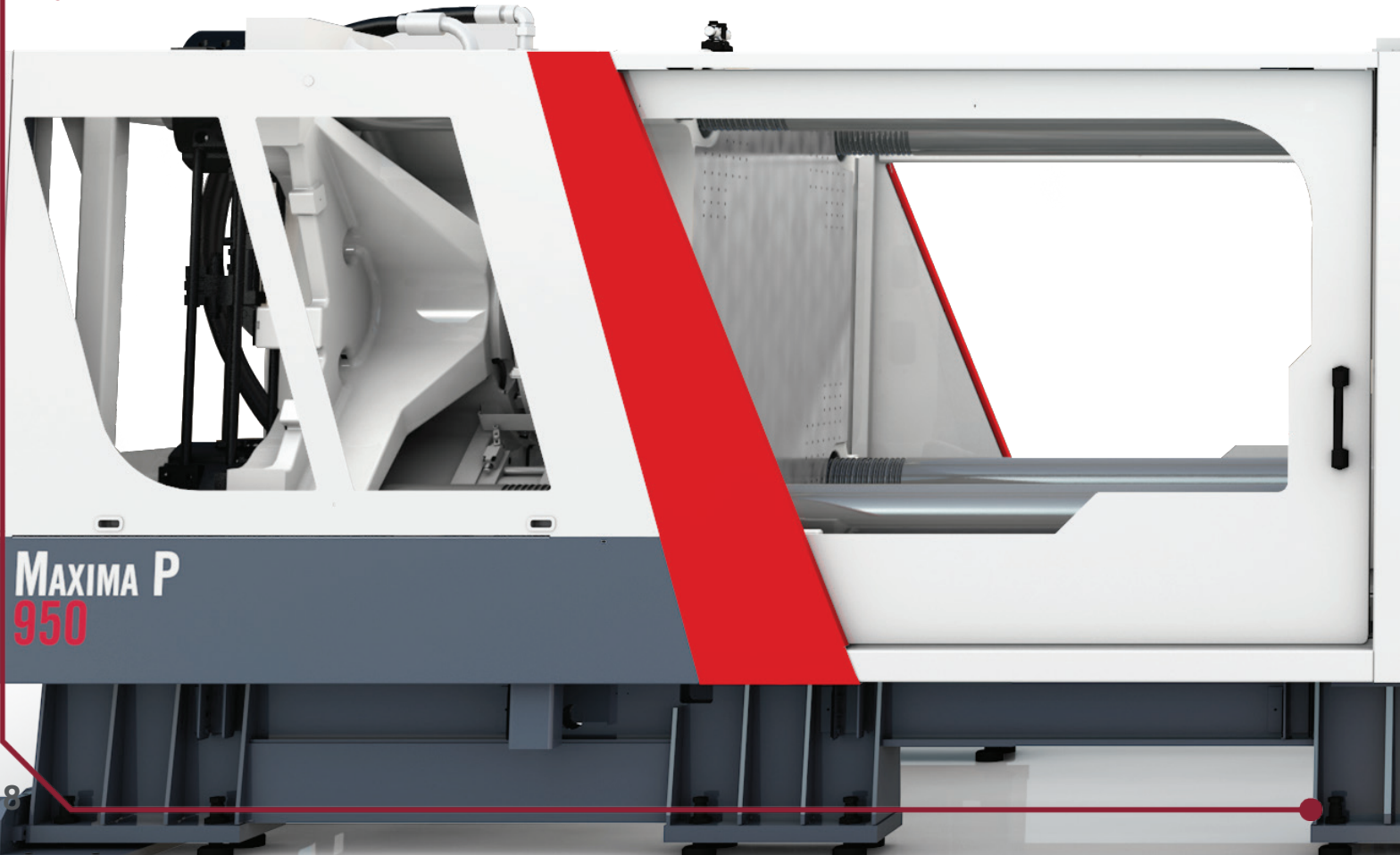




## CLAMPING UNIT

The Maxima Performance two platen advanced injection molding machine provides the highest performance, precision, and flexibility. Its reduced overall footprint contributes to better floor space utilization and improved access to the molding area. Advanced speed and precision technology combine for improved cycle time.

- M Large tie bar distance offers enhanced minimum-maximum mold height and flexibility to accommodate a variety of molds
- M Walk-up gate design on both sides of the machine offering improved access to the molding area, ease of mold maintenance and setup
- M Fully guided knock out bar using SPI pattern and multi-point ejection for even force distribution
- M Rigid Platens and fully supported tie bars with linear ways
  - Less deflection
  - Improved parallelism
  - Reduced mold wear
- M Reduced center line with tri-directional part drop



### M CENTER TONNAGE

- Tonnage built directly behind the moving platen offers superior mold support by providing direct and even clamping force across the face of the platen. It also improves tonnage build time using and locking in a minimal amount of oil in the clamp cylinder.

### M ROBUST NUT LOCK DESIGN

- Synchronized top and bottom nut locks working in parallel to each other are monitored via proximity switch. This lock design ensures all nuts close and open faster and are more reliable.

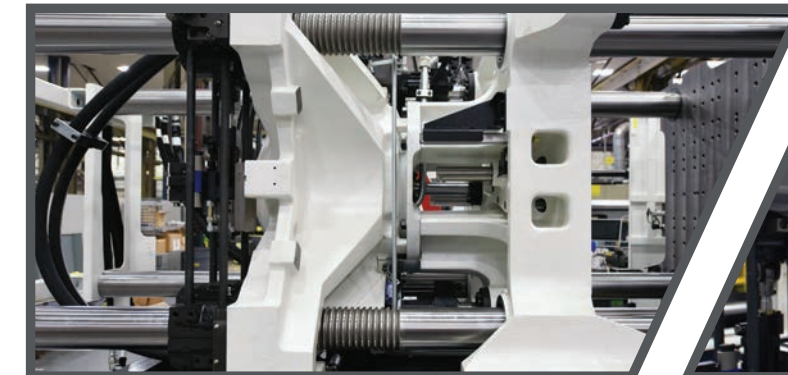
### M PRECISION LINEAR GUIDE

- Extended moving platen support runs on linear guides. Grease free mold area, reduced friction, improved clamp parallelism, reduced mold wear, and greaseless part drop area. More aggressive ramping at mold close and mold open improves dry cycles.

### M KIDNEY LOOP FILTRATION SYSTEM

- The new design for the Kidney Loop Filtration System allows filtration to run continuously, if preferred, via the control and maintains a 3 micron filtration.

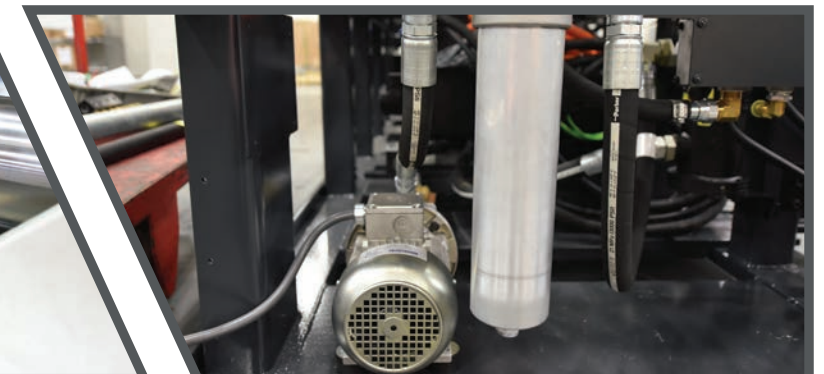
CENTER TONNAGE



ROBUST NUT LOCK



PRECISION LINEAR GUIDE



KIDNEY LOOP FILTRATION SYSTEM



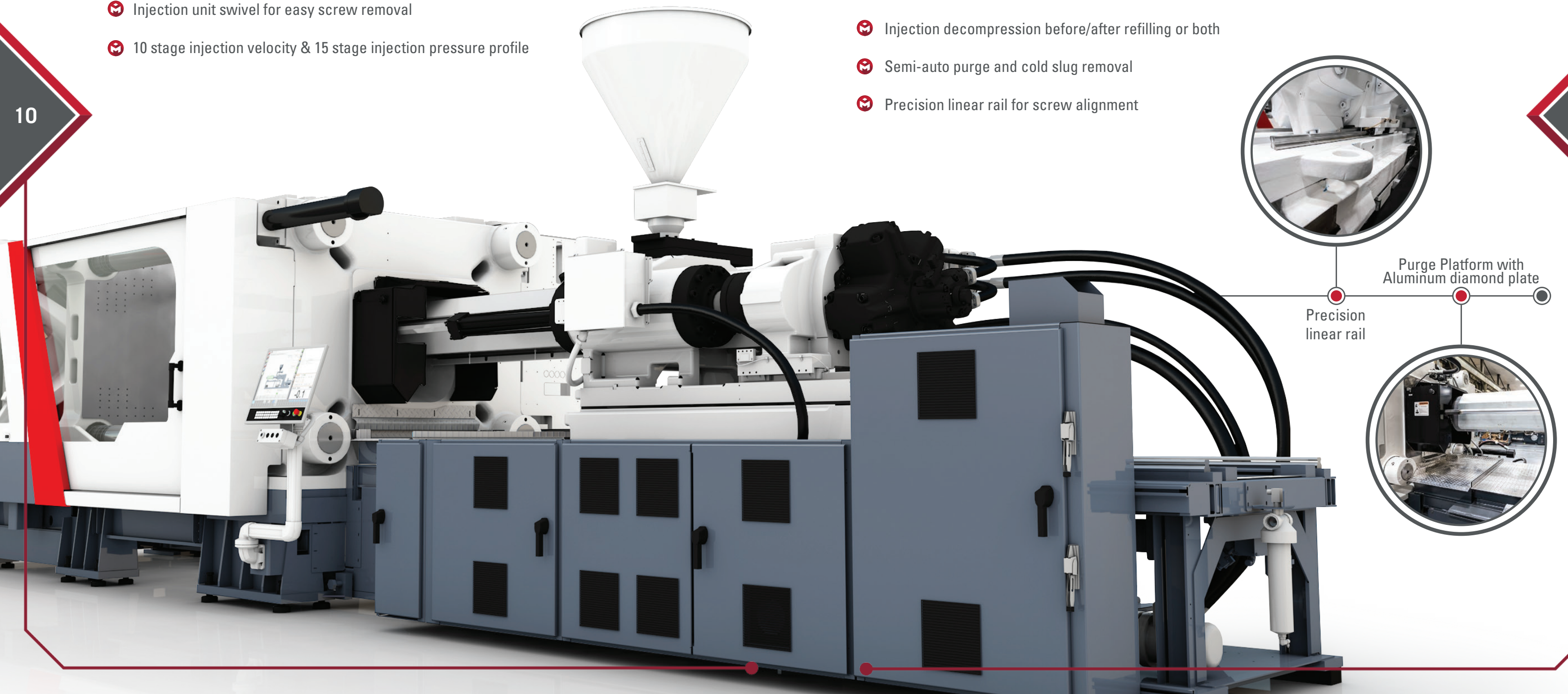
# INJECTION UNIT

Milacron offers a wide selection of injection unit sizes, barrels and screws for the Maxima Performance, increasing customer flexibility in processing.

