

### 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.

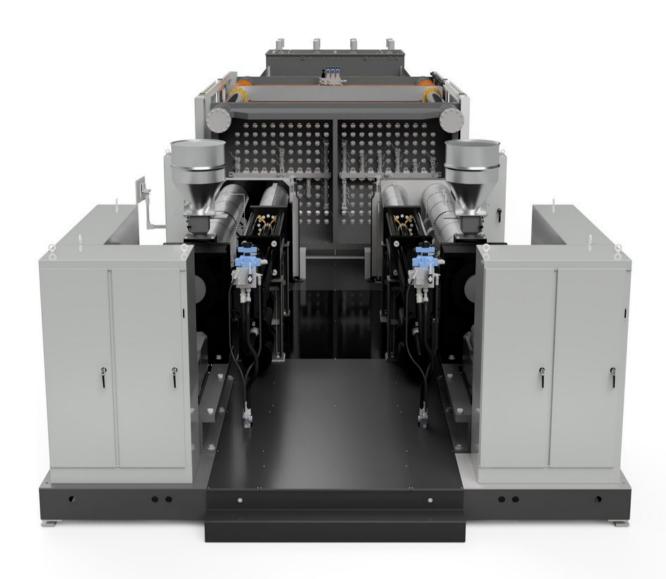
#### SERVING THE PLASTICS INDUSTRY SINCE 1972.

# THE LUMINA: STRUCTURAL FOAM 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.



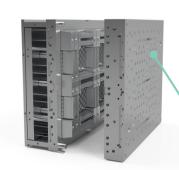
#### **Features and Advantages**

- 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**

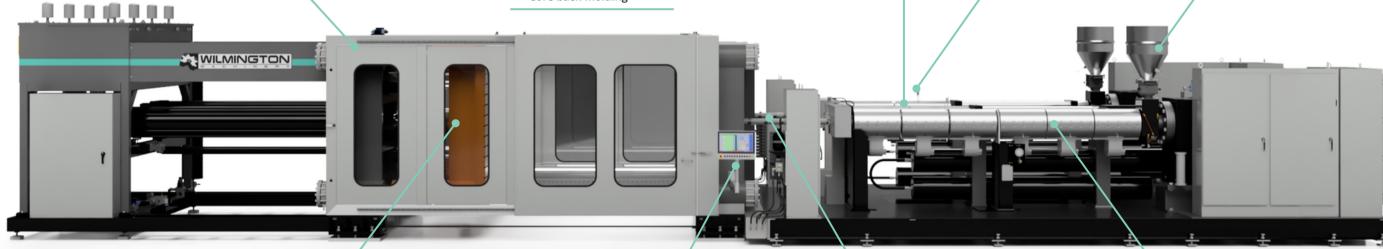
- Large capacity up to 136 kg.
- 11.3 68 kg.
- 4.5 kg. per second injection speeds

#### **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**

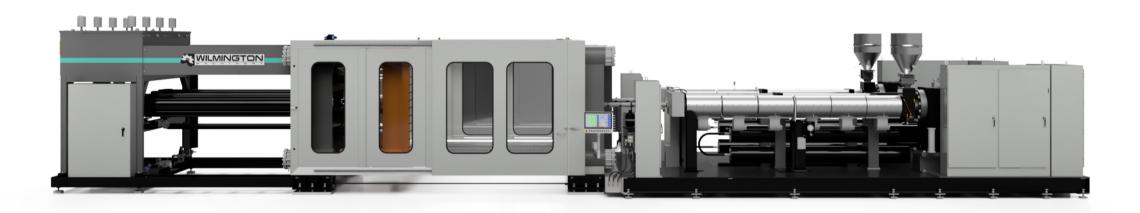
 Extended melt pipe for easy access to nozzles / spacers / manifold

