

THE LPIM

(LOW PRESSURE INJECTION MOLDING)

Milacron has set the standards, driven innovation and led the industry in Multi-Nozzle Low Pressure Injection Molding Technologies for more than four decades. These machines can be used for structural foam, structural web, gas assist, solid molding or combinations of these technologies depending on the application.



MILACRON OFFERS ADVANCED TECHNOLOGIES FOR STRUCTURAL FOAM AND STRUCTURAL WEB GAS ASSIST, ENABLING CUSTOMERS TO MOLD ULTRA-LARGE PLASTIC PARTS NOT POSSIBLE WITH OTHER MOLDING TECHNOLOGIES.

- Built with Milacron proven technologies used on our standard injection molding machines.
- Multi-Nozzle machine with Modular Hot Runner system (no in-mold hot runner necessary) lowers tooling investment on a project by project basis.
- Rugged Clamp Design with large platen sizes allow for multiple molds to be run simultaneously for higher productivity.
- Large Selection Injection/Melt Units for wide variety of applications and output capabilities.



CLAMP FEATURES

- Way support system for increased mold weights (standard)
- Extended daylight and stroke (optional)
- Semi-automatic tie bar puller (optional)

LARGE RIGID 3-PLATEN DESIGN

- Distributed tonnage cylinders for even clamp pressure across wide platens
- Stationary platen with modular hot runner for
- Clamp speed performance and improved clamp dry cycle times

INTEGRATED HOT RUNNER CONTROLLER (OPTIONAL)

- Mold-Masters TempMaster iM2 Controller
- Seamless integration
- Reduced mold interface complexity
- Virtual Network Control (VNC) controlled via the Mosaic Plus control screen
- Widest selection of interchangeable
- Superior control of external melt delivery
- Ability to run molds with in-mold hot runners (optional)

INTEGRATED ROBOTS (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
- Reduces failures, improves uptime and OEE



CLAMP FEATURES

- Enhanced hydraulic core/ejector valve package standard
- Hydraulic Ejector Plate (optional)

MOSAIC + CONTROL

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

PROVIDING THE HIGHEST PERFORMANCE, PRECISION AND FLEXIBILITY.

FANUC MOTOR AND DRIVE PACKAGE

- Servo driven machine performance and superior reliability
- Up to 25% energy savings
- Digital control of pressure and flow via
- Closed loop clamp and injection control
- Fixed gear pumps for improved reliability
- Quiet machine operation
- Offers fast acceleration rate and utilizes highly efficient and powerful permanent neodymium magnets

LARGE SELECTION OF MELT UNITS

- Single or dual extruder machines
- Extruder sizes from 3" to 7"
- Shot sizes from 75lbs to 400lbs
- Configurable to application



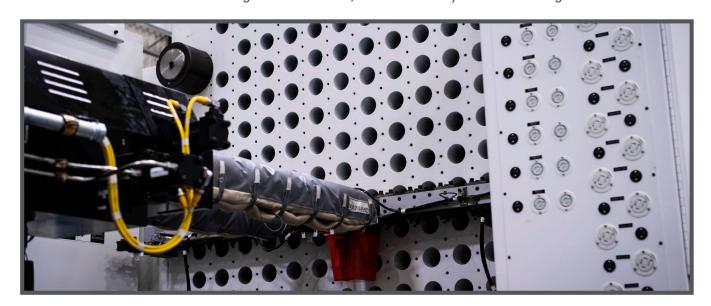
LPIM SERIES

Milacron's LPIM machines are designed for tremendous shot size capacity of either single or multiple cavities of large projected area parts, or families of smaller parts. Shot sizes are available up to 400 lbs. (180 kg) and extruder throughputs of up to 6400 lbs per hour (2902 kg/hr). Clamp sizes are available from 500 US tons to 2500 US tons with platen sizes up to 110" x 200" (2800 x 5080mm)

MACHINE CONFIGURATIONS

MODEL	500M	750MWP	1000MWP	1000MSWP	1500MHP	2500HMWP
PLATEN SIZE (H X V)	89 x 98	167 x 86	167 x 103	186 x 103	161 x 107	200 x 110
(IN AND MM)	2489 x 2261	2184 x 4241	2616 x 4241	2616 x 4724	2712 x 4089	2794 x 5080
MAXIMUM SHOT SIZE	150/120 lbs	200/160 lbs	200/160 lbs	200/160 lbs	200/160 lbs	300/240 lbs
PS/HDPE LBS/KG	68/54 kg	91/73 kg	91/73 kg	91/73 kg	91/73 kg	136/108 kg
MAXIMUM THROUGHPUT LBS/HR KG/HR	2400 lbs/hr 1088 kg/hr	4800 lbs/hr 2176 kg/hr	4800 lbs/hr 2176 kg/hr	6400 lbs/hr 2902 kg/hr	6400 lbs/hr 2902 kg/hr	6400 lbs/hr 2902 kg/hr

^{**}Maximum Platen Configurations Shown, Consult Factory for Other Configurations**



APPLICATIONS

Milacron LPIM machinery is recommended for injection molding large structural plastic products.