- Precise linear guide ways reduce misalignments, mechanical friction
- Higher L/D ratio- better plasticizing and homogeneity
- Improved pull-pin clevis design for easy injection unit swivel
- Twin cylinder injection unit distributes the load equally across the screw centerline
- Injection unit swivel for easy screw removal
- 10 stage injection velocity & 15 stage injection pressure profile
- 10 stage screw speed & 10 stage back pressure control (setting) through screen
- Digital setting of extruder RPM & digital read out of actual RPM
- Switch over from fill to pack based on position, time and pressure
- Linear position transducer for accurate injection position control
- Injection decompression before/after refilling or both
- Semi-auto purge and cold slug removal
- Precision linear rail for screw alignment

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11





# MOTOR/ DRIVE UNIT

## OTHER BENEFITS INCLUDE:

- Ⓜ Improved cycle precision and repeatability- closed loop system
- Ⓜ Reduced energy consumption- servo motor rpm can vary from 0 to 3000
- Ⓜ Increased accuracy and precision- rotation control to a fraction of a degree
- Ⓜ High response - low inertia
- Ⓜ Noise reduction- up to 80% quieter than conventional hydraulic machines
- Ⓜ Ability to remotely monitor for troubleshooting and analysis
- Ⓜ Reduced sensitivity to contamination
- Ⓜ Increased reliability and lower maintenance costs
- Ⓜ Bi-directional pump for fast response in pressure control
- Ⓜ Pump is stopped intermittently during the cycle
- Ⓜ Overall quiet operation

## Efficiencies

The Milacron Maxima Performance Series excels in providing efficiencies to your plastics processing as well as to your business. With performance and proficiencies in energy efficiency, consistent and accurate repeatability and an extensive noise reduction, when compared to induction motor injection machines of comparable size, its no wonder Performance is at the heart of this machine series.



## Dry Cycle Performance

Utilizing the performance of the Milacron two platen short stroke ram, reduced tonnage build time, locked in tonnage, and synchronized locks have improved dry cycles.

The Maxima Performance Series servo-driven hydraulic machine offers energy consumption ranging from 45%-60% compared to an induction hydraulic system. Utilizing a servo-system results in a longer machine component life while also increasing oil life. The motor/pump only delivers oil as needed which reduces heat generation and water consumption.



## MOSAIC + CONTROLLER SYSTEM

It's easy to maximize the reliability and adaptability of Milacron machines with the ergonomic touch-screen control of MOSAIC+. Fast processing speeds power extensive data collection and report generation, as well as integration with automation controls to further simplify the whole process.

### Exceptional Standard Features:

- Multi-touch capable 21.5" HD touch screen
- Intuitive operator interface
- Configurable screen layout
- Remote mounted IP camera interface
- Windows based operating system
- Optional integrated Mold-Master hot runner control



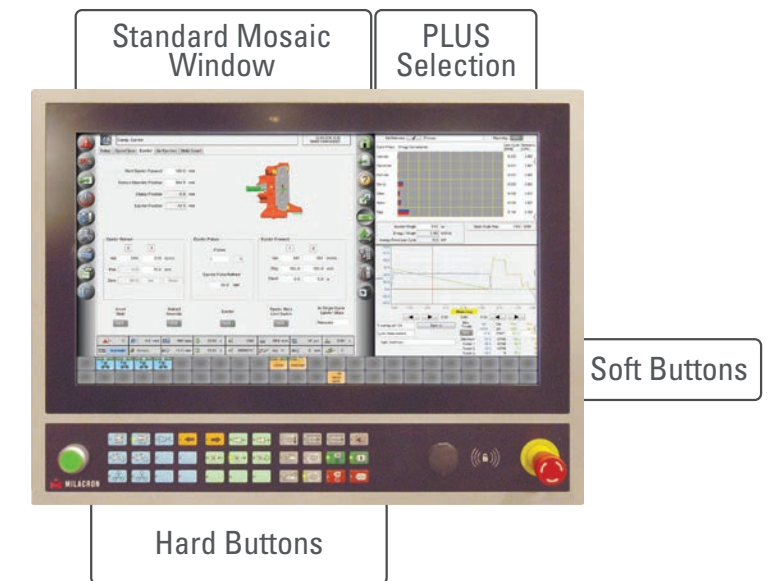
MOSAIC+ Screen versatility gives the operator simultaneous views of multiple machine functions and related equipment, such as hot runner control and remote mounted IP cameras.

- Set point overview page for quick access-actual set points for each axis at the bottom of the page
- Display of 700 process monitor samples stored on control or virtually unlimited samples on USB stick or network drive via Reports.
- Graphic display of 33 integrated soft keys with LED's located below screen.
- Process monitoring of over 50 possible parameters with graphically displayed min, max and average.
- 8 + 8 freely configurable I/O
- Self diagnostic and fault finding capability
- 8 SPC Distribution, XBar and R charts with over 50 possible parameters.
- Data protection with 4 access levels for up to 30 machine operators
- Fully-configurable cores
- Save mold data and screen shots to USB keys
- Change log and Alarm Log are 700 on the control, virtually unlimited on USB stick or network drive via Reports.

## "PLUS" SCREEN TECHNOLOGY

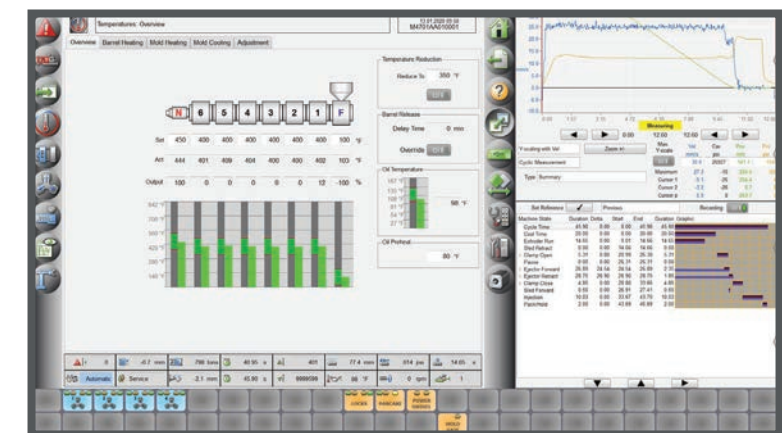
The PLUS Section has four configurable window spaces. In this section, the operator can choose to show:

- Four small windows
- One large and two small windows
- Two large windows



Content choices for the four windows include:

- Alarms log
- Energy overview
- Production run
- Injection graphics
- Trend data analysis
- Trend graphics
- Cycle Analysis
- SPC Charts
- Robot, dryer and hot runner (optional)
- Status page
- Cameras





# HIGH-QUALITY COMPONENTS



1. Motor/Drives -  
Baümuller/ B&R

2. High Speed Traverse  
Cylinders-ATOS



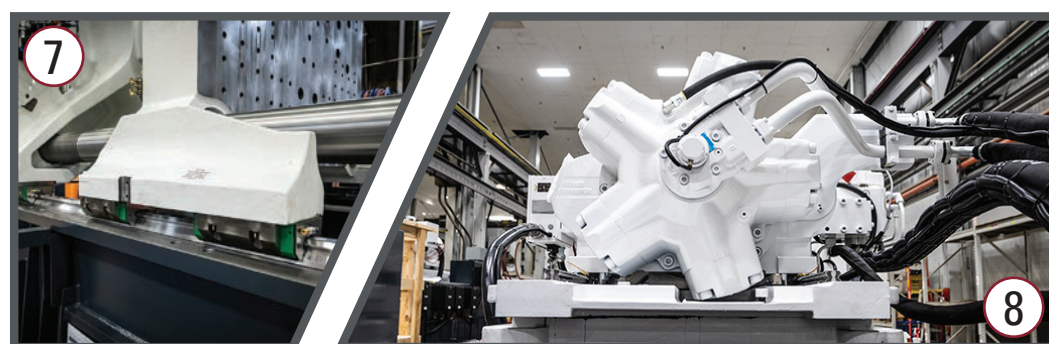
3. Control - B&R

4. Control Valves-RexRoth/  
ATOS



5. Fixed Gear Pump-Voith

6. Filtration-Hydac



7. Auto Lubricator-  
Linear Ways

8. Extruder Motor-Calzoni

# STANDARD FEATURES

	Standard	Optional
<b>GENERAL</b>		
2 Platen Technology powered by energy efficient servo motor hydraulic system	●	
This is driven baumuller motors and B & R drives.	●	
Direct control of pressure and flow via internal gear pumps	●	
Multiple servo motor system for parallel operation of eject and core pull	●	
Improved layout of manifolds and hoses on non-operator side	●	
LED lighted dual channel pressure transducer for reduced down time	●	
Designed for serviceability (test ports, access, etc)	●	
Independent full time kidney-loop filtration and cooling (Optional external filtration system)	●	○
Filtration to 3 micron with clog detection and alarm	●	
Ports for external auxiliary filtration plumbing	●	
Tridirectional part drop up to 950		○
Open access to ejector area for quick/easy mold change	●	
Robot interface ANSI146 (compatible with Euro-map 67)	●	
Robot mounting pads on stationary platen (Optional SPI plates)	●	○
Power operated operator's gate	●	
Injection hopper platform (Operator and non-operator access)	●	
Improved mold area access (Optional die area platform)		○
Ventilated control cabinet mounted outside of base with over temperature alarm (Optional Air Conditioner)	●	○
Anchor blocks mounted to machine base (Customer supplied anchor bolts and installation)	●	
Leveling pads	●	