#### **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



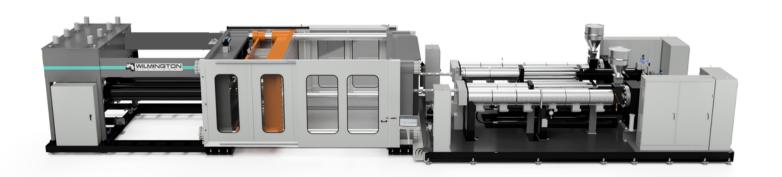
### LUMINA SPECIFICATIONS



MODEL	1600h	2400h	3200h	LP500	LP600 WP	LP750	LP1000 WP	LP1500 WP	LP2000 WP
CLAMP FORCE (METRIC TONS)	270	360	450	450	540	675	905	1360	1800
PLATEN SIZE V X H (mm) OPTIONAL	1370 x 1778	1778 x 2030	1422 x 3200	2438 x 2286 (2743 x 2286)	2438 x 3327 (2743 x 3327)	2438 x 4242 (2743 x 4242)	2438 x 4724 (2743 x 4724)	2438 x 4724 (2743 x 4724)	2794 x 5080
TIE BAR CLEARANCE V X H (mm) OPTIONAL	965 x 1371	1320 x 1575	965 x 2743	1829 x 1702 2134 x 1702	1829 x 2743 2159 x 2743	1778 x 3581 2088 x 3581	1727 x 4039 2032 x 4039	1575 x 3886 1880 x 3886	1753 x 4064
SHOT SIZE (KG L) OPTIONAL	<b>11.3   13.1</b> 22.7   26.2	<b>22.7   26.2</b> 34   39.3	Dual 11.3 26.2 34 39.3	Single 45 52.4	Dual 23   52.4  Dual 34	Dual 34 78.7 45 68	Dual 34 78.7	Dual 34 78.7	Dual 34   78.7  Dual 45/68
STROKE (mm) OPTIONAL	1524	1828.8	1828.8	<b>1829</b> 2743	2743	2743	2743	<b>2743.1</b> 3048	<b>2743.1</b> 3048
PLASTICATING CAPACITY (KGS./HR)  OPTIONAL	360	<b>540</b> 680	680	815	<b>815</b> 1000 - 1180	<b>815</b> 1800 - 2270	<b>815</b> 1180 - 2270+	<b>1180</b> 1635 - 2270+	<b>1180</b> 1635 - 2270+

### **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)	<b>S</b>	
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	i.	
Large capacity material hopper and magnet drawer	<b>A</b>	
Mixing sections specific to your material needs		i i
36:1 L/D barrel with static mixer		-
Xaloy 800 grade bimetallic liner		2



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)		
800 IPM open / close (more optional)		
Flow / pressure modulated hydraulic power unit with Rexroth components		
Variable frequency servo hydraulics		E.
Mechanical ejection	i i	
Hydraulic ejection		E.
Core pull sequence logic	<b>L</b>	
Core pull valving		<b>A</b>
Closed loop clamp motion control	<b>A</b>	
Easily serviceable linear transducer built into hydraulic cylinder	<b>S</b>	
Manual lube		
Auto lube		<b>E</b>
Linear rail mold support system		E.
Manual operator and non-operator gates		
Powered operator and non-operator gates		E.
Semiautomatic tie bar removal		E.
"T" slots in platens		E.

