

## LOW PRESSURE INJECTION MOLDING





### **WHO WE ARE**

Wilmington Machinery was founded in 1972 to build low pressure structural foam injection molding machines. And that remains the cornerstone of our business. The machines have evolved to include gas assist and gas counterpressure molding techniques and many other innovations. Wilmington's extensive tenure and dedication to building machines to match each customers individual budget and needs assures the best ROI and lowest cost structural plastic moldings. Faster cycles, lighter parts, maximum uptime, reduced labor and low utility costs are Wilmington goals that have made the company an industry leader and trusted machinery supplier for nearly 50 years.

The diverse range of Wilmington Machinery's experience with industrial applications ensures success in any field of structural plastics manufacturing. Wilmington Machines have produced brush handles, battery boxes, enclosures of all types, equipment housings, automotive structural components, recreational equipment, drainage components, pallets, bins and much more. Product design assistance, prototyping, pilot run and laboratory trials for raw material or mold trials are all available services. in addition to low and medium pressure structural plastics molding Wilmington has expertise in many other plastics processes including blow molding, foam extrusion, sheet extrusion and thermoforming.

Wilmington Machinery is located in the Atlantic Port City of Wilmington, North Carolina. It occupies a modern 65,000 square foot facility with heavy lifting equipment fronting Interstate 40.

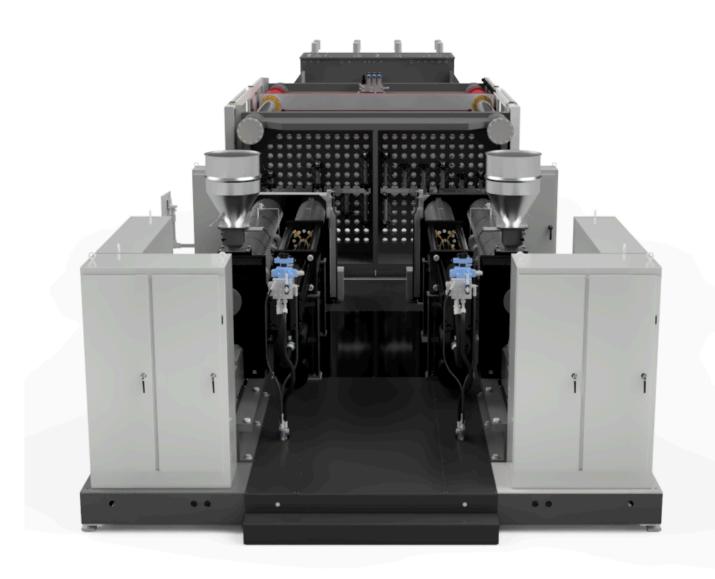
### SERVING THE PLASTICS INDUSTRY SINCE 1972.

# THE LUMINA: LOW PRESSURE INJECTION MOLDING

Wilmington Machinery is a recognized leader in producing large-part, low-pressure injection molding machines with shot capacities to 300 lb. (135 kg). The combination of two-stage (extruder/accumulator) and configurable multi-nozzle injection with Versafil control results in strong, lightweight and economical products. Long-life, low-cost molds, very long-life machinery, and the ability to mold 100% recycled plastics are hallmarks of our process!



MACHINERY THAT FITS YOUR NEEDS.



### **Features and Advantages**

- Robust construction optimized through comprehensive FEA analysis
- 5-cylinder clamp construction for superior force distribution
- Advanced accumulator / configurable nozzle injection
- Versa-Fill injection control of each nozzle independently
- Large platen area and more mold mounting space
- High torque extruders for fast recovery and faster cycles
- Open construction ease of access for setup and maintenance
- Gas assist, counterpressure molding capabilities

## WILMINGTON MACHINERY'S TWO-STAGE LARGE PART STRUCTURAL FOAM MOLDING MACHINES

#### **CLAMP FEATURES**

- (4) Press tonnage cylinders
- Extended daylight and stroke
- Closed loop press motion for precise position and speed control
- Hydraulic core/ejector valve package
- High speed traverse
- Excellent force distribution



#### **MOLD TYPES**

- Gas Assist
- Low cost aluminum
- Stack molds
- Hot runner
- Gas counter pressure
- Core back molding

#### **PLASTIC ACCUMULATORS**

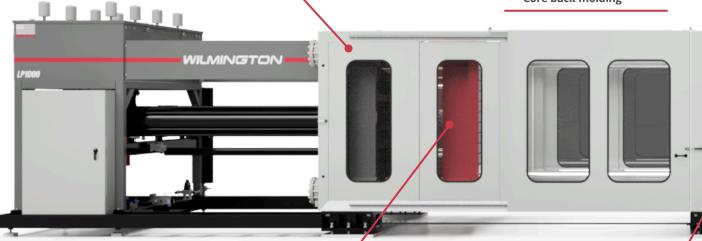
- Large capacity up to 300 lbs.
- 25 150 lbs.
- 10 lbs. per second injection speeds