	Standard	Optional
<b>EJECT</b>		
Standard machine mounted eject system (SPI)	●	
Pulsating ejection	●	
Position transducer used for setup and readout of ejector positions	●	
Proportional control of eject speed and pressure (operator adjustable at control)	●	
Two forward eject speed set points	●	
Eject forward dwell timer	●	
Eject retract override	●	
Intermediate eject retract set point	●	
Eject on fly/independent eject	●	
Eject retract limit switch verification (software/signals only)		○

	Standard	Optional
<b>INJECTION</b>		
Twin cylinder injection units for compact footprint	●	
Diagonal mounted twin pull-in cylinders for even nozzle force distribution (10100 and larger)	●	
Closed loop injection velocity and pressure control	●	
Closed loop feed throat temperature monitor and control, alarm only	●	
Injection fill to pack by screw position, volume, pressure, or time	●	
Direct drive single stage hydraulic screw motor (10100 and larger)	●	
Ball check or short stroke slider ring	●	
Nitrided barrel and general purpose medium compression screw (10100 and larger)	●	
Nitrided barrel and general purpose barrier screw (6610 frames and smaller)	●	
Sprue break by pressure switch	●	
Solid State relays for barrel heats	●	
Injection unit swivel for easy nozzle, screw, and barrel maintenance	●	
J-Style Thermocouples	●	
Hopper slide with shutoff, open/close, op side emptying (Optional powered slide)	●	
Ceramic insulated heater bands	●	
Heater zones labeled per Euromap 5	●	
6 Zones barrel heats (6610-23000) and 7 Zone (34000 & Larger)	●	

	Standard	Optional
<b>CLAMP</b>		
2 platen clamp design with fully supported strain rods and center tonnage.	●	
Integrate twin cylinder high speed nut lock system	●	
Compact footprint	●	
Increased max mold weight capacity	●	
Reduced (Euro-map 6) dry cycle times	●	
Swing hoses for reduced width of machine	●	
"Mold Guard" Enhanced full stroke mold protection	●	
SPI mold mounting pattern on platens	●	
Linear ways for added parallelism	●	
Replaceable 5" diameter die locating ring on stationary platen	●	
Pre-clamp open sequence	●	
Generously tapered conical hole in stationary platen	●	
Traverse cylinders for fast traversing speeds and mold breakaway force	●	
Increased breakaway force using main cylinder area (7%)	●	
Automatic lubrication of strain rods, skates and lock nuts	●	
(Optional self adjusting ratchet style jam bar)		○



## OPTIONAL CONFIGURATIONS

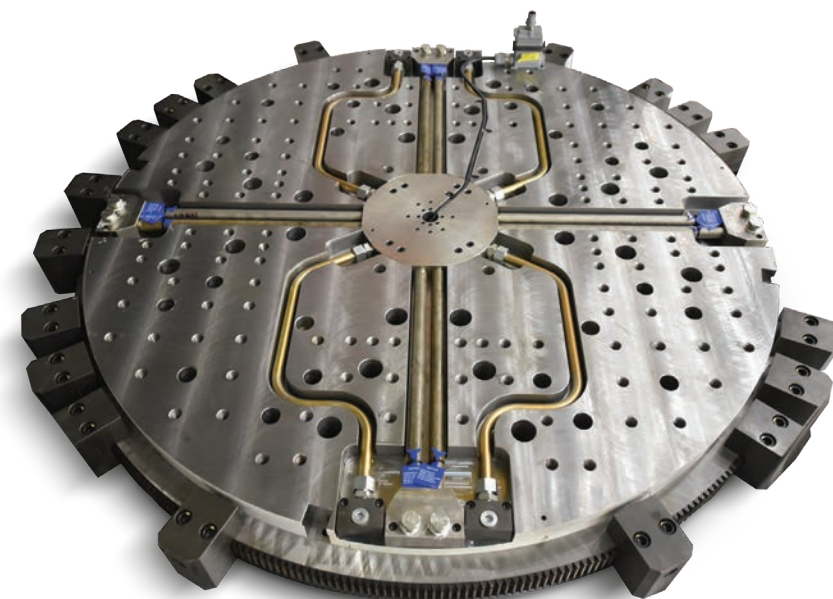
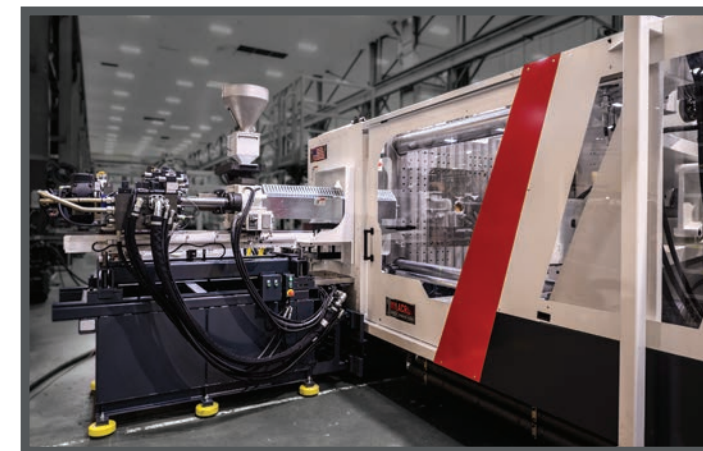
### Auxiliary Solutions Applications

- Mag Plates
- Robots
- Hydraulic Mold Clamps
- Integrated HR Controllers



### Applications

- Milacron Technology package
  - Clamp Breather Sequence
  - Coining Compression Molding
  - Expansion/Decompression Molding
  - Active Parallelism Control
- Specialty Screws and Barrels
- Long Fiber Applications
- Integrated iMFLUX capabilities
- Stack molds
- e-drives
- Multi-Component
- Oversized molds (Tie rod puller)
- PVC/cPVC
- Light-weighting



## MILACRON ADVANTAGE

### LIFECYCLE MANAGEMENT

Milacron knows and understands that your machinery and the technology built within are the long-term life blood of your plastic processing business. We also understand that the investment and acquisition of that technology is just the start.

In fact, the majority of cost associated with owning and operating plastics processing machinery comes after you've accepted it into your business applications and processes. Whether it is resin costs, parts, maintenance or even labor these expenses are often undervalued and overlooked.

### The Milacron Lifecycle Advantage provides:




- Customization of solutions
- Capital and expense management
- Interactive Technical Manual
- Advanced training
- Interactive Online 3D Parts Catalog
- Same-day shipment on in-stock parts
- Remote Monitoring Services
- Rebuild and retrofit capabilities
- Maintenance Service Agreement

Milacron extends the value of your entire fleet – even if your fleet includes technology we didn't make. This is the Milacron Lifecycle Advantage, and it is only the beginning of how we help you create value.



# M-POWERED

## M-Powered Intelligence

-  M-POWERED leverages the latest in Industrial Internet of Things (IIoT) and data science to contribute unique insights and intelligence into your machine's current operations and future needs.
-  Accompany the growing list of M-Powered customers that are experiencing a reduction in service trips and up to a 50% reduction in time to resolution of unplanned downtime events.
-  Once an appointment is confirmed, a Milacron technician will be at your facility within the next 10 days to bring your machine online. Please keep an ethernet cable to the machine readily available. Alternative connection choices are possible in the event of a more complex IT setup.










M-Powered Applications	Advantage	Essential	Premier
Connect Portal	✓	✓	✓
Technical Support	On Demand (payable per hour)	✓	✓ (24/7)
Production Monitoring	✓	✓	✓
Downtime Tracking		✓	✓
Preventative Maintenance			✓
Predictive Analytics			✓

# QDP/QDP+

Flexibility and customization are at the root of the Maxima Performance platform. With over 60+ options available, you can configure your machine to the exact need and requirement to fit your molding application.

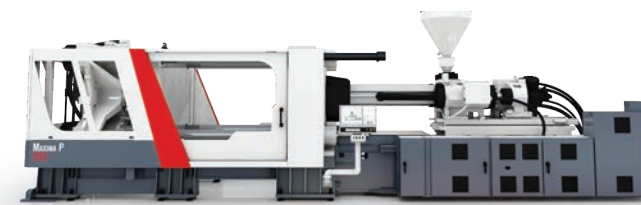
The Milacron Quick Delivery Program now brings that performance to you faster and more efficiently. Through QDP+ you can choose from over 60 pre-configured options to customize the already industry leading Maxima Performance injection machine. In as little as 8 weeks you can get the industries' high performing Maxima Performance series and get up and running faster than ever before.