### LUMINA FEATURES (CONTINUED)

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

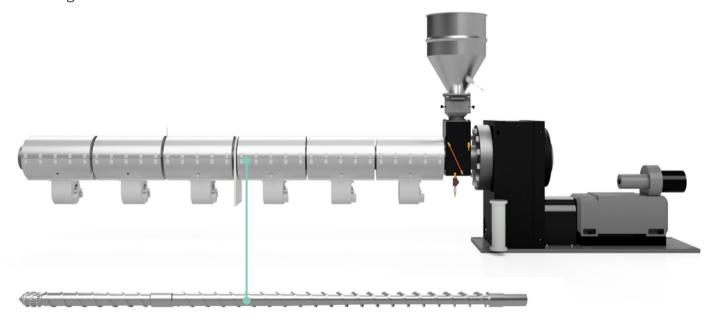
GENERAL:	STD	ОРТ
Standard control package for classic external multi-nozzle structural foam molding		
Controls package for gas assist, hot runners, and other molding techniques		
Allen Bradley PLC Control System		
Beckhoff, Siemens, others available		E.
Data acquisition, SPC charting,		
SPI/EUROMAP Robotic interface		
Low Profile design for overhead robotics	i i	
Elevated clamp		<b>E</b>
Kidney loop oil heat exchange/filtration	i i	
Care in design for ease of component access for servicing	A.	
Integrated "smart" control / troubleshooting of auxiliaries		<b>E</b>
Remote access via Wi-Fi, Ethernet, or cellular (Satellite Optional)	e.	
One year warranty on all manufactured Wilmington manufactured components	i i	
480 volts – 3 phase – 60 Hz.	E.	
380 volts – 3 phase – 50 Hz.		<b>2</b>



# LUMINA CONSTRUCTION & OPERATING FEATURES

#### **EXTRUDERS**

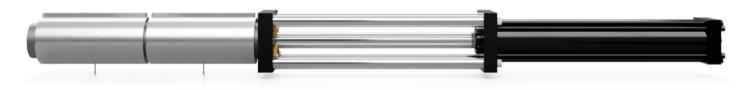
Lumina Extruders are ruggedly constructed for demanding service. Gear reducers are typically a helical type with minimum 1.5 service factors. Thrust bearings are sized for a minimum 100,000 hour B-10 life. Drives are AC inverter type and are available for maximum screw speeds of 100, 125 and 150 RPM. 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**

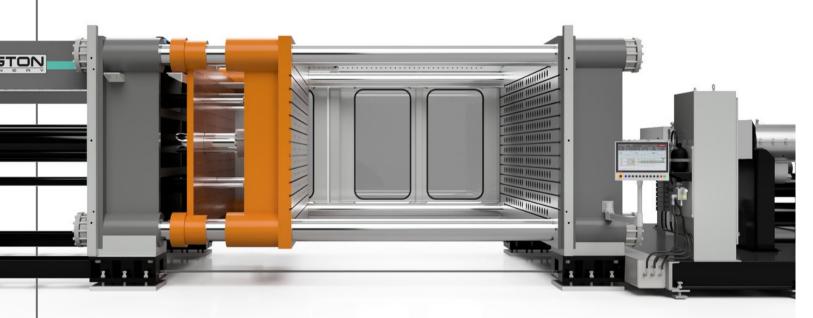
Lumina manifold/nozzle components are designed for interchangeability with other makes/ sources. Manifolds are provided with block-off plug provision to eliminate stagnant melt buildup. Spacers are available in a variety of lengths to match the 6" x 6" grid pattern for nozzle placement. The Lumina Nozzle 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)

#### **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.

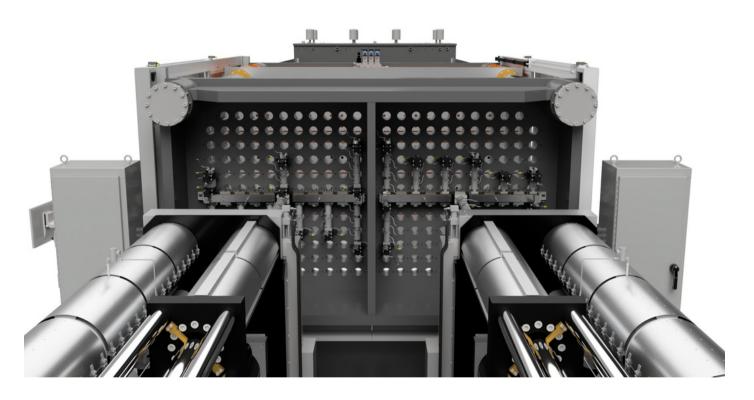


#### **LUMINA CONTROLS**

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).