#### **GAS PORT**

 Standard gas port for foaming plastic with on / off and regulating controls

#### **MATERIAL FEED**

- Large capacity hoppers with low level sensors
- Magnet drawers
- Crammer feeder available for low density recycled plastics



#### **3 PLATEN CLAMP**

- Classic 6" grid pattern for hundreds of nozzle locations
- Smooth platen acceleration/deceleration and mold protect
- Large platens for multiple mold installations
- Low profile or elevated press design
- Easy access for quick mold change

#### **CONTROLS**

- Easy to use Allen Bradley PLC/OIT
- Integrated auxiliary equipment screens
- Velocity and or pressure injection control
- SPI core pull sequence logic
- Remote support access

#### EASE OF ACCESS

• Extended melt pipe for easy access to nozzles / spacers / manifold

#### **MULTIPLE EXTRUDER FEATURES**

- 30:1 L/D extruders standard
- Dual mixing sections for material additives and virtual compound
- Feed screws designed for 100% recycled plastic materials
- Closed loop temperature controls
- Feedscrew w/ colmonoy flight tips



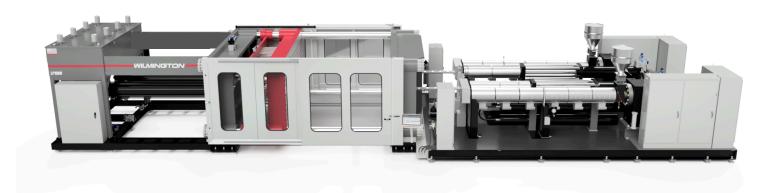
## LUMINA SPECIFICATIONS



MODEL	1600h	2400h	3200h	LP500	LP600 WP	LP750	LP1000 WP	LP1500 WP	LP2000 WP
CLAMP FORCE (US TONS)	300	400	500	500	600	750	1000	1500	1500
PLATEN SIZE V X H (in) OPTIONAL	54 x 70	70 x 80	56 x 126	<b>96 x 90</b> (108 x 90)	96 x 131 (108 x 131)	96 x 167 (108 x 167)	96 x 186 (108 x 186)	96 x 186 (108 x 186)	110 x 200
TIE BAR CLEARANCE V X H (in) OPTIONAL	38 x 54	52 x 62	38 x 108	<b>72 x 67</b> 84 x 67	<b>72 x 108</b> 85 x 108	<b>70 x 141</b> 82 x 141	68 x 159 80 x 159	<b>62 x 153</b> 74 x 153	69 x 160
SHOT SIZE (POUNDS PER CUBIC INCH) OPTIONAL	<b>25   800</b> Single 50	<b>50   1600</b> Single 75	Dual 25   1600 Dual 50	Single 100 3200	Dual 50   3200	Dual 75 4800	Dual 75   4800 Dual 100/150	Dual 75   4800 Dual 100/150	Dual 75   4800 Dual 100/150
STROKE (in) OPTIONAL	60	72	72	<b>72</b> 108	108	108	108	<b>108</b> 120	<b>108</b> <i>120</i>
PLASTICATING CAPACITY (POUNDS PER HOUR) OPTIONAL	800	<b>1200</b> 1500	1500	1800	<b>1800</b> 2200 - 2600+	1800	<b>1800</b> 2600 - 5000÷	<b>2600</b> 3600 - 5000÷	<b>2600</b> 3600 - 5000+

## **LUMINA FEATURES**

EXTRUDERS:	STD	ОРТ
Heavy duty gear reducers with cooling as needed		
Long life thrust bearings (100,000 hours at 150 RPM, 2000 psi)		
Xaloy or equivalent bimetallic barrel - 30:1 L/D		
Feed screws with Colmony flight tips, chrome plating and double mixing sections		
Cast aluminum heaters with heat/cool control, stainless steel shrouds		
Nitrogen gas port with on/off and regulating controls		
Melt pressure transducer at head		
Water cooled feed throat		
Large capacity material hopper and magnet drawer		
Mixing sections specific to your material needs		<b>©</b>
36:1 L/D barrel with static mixer		٥
Xaloy 800 grade bimetallic liner		



CLAMP:	STD	ОРТ
Heavy duty construction with oversize tie bars and classic 6" x 6" nozzle grid pattern, 3-platen type		
108" stroke, 12" minimum daylight (more or less as needed optional)		<b>©</b>
800 IPM open / close (more optional)	٥	
Flow / pressure modulated hydraulic power unit with Rexroth components		
Variable frequency servo hydraulics		<b>©</b>
Mechanical ejection	٥	
Hydraulic ejection		<b>(</b>
Core pull sequence logic	٥	
Core pull valving		
Closed loop clamp motion control	٥	
Easily serviceable linear transducer built into hydraulic cylinder	٥	
Manual lube	٥	
Auto lube		<b>©</b>
Linear rail mold support system		
Manual operator and non-operator gates	<b>©</b>	
Powered operator and non-operator gates		<b>(</b>
Semiautomatic tie bar removal		<b>©</b>
"T" slots in platens		<b>©</b>