-  **CLAMP**
  - Power gate (MPs 725-1100)
  - Part drop detect
  - Cavity pressure, transfer interface (strain gauge)
  - Robot interface adapter, Euromap 67 to AN-116 (SPI 3.0)
  - Clamp motion key switch
  - Hydraulic suction filtration-Magnum PumpMate
  - Eject retract verification (LS)
-  **HYDRAULICS / PNEUMATICS**
  - 3 stage air eject
  - Hydraulic 1-4 stage core pull with proportional speed & pressure (max of 2 valves per platen)
  - Continuous high pressure core hold
  - 1-8 hydraulic valve gates (< 600 ton)
  - 1-12 hydraulic valve gates (> 600 ton)
  - 1-8 pneumatic valve gates
-  **SOFTWARE**
  - Host computer interface
  - Special sequence- air, core, eject
-  **GENERAL**
  - Mold water supply in semi & auto
  - 2 zone water manifold
  - Spanish screens, warning tags
  - Special machine paint
  - Varian turntable
  - E-Multi second injection unit
  - Pump motor covers
  - Common wear parts package, MPs
-  **INJECTION**
  - Extended nozzle penetrations
  - Pneumatic hopper slides
  - Hopper magnet
  - Heater band burnout detect
  - TCS heater bands in place of standard
  - Additional nozzle heater zone
- INJECTION**
  - Ball check or SS slider screw tips
  - WearStar I (> 90 mm diameter) package
  - WearStar II (< 90 mm diameter) package
-  **ELECTRICAL**
  - Power cabinet air conditioner
  - Dual circuit motor lock out
  - UL certification
  - CSA Canadian certification
  - 575 volt / 230 volt transformers
  - Auxiliary electrical outlets-230V, 30Amp
  - Auxiliary electrical outlets-110V, 15Amp
  - Color feeder signal and receptacle
  - 12-48 zone Hot runner
-  **CONTACT YOUR SALES REPRESENTATIVE FOR THE FULL LIST.**

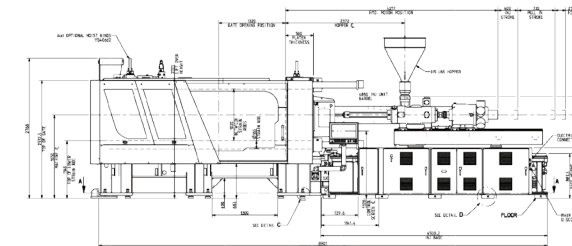
# THE MAXIMA P SERIES

**TONNAGE:**  
500 US/450 Metric

**Frame Sizes:**  
2290, 3470, 4880  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	2290 Frame			3470 Frame			4880 Frame		
		A	B	C	A	B	C	A'	A	B
<b>General</b>										
Electrical Motors	hp kW	26 (21 hp) / 80 (107 hp) 26 (16 kW) / 80 (43 kW)			26 (21 hp) / 80 (107 hp) 26 (16 kW) / 80 (43 kW)			40 (54 hp) / 80 (107 hp) 40 (19 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95			25 95		
Connected Load	FLI	179			202			198		
Overall Dimensions (L x W x H)	in mm	317.2 x 91.7 x 99 8,057 x 2,329 x 2,522			317.2 x 91.7 x 99 8,057 x 2,329 x 2,522			323.0 x 91.7 x 99 8,204 x 2,329 X 2,522		
Machine Weight (without oil)	lbs kg	45,027 20,430			47,030 21,340			52,910 24,000		
<b>Injection Unit Specifications</b>										
Injection Capacity, Maximum GPPS	oz gms	30 850	41 1,162	54 1,530	46 1,304	60 1,701	76 2,155	67 1,899	85 2,410	105 2,977
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	55.2 904	75.1 1,231	98.1 1,608	84.5 1,385	110.4 1,809	139.7 2,290	122.6 2,010	155.2 2,544	191.7 3,141
Maximum Injection Pressure	psi bar	32,474 2,239	26,933 1,857	20,624 1,422	33,228 2,291	27,818 1,918	21,988 1,516	35,200 2,427	27,800 1,917	22,500 1,552
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	26 440	36 599	47 782	27 444	35 580	44 734	31 519	40 657	49 811
Injection Velocity	in/sec mm/sec	6.13 155.70			4.54 115.4			4.07 103.3		
Screw Stroke	in mm	12.6 320			14.2 360			15.7 400		
Back Pressure Limits	psi bar	500			500			500		
Low Torque Screw Speed Max	rpm	337	289	253	289	253	225	253	225	202
Low Torque at Screw	in-lb Nm	20,604 2,328			22,595 2,553			31,544 3,564		
at bar	bar PSI	2,450 169			2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.59 102	3.15 89	3.87 110	3.94 112	3.87 110	4.55 129	4.84 137	4.55 129	5.29 150
High Torque Screw Speed Max	rpm	289	289	253	253	250	225	207	207	202
High Torque at Screw	in-lb Nm	30,977 3,500			34,385 3,885			47,324 5,347		
at bar	bar PSI	2,450 169			2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.08 87	3.15 89	3.87 110	3.45 98	3.82 108	4.55 129	3.96 112	4.04 114	5.29 150
Screw Diameter	in mm	2.36 60	2.76 70	3.15 80	2.76 70	3.15 80	3.54 90	3.15 80	3.54 90	3.94 100
Screw L/D Ratio	L/D	26.9	22.9	20	26	22.8	20	25	22.2	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1			4/1		
Total Heat Capacity	kW	39.5			57.8			53.0		

	ENGLISH METRIC	2290 Frame			3470 Frame			4880 Frame		
		A	B	C	A	B	C	A'	A	B
<b>Clamp</b>										
Clamping Force	ton kN	505 4,500			505 4,500			505 4,500		
Opening Force	ton kN	20.2 180			20.2 180			20.2 180		
Clamp Stroke	in mm	51.18 1,300			51.18 1,300			51.18 1,300		
Clamp Close Velocity	in/sec mm/sec	36.81 935			36.81 935			36.81 935		
Clamp Open Velocity	in/sec mm/sec	38.38 975			38.38 975			38.38 975		
Eject Force (forward)	tons kN	13.50 120			13.50 120			13.50 120		
Eject Velocity (forward)	in/sec mm/sec	7.76 197.16			7.76 197.16			7.76 197.16		
Eject Velocity (retract)	in/sec mm/sec	8.26 210			8.26 210			8.26 210		
Ejector Stroke	in mm	7.87 200			7.87 200			7.87 200		
Mold Protect Pressure	psi	1,500			1,500			1,500		
Maximum Daylight	in mm	64.96 1,650			64.96 1,650			64.96 1,650		
Extended Daylight (Option)	in mm	72.83 1,850			72.83 1,850			72.83 1,850		
Minimum Mold Height	in mm	13.78 350			13.78 350			13.78 350		
Maximum Mold Height	in mm	33.46 850			33.46 850			33.46 850		
Maximum Mold Weight	lbs kg	10,450 / 10,450 / 15,670 4,740 / 4,740 / 7,110			10,450 / 10,450 / 15,670 4,740 / 4,740 / 7,110			10,450 / 10,450 / 15,670 4,740 / 4,740 / 7,110		
Platen Size (H x V)	in mm	49.21 x 45.67 1,250 x 1,160			49.21 x 45.67 1,250 x 1,160			49.21 x 45.67 1,250 x 1,160		
Distance Between Tie Rods	in mm	36.22 x 32.68 920 x 830			36.22 x 32.68 920 x 830			36.22 x 32.68 920 x 830		
Tie Rod Diameter	in mm	5.51 140			5.51 140			5.51 140		
Eject and CP	g/min l/min	26/21 98/79			26/21 98/79			26/21 98/79		
Dry Cycle Time (Euromap 6)	sec	2.92			2.92			2.92		
Diagonal Tiebar Distance	in mm	51 1,297			51 1,297			51 1,297		
Rotary Turn Table Recommended		Varian 1000 mm			Varian 1000 mm			Varian 1000 mm		

**Notes**

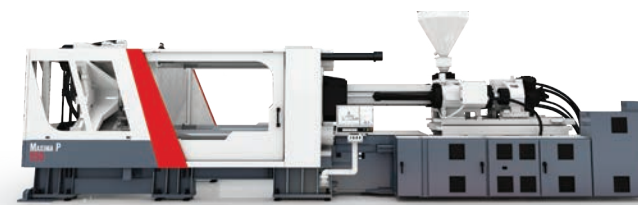
1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.



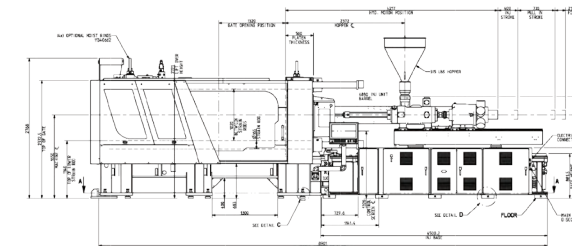
# THE MAXIMA P SERIES

**TONNAGE:**  
600 US/550 Metric

**Frame Sizes:**  
2290, 3470  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	2290 Frame			3470 Frame		
		A	B	C	A	B	C
<b>General</b>							
Electrical Motors	hp kW	26 (21 HP) / 80 (107 HP) 26 (16 kW) / 80 (43 kW)			26 (21 HP) / 80 (107 HP) 26 (16kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	179			202		
Overall Dimensions (L x W x H)	in mm	347.2 x 97 x 101.1 8819 x 2464 x 2567			347.2 x 97 x 101.1 8819 x 2464 x 2567		
Machine Weight	lbs kg	52,862 23,978			54,864 24,886		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	30 850	41 1,162	54 1,530	46 1,304	60 1,701	76 2,155
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	55.2 904	75.1 1,231	98.1 1,608	84.5 1,385	110.4 1,809	139.7 2,290
Maximum Injection Pressure	psi bar	32,474 2,239	26,933 1,857	20,624 1,422	33,228 2,291	27,818 1,918	21,988 1,516
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	26 440	36 599	47 782	27 444	35 580	44 734
Injection Velocity	in/sec mm/sec	6.13 155.7			4.54 115.4		
Screw Stroke	in mm	12.6 320			14.2 360		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	337	289	253	289	253	225
Low Torque @ Screw	in-lb Nm	20,604 2,328			22,595 2,553		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.59 102	3.15 89	3.87 110	3.94 112	3.87 110	4.55 129
High Torque Screw Speed Maximum	rpm	289	289	253	250	250	225
High Torque @ Screw	in-lb Nm	30,977 3,500			34,385 3,885		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.17 90	3.15 89	3.87 110	3.41 97	3.82 108	5.06 143
Screw Diameter	in mm	2.36 60	2.76 70	3.15 80	2.76 70	3.15 80	3.54 90
Screw L/D Ratio	L/D	26.9	22.9	20	26	22.8	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	39.5			57.8		