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#### **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.

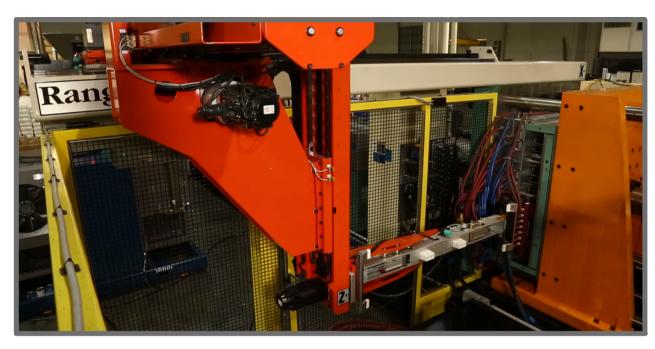
Accessorized Lumina machines are always provided as "turnkey" systems with all components tested and demonstrated for acceptance. Comprehensive training in the operation, care and maintenance are provided prior to shipment. Startup assistance and additional training are offered at the customer's plant.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



#### 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)

## **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:

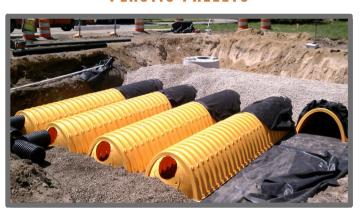
- Automotive
- Electrical enclosures
- Drainage and irrigation enclosures
- Material handling pallets & bins
- Recreational
- Agricultural
- Building & infrastructure
- Anything large and structural



### LARGE PART STRUCTURAL FOAM



PLASTIC PALLETS



STORM WATER MANAGEMENT



FOOD AND BEVERAGE



**AUTOMOTIVE** 



**AGRICULTURAL** 

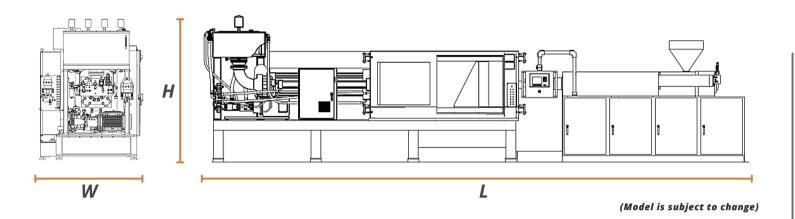


CONSUMER GOODS

## THE LUMINA: 1600h SPECIFICATIONS

### **270 Ton** | **11.3 kg. Shot Size** | **1370 x 1778 Platen**

MODEL	1600h
Clamp Force (Metric Tons)	270
Stripping Force (Metric Tons)	20
Platen Size V X H (mm)	1370 x 1778
Tie Bar Clearance V X H (mm)	965 x 1371
Tie Bar Diameter (mm)	101.6
STROKE (mm)	1524
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm)	1829
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	318
Moving Platen Mold Carry Capacity (kg)	2700
Extruder Diameter @ 30:1 Ratio (mm)	90
Extruder Drive (kW)	115



LUMINA 1600h			
Plasticating Capacity (kgs./hr) (HDPE)	360		
Shot Size (kg L) (HDPE)  OPTIONAL	<b>11.3   13.1</b> 22.7   26.2		
Injection Pressure - Max (bar)	414		
Nozzle Locations (Qty @ 152mm x 152mm)	64		
Nozzle Provisions - hyd & elec (Qty)	8		
Nozzle Provisions - hyd & elec (Qty)	4		
Base Type	Elevated		

LUMINA 1600h		
(L) Estimated length (m)	11.0	
(W) Estimated Width (m)	2.2	
(H) Estimated height (m)	2.7	
Estimated weight (kgs x 1,000)	32.3	
Est power consumption @ 100% (kW) Std.	156	