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## LUMINA FEATURES (CONTINUED)

INJECTION:	STD	ОРТ
Closed loop speed or pressure control	٥	
Shot capacity of 25, 50, 75, 100, 125, 150 lb.		
Larger shot or custom shot sizes available		
Extruder bores 3.5", 4.5", 130 mm, 6" and 175mm	٥	
Larger extruder bore sizes available		٥
6000 psi injection pressure	<b>©</b>	
10,000 psi injection pressure		٥
Rexroth hydraulic valving and components		
Vickers, Parker, others optional		<b>©</b>
Easily serviced linear transducers built into the injection cylinders	<b>©</b>	
VERSAFIL injection control of each nozzle for up to 8 molds and 4 speed/pressure steps per mold	٥	
Nozzle temperature and hydraulic provisions provided, quantities dependent upon machine size (more / less optional)		
Purge valve with controls		٥
Display of injection pressure and back pressure	٥	
Drive panel AC		٥

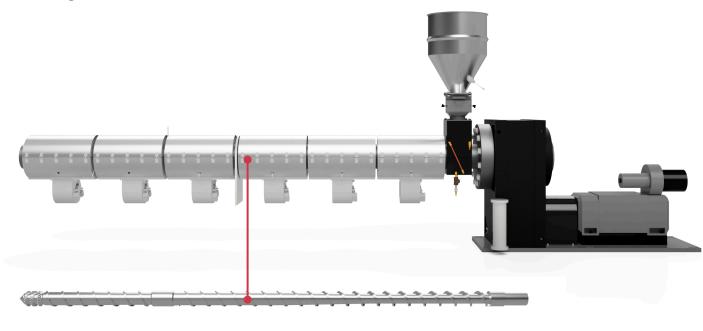
GENERAL:	STD	ОРТ
Standard control package for classic external multi-nozzle structural foam molding		
Controls package for gas assist, hot runners, and other molding techniques		<b>©</b>
Allen Bradley PLC Control System		
Beckhoff, Siemens, others available		
Data acquisition, SPC charting,		
SPI/EUROMAP Robotic interface		
Low Profile design for overhead robotics	<b>©</b>	
Elevated clamp		<b>©</b>
Kidney loop oil heat exchange/filtration		
Care in design for ease of component access for servicing		
Integrated "smart" control / troubleshooting of auxiliaries		<b>©</b>
Remote access via Wi-Fi, Ethernet, or cellular (Satellite Optional)		
One year warranty on all manufactured Wilmington manufactured components		
480 volts – 3 phase – 60 Hz.		
380 volts – 3 phase – 50 Hz.		



# LUMINA CONSTRUCTION & OPERATING FEATURES

### **EXTRUDERS**

Lumina Extruders are ruggedly constructed for demanding service. Gear reducers are typically a helical type with minimum 1.5 service factors. Thrust bearings are sized for a minimum 100,000 hour B-10 life. Drives are AC inverter type and are available for maximum screw speeds of 100, 125 and 150 RPM. Extruder barrels are wear grade bimetallic type with pressure and gas injection taps. Feed Screws are a two-stage type with Colmonoy flight tips and dual mixing sections for melt quality and gas dissolution. Heaters on most models are cast aluminum type with forced air cooling.



(Shown above: Wilmington Machinery 6" Extruder Assembly with 6", 30:1 L/D Feed Screw)

### **ACCUMULATORS**

Lumina Accumulators are constructed with bimetallic lined barrels and close-fitting hardened steel pistons. Pistons are designed for complete discharge with each shot preventing degradation of sensitive plastic materials. Accumulators are heated with long-life tubular band heaters. Easily serviced check valves isolate the extruder from the accumulator during injection. Pressure transducers display both extrusion and injection pressures. Shot size is measured by a linear transducer built into the hydraulic ram cylinder. Accumulator discharge rate is precisely controlled by proportional type hydraulics.



(Shown above: Wilmington Machinery 75 lb. Accumulator)

### **MANIFOLDS / NOZZLES**

Lumina manifold/nozzle components are designed for interchangeability with other makes/ sources. Manifolds are provided with block-off plug provision to eliminate stagnant melt buildup. Spacers are available in a variety of lengths to match the 6" x 6" grid pattern for nozzle placement. The Lumina Nozzle features a forged body with generous flow characteristics and variable length nozzle extensions. Conveniently located electrical and hydraulic plug-in panels are provided for nozzles and spacers.