	ENGLISH METRIC	2290 Frame			3470 Frame		
		A	B	C	A	B	C
<b>Clamp</b>							
Clamping Force	ton kN	618 5,500			618 5,500		
Opening Force	ton kN	24.7 220			24.7 220		
Clamp Stroke	in mm	55.1 1,400			55.1 1,400		
Clamp Close Velocity	in/sec mm/sec	36.92 938			36.92 938		
Clamp Open Velocity	in/sec mm/sec	38.42 976			38.42 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	7.76 197.16			7.76 197.16		
Eject Velocity (retract)	in/sec mm/sec	8.26 210			8.26 210		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	68.9 1,750			68.9 1,750		
Extended Daylight (Option)	in mm	78.7 2,000			78.7 2,000		
Minimum Mold Height	in mm	13.8 350			13.8 350		
Maximum Mold Height	in mm	35.8 910			35.8 910		
Maximum Mold Weight	lbs kg	13,530 / 13,530 / 20,290 6,136 / 6,136 / 9,200			13,530 / 13,530 / 20,290 6,136 / 6,136 / 9,200		
Platen Size (H x V)	in mm	53.9 x 49.2 1,370 x 1,250			53.9 x 49.2 1,370 x 1,250		
Distance Between Tie Rods	in mm	40.9 x 36.2 1,040 x 920			40.9 x 36.2 1,040 x 920		
Tie Rod Diameter	in mm	5.91 150			5.91 150		
Eject and CP	g/min l/min	26/21 98/79			26/21 98/79		
Dry Cycle Time (Euromap 6)	sec	3.26			3.26		
Diagonal Tiebar Distance	in mm	57 1,450			57 1,450		
Rotary Table Recommended		Varian 1000 mm			Varian 1000 mm		

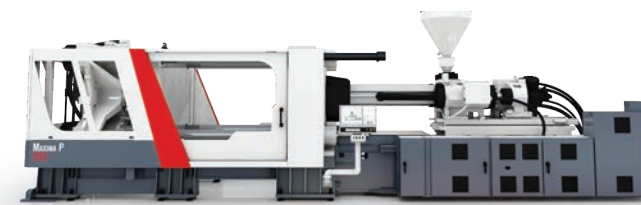
**Notes**

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.

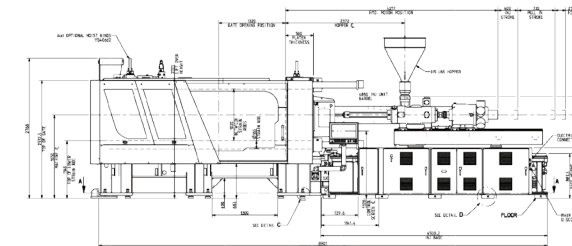
# THE MAXIMA P SERIES

**TONNAGE:**  
600 US/550 Metric

**Frame Sizes:**  
4880, 6610  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	4880 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>General</b>							
Electrical Motors	hp kW	40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)			40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	198			207		
Overall Dimensions (L x W x H)	in mm	347.2 x 97 x 101.1 8,819 x 2,464 x 2,567			354.7 x 97 x 101.1 9,010 x 2,464 x 2,567		
Machine Weight (without oil)	lbs kg	60,870 27,610			62,565 28,379		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	67 1,899	85 2,410	105 2,977	93 2,637	116 3,288	140 3,969
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	122.6 2,010	155.2 2,544	191.7 3,141	170.8 2,799	210.8 3,455	255.1 4,181
Maximum Injection Pressure	psi bar	35,200 2,427	27,800 1,917	22,500 1,552	33,286 2,295	27,760 1,914	22,944 1,582
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	31 519	40 657	49 811	32 533	40 658	48 796
Injection Velocity	in/sec mm/sec	4.07 103.30			3.30 83.84		
Screw Stroke	in mm	15.7 400			17.3 440		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	253	225	202	202	202	184
Low Torque at Screw	in-lb Nm	31,544 3,564			48,316 5,459		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	4.84 137	4.55 129	5.29 150	5.11 145	5.29 150	6.07 172
High Torque Screw Speed Maximum	rpm	207	207	202	139	139	139
High Torque at Screw	in-lb Nm	47,324 5,347			70,204 7,932		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.96 112	4.19 118	5.29 150	3.51 100	3.64 103	4.59 130
Screw Diameter	in mm	3.15 80	3.54 90	3.94 100	3.54 90	3.94 100	4.33 110
Screw L/D Ratio	L/D	25	22.2	20	24.4	22	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	53.0			60.3		

	ENGLISH METRIC	2290 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	618 5,500			618 5,500		
Opening Force	ton kN	24.7 220			24.7 220		
Clamp Stroke	in mm	55.1 1,400			55.1 1,400		
Clamp Close Velocity	in/sec mm/sec	36.92 938			36.92 938		
Clamp Open Velocity	in/sec mm/sec	38.42 976			38.42 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	7.76 197.16			7.76 197.16		
Eject Velocity (retract)	in/sec mm/sec	8.26 210			8.26 210		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	68.9 1,750			68.9 1,750		
Extended Daylight (Option)	in mm	78.7 2,000			78.7 2,000		
Minimum Mold Height	in mm	13.8 350			13.8 350		
Maximum Mold Height	in mm	35.8 910			35.8 910		
Maximum Mold Weight	lbs kg	13,530 / 13,530 / 20,290 6,136 / 6,136 / 9,200			13,530 / 13,530 / 20,290 6,136 / 6,136 / 9,200		
Platen Size (H x V)	in mm	53.9 x 49.2 1,370 x 1,250			53.9 x 49.2 1,370 x 1,250		
Distance Between Tie Rods	in mm	40.9 x 36.2 1,040 x 920			40.9 x 36.2 1,040 x 920		
Tie Rod Diameter	in mm	5.91 150			5.91 150		
Eject and CP	g/min l/min	26/21 98/79			26/21 98/79		
Dry Cycle Time (Euromap 6)	sec	3.26			3.26		
Diagonal Tiebar Distance	in mm	57 1,450			57 1,450		
Rotary Turn Table Recommended		Varian 1000 mm			Varian 1000 mm		

**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.



# THE MAXIMA P SERIES

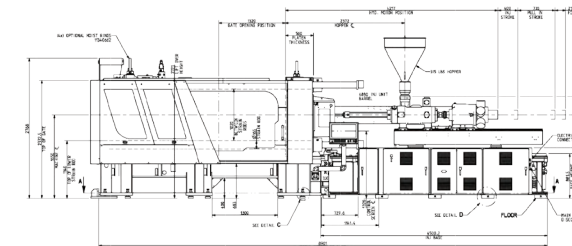
**TONNAGE:**  
600WP US/  
550 Metric

**Frame Sizes:**  
3470, 4880

**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	3470 Frame			4880 Frame		
		A	B	C	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)			40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	204			198		
Overall Dimensions (L x W x H)	in mm	350.4 x 107.6 x 109 9,067 x 2,733 x 2,768			350.4 x 107.6 x 109 9,218 x 2,733 x 2,768		
Machine Weight (without oil)	lbs kg	67,256 30,507			69,399 31,479		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	46 1,304	60 1,701	76 2,155	67 1,899	85 2,410	105 2,977
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	84.5 1,385	110.4 1,809	139.7 2,290	122.6 2,010	155.2 2,544	191.7 3,141
Maximum Injection Pressure	psi bar	33,228 2,291	27,818 1,918	21,988 1,516	35,200 2,427	27,800 1,917	22,500 1,552
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	30 502	40 656	50 831	31 519	40 657	49 811
Injection Velocity	in/sec mm/sec	5.15 130.7			4.07 103.3		
Screw Stroke	in mm	14.2 360			15.7 400		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	289	253	225	253	225	202
Low Torque at Screw	in-lb Nm	22,595 2,553			31,544 3,564		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.94 112	3.87 110	4.55 129	4.84 137	4.55 129	5.29 150
High Torque Screw Speed Maximum	rpm	269	253	225	207	207	202
High Torque at Screw	in-lb Nm	34,450 3,892			47,267 5,340		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.67 104	3.87 110	4.55 129	3.96 112	4.19 119	5.29 150
Screw Diameter	in mm	2.76 70	3.15 80	3.54 90	3.15 80	3.54 90	3.94 100
Screw L/D Ratio	L/D	26	22.8	20	25	22.2	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	57.8			53.0		

	ENGLISH METRIC	3470 Frame			4880 Frame		
		A	B	C	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	618 5,500			618 5,500		
Opening Force	ton kN	24.7 220			24.7 220		
Clamp Stroke	in mm	57.1 1,450			57.1 1,450		
Clamp Close Velocity	in/sec mm/sec	36.9 938			36.9 938		
Clamp Open Velocity	in/sec mm/sec	38.4 976			38.4 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	11.98 304.18			11.98 304.18		
Eject Velocity (retract)	in/sec mm/sec	17.45 443.15			17.45 443.15		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	72.8 1,850			72.8 1,850		
Extended Daylight (Option)	in mm	82.6 2,100			82.6 2,100		
Minimum Mold Height	in mm	15.7 400			15.7 400		
Maximum Mold Height	in mm	37.8 960			37.8 960		
Maximum Mold Weight	lbs kg	17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960			17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960		
Platen Size (H x V)	in mm	60 x 53.3 1525 x 1355			60 x 53.3 1525 x 1355		
Distance Between Tie Rods	in mm	47.4 x 40.7 1,205 x 1,035			47.4 x 40.7 1,205 x 1,035		
Tie Rod Diameter	in mm	5.9 150			5.9 150		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.33			4.33		
Diagonal Tiebar Distance	in mm	64 1,635			64 1,635		
Rotary Turn Table Recommended		Varian 1350 mm			Varian 1350 mm		

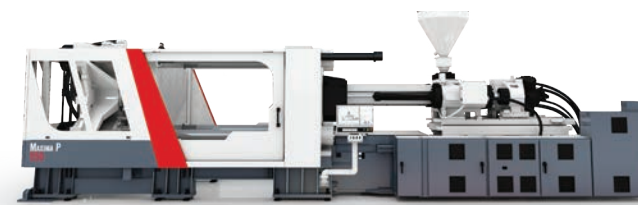
**Notes**

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.

