

Quality Equipment and Services for Extrusion and Injection Molding Lines



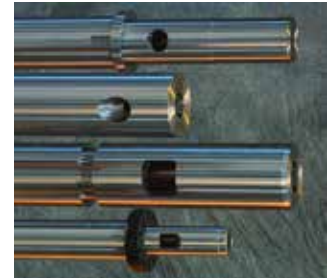
www.jlsintl.com

JLS International provides equipment for plastics converting lines from high quality manufacturers located in Europe, Asia, and the US to customers worldwide. We assist our manufacturing partners with equipment design, prepare quotations according to customer specifications, and follow all projects very closely through realization, keeping our customers informed.

Extrusion and Injection Molding Barrels from Wexco

These are bimetallic barrels with alloys available for the full range of process environments. Wear solutions can be provided for complex to general purpose applications. Cylinder blanks and liners are also available.

Bore diameters available are from 0.5 to 6.3 inches (12.7 to 160 mm) for injection molding and 0.5 to 14 inches (12.7 to 355mm) for extrusion, with a maximum length of 293 inches (7.443m).



Extrusion and Injection Molding Screws

JLS can provide a complete range of screw designs for both single and twin screw extruders and injection molding machines. These screws are engineered for maximum performance and durability. We offer custom designed screws as well as duplicate replacement screws. Special alloys and coatings are available for wear and corrosion resistance in all process environments.

Extrusion: Screw diameters from 0.75 inches (19 mm) to 26" (660 mm) and lengths to 65 feet (13.7 m).

Injection tips: Custom and process specific designs available.

Rebuild service available on all screw designs.



Screen Changers

JLS can provide a complete range of screen changers including:

- Manual screen changers
- Slide plate screen changers with patented all-metal seal
- Sealess discontinuous screen changers
- Sealess continuous dual piston screen changers
- Sealess continuous screen changers with automatic backflush, offering much longer screen life

All components are manufactured to ISO-9002 standards and most models are guaranteed leak-free operation to 10,000 psi. Custom systems can be provided to include gear pumps, mixers, controls, and all interfacing equipment mounted on a support stand.



Extrusion Pumps

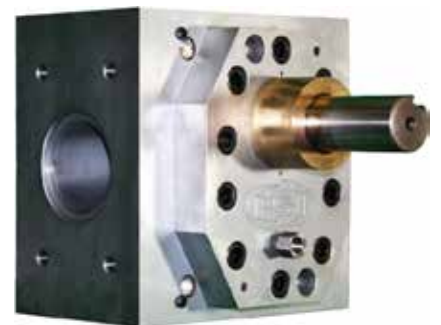
Extrusion pumps are high precision gear pumps that ensure accurate output while providing lower shear stress, lower energy consumption, lower processing temperatures, and higher output rates. They are capable of processing highly filled materials, fractional melts, recycled materials, and highly viscous materials.

Pumps can be supplied individually, or as part of a complete system including controls and all interfacing equipment mounted on a custom designed support stand.

Operating pressures up to 10,000 psi

Differential pressures up to 7,000 psi

Temperatures up to 850° F



Material Blending from Thoreson McCosh

Gravimetric Blenders These highly accurate, computerized blending systems are for small and medium-duty injection molding machines and extruder applications up to 400-6500 lb./hr.

Additive Feeders Capable of handling pelletized materials or free-flowing powders, these feeders are available in sizes from 1/2 to 500 lb./hr. Up to four units can fit on one throat. Magnetic separators, mixers, and slide gates can be added if desired.

A complete plant-wide material management system can be custom designed and installed, including storage, dryers, blenders, loaders, conveying systems, valves, and controls.



Raw Material Conveying from Thoreson McCosh

Material Loaders Three types are offered:

- Hopper style automated loader provides precise control over load time and material percentages for loads up to 1,000 lb./hr.
- Automated minimum inventory loader/hopper handles material with the least possible exposure to moisture. Loads from 250-750 lb./hr.
- Portable vacuum pump unit designed for standard loading configurations with throughputs from 200 to 1,500 lb./hr.

Railcar Unloading These systems offer the advantage of vacuum and pressurized material conveying in one unit. Capacities from 7,500 to 25,000 lb./hr.

Central Vacuum Available in either regenerative or positive displacement type units, these systems provide reliable material conveying and filtration.



Material Drying from Thoreson McCosh

Desiccant Dryers These completely automatic, self-diagnostic dryers use a triple desiccant bed design for greater efficiency, using less power and desiccant.

Hot Air Dryers Designed to remove surface moisture from non-hygroscopic plastic materials, these systems automatically provide a constant supply of preheated, preconditioned, uniformly dried material to your extruder or molding machine.

Central Drying These stations allow you to maximize drying efficiency, versatility, and ease of operation. Preheaters are available for individual hopper temperature control.



Material Storage from Thoreson McCosh

Silos A wide range of FDA approved silos are available including corrugated, galvanized, aluminum, steel, painted, bolted, or welded.

Surge Bins These are offered in capacities from 25 to 600 cubic feet. Many options are available to adapt them to almost any material handling system.

Super Sack Stations Available in fork lift carriage type or with an electric hoist. Many optional features available.

Gaylord Tilters These allow complete removal of material from the container with little or no assistance from the operator.



Static Mixers and Heat Exchangers from Samhwa

Static Mixers These are inserted into the line before the die to provide color, temperature, and viscosity uniformity in the product. The mixers feature no moving parts, a short residence time, and a