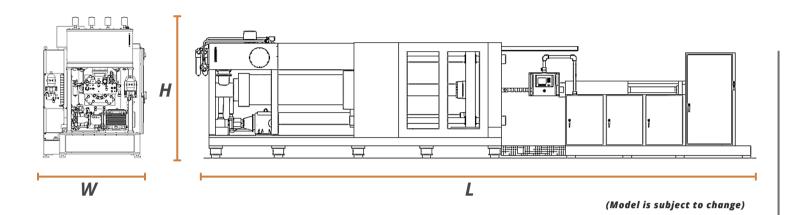


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## THE LUMINA: 2400h SPECIFICATIONS

### 360 Ton | 22.7 kg. Shot Size | 1778 x 2030 Platen

MODEL	2400h
Clamp Force (Metric Tons)	360
Stripping Force (Metric Tons)	35
Platen Size V X H (mm)	1778 x 2030
Tie Bar Clearance V X H (mm)	1320 x 1575
Tie Bar Diameter (mm)	139.7
STROKE (mm)	1828.8
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm)	2134
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	318
Moving Platen Mold Carry Capacity (kg)	5500
Extruder Diameter @ 30:1 Ratio (mm)	115
Extruder Drive (kW)	<b>150</b> 190



LUMINA 2400h		
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>540</b> 680	
Shot Size (kg L) (HDPE)  OPTIONAL	<b>22.7   26.2</b> 34  <i>39.3</i>	
Injection Pressure - Max (bar)	414	
Nozzle Locations (Qty @ 152mm x 152mm)	72	
Nozzle Provisions - hyd & elec (Qty)	12	
Nozzle Provisions - hyd & elec (Qty)	<b>6</b> 10	
Base Type	Elevated	

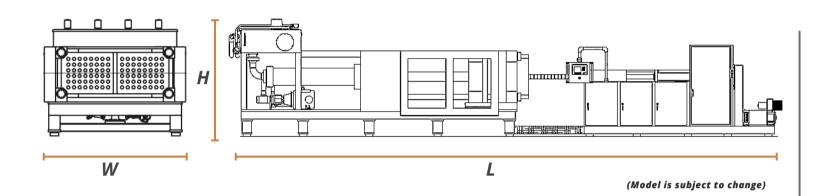
LUMINA 2400h		
(L) Estimated length (m)	13.0	
(W) Estimated Width (m)	2.3	
(H) Estimated height (m)	3.0	
Estimated weight (kgs x 1,000)	54.5	
Est power consumption @ 100% (kW) Std.	224	



## THE LUMINA: 3200h SPECIFICATIONS

#### 450 Ton | Dual 11.3 kg. Shot Size | 1422 x 3200 Platen

MODEL	3200h
Clamp Force (Metric Tons)	450
Stripping Force (Metric Tons)	45
Platen Size V X H (mm)	1422 x 3200
Tie Bar Clearance V X H (mm)	965 x 2743
Tie Bar Diameter (mm)	139.7
STROKE (mm)	1828.8
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm)	2134
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	5500
Extruder Diameter @ 30:1 Ratio (mm)	115
Extruder Drive (kW)	190



LUMINA 3200h	
Plasticating Capacity (kgs./hr) (HDPE)	680
Shot Size (kg   L) (HDPE)  OPTIONAL	Dual 11.3 26.2 22.7 26.2
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm)	118
Nozzle Provisions - hyd & elec (Qty)	12
Nozzle Provisions - hyd & elec (Qty)	<b>8</b> 16
Base Type	Elevated

LUMINA 3200h	
(L) Estimated length (m)	14.6
(W) Estimated Width (m)	3.2
(H) Estimated height (m)	3.2
Estimated weight (kgs x 1,000)	63.6
Est power consumption @ 100% (kW) Std.	287