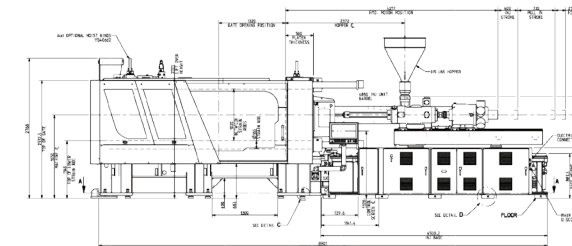
# THE MAXIMA P SERIES

**TONNAGE:**  
600WP US/  
550 Metric

**Frame Sizes:**  
6610, 10100  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	6610 Frame			10100 Frame		
		A'	A	B	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)			80 (107 HP) / 80 (107 HP) 80 (107 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			240 908		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	207			333		
Overall Dimensions (L x W x H)	in mm	350.4 x 107.6 x 109 9,672 x 2,733 x 2,768			384.1 x 107.6 x 109 9,921 x 2,733 x 2,768		
Machine Weight (without oil)	lbs kg	70,530 31,992			79,444 36,035		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	93 2,637	116 3,288	140 3,969	148 4,185	179 5,064	231 6,539
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	170.8 2,799	210.8 3,455	255.1 4,181	268.3 4,398	324.7 5,321	419.3 6,872
Maximum Injection Pressure	psi bar	33,286 2,295	27,760 1,914	22,944 1,582	31,937 2,202	27,400 1,890	21,200 1,462
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	32 533	40 658	48 796	37 622	45 753	59 972
Injection Velocity	in/sec mm/sec	3.3 83.84			3.11 79		
Screw Stroke	in mm	17.3 440			22.0 560		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	203	202	184	167	167	162
Low Torque at Screw	in-lb Nm	48,316 5,459			74,018 8,363		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	5.13 145	5.29 150	6.07 172	5.47 155	5.51 156	7.62 216
High Torque Screw Speed Maximum	rpm	139	139	139	108	108	108
High Torque at Screw	in-lb Nm	70,086 7,919			114,834 12,974		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.51 100	3.64 103	4.59 130	3.54 100	3.56 101	5.08 144
Screw Diameter	in mm	3.54 90	3.94 100	4.33 110	3.94 100	4.33 110	4.92 125
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		

	ENGLISH METRIC	6610 Frame			10100 Frame		
		A'	A	B	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	618 5,500			618 5,500		
Opening Force	ton kN	24.7 220			24.7 220		
Clamp Stroke	in mm	57.1 1,450			57.1 1,450		
Clamp Close Velocity	in/sec mm/sec	36.9 938			36.9 938		
Clamp Open Velocity	in/sec mm/sec	38.4 976			38.4 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	11.98 304.18			11.98 304.18		
Eject Velocity (retract)	in/sec mm/sec	17.45 443.15			17.45 443.15		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	72.8 1,850			72.8 1,850		
Extended Daylight (Option)	in mm	82.6 2,100			82.6 2,100		
Minimum Mold Height	in mm	15.7 400			15.7 400		
Maximum Mold Height	in mm	37.8 960			37.8 960		
Maximum Mold Weight	lbs kg	17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960			17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960		
Platen Size (H x V)	in mm	60 x 53.3 1525 x 1355			60 x 53.3 1525 x 1355		
Distance Between Tie Rods	in mm	47.4 x 40.7 1,205 x 1,035			47.4 x 40.7 1,205 x 1,035		
Tie Rod Diameter	in mm	5.9 150			5.9 150		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.33			4.33		
Diagonal Tiebar Distance	in mm	64 1,635			64 1,635		
Rotary Turn Table Recommended		Varian 1350 mm			Varian 1350 mm		

**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.



# THE MAXIMA P SERIES

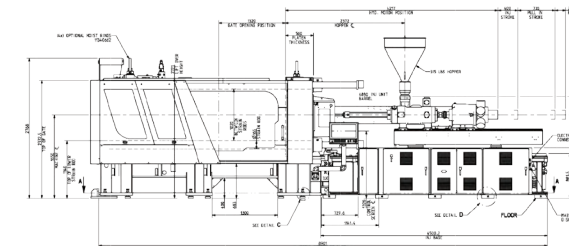
**TONNAGE:**  
725 US/650 Metric

**Frame Sizes:**  
3470, 4880

**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	3470 Frame			4880 Frame		
		A	B	C	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)			40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)		
Total Oil Capacity	gal L	180 681			180 681		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	204			198		
Overall Dimensions (L x W x H)	in mm	365.6 x 111.8 x 107.5 9287 x 2840.6 x 2730.6			365.6 x 111.8 x 107.5 9287 x 2840.6 x 2730.6		
Machine Weight (without oil)	lbs kg	67,256 30,507			69,399 31,479		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	46 1,304	60 1,701	76 2,155	67 1,899	85 2,410	105 2,977
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	84.5 1,385	110.4 1,809	139.7 2,290	122.6 2,010	155.2 2,544	191.7 3,141
Maximum Injection Pressure	psi bar	33,228 2,291	27,818 1,918	21,988 1,516	35,200 2,427	27,800 1,917	22,500 1,552
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	30 502	40 656	50 831	31 519	40 657	49 811
Injection Velocity	in/sec mm/sec	5.15 130.7			4.07 103.30		
Screw Stroke	in mm	14.2 360			15.7 400		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	289	253	225	253	225	202
Low Torque at Screw	in-lb Nm	22,595 2,553			31,544 3,564		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.94 112	3.87 110	4.55 129	4.84 137	5.12 145	5.29 150
High Torque Screw Speed Maximum	rpm	269	253	225	207	207	202
High Torque at Screw	in-lb Nm	34,385 3,885			47,324 5,347		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.67 104	3.87 110	4.55 129	3.96 112	4.19 119	5.29 150
Screw Diameter	in mm	2.76 70	3.15 80	3.54 90	3.15 80	3.54 90	3.94 100
Screw L/D Ratio	L/D	26	22.8	20	25	22.2	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	57.8			53.0		

	ENGLISH METRIC	3470 Frame			4880 Frame		
		A	B	C	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	731 6,500			731 6,500		
Opening Force	ton kN	29 260			29 260		
Clamp Stroke	in mm	57.1 1,450			57.1 1,450		
Clamp Close Velocity	in/sec mm/sec	36.9 938			36.9 938		
Clamp Open Velocity	in/sec mm/sec	38.4 976			38.4 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	11.98 304.18			11.98 304.18		
Eject Velocity (retract)	in/sec mm/sec	17.45 443.15			17.45 443.15		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	72.8 1,850			72.8 1,850		
Extended Daylight (Option)	in mm	82.6 2,100			82.6 2,100		
Minimum Mold Height	in mm	15.7 400			15.7 400		
Maximum Mold Height	in mm	37.8 960			37.8 960		
Maximum Mold Weight	lbs kg	17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960			17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960		
Platen Size (H x V)	in mm	60 x 53.3 1,525 x 1,355			60 x 53.3 1,525 x 1,355		
Distance Between Tie Rods	in mm	46.9 x 40.2 1,190 x 1,020			46.9 x 40.2 1,190 x 1,020		
Tie Rod Diameter	in mm	6.5 165			6.5 165		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.33			4.33		
Diagonal Tiebar Distance	in mm	64 1,635			64 1,635		
Rotary Turn Table Recommended		Varian 1350 mm			Varian 1350 mm		

**Notes**

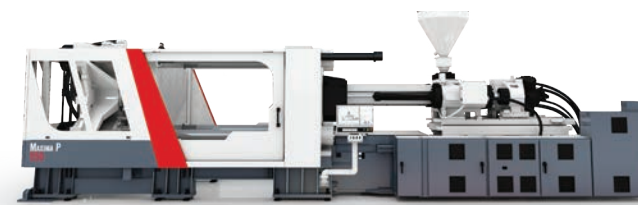
1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.

# THE MAXIMA P SERIES

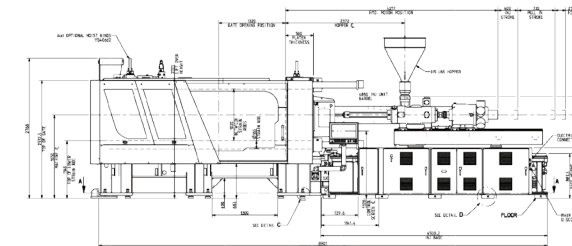
**TONNAGE:**  
725 US/650 Metric

**Frame Sizes:**  
3470, 4880

**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	6610 Frame			10100 Frame		
		A'	A	B	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW)			50 (58 HP) / 50 (58 HP) / 50 (58 HP) 50 (43 kW) / 50 (43 kW) / 50 (43 kW)		
Total Oil Capacity	gal L	180 681			240 908		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	207			333		
Overall Dimensions (L x W x H)	in mm	365.6 x 111.8 x 107.5 9,287 x 2,840.6 x 2,730.6			395.6 x 111.8 x 107.5 10,049 x 2,840.6 x 2,730.6		
Machine Weight (without oil)	lbs kg	70,530 31,992			79,444 36,035		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	93 2,637	116 3,288	140 3,969	148 4,185	179 5,064	231 6,539
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	170.8 2,799	210.8 3,455	255.1 4,181	268.3 4,398	324.7 5,321	419.3 6,872
Maximum Injection Pressure	psi bar	33,286 2,295	27,760 1,914	22,944 1,582	31,937 2,202	27,400 1,890	21,200 1,462
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	32 533	40 658	48 796	37 622	45 753	59 972
Injection Velocity	in/sec mm/sec	3.3 83.89			3.11 79		
Screw Stroke	in mm	17.3 440			22.0 560		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	203	202	184	167	167	162
Low Torque at Screw	in-lb Nm	48,316 5,459			74,018 8,363		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	5.13 145	5.29 150	6.07 172	5.47 155	5.51 156	7.62 216
High Torque Screw Speed Maximum	rpm	139	139	139	108	108	108
High Torque at Screw	in-lb Nm	70,204 7,932			113,962 12,876		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.51 100	3.64 103	4.59 130	3.54 100	3.56 101	5.08 144
Screw Diameter	in mm	3.54 90	3.94 100	4.33 110	3.94 100	4.33 110	4.92 125
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		