- ATV/WATERCRAFT
- ELECTRICAL & TELECOMMUNICATIONS
- RECREATION
- BUILDING & CONSTRUCTION
- INDUSTRIAL STORAGE
- AGRICULTURAL & CONSTRUCTION
- RETURNABLE PACKAGING
- INSTITUTIONAL/COMMERCIAL







STRUCTURAL FOAM PROCESS

A foaming agent (N_2 gas) is mixed with the melt and short-shot through a modular multiple nozzle system into a single or multiple mold(s). The injection pressure and expanding gas/polymer cellular mixture act to fill the mold cavity with no pack or hold pressure.

BENEFITS:

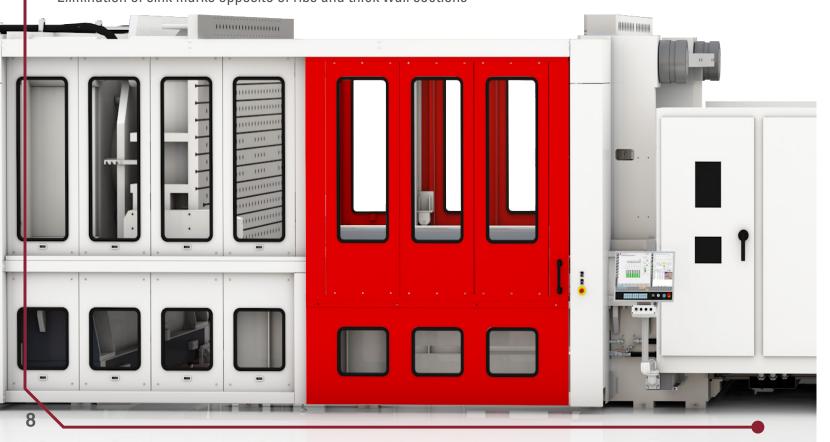
- Mold cavity pressures are 10-20x less than conventional injection molding
- 15-30% reduction in part weight
- Ability to mold large parts with a high rigidity
- Reduced part stress, warpage, and elimination of sink marks
- Multiple parts can be molded in a single cycle
- Low cavity pressure permits use of lower cost aluminum molds

STRUCTURAL WEB PROCESS

Structural web (SW) parts are solid with hollow channels and hollow thick sections packed out by internal injection of low pressure N₂ gas through the multiple nozzles. The SW process produces a smooth, sink-free finish with good color, uniformity and cosmetics.

BENEFITS:

- Smooth, uniform surface finish (no swirl marks)
- Reduced cycle times for very large parts
- 15-30% part weight reduction over solid parts
- Dual wall thickness with high stiffness-to-weight ratio
- Elimination of sink marks opposite of ribs and thick wall sections



CLAMPING UNIT

- Heavy duty fully hydraulic clamp infinitely adjustable tonnage
- Three clamping cylinders for balanced force distribution. Center clamping cylinder has jack ram construction for fast energy efficient traverse
- Linear transducer for clamp positioning
- Proportional valve controls for clamp open/close speed, low pressure close, clamp tonnage and decompression
- Position based braking closed loop clamp control
- Recirculation filter (5-micron) and auto cooling system with independent pump and heat exchanger
- Overhead hydraulic reservoir with prefill valves for each cylinder
- Manually operated front and powered gates (optional)
- Mechanical knock-out plate with position adjustment
- Automatic central lubrication system



Way Support System & Large Moving Platen Support

INJECTION UNIT

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

- Closed loop injection control
- Independent five-stage injection speed and pressure control
- 6000 PSI injection pressure per accumulator (10,000 PSI available as an option)
- Injection speeds infinitely adjustable
- Linear transducers built into injection cylinders for shot accuracy and protection from heat and mechanical damage
- Melt shut-off valve between accumulator and extruder for accurate shot-to-shot repeatability

- Nozzle hydraulic manifold with ball valves for positive, leak free operation
- Horizontal melt manifolds (supplied as part of machine)
- Light weight tubular modular melt manifold extension blocks for ease of installation (supplied as standard machine equipment)
- Conger inlet tubes for improved work area access during nozzle set up
- Capability for eight discrete shot sizes per melt accumulator
- Controls & hardware for thirty-two independent nozzle sequences standard



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
- ② 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 events 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



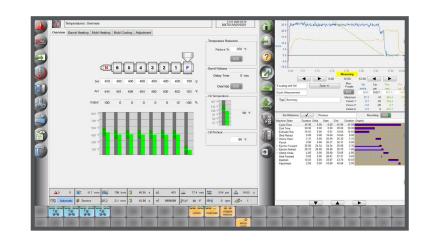
Soft Buttons



Content choices for the four windows include:

- Alarms log
- Energy overview
- Production run
- Injection graphics
- Trend data analysis
- Trend graphics
- Cycle analysis
- SPC charts
- Integrated robot, dryer and hot runner (optional)
- Status page
- Integrated camera with zoom capability (optional)