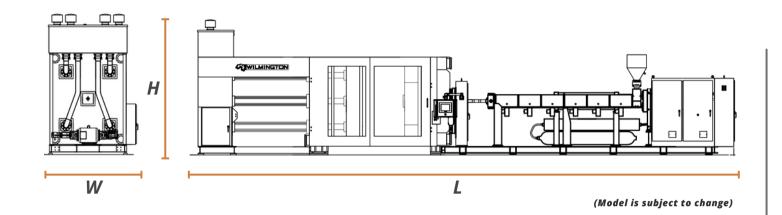


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## THE LUMINA: LP500 SPECIFICATIONS

### 450 Ton | 45 kg. Shot Size | 2438 x 2286 Platen

MODEL	LP500
Clamp Force (Metric Tons)	450
Stripping Force (Metric Tons)	45
Platen Size V X H (mm)  OPTIONAL	<b>2438 x 2286</b> 2743 x 2286
Tie Bar Clearance V X H (mm)  OPTIONAL	1829 x 1702 2134 x 1702
Tie Bar Diameter (mm)	228.6
STROKE (mm)  OPTIONAL	<b>1829</b> 2743
Clamp Speed Max (mm/sec)	400
Daylight - Max (mm) OPTIONAL	<b>2134</b> 3048
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	10,000
Extruder Diameter @ 30:1 Ratio (mm)	152
Extruder Drive (kW)  OPTIONAL	<b>225</b> 300/375



LUMINA LP500	
Plasticating Capacity (kgs./hr) (HDPE)	815
Shot Size (kg L) (HDPE)  OPTIONAL	Single 45   52.4
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm)  OPTIONAL	<b>166</b> 192
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL	<b>18</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

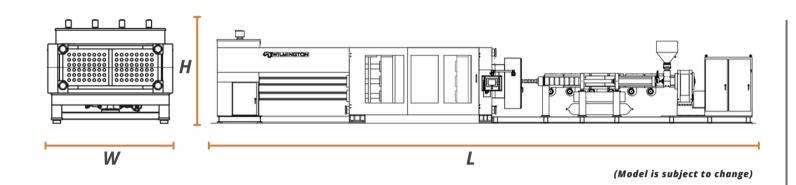
LUMINA LP500	
(L) Estimated length (m)	19.0
(W) Estimated Width (m)	3.0
(H) Estimated height (m)	3.7
Estimated weight (kgs x 1,000)	68.0
Est power consumption @ 100% (kW) Std.	384



## THE LUMINA: LP600 WP SPECIFICATIONS

### 540 Ton | Dual 23 kg. Shot Size | 2438 x 3327 Platen

MODEL	LP600 WP
Clamp Force (Metric Tons)	540
Stripping Force (Metric Tons)	50
Platen Size V X H (mm)  OPTIONAL	<b>2438 x 3327</b> 2743 x 3327
Tie Bar Clearance V X H (mm)  OPTIONAL	1829 x 2743 2159 x 2743
Tie Bar Diameter (mm)	228.6
STROKE (mm)	2743
Clamp Speed Max (mm/sec)	400
Daylight - Max (mm)	3048
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	15,000
Extruder Diameter @ 30:1 Ratio (mm)  OPTIONAL	<b>152</b> 2 x 130
Extruder Drive (kW)  OPTIONAL	<b>225</b> 300/375



LUMINA LP600 WP	
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>815</b> 1000-1180
Shot Size (kg L) (HDPE)  OPTIONAL	<b>Dual 23   52.4</b> Dual 34
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm) OPTIONAL	<b>236</b> 272
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP600 WP	
(L) Estimated length (m)	19.4
(W) Estimated Width (m)	3.4
(H) Estimated height (m)	3.4
Estimated weight (kgs x 1,000)	70.3
Est power consumption @ 100% (kW) Std.	400

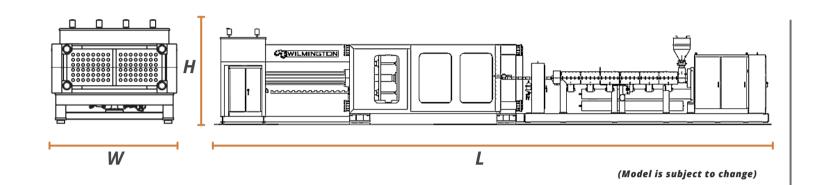


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## THE LUMINA: LP750 SPECIFICATIONS