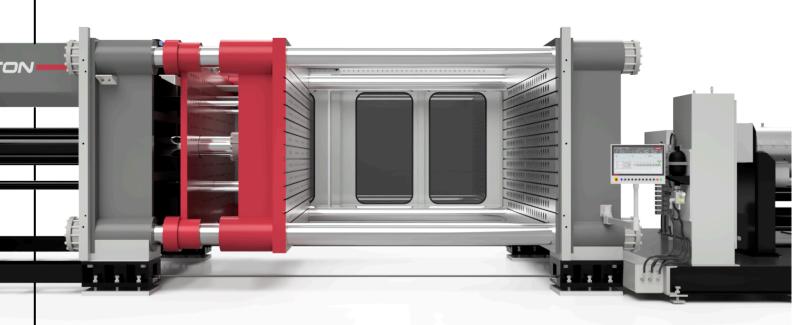


(Shown above: Wilmington Machinery Nozzles & Manifolds)

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### **LUMINA PRESSES**

Lumina Presses are designed using the latest FEA technology to assure rugged and reliable, yet fast moving press components. The LP Series pioneered the low-profile design friendly to plants with low ceiling height and top mounted robotics. They also provide for a 5-cylinder clamping method which greatly improves force distribution of the clamp and life of bearing and other components. The Lumina h Series of smaller machines provides an elevated type press with a linear bearing guidance/carrying system for the moving platen. Hydraulic componentry on Lumina presses is chosen for availability, efficiency and serviceability. Hydraulic knockout and core pull provisions are optional.



### **LUMINA CONTROLS**

Allen Bradley is standard on Lumina machines. They are an open architecture type and are supplemented with individual componentry of other brands for the very best performance in temperature, pressure, motion and other forms of control. The operator interface is a generous size color touch screen monitor for all control and machine diagnostic functions. Setup recipe storage is available both on the machine and/ or removable memory storage devices. Ethernet or modem connectivity to machines is available for off-site service support. Data acquisition and printout provisions are available.

### **VERSAFIL INJECTION CONTROL**

Every nozzle on a Lumina machine is individually controlled for open/close timing and fill rate. Lumina's unique control system accomplishes this from a single screen on the operator's panel. The result is controlled filling of each of several molds mounted in a Lumina machine at a given time. The advantage is more precise and lower part weight, stronger parts and better appearing parts.



## **LUMINA PROCESSING**

Lumina machines provide a degree of control, robust construction, simplicity and accessibility that make setup, operation and service economical, dependable and understandable. Large extrusion and shot capacities provide for big applications and future flexibility. Make-sense manifold/nozzle components with precise control further provide for the most economical, strong and best appearance parts.

Lumina machines are designed to accept as few as one mold to as many as eight. With stack mold capability as many as sixteen cavities can be molded on the machine at the same time. Shot capacities and extrusion capacities are available to match the number of molds (cavities).

### **LUMINA ACCESSORIES**

Lumina machines are available with carefully chosen accessories to optimize the performance of the molding machine and maximize the quality of the molded product. Common accessories include molds, gas generation equipment and plastic raw material handling/blending. Available accessories include robotic parts removal, core pull power units and chilled water systems for mold cooling.

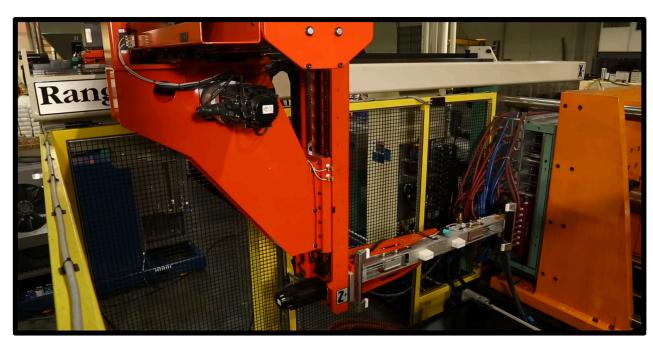
Accessorized Lumina machines are always provided as "turnkey" systems with all components tested and demonstrated for acceptance. Comprehensive training in the operation, care and maintenance are provided prior to shipment. Startup assistance and additional training are offered at the customer's plant. Wilmington also offers a full-service laboratory for product development, process development, plastic material testing and short production runs.

#### TURN-KEY SYSTEMS AVAILABLE

### **SUPERB SERVICE**

Wilmington's customer service is the hallmark of the company. We provide fast, knowledgeable service through technologies that create a machine-to-company connection, providing you with the most accurate troubleshooting assistance. Our service group goes beyond the call of duty to actively help our customers, suggesting retrofits for improved machine capabilities and keeping them constantly informed of the latest safety updates. Our senior management maintains detailed involvement and focus on every job and builds personal relationships with every customer.

Nearly all of the structural plastic injection molding machines or blow molding machines ever built by Wilmington Machinery are still in good service today. We are committed to continuing our tradition of forward thinking and producing the finest machines ever made. Your success is what Wilmington Machinery is all about.