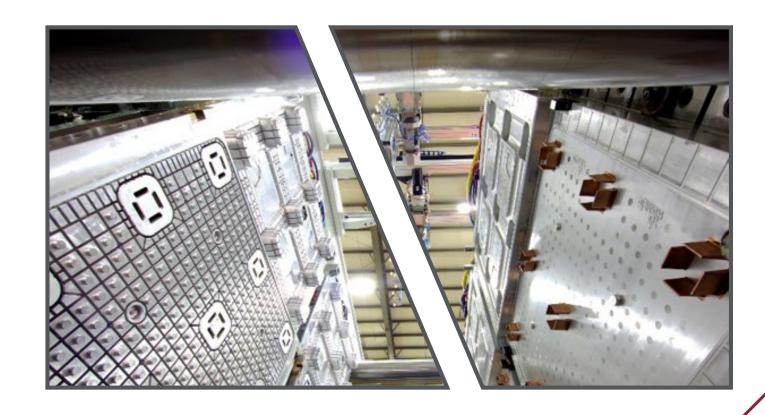
ULTIMATE LARGE PART MANUFACTURING FLEXIBILITY

Today's LP systems are capable of easily molding multi-part assemblies in a single cycle, or you can mold several of the same large part simultaneously. Either way, a Milacron LPIM Machine can streamline your production operation.

The LP is available with either single or twin extruders to meet your processing needs. Shot sizes up to 400 lbs. (180 kg) enable high production throughput of up to 6400 lbs/hr (2902 kg/hr). Accumulators enable efficient energy use and materials availability when needed. Variable speed AC Vector drives with heavy-duty gear reducer ensure energy-efficient operation.

LP systems feature a heavy-duty modular design and a very large platen to accommodate large parts, family molds and multi-part production. Platens up to 110"x200" (2,800 x 5,080mm) are available with up to 280 injection nozzle locations. Clamping forces to 2,500 tons are available to meet the most rigorous demands.

- Machine Range from 500 to 2500 US Tons
- Shot sizes up to 400 lbs.
- Extruder outputs up to 6400 lbs./hr.
- Platen sizes up to 110" x 200"





The LPIM's enhanced machine specifications and performance are powered by proven FANUC servo-motor power packs for improved reliability, higher max mold weights, faster clamp speeds and added tonnage sizes. Utilizing a FANUC 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.

BENEFITS INCLUDE

- Ability to remotely monitor for troubleshooting and analysis
- Reduced energy consumption
- Increased accuracy and precision rotational control to a fraction of a degree
- High response low inertia
- Noise reduction up to 80% guieter than conventional hydraulic machines
- 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
- Servo-system designed for demanding and diverse applications

FANUC HIGH-PERFORMANCE, HIGH-EFFICIENCY SERVO-MOTORS

- 50 years mean time between failures (MTBF)
- High-efficiency servo-system uses power generated during deceleration of motors, excellent energy-saving performance
- Designed to meet global safety standards (ANSI and CE)
- FANUC motors use high-energy neodynium magnets, for superior cost and performance ratios

LPIM BREAKTHROUGHS FOR HIGHLY RECYCLED CONTENT

- Melt Unit with a fixed Single Screw Extruder and proprietary Milacron LPIM screw design allows for homogeneous melt with up to 100% regrind
- Melt Delivery System designed with large melt channels to accommodate contaminants without clogging nozzles/gates
- Melt Filtration options available
- iMFLUX Technology available to adjust to viscosity changes common in high regrind content





STANDARD FEATURES

	Standard	Optional
GENERAL		
3-Platen clamp system with dual outboard clamping cylinders and central traversing cylinder for fast clamp speeds and balanced clamping force	•	
Power Pack driven by Fanuc AC servo motor and drive package	•	
Direct control of pressure and flow via internal gear pumps	•	
Improved Melt Base extruder/gearbox layout for better maintenance accessibility	•	
Independent full-time kidney loop filtration and cooling (optional external filtration system)	•	
Filtration to 5-micron with clog detection and alarm	•	
High clamp base design for part removal and easy access to clamp area	•	
SPI-AN146/Euromap 67 robot interface	•	
Robot mounting holes on stationary platen		0
Powered operator's or non-operator's gates		0
Leveling Pads	•	
Integrated gas assist controller		0
Stationary platen nozzle access platforms		0
Structural web interface (for external controller)	•	
Structural web controls and nitrogen gas unit		0
Mold water manifold package – stainless steel		0

	Standard	Optional
CLAMP		
Way Support System — Parallel to lower tie bars with precision hardened way rails, adjustable bronze shoes and intermediate support for increased mold carrying capacity and reduced tie bar wear	•	
120" Max Daylight, 12" min daylight on all models (extended daylight/stroke optional)	•	0
Improved clamp speed (20"/sec) from prior models	•	
Mechanical knock-out plate with position adjustment (Hydraulic ejector plate optional) with reduced daylight	•	0
Services Cable Track moved to non-operator's side from under clamp for easier access	•	
Automatic central lubrication system	•	
Proportional hydraulic core & ejector package (2 cores, 2 ejectors 500 ton)	•	
(4 cores, 2 ejectors >750 ton)	•	
Semi-automatic tie bar puller (operator side)		0
Mold air system and pneumatic core package		0