### 675 Ton | Dual 34 kg. Shot Size | 2438 x 4724 Platen

MODEL	LP750
Clamp Force (Metric Tons)	540
Stripping Force (Metric Tons)	65
Platen Size V X H (mm)  OPTIONAL	2438 x 4242 2743 x 4242
Tie Bar Clearance V X H (mm)  OPTIONAL	1778 x 3581 2088 x 3581
Tie Bar Diameter (mm)	254
STROKE (mm)	2743
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm)	3048
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	15,000
Extruder Diameter @ 30:1 Ratio (mm)  OPTIONAL	<b>152</b> 2 x 130, 2 x 152
Extruder Drive (kW)  OPTIONAL	<b>225</b> 300/375



LUMINA LP750	
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>815</b> 1800-2270
Shot Size (kg L) (HDPE)  OPTIONAL	<b>Dual 34 78.7</b> Dual 45/68
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm)	278
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

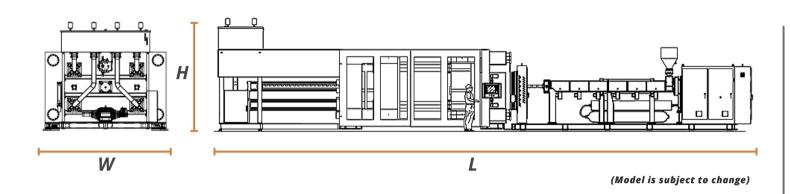
LUMINA LP750	
(L) Estimated length (m)	17.5
(W) Estimated Width (m)	4.6
(H) Estimated height (m)	3.2
Estimated weight (kgs x 1,000)	121
Est power consumption @ 100% (kW) Std.	400



## THE LUMINA: LP1000 WP SPECIFICATIONS

### **905 Ton | Dual 34 kg. Shot Size | 2438 x 4724 Platen**

MODEL	LP1000 WP
Clamp Force (Metric Tons)	905
Stripping Force (Metric Tons)	90
Platen Size V X H (mm)  OPTIONAL	<b>2438 x 4724</b> 2743 x 4724
Tie Bar Clearance V X H (mm)  OPTIONAL	1727 x 4039 2032 x 4039
Tie Bar Diameter (mm)	279.4
STROKE (mm)	2743
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm)	3048
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	15,000
Extruder Diameter @ 30:1 Ratio (mm)  OPTIONAL	<b>152</b> 2 x 130, 2 x 152
Extruder Drive (kW)  OPTIONAL	<b>225</b> 300/375



LUMINA LP1000 WP	
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>815</b> 1180-2270+
Shot Size (kg L) (HDPE)  OPTIONAL	<b>Dual 34 78.7</b> Dual 45/68
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm) OPTIONAL	<b>284</b> 332
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

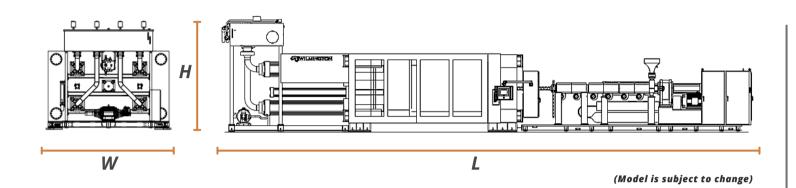
LUMINA LP1000 WP	
(L) Estimated length (m)	19.8
(W) Estimated Width (m)	5.5
(H) Estimated height (m)	4.0
Estimated weight (kgs x 1,000)	147.4
Est power consumption @ 100% (kW) Std.	420