(Shown above: Side entry Robot on a LUMINA Machine)

#### SERVICE DRIVEN SINCE 1972



(Shown above: Wilmington preforming machine training)

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## LUMINA APPLICATIONS

Wilmington Machinery's two-stage large part injection molding machines and turnkey fully integrated molding systems produce large parts up to 15 feet (4.5m), or multiples of parts weighing up to 300 pounds (135kg). The machines have melting capacities to 10,000 pounds per hour (4500kg).

Simple, long-lasting aluminum molds typically utilize the external configurable multi-nozzle injection technique. Hot runner or cold runner single injection point molds are readily adaptable and standard on some models.

The two-stage injection system is ideal for processing recycled plastics up to 100%. This system is also capable of additive compounding on the molding machine with its superior mixing capabilities for foamed and non-foamed parts.

The numerous applications for our large part injection molding machines include the following:

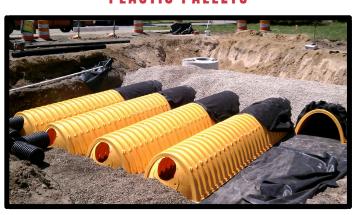
- Automotive
- Electrical enclosures
- Drainage and irrigation enclosures
- Material handling pallets & bins
- Recreational
- Agricultural
- Building & infrastructure
- Anything large and structural



## LARGE PART STRUCTURAL FOAM



PLASTIC PALLETS



AUTOMOTIVE



STORM WATER MANAGEMENT



**FOOD AND BEVERAGE** 

AGRICULTURAL



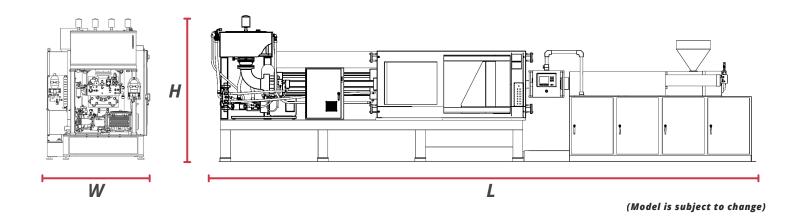
**CONSUMER GOODS** 

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## THE LUMINA: 1600h SPECIFICATIONS

## **300 Ton 25 lb. Shot Size 54 x 70 Platen**

MODEL	1600h
Clamp Force (US Tons)	300
Stripping Force (US Tons)	25
Platen Size V X H (in)	54 x 70
Tie Bar Clearance V X H (in)	38 x 54
Tie Bar Diameter (in)	4
STROKE (in)	60
Clamp Speed Max (in/min)	800
Daylight - Max (in)	72
Daylight - Min (in)	12
Platen Plate Thickness (in)	12.5
Moving Platen Mold Carry Capacity (lbs.)	6000
Extruder Diameter @ 30:1 Ratio (in)	3.5
Extruder Drive (Hp)	150



LUMINA 1600h		
Plasticating Capacity (lbs./hr) (HDPE)	800	
Shot Size (pounds per cubic inch)  OPTIONAL	<b>25   800</b> Single 50	
Injection Pressure - Max (psi)	6000	
Nozzle Locations (Qty @ 6" x 6")	64	
Nozzle Provisions - hyd & elec (Qty)	8	
Nozzle Provisions - hyd & elec (Qty)	4	
Base Type	Elevated	

LUMINA 1600h		
(L) Estimated length (feet)	36	
(W) Estimated Width (feet)	7.1	
(H) Estimated height (feet)	9	
Estimated weight (lbs. x 1,000)	71	
Est power consumption @ 100% (kW) Std.	156	

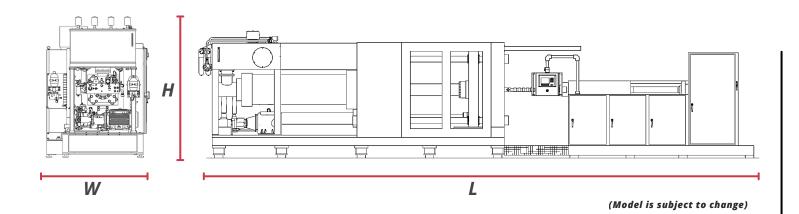


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## THE LUMINA: 2400h SPECIFICATIONS

## **400 Ton | 50 lb. Shot Size | 70 x 80 Platen**

MODEL	2400h
Clamp Force (US Tons)	400
Stripping Force (US Tons)	40
Platen Size V X H (in)	70 x 80
Tie Bar Clearance V X H (in)	52 x 62
Tie Bar Diameter (in)	5.5
STROKE (in)	72
Clamp Speed Max (in/min)	800
Daylight - Max (in)	84
Daylight - Min (in)	12
Platen Plate Thickness (in)	12.5
Moving Platen Mold Carry Capacity (lbs.)	12,000
Extruder Diameter @ 30:1 Ratio (in)	4.5
Extruder Drive (Hp)  OPTIONAL	<b>200</b> 250