	Standard	Optional
INJECTION		
Closed loop injection control	•	
Independent five-stage injection speed and pressure control	•	
Eight (8) shot sizes per accumulator	•	
6000 PSI melt pressure per accumulator (10,000 psi optional)	•	0
Linear transducers built into shot cylinders for shot accuracy and protection from heat and mechanical damage	•	
Xaloy 800 or equivalent accumulator and plunger for abrasion resistance and long life with recycled materials	•	
20 manifold extension temperature control zones (30 or 40 optional)	•	0
32 nozzle temperature control zones (up to 96 optional)	•	0
32 Independent sequential nozzle hydraulic controls (up to 96 optional)	•	0
Plunger pullback color change system		0
Dual Melt Manifolds (for applications with many nozzles)		0
Structural foam & structural web nozzles		0
Manifold extension blocks		0
Semi-Automatic melt manifold purge system for faster color change		0

EXTRUDER Electromechanical extruder variable speed drive with AC motor and heavy-duty gear reducer for high efficiency, long life and minimum maintenance Xaloy 101 or equivalent extruder barrel for corrosion and abrasion resistance (X800 or equivalent available for abrasive materials) Special SF screw design with colmonoy 56 flights; two-stage; 32:1 L/D ratio for high output of HDPE. (Colmonoy 83 flights flights optional)	
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and low maintenance Water cooled feed throat	
Relief valve for purging during shutdown or color change	
Large capacity relief valve purge pan with PFZ teflon non-stick coating	
Para-flex flexible coupling between AC drive motor and gear box	
Dynisco pressure transducers for head and gas port pressure measurements and alarms	
Material hopper and feed throat magnet with clean out is supplied with each extruder (Dual drawer magnet optional)	0

OPTIONAL CONFIGURATIONS

The Milacron team knows the big picture of processing. That's why we deliver with cutting edge machine systems with auxiliary equipment & robots, exceptional aftermarket support and the know-how to bring your ideas to life – quickly, profitably and with a global perspective.

- Gas Assist Controllers
- Cavity Pressure Controls Systems
- Hot Runner Controls Systems
- **Quick Mold Change Systems**





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. Alternative connection choices are possible in the event of a more complex IT setup.

M·POWERED

M-Powered Applications	ADVANTAGE	ESSENTIAL	PREMIER	
Connect Portal	✓	✓	✓	
Technical Support	On Demand (payable per hour)	√	(24/7)	
Production Monitoring	\checkmark	\checkmark	√	
Downtime Tracking		\checkmark	√	
Preventative Maintenance			✓	
Predictive Analytics			✓	

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THE LP500M SERIES

LOW PRESSURE MULTI NOZZLE SERIES

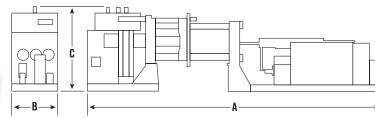
TONNAGE: 500

TECHNICAL SPECIFICATIONS

Melt Unit: 423

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





LP500M-423		
	ENGLISH METRIC	
Injection		
Number of Accumlators		1
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	75/60 34/27
Accumulators Volume (Each)	in³ cm³	2,300 37,690
Total Shot Volume	in³ cm³	2,300 37,690
Pressure Maximum (Per Accum.)	psi bar	6,000 414
Total Number of Shot Sizes		16
Independent Nozzle Sequence		32
Nozzle		
Multiple Nozzles		As Required
Nozzle Spacing	in mm	6 x 6 152 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		
А	Est. Configuration Length	ft m	60 18.3	
В	Est. Configuration Width	ft m	12 3.7	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	113 103	
	Est. Power Consumption @ 85% Output	kW/hr	360	

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 LP500M SERIES

LOW PRESSURE MULTI NOZZLE SERIES

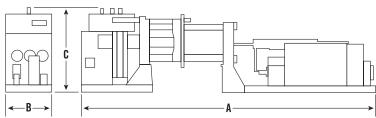
TONNAGE: 500

TECHNICAL SPECIFICATIONS

Melt Unit: 2 x 423

LP500M-2 x 423		
	ENGLISH METRIC	
Clamp	<u> </u>	
Clamp Tonnage	tons tonnes	500 454
Platen Size (H x V)	in mm	89 x 98 2,261 x 2,489
Distance Between Tie Bars	in mm	67.5 x 58.5 1,715 x 1,486
Tie Bar Diameter	in mm	7.5 191
Max. Clamp Opening (Daylight)	in mm	120 3,048
Clamp Stroke	in mm	108 2,743
Min. Mold Shut Height	in mm	12 305
Clamp Speed Max	in/sec mm/sec	14 356
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876
Way Support System		Standard
Extruder		
Number of Extruders		2
Screw Diamter	in mm	4.5 114
L/D Ratio		30:1
Output HDPE or P.S. (total)	lbs/hr kg/hr	1,800 817
Drive Size	Hp kW	250 x 2 186.4 x 2
Barrel Heating\Cooling Zones		5 x 2
Barrel Cooling Type		Air Barrel Cooling