## THE LUMINA: LP1500 WP SPECIFICATIONS

### 1360 Ton | Dual 34 kg. Shot Size | 2438 x 4724 Platen

MODEL	LP1500 WP
Clamp Force (Metric Tons)	1360
Stripping Force (Metric Tons)	135
Platen Size V X H (mm)  OPTIONAL	<b>2438 x 4724</b> 2743 x 4724
Tie Bar Clearance V X H (mm)  OPTIONAL	1575 x 3886 1880 x 3886
Tie Bar Diameter (mm)	330.2
STROKE (mm) OPTIONAL	<b>2743.1</b> 3048
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm) OPTIONAL	<b>3048</b> <i>3353</i>
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	203
Moving Platen Mold Carry Capacity (kg)	15,000
Extruder Diameter @ 30:1 Ratio (mm)  OPTIONAL	2 x 130 2 x 152
Extruder Drive (kW)  OPTIONAL	2 x 190 2 x 225/300/375



LUMINA LP1500 WP	
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>1180</b> 1635-2270÷
Shot Size (kg L) (HDPE)  OPTIONAL	<b>Dual 34 78.7</b> Dual 45/68
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm)  OPTIONAL	<b>276</b> 324
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>24</b> 48
Nozzle Provisions - hyd & elec (Qty) OPTIONAL	<b>20</b> 40
Base Type OPTIONAL	Low Profile  Elevated

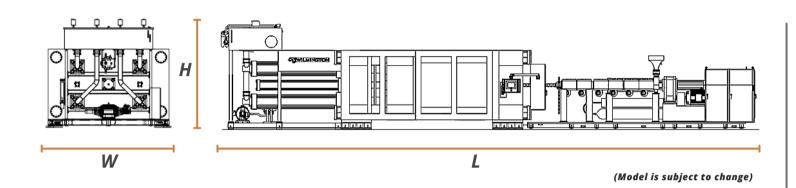
LUMINA LP1500 WP	
(L) Estimated length (m)	20.8
(W) Estimated Width (m)	5.5
(H) Estimated height (m)	4.3
Estimated weight (kgs x 1,000)	172.4
Est power consumption @ 100% (kW) Std.	420



## THE LUMINA: LP2000 WP SPECIFICATIONS

#### 1800 Ton | Dual 34 kg. Shot Size | 2794 x 5080 Platen

MODEL	LP2000 WP
Clamp Force (Metric Tons)	1800
Stripping Force (Metric Tons)	135
Platen Size V X H (mm)	2794 x 5080
Tie Bar Clearance V X H (mm)	1753 x 4064
Tie Bar Diameter (mm)	432
STROKE (mm) OPTIONAL	<b>2743.1</b> 3048
Clamp Speed Max (mm/sec)	340
Daylight - Max (mm) OPTIONAL	<b>3048</b> 3353
Daylight - Min (mm)	305
Platen Plate Thickness (mm)	254
Moving Platen Mold Carry Capacity (kg)	20,000
Extruder Diameter @ 30:1 Ratio (mm)  OPTIONAL	<b>2</b> x <b>130</b> 2 x <b>1</b> 52
Extruder Drive (kW)  OPTIONAL	<b>2 x 190</b> 2 x 225/300/375



LUMINA LP2000 WP	
Plasticating Capacity (kgs./hr) (HDPE)  OPTIONAL	<b>1180</b> 1635-2270+
Shot Size (kg L) (HDPE)  OPTIONAL	<b>Dual 34 78.7</b> Dual 45/68
Injection Pressure - Max (bar)	414
Nozzle Locations (Qty @ 152mm x 152mm)	360
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL	<b>36</b> 48
Nozzle Provisions - hyd & elec (Qty)  OPTIONAL	<b>32</b> 40
Base Type OPTIONAL	Low Profile  Elevated

LUMINA LP2000 WP	
(L) Estimated length (m)	21.3
(W) Estimated Width (m)	5.6
(H) Estimated height (m)	4.5
Estimated weight (kgs x 1,000)	195.1
Est power consumption @ 100% (kW) Std.	430