	ENGLISH METRIC	6610 Frame			10100 Frame		
		A'	A	B	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	731 6,500			731 6,500		
Opening Force	ton kN	29 260			29 260		
Clamp Stroke	in mm	57.1 1,450			57.1 1,450		
Clamp Close Velocity	in/sec mm/sec	36.9 938			36.9 938		
Clamp Open Velocity	in/sec mm/sec	38.4 976			38.4 976		
Eject Force (forward)	tons kN	13.5 120			13.5 120		
Eject Velocity (forward)	in/sec mm/sec	11.98 304.18			11.98 304.18		
Eject Velocity (retract)	in/sec mm/sec	17.45 443.15			17.45 443.15		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	72.8 1,850			72.8 1,850		
Extended Daylight (Option)	in mm	82.6 2,100			82.6 2,100		
Minimum Mold Height	in mm	15.7 400			15.7 400		
Maximum Mold Height	in mm	37.8 960			37.8 960		
Maximum Mold Weight	lbs kg	17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960			17,582 / 17,582 / 26,370 7,975 / 7,975 / 11,960		
Platen Size (H x V)	in mm	60 x 53.3 1,525 x 1,355			60 x 53.3 1,525 x 1,355		
Distance Between Tie Rods	in mm	46.9 x 40.2 1,190 x 1,020			46.9 x 40.2 1,190 x 1,020		
Tie Rod Diameter	in mm	6.5 165			6.5 165		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.33			4.33		
Diagonal Tiebar Distance	in mm	64 1,635			64 1,635		
Rotary Turn Table Recommended		Varian 1350 mm			Varian 1350 mm		

**Notes**

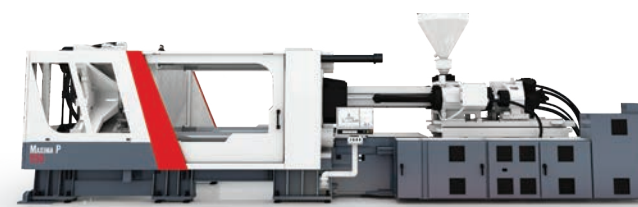
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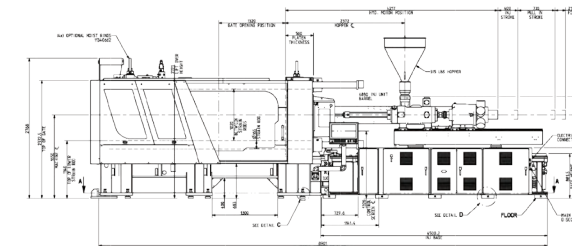
# THE MAXIMA P SERIES

**TONNAGE:**  
950 US/850 Metric

**Frame Sizes:**  
4880, 6610  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	4880 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) / 26 (21 HP) 40 (19 kW) / 80 (43 kW) / 26 (16 kW)			40 (54 HP) / 80 (107 HP) / 26 (21 HP) 40 (19 kW) / 80 (43 kW) / 26 (16 kW)		
Total Oil Capacity	gal L	240 908.5			240 908.5		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	236			245		
Overall Dimensions (L x W x H)	in mm	376.3 x 123.4 x 107.5 9,557.6 x 3,133 x 2,731.6			380.6 x 123.4 x 107.5 9,666.6 x 3,133 x 2,713.6		
Machine Weight (without oil)	lbs kg	88,141 39,980			89,272 40,493		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	67 1,899	85 2,410	105 2,977	93 2,637	116 3,288	140 3,969
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	122.6 2,010	155.2 2,544	191.7 3,141	170.8 2,799	210.8 3,455	255.1 4,181
Maximum Injection Pressure	psi bar	35,200 2,427	27,800 1,917	22,500 1,552	33,286 2,295	27,760 1,914	22,944 1,582
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	38 630	48 798	60 985	39 648	48 800	59 968
Injection Velocity	in/sec mm/sec	4.94 125.52			4.01 101.88		
Screw Stroke	in mm	15.7 400			17.3 440		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	253	225	202	215	202	184
Low Torque at Screw	in-lb Nm	31,544 3,564			48,316 5,459		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	4.84 137	4.55 129	5.29 150	5.44 154	5.29 150	6.07 172
High Torque Screw Speed Maximum	rpm	250	225	202	169	169	169
High Torque at Screw	in-lb Nm	47,324 5,347			70,204 7,932		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	4.78 136	4.55 129	5.29 150	4.27 121	4.43 126	5.58 158
Screw Diameter	in mm	3.15 80	3.54 90	3.94 100	3.54 90	3.94 100	4.33 110
Screw L/D Ratio	L/D	25	22	20	24	22	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	53.0			60.3		

	ENGLISH METRIC	4880 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	955 8,500			955 8,500		
Opening Force	ton kN	38 340			38 340		
Clamp Stroke	in mm	63 1,600			63 1,600		
Clamp Close Velocity	in/sec mm/sec	31.25 794			31.25 794		
Clamp Open Velocity	in/sec mm/sec	32.51 826			32.51 826		
Eject Force (forward)	tons kN	20.2 180			20.2 180		
Eject Velocity (forward)	in/sec mm/sec	7.66 194.68			7.66 194.68		
Eject Velocity (retract)	in/sec mm/sec	11.17 283.62			11.17 283.62		
Ejector Stroke	in mm	9.84 250			9.84 250		
Mold Protect Pressure	psi	1,500			1,500		
Maximum Daylight	in mm	82.7 2,100			82.7 2,100		
Extended Daylight (Option)	in mm	90.6 2,300			90.6 2,300		
Minimum Mold Height	in mm	19.7 500			19.7 500		
Maximum Mold Height	in mm	43.3 1,100			43.3 1,100		
Maximum Mold Weight	lbs kg	24,191 / 24,191 / 32,290 10,973 / 10,973 / 16,460			24,191 / 24,191 / 32,290 10,973 / 10,973 / 16,460		
Platen Size (H x V)	in mm	72.8 x 61.4 1,850 x 1,560			72.8 x 61.4 1,850 x 1,560		
Distance Between Tie Rods	in mm	54.7 x 43.3 1,390 x 1,100			54.7 x 43.3 1,390 x 1,100		
Tie Rod Diameter	in mm	7.28 185			7.28 185		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.15			4.15		
Diagonal Tiebar Distance	in mm	73 1,848			73 1,848		
Rotary Turn Table Recommended		Varian 1600 mm			Varian 1600 mm		

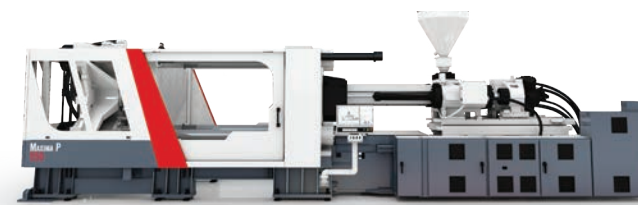
**Notes**

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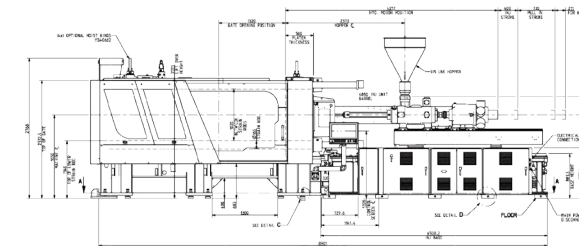
# THE MAXIMA P SERIES

**TONNAGE:**  
950 US/850 Metric

**Frame Sizes:**  
10100, 16000  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	10100 Frame			16000 Frame	
		A'	A	B	A	B
<b>General</b>						
Electrical Motor	hp kW	50 (58 HP) / 50 (58 HP) / 50 (58 HP) 50 (43 kW) / 50 (43 kW) / 50 (43 kW)			40 (54 HP) / 80 (107 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW) / 80 (43 kW)	
Total Oil Capacity	gal L	240 908.5			300 1,136	
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95	
Connected Load	FLI	333			289	
Overall Dimensions (L x W x H)	in mm	407.5 x 123.4 x 107.5 10,350 x 3,133 x 2,731.6			426.1 x 123.4 x 107.5 10,823 x 3,133 x 2,731.6	
Machine Weight (without oil)	lbs kg	98,617 44,732			108,328 49,137	
<b>Injection Unit Specifications</b>						
Injection Capacity, Maximum GPPS	oz gms	148 4,185	179 5,064	231 6,539	288 8,174	362 10,253
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	268.3 4,398	324.7 5,321	419.3 6,872	524.2 8,590	657.5 10,775
Maximum Injection Pressure	psi bar	31,937 2,202	27,400 1,890	21,200 1,462	27,400 1,890	21,900 1,510
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	37 622	45 753	59 972	60 989	75 1,241
Injection Velocity	in/sec mm/sec	3.11 79			3.17 80	
Screw Stroke	in mm	22.0 560			27.6 700	
Back Pressure Limits	psi bar	500			500	
Low Torque Screw Speed Maximum	rpm	167	167	162	103	103
Low Torque at Screw	in-lb Nm	74,018 8,363			158,543 17,913	
at bar	psi bar	2,450 169			2,450 169	
Plasticizing Rate (GPPS)	oz/sec gm/sec	5.47 155	5.51 156	7.62 216	4.84 137	6.5 184
High Torque Screw Speed Maximum	rpm	108	108	108	**	**
High Torque at Screw	in-lb Nm	113,962 12,876			**	
at bar	psi bar	2,450 169			**	
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.54 100	3.56 101	5.08 144	**	**
Screw Diameter	in mm	3.94 100	4.33 110	4.92 125	4.92 125	5.51 140
Screw L/D Ratio	L/D	23.9	21.7	19	21.3	19
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1	
Total Heat Capacity	kW	61.3			61.3	