	LP500M-2 x 423		
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	150/120 68/54	
Accumulators Volume (Each)	in³ cm³	2,300 37,690	
Total Shot Volume	in³ cm³	4,600 75,380	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzle			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		180	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP500M-2 x 423			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	60 18.3	
В	Est. Configuration Width	ft m	12 3.7	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	113 103	
	Est. Power Consumption @ 85% Output	kW/hr	490	

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THE LP500M SERIES

LOW PRESSURE MULTI NOZZLE SERIES

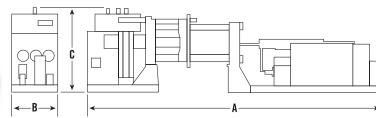
TONNAGE: 500

TECHNICAL SPECIFICATIONS

Melt Unit: 646

	LP500M-646			
	ENGLISH METRIC			
Clamp				
Clamp Tonnage	tons tonnes	500 454		
Platen Size (H x V)	in mm	89 x 98 2,261 x 2,489		
Distance Between Tie Bars	in mm	67.5 x 58.5 1,715 x 1,486		
Tie Bar Diameter	in mm	7.5 191		
Max. Clamp Opening (Daylight)	in mm	120 3,048		
Clamp Stroke	in mm	108 2,743		
Min. Mold Shut Height	in mm	12 305		
Clamp Speed Max	in/sec mm/sec	14 356		
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876		
Way Support System		Standard		
Extruder				
Number of Extruders		1		
Screw Diamter	in mm	6 152		
L/D Ratio		30:1		
Output HDPE or P.S. (total)	lbs/hr kg/hr	2,400 1,090		
Drive Size	Hp kW	500 372.8		
Barrel Heating\Cooling Zones		5		
Barrel Cooling Type		Air Barrel Cooling		





LP500M-646			
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	150/120 68/54	
Accumulators Volume (Each)	in³ cm³	2,300 37,690	
Total Shot Volume	in³ cm³	4,600 75,380	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzie			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		180	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP500M-646			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	60 18.3	
В	Est. Configuration Width	ft m	12 3.7	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	113 103	
	Est. Power Consumption @ 85% Output	kW/hr	490	

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 LP750MWP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

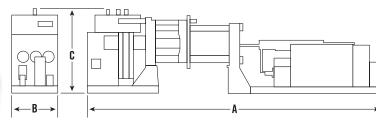
TONNAGE: 750

TECHNICAL SPECIFICATIONS

Melt Unit:2 x 423

	LP750MWP-2 x 423		
	ENGLISH METRIC		
Clamp			
Clamp Tonnage	tons tonnes	750 680	
Platen Size (H x V)	in mm	167 x 86 4,241 x 2,184	
Distance Between Tie Bars	in mm	137 x 44 3,480 x 1,117	
Tie Bar Diameter	in mm	11 279	
Max. Clamp Opening (Daylight)	in mm	120 3,048	
Clamp Stroke	in mm	108 2,743	
Min. Mold Shut Height	in mm	12 305	
Clamp Speed Max	in/sec mm/sec	14 356	
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876	
Way Support System		Standard	
Extruder			
Number of Extruders		2	
Screw Diamter	in mm	4.5 114	
L/D Ratio		30:1	
Output HDPE or P.S. (total)	lbs/hr kg/hr	1,800 817	
Drive Size	Hp kW	250 x 2 186.4 x 2	
Barrel Heating\Cooling Zones		5 x 2	
Barrel Cooling Type		Air Barrel Cooling	





LP750MWP-2 x 423			
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	150/120 68/54	
Accumulators Volume (Each)	in³ cm³	2,300 37,690	
Total Shot Volume	in³ cm³	4,600 75,380	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzie			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		218	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP750MWP-2 x 423			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	60 18.3	
В	Est. Configuration Width	ft m	17 5.1	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	155 141	
	Est. Power Consumption @ 85% Output	kW/hr	490	

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 LP750MWP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

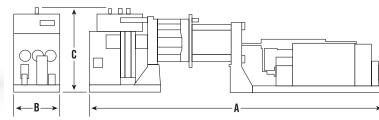
TONNAGE: 750

TECHNICAL SPECIFICATIONS

Melt Unit:2 x 630

LP750MWP-2 x 630		
	ENGLISH METRIC	
Clamp		
Clamp Tonnage	tons tonnes	750 680
Platen Size (H x V)	in mm	167 x 86 4,241 x 2,184
Distance Between Tie Bars	in mm	137 x 44 3,480 x 1,117
Tie Bar Diameter	in mm	11 279
Max. Clamp Opening (Daylight)	in mm	120 3,048
Clamp Stroke	in mm	108 2,743
Min. Mold Shut Height	in mm	12 305
Clamp Speed Max	in/sec mm/sec	14 356
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876
Way Support System		Standard
Extruder		
Number of Extruders		2
Screw Diamter	in mm	6 152
L/D Ratio		30:1
Output HDPE or P.S. (total)	lbs/hr kg/hr	4,800 2,180
Drive Size	Hp kW	500 x 2 372.8 x 2
Barrel Heating\Cooling Zones		6 x 2
Barrel Cooling Type		Air Barrel Cooling