LUMINA 2400h		
Plasticating Capacity (lbs./hr) (HDPE)  OPTIONAL	<b>1200</b> 1500	
Shot Size (pounds per cubic inch)  OPTIONAL	<b>50   1600</b> Single 75	
Injection Pressure - Max (psi)	6000	
Nozzle Locations (Qty @ 6" x 6")	72	
Nozzle Provisions - hyd & elec (Qty)	12	
Nozzle Provisions - hyd & elec (Qty) OPTIONAL UP TO	<b>6</b> 10	
Base Type	Elevated	

LUMINA 2400h		
(L) Estimated length (feet)	42.5	
(W) Estimated Width (feet)	7.5	
(H) Estimated height (feet)	10	
Estimated weight (lbs. x 1,000)	120	
Est power consumption @ 100% (kW) Std.	224	

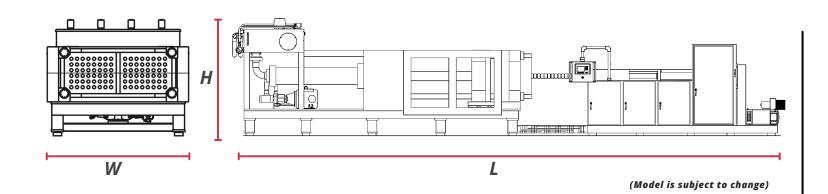


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## THE LUMINA: 3200h SPECIFICATIONS

## 500 Ton | Dual 25 lb. Shot Size | 56 x 126 Platen

MODEL	3200h
Clamp Force (US Tons)	500
Stripping Force (US Tons)	50
Platen Size V X H (in)	56 x 126
Tie Bar Clearance V X H (in)	38 x 108
Tie Bar Diameter (in)	5.5
STROKE (in)	72
Clamp Speed Max (in/min)	800
Daylight - Max (in)	84
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	12,000
Extruder Diameter @ 30:1 Ratio (in)	4.5
Extruder Drive (Hp)	250



L	LUMINA 3200h	
Plasticating Capacity (lbs./hr) (HDPE)	1500	
Shot Size (pounds per cubic inch)  OPTIONAL	<b>Dual 25   1600</b> Dual 50	
Injection Pressure - Max (psi)	6000	
Nozzle Locations (Qty @ 6" x 6")	118	
Nozzle Provisions - hyd & elec (Qty) OPTIONAL UP TO	<b>12</b> 18	
Nozzle Provisions - hyd & elec (Qty) OPTIONAL UP TO	<b>8</b> 16	
Base Type	Elevated	

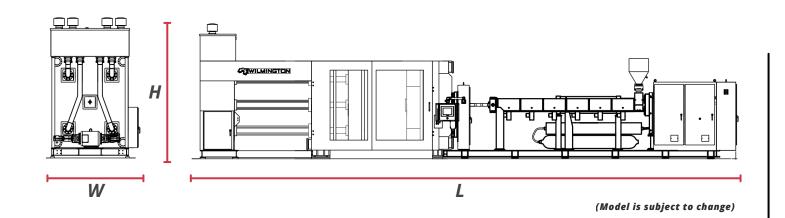
LUMINA 3200h	
(L) Estimated length (feet)	48
(W) Estimated Width (feet)	10.5
(H) Estimated height (feet)	10.5
Estimated weight (lbs. x 1,000)	140
Est power consumption @ 100% (kW) Std.	287



## THE LUMINA: LP500 SPECIFICATIONS

## **500 Ton 100 lb. Shot Size 96 x 90 Platen**

MODEL	LP500
Clamp Force (US Tons)	500
Stripping Force (US Tons)	50
Platen Size V X H (in)  OPTIONAL	<b>96 x 90</b> 108 x 90
Tie Bar Clearance V X H (in)  OPTIONAL	<b>72 x 67</b> 84 x 67
Tie Bar Diameter (in)	9
STROKE (in) OPTIONAL	<b>72</b> 108
Clamp Speed Max (in/min)	950
Daylight - Max (in) OPTIONAL	<b>84</b> 120
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	20,000
Extruder Diameter @ 30:1 Ratio (in)	6
Extruder Drive (Hp)  OPTIONAL	<b>300</b> 400/500



LUMINA LP500	
Plasticating Capacity (lbs./hr) (HDPE)	1800
Shot Size (pounds per cubic inch)	Single 100 3200
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6") OPTIONAL	<b>166</b> 192
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>18</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP500	
(L) Estimated length (feet)	61
(W) Estimated Width (feet)	9.7
(H) Estimated height (feet)	12
Estimated weight (lbs. x 1,000)	150
Est power consumption @ 100% (kW) Std.	384