	ENGLISH METRIC	10100 Frame			16000 Frame	
		A'	A	B	A	B
<b>Clamp</b>						
Clamping Force	ton kN	955 8,500			955 8,500	
Opening Force	ton kN	38 340			38 340	
Clamp Stroke	in mm	63 1,600			63 1,600	
Clamp Close Velocity	in/sec mm/sec	31.25 794			31.25 794	
Clamp Open Velocity	in/sec mm/sec	32.51 826			32.51 826	
Eject Force (forward)	tons kN	20.2 180			20.2 180	
Eject Velocity (forward)	in/sec mm/sec	7.66 194.68			7.66 194.68	
Eject Velocity (retract)	in/sec mm/sec	11.17 283.62			11.17 283.62	
Ejector Stroke	in mm	9.84 250			9.84 250	
Mold Protect Pressure	psi	1,500			1,500	
Maximum Daylight	in mm	82.7 2,100			82.7 2,100	
Extended Daylight (Option)	in mm	90.6 2,300			90.6 2,300	
Minimum Mold Height	in mm	19.7 500			19.7 500	
Maximum Mold Height	in mm	43.3 1,100			43.3 1,100	
Maximum Mold Weight	lbs kg	24191 / 24191 / 32,290 10,973 / 10,973 / 16,460			24191 / 24191 / 32,290 10,973 / 10,973 / 16,460	
Platen Size (H x V)	in mm	72.8 x 61.4 1,850 x 1,560			72.8 x 61.4 1,850 x 1,560	
Distance Between Tie Rods	in mm	54.7 x 43.3 1,390 x 1,100			54.7 x 43.3 1,390 x 1,100	
Tie Rod Diameter	in mm	7.28 185			7.28 185	
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79	
Dry Cycle Time (Euromap 6)	sec	4.15			4.15	
Diagonal Tiebar Distance	in mm	73 1,848			73 1,848	
Rotary Turn Table Recommended		Varian 1600 mm			Varian 1600 mm	

**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.



# THE MAXIMA P SERIES

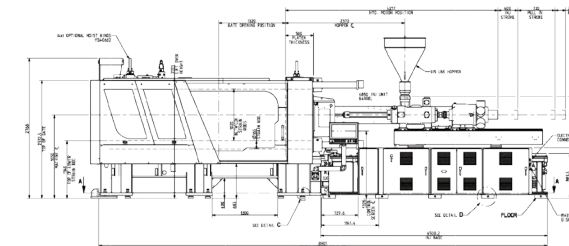
**TONNAGE:**  
1100 US/  
1000 Metric

**Frame Sizes:**  
4880, 6610

**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



250	ENGLISH METRIC	4880 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>General</b>							
Electrical Motor	hp kW	40 (54 HP) / 80 (107 HP) / 40 (54 HP) 40 (19 kW) / 80 (43 kW) / 40 (19 kW)			40 (54 HP) / 80 (107 HP) / 40 (54 HP) 40 (19 kW) / 80 (43 kW) / 40 (19 kW)		
Total Oil Capacity	gal L	240 908.5			240 908.5		
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95		
Connected Load	FLI	238			247		
Overall Dimensions (L x W x H)	in mm	396.2 x 129.7 x 105.1 10,063.4 x 3,295 x 2,668.6			397.1 x 129.7 x 105.1 10,085.4 x 3,295 x 2,668.6		
Machine Weight (without oil)	lbs kg	110,571 50,154			112,495 51,027		
<b>Injection Unit Specifications</b>							
Injection Capacity, Maximum GPPS	oz gms	67 1,899	85 2,410	105 2,977	93 2,637	116 3,288	140 3,969
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	122.6 2,010	155.2 2,544	191.7 3,141	170.8 2,799	210.8 3,455	255.1 4,181
Maximum Injection Pressure	psi bar	35,100 2,421	27,800 1,917	22,500 1,552	34,200 2,359	27,700 1,910	22,900 1,579
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	42 691	53 875	65 1,080	42 710	53 875	65 1,061
Injection Velocity	in/sec mm/sec	5.42 137.60			4.39 111.60		
Screw Stroke	in mm	15.7 400			17.3 440		
Back Pressure Limits	psi bar	500			500		
Low Torque Screw Speed Maximum	rpm	253	225	202	215	202	184
Low Torque at Screw	in-lb Nm	31,544 3,564			48,316 5,459		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	4.84 137	4.55 129	5.29 150	5.44 154	5.29 150	6.07 172
High Torque Screw Speed Maximum	rpm	250	225	202	185	185	184
High Torque at Screw	in-lb Nm	47,324 5,347			70,204 7,932		
at bar	psi bar	2,450 169			2,450 169		
Plasticizing Rate (GPPS)	oz/sec gm/sec	4.78 136	4.55 129	5.29 150	4.68 133	4.84 137	6.07 172
Screw Diameter	in mm	3.15 80	3.54 90	3.94 100	3.54 90	3.94 100	4.33 110
Screw L/D Ratio	L/D	25	22.2	20	24.4	22	20
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1		
Total Heat Capacity	kW	53.0			60.3		

	ENGLISH METRIC	4880 Frame			6610 Frame		
		A'	A	B	A'	A	B
<b>Clamp</b>							
Clamping Force	ton kN	1,124 10,000			1,124 10,000		
Opening Force	ton kN	45 400			45 400		
Clamp Stroke	in mm	74.8 1,900			74.8 1,900		
Clamp Close Velocity	in/sec mm/sec	35.43 900			35.43 900		
Clamp Open Velocity	in/sec mm/sec	36.81 935			36.81 935		
Eject Force (forward)	tons kN	21.4 190			21.4 190		
Eject Velocity (forward)	in/sec mm/sec	7.66 194.68			7.66 194.68		
Eject Velocity (retract)	in/sec mm/sec	11.17 283.62			11.17 283.62		
Ejector Stroke	in mm	11.81 300			11.81 300		
Mold Protect Pressure	psi bar	1,500			1,500		
Maximum Daylight	in mm	94.49 2,400			94.49 2,400		
Extended Daylight (Option)	in mm	106.3 2,700			106.3 2,700		
Minimum Mold Height	in mm	19.7 500			19.7 500		
Maximum Mold Height	in mm	47.2 1,200			47.2 1,200		
Maximum Mold Weight	lbs kg	26,378 / 26,378 / 43,971 11,965 / 11,965 / 19,945			26,378 / 26,378 / 43,971 11,965 / 11,965 / 19,945		
Platen Size (H x V)	in mm	79.1 x 65.4 2,010 x 1,660			79.1 x 65.4 2,010 x 1,660		
Distance Between Tie Rods	in mm	61.0 x 47.2 1,550 x 1,200			61.0 x 47.2 1,550 x 1,200		
Tie Rod Diameter	in mm	7.87 200			7.87 200		
Eject and CP	g/min l/min	40 / 21 151 / 79			40 / 21 151 / 79		
Dry Cycle Time (Euromap 6)	sec	4.52			4.52		
Diagonal Tiebar Distance	in mm	80 2,041			80 2,041		
Rotary Turn Table Recommended		Varian 1800 mm			Varian 1800 mm		

**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.
- 2) \*\* 16000 injection unit - standard single displacement extruder motor.

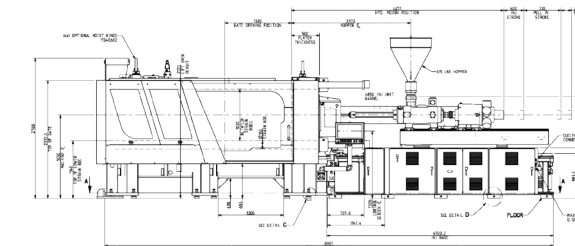
# THE MAXIMA P SERIES

**TONNAGE:**  
1100 US/  
1000 Metric

**Frame Sizes:**  
10100, 16000  
**TECHNICAL SPECIFICATIONS**



Not actual model, for visual reference only.



	ENGLISH METRIC	10100 Frame			16000 Frame	
		A'	A	B	A	B
<b>General</b>						
Electrical Motor	hp kW	50 (58 HP) / 50 (58 HP) / 50 (58 HP) 50 (43 kW) / 50 (43 kW) / 50 (43 kW)			40 (54 HP) / 80 (107 HP) / 80 (107 HP) 40 (19 kW) / 80 (43 kW) / 80 (43 kW)	
Total Oil Capacity	gal L	240 908.5			300 1,136	
Water Supply (29°C Inlet Temp)	gal/min L/min	25 95			25 95	
Connected Load	FLI	333			289	
Overall Dimensions (L x W x H)	in mm	427.1 x 129.7 x 105 10,848.2 x 3,295 x 2,668.6			444.8 x 129.7 x 105 11,298.2 x 3,295 x 2,668.6	
Machine Weight (without oil)	lbs kg	121,841 55,266			129,403 58,695	
<b>Injection Unit Specifications</b>						
Injection Capacity, Maximum GPPS	oz gms	148 4,185	179 5,064	231 6,539	288 8,174	362 10,253
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	268.3 4,398	324.7 5,321	419.3 6,872	524.2 8,590	657.5 10,775
Maximum Injection Pressure	psi bar	31,937 2,202	27,400 1,890	21,200 1,462	27,400 1,890	21,900 1,510
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	39 653	48 790	62 1,020	60 989	75 1,241
Injection Velocity	in/sec mm/sec	3.28 83.19			3.17 80.60	
Screw Stroke	in mm	22.0 560			27.6 700	
Back Pressure Limits	psi bar	500			500	
Low Torque Screw Speed Maximum	rpm	167	167	162	103	103
Low Torque at Screw	in-lb Nm	74,018 8,363			158,543 17,913	
at bar	psi bar	2,450 169			2,450 169	
Plasticizing Rate (GPPS)	oz/sec gm/sec	5.47 155	5.51 156	7.62 216	4.84 137	6.5 184
High Torque Screw Speed Maximum	rpm	108	108	108	*	*
High Torque at Screw	in-lb Nm	113,962 12,876			*	
at bar	psi bar	2,450 169			*	
Plasticizing Rate (GPPS)	oz/sec gm/sec	3.54 100	3.56 101	5.08 144	*	*
Screw Diameter	in mm	3.94 100	4.33 110	4.92 125	4.92 125	5.51 140
Screw L/D Ratio	L/D	23.9	21.7	19	21.3	19
Number of Pyrometers (Barrel/Nozzle)	qty	4/1			4/1	
Total Heat Capacity	kW	53.0			60.3	

	ENGLISH METRIC	10100 Frame			16000 Frame	
		A'	A	B	A	B
<b>Clamp</b>						
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