	LP750MWP-2 x 630		
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	200160 91/73	
Accumulators Volume (Each)	in³ cm³	3,000 49,161	
Total Shot Volume	in³ cm³	6,000 98,322	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzie			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		218	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP750MWP-2 x 630		
		ENGLISH METRIC	
А	Est. Configuration Length	ft m	62 18.9
В	Est. Configuration Width	ft m	22 6.7
С	Est. Configuration Height (without air bags)	ft m	13 3.9
	Est. Configuration Weight	tons tonnes	175 160
	Est. Power Consumption @ 85% Output	kW/hr	950

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 LP750MWP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

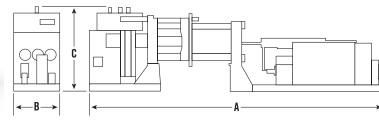
TONNAGE: 750

TECHNICAL SPECIFICATIONS

Melt Unit:646

	LP750MWP-646			
	ENGLISH METRIC			
Clamp				
Clamp Tonnage	tons tonnes	750 680		
Platen Size (H x V)	in mm	167 x 86 4,241 x 2,184		
Distance Between Tie Bars	in mm	137 x 44 3,480 x 1,117		
Tie Bar Diameter	in mm	11 279		
Max. Clamp Opening (Daylight)	in mm	120 3,048		
Clamp Stroke	in mm	108 2,743		
Min. Mold Shut Height	in mm	12 305		
Clamp Speed Max	in/sec mm/sec	14 356		
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876		
Way Support System		Standard		
Extruder				
Number of Extruders		1		
Screw Diamter	in mm	6 152		
L/D Ratio		30:1		
Output HDPE or P.S. (total)	lbs/hr kg/hr	2,400 1,090		
Drive Size	Hp kW	500 372.8		
Barrel Heating\Cooling Zones		6		
Barrel Cooling Type		Air Barrel Cooling		





LP750MWP-646			
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	150/120 68/54	
Accumulators Volume (Each)	in³ cm³	2,300 37,690	
Total Shot Volume	in³ cm³	4,600 75,380	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzle			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		218	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP750MWP-646		
		ENGLISH METRIC	
А	Est. Configuration Length	ft m	62 18.9
В	Est. Configuration Width	ft m	17 5.1
С	Est. Configuration Height (without air bags)	ft m	13 3.9
	Est. Configuration Weight	tons tonnes	155 141
	Est. Power Consumption @ 85% Output	kW/hr	490

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 LP1000MWP SERIES

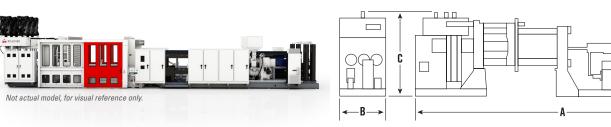
LOW PRESSURE MULTI NOZZLE SERIES

TONNAGE: 1000

TECHNICAL SPECIFICATIONS

Melt Unit:660

	LP1000MWP-660		
	ENGLISH METRIC		
Clamp			
Clamp Tonnage	tons tonnes	1,000 907	
Platen Size (H x V)	in mm	167 x 103 4,242 x 2,616	
Distance Between Tie Bars	in mm	137 x 44 3,480 x 1,118	
Tie Bar Diameter	in mm	11 279	
Max. Clamp Opening (Daylight)	in mm	120 3,048	
Clamp Stroke	in mm	108 2,743	
Min. Mold Shut Height	in mm	12 305	
Clamp Speed Max	in/sec mm/sec	14 356	
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876	
Way Support System		Standard	
Extruder			
Number of Extruders		1	
Screw Diamter	in mm	6 152	
L/D Ratio		30:1	
Output HDPE or P.S. (total)	lbs/hr kg/hr	2,400 1,090	
Drive Size	Hp kW	500 372.8	
Barrel Heating\Cooling Zones		6	
Barrel Cooling Type		Air Barrel Cooling	



	LP1000MWP-660		
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	200/160 91/73	
Accumulators Volume (Each)	in³ cm³	3,000 49,161	
Total Shot Volume	in³ cm³	6,000 98,322	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzle			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		256	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP1000MWP-660			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	62 18.9	
В	Est. Configuration Width	ft m	16 4.9	
С	Est. Configuration Height (without air bags)	ft m	14 4.26	
	Est. Configuration Weight	tons tonnes	160 145	
	Est. Power Consumption @ 85% Output	kW/hr	450	

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 LP1000MWP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