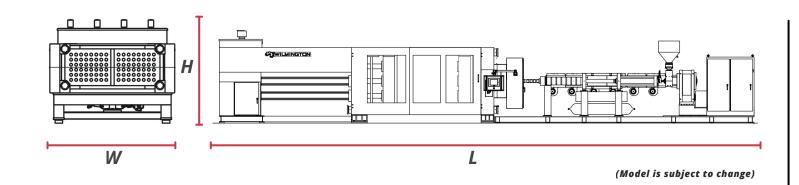


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## THE LUMINA: LP600 WP SPECIFICATIONS

## 600 Ton | Dual 50 lb. Shot Size | 96 x 131 Platen

MODEL	LP600 WP
Clamp Force (US Tons)	600
Stripping Force (US Tons)	60
Platen Size V X H (in)  OPTIONAL	96 x 90 108 x 167
Tie Bar Clearance V X H (in)  OPTIONAL	<b>72 x 67</b> 85 x 108
Tie Bar Diameter (in)	9
STROKE (in)	108
Clamp Speed Max (in/min)	950
Daylight - Max (in)	120
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	35,000
Extruder Diameter @ 30:1 Ratio (in)  OPTIONAL	<b>6</b> 2 x 130
Extruder Drive (Hp)  OPTIONAL	<b>300</b> 400/500



LUMINA LP600 WP	
Plasticating Capacity (lbs./hr) (HDPE)  OPTIONAL	<b>1800</b> 2200 - 2600+
Shot Size (pounds per cubic inch)  OPTIONAL	<b>Dual 50   3200</b> <i>Dual 75</i>
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6")  OPTIONAL	<b>236</b> 272
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

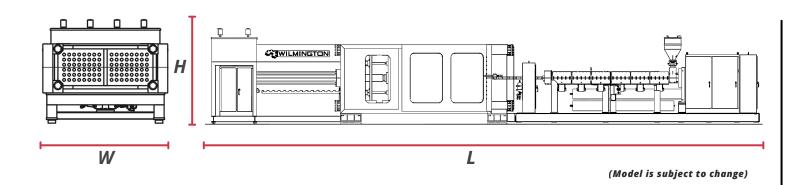
LUMINA LP600 WP	
(L) Estimated length (feet)	63.75
(W) Estimated Width (feet)	11
(H) Estimated height (feet)	11
Estimated weight (lbs. x 1,000)	155
Est power consumption @ 100% (kW) Std.	400



## THE LUMINA: LP750 SPECIFICATIONS

## **750 Ton** | **Dual 75 lb. Shot Size** | **96 x 167 Platen**

MODEL	LP750
Clamp Force (US Tons)	750
Stripping Force (US Tons)	75
Platen Size V X H (in)  OPTIONAL	<b>96 x 167</b> 108 x 167
Tie Bar Clearance V X H (in)  OPTIONAL	<b>72 x 141</b> 82 x 141
Tie Bar Diameter (in)	10
STROKE (in)	108
Clamp Speed Max (in/min)	800
Daylight - Max (in)	120
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	35,000
Extruder Diameter @ 30:1 Ratio (in)  OPTIONAL	<b>6</b> 2 x 130
Extruder Drive (Hp)  OPTIONAL	<b>300</b> 400/500



LUMINA LP750	
Plasticating Capacity (lbs./hr) (HDPE)	1800
Shot Size (pounds per cubic inch)	Dual 75   4800
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6")	278
Nozzle Provisions - hyd & elec (Qty) OPTIONAL UP TO	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP750	
(L) Estimated length (feet)	57.5
(W) Estimated Width (feet)	15
(H) Estimated height (feet)	10.3
Estimated weight (lbs. x 1,000)	267
Est power consumption @ 100% (kW) Std.	400

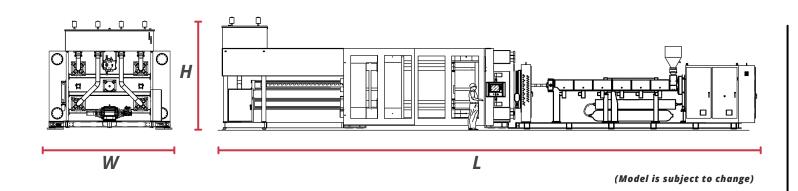


30 ———— 3'

## THE LUMINA: LP1000 WP SPECIFICATIONS

## **1000 Ton | Dual 75 lb. Shot Size | 96 x 186 Platen**

MODEL	LP1000 WP
Clamp Force (US Tons)	1000
Stripping Force (US Tons)	100
Platen Size V X H (in)  OPTIONAL	<b>96 x 186</b> 108 x 186
Tie Bar Clearance V X H (in)  ΟΡΤΙΟΝΑΙ	<b>68 x 159</b> 80 x 159
Tie Bar Diameter (in)	11
STROKE (in)	108
Clamp Speed Max (in/min)	800
Daylight - Max (in)	120
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	35,000
Extruder Diameter @ 30:1 Ratio (in)  OPTIONAL	<b>6</b> 2 x 130, 2 x 6
Extruder Drive (Hp)  OPTIONAL	<b>300</b> 400/500