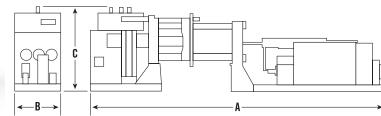
TONNAGE: 1000

TECHNICAL SPECIFICATIONS

Melt Unit:2 x 630

	LP1000MWP-630		
	ENGLISH METRIC		
Clamp			
Clamp Tonnage	tons tonnes	1,000 907	
Platen Size (H x V)	in mm	167 x 103 4,242 x 2,616	
Distance Between Tie Bars	in mm	137 x 44 3,480 x 1,118	
Tie Bar Diameter	in mm	11 279	
Max. Clamp Opening (Daylight)	in mm	120 3,048	
Clamp Stroke	in mm	108 2,743	
Min. Mold Shut Height	in mm	12 305	
Clamp Speed Max	in/sec mm/sec	14 356	
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876	
Way Support System		Standard	
Extruder			
Number of Extruders		2	
Screw Diamter	in mm	6 152	
L/D Ratio		30:1	
Output HDPE or P.S. (total)	lbs/hr kg/hr	4,800 2,180	
Drive Size	Hp kW	500 x 2 372.8 x 2	
Barrel Heating\Cooling Zones		6 x 2	
Barrel Cooling Type		Air Barrel Cooling	





LP1000MWP-630		
	ENGLISH METRIC	
Injection		
Number of Accumlators		2
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	200/160 91/73
Accumulators Volume (Each)	in³ cm³	3,000 49,161
Total Shot Volume	in³ cm³	6,000 98,322
Pressure Maximum (Per Accum.)	psi bar	6,000 414
Total Number of Shot Sizes		16
Independent Nozzle Sequence		32
Nozzle		
Multiple Nozzles		As Required
Nozzle Spacing	in mm	6 x 6 152 x 152
Number of Nozzle Locations		256
Nozzle Heat Control Zones		32
Manifold Extension Heat Control Zones		20
Nozzle Hydraulic Controls		32

	LP1000MSWP-2 x 630			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	62 18.9	
В	Est. Configuration Width	ft m	22 6.7	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	185 167	
	Est. Power Consumption @ 85% Output	kW/hr	950	

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 LP1000MSWP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

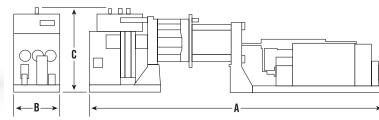
TONNAGE: 1000

TECHNICAL SPECIFICATIONS

Melt Unit:2 x 630

LP1000MSWP-2 x 630		
	ENGLISH METRIC	
Clamp		
Clamp Tonnage	tons tonnes	1,000 907
Platen Size (H x V)	in mm	186 x 103 4,724 x 2,616
Distance Between Tie Bars	in mm	144 x 60 3,658 x 1,524
Tie Bar Diameter	in mm	11 279
Max. Clamp Opening (Daylight)	in mm	120 3,048
Clamp Stroke	in mm	108 2,743
Min. Mold Shut Height	in mm	12 305
Clamp Speed Max	in/sec mm/sec	14 356
Mold Carrying Capacity (Moving Platen)	lbs kg	35,000 15,876
Way Support System		Standard
Extruder		
Number of Extruders		2
Screw Diamter	in mm	6 152
L/D Ratio		30:1
Output HDPE or P.S. (total)	lbs/hr kg/hr	4,800 2,180
Drive Size	Hp kW	500 x 2 372.8 x 2
Barrel Heating\Cooling Zones		6 x 2
Barrel Cooling Type		Air Barrel Cooling





	LP1000MSWP-2 x 630		
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	200/160 91/73	
Accumulators Volume (Each)	in³ cm³	3,000 49,161	
Total Shot Volume	in³ cm³	6,000 98,322	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		32	
Nozzle			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		218	
Nozzle Heat Control Zones		32	
Manifold Extension Heat Control Zones		20	
Nozzle Hydraulic Controls		32	

	LP1000MSWP-2 x 630			
		ENGLISH METRIC		
А	Est. Configuration Length	ft m	62 18.9	
В	Est. Configuration Width	ft m	22 6.7	
С	Est. Configuration Height (without air bags)	ft m	13 3.9	
	Est. Configuration Weight	tons tonnes	215 195	
	Est. Power Consumption @ 85% Output	kW/hr	760	

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 LP1500MHP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

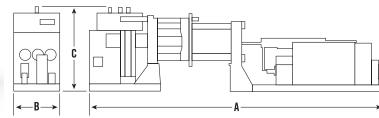
TONNAGE: 1500 Melt Unit:2 x 630

TECHNICAL SPECIFICATIONS

	LP1500MHP-2 x 630			
ENGLISH METRIC				
tons tonnes	1,500 1,361			
in mm	161 x 107 4,089 x 2,712			
in mm	125 x 69 3,175 x 1,752			
in mm	13 330			
	tons tonnes in mm in mm in			

Distance Between Tie Bars	in mm	125 x 69 3,175 x 1,752
Tie Bar Diameter (6 Tie Bar Machine)	in mm	13 330
Max. Clamp Opening (Daylight)	in mm	120 3,048
Clamp Stroke	in mm	108 2,743
Min. Mold Shut Height	in mm	12 305
Clamp Speed Max	in/sec mm/sec	14 356
Mold Carrying Capacity (Moving Platen w/ Way Supports)	lbs kg	50,000 22,688
Way Support System		Standard
Extruder		
Number of Extruders		2
Screw Diamter	in mm	6 152
L/D Ratio		30:1
Output HDPE or P.S. (total)	lbs/hr kg/hr	4,800 2,180
Drive Size	Hp kW	500 x 2 372.8 x 2
Barrel Heating\Cooling Zones		6 x 2
Barrel Cooling Type		Air Barrel Cooling





	LP1500MHP-2 x 630		
	ENGLISH METRIC		
Injection			
Number of Accumlators		2	
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	200/160 91/73	
Accumulators Volume (Each)	in³ cm³	3,000 49,161	
Total Shot Volume	in³ cm³	6,000 98,322	
Pressure Maximum (Per Accum.)	psi bar	6,000 414	
Total Number of Shot Sizes		16	
Independent Nozzle Sequence		48	
Nozzle			
Multiple Nozzles		As Required	
Nozzle Spacing	in mm	6 x 6 152 x 152	
Number of Nozzle Locations		266	
Nozzle Heat Control Zones		48	
Manifold Extension Heat Control Zones		30	
Nozzle Hydraulic Controls		48	

	LP1500MHP-2 x 630				
		ENGLISH METRIC			
А	Est. Configuration Length	ft m	65 19.8		
В	Est. Configuration Width	ft m	21 6.4		
С	Est. Configuration Height (without air bags)	ft m	16 4.9		
	Est. Configuration Weight	tons tonnes	250 227		
	Est. Power Consumption @ 85% Output	kW/hr	1000		

Votes

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THE LP2500MHP SERIES

LOW PRESSURE MULTI NOZZLE SERIES

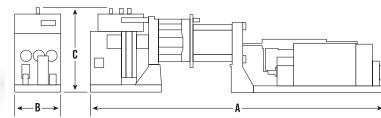
TONNAGE: 2500

TECHNICAL SPECIFICATIONS

Melt Unit:2 x 646

LP2500MHP-2 x 646				
	ENGLISH METRIC			
Clamp				
Clamp Tonnage	tons tonnes	2,500 2,268		
Platen Size (H x V)	in mm	200 x 110 5,080 x 2,794		
Distance Between Tie Bars	in mm	72 x 53 x 2 1,829 x 1,346 x 2		
Tie Bar Diameter (6 Tie Bar Machine)	in mm	4 x 13 & 2 x 15 4 x 330 & 2 x 381		
Max. Clamp Opening (Daylight)	in mm	130 3,302		
Clamp Stroke	in mm	120 3,048		
Min. Mold Shut Height	in mm	10 254		
Clamp Speed Max	in/sec mm/sec	14 356		
Mold Carrying Capacity (Moving Platen w/ Way Supports)	lbs kg	35,000 22,688		
Way Support System		Standard		
Extruder				
Number of Extruders		2		
Screw Diamter	in mm	6 152		
L/D Ratio		30:1		
Output HDPE or P.S. (total)	lbs/hr kg/hr	4,800 2,180		
Drive Size	Hp kW	500 x 2 372.8 x 2		
Barrel Heating\Cooling Zones		6 x 2		
Barrel Cooling Type		Air Barrel Cooling		

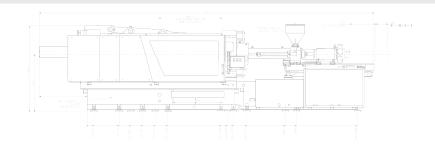


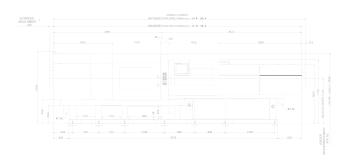


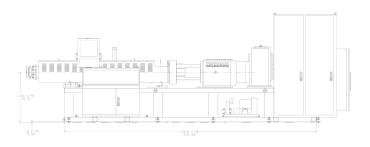
LP2500MHP-2 x 646				
	ENGLISH METRIC			
Injection				
Number of Accumlators		4		
Total Shot Weight (Shot Size) PS/HDPE	lbs kg	300/240 136/108		
Accumulators Volume (Each)	in³ cm³	2,300 37,690		
Total Shot Volume	in³ cm³	9,200 150,760		
Pressure Maximum (Per Accum.)	psi bar	6,000 414		
Total Number of Shot Sizes		16		
Independent Nozzle Sequence		48		
Nozzle				
Multiple Nozzles		As Required		
Nozzle Spacing	in mm	6 x 6 152 x 152		
Number of Nozzle Locations		328		
Nozzle Heat Control Zones		48		
Manifold Extension Heat Control Zones		30		
Nozzle Hydraulic Controls		48		

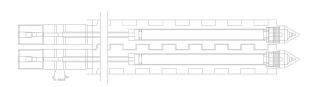
	LP2500MHP-2 x 646					
		ENGLISH METRIC				
А	Est. Configuration Length	ft m	72 21.9			
В	Est. Configuration Width	ft m	22 6.7			
С	Est. Configuration Height (without air bags)	ft m	13 3.9			
	Est. Configuration Weight	tons tonnes	335 303			
	Est. Power Consumption @ 85% Output	kW/hr	980			

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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