LUMINA LP1000 WP	
Plasticating Capacity (lbs./hr) (HDPE)  OPTIONAL	<b>1800</b> 2600 - 5000+
Shot Size (pounds per cubic inch)  OPTIONAL	Dual 75   4800 Dual 100/150
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6")  OPTIONAL	<b>284</b> 332
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP1000 WP	
(L) Estimated length (feet)	65
(W) Estimated Width (feet)	18
(H) Estimated height (feet)	13
Estimated weight (lbs. x 1,000)	325
Est power consumption @ 100% (kW) Std.	420

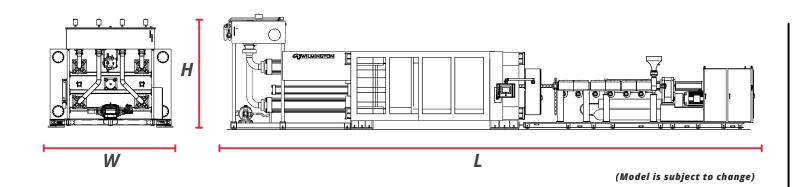


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## THE LUMINA: LP1500 WP SPECIFICATIONS

## **1500 Ton** | **Dual 75 lb. Shot Size** | **96 x 186 Platen**

MODEL	LP1500 WP
Clamp Force (US Tons)	1500
Stripping Force (US Tons)	150
Platen Size V X H (in)  OPTIONAL	96 x 186 108 x 186
Tie Bar Clearance V X H (in)  OPTIONAL	<b>68 x 159</b> 74 <i>x 153</i>
Tie Bar Diameter (in)	13
STROKE (in) OPTIONAL	<b>108</b> 120
Clamp Speed Max (in/min)	800
Daylight - Max (in) OPTIONAL	<b>120</b> 132
Daylight - Min (in)	12
Platen Plate Thickness (in)	8
Moving Platen Mold Carry Capacity (lbs.)	35,000
Extruder Diameter @ 30:1 Ratio (in)  OPTIONAL	2 x 130 mm 2 x 6
Extruder Drive (Hp)  OPTIONAL	2 x 250 2 x 300/400/500



LUMINA LP1500 WP	
Plasticating Capacity (lbs./hr) (HDPE)  OPTIONAL	<b>2600</b> 3600 - 5000+
Shot Size (pounds per cubic inch)  OPTIONAL	Dual 75   4800 Dual 100/150
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6")  OPTIONAL	<b>276</b> 324
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>24</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP1500 WP	
(L) Estimated length (feet)	68.25
(W) Estimated Width (feet)	18
(H) Estimated height (feet)	14
Estimated weight (lbs. x 1,000)	380
Est power consumption @ 100% (kW) Std.	420

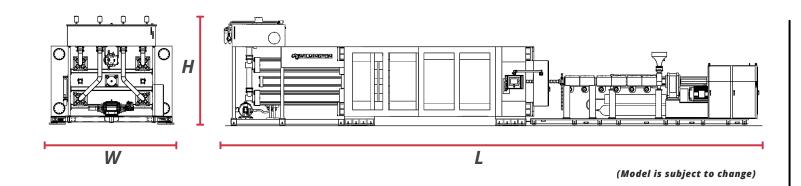


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## THE LUMINA: LP2000 WP SPECIFICATIONS

### **2000** Ton | **Dual 75 lb. Shot Size** | **110 x 200 Platen**

MODEL	LP2000 WP
Clamp Force (US Tons)	2000
Stripping Force (US Tons)	150
Platen Size V X H (in)	110 x 200
Tie Bar Clearance V X H (in)	69 x 160
Tie Bar Diameter (in)	17
STROKE (in) OPTIONAL	<b>108</b> 120
Clamp Speed Max (in/min)	800
Daylight - Max (in) OPTIONAL	<b>120</b> 132
Daylight - Min (in)	12
Platen Plate Thickness (in)	10
Moving Platen Mold Carry Capacity (lbs.)	45,000
Extruder Diameter @ 30:1 Ratio (in)  OPTIONAL	2 x 130 mm 2 x 6, 2 x 8
Extruder Drive (Hp)  OPTIONAL	<b>2 x 250</b> 2 x 300/400/500



LUMINA LP2000 WP	
Plasticating Capacity (lbs./hr) (HDPE)  OPTIONAL	<b>2600</b> 3600 - 5000+
Shot Size (pounds per cubic inch)  OPTIONAL	<b>Dual 75   4800</b> Dual 100/150
Injection Pressure - Max (psi)	6000
Nozzle Locations (Qty @ 6" x 6")	360
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>36</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL UP TO	<b>32</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP2000 WP	
(L) Estimated length (feet)	39.75
(W) Estimated Width (feet)	18.5
(H) Estimated height (feet)	14.5
Estimated weight (lbs. x 1,000)	430
Est power consumption @ 100% (kW) Std.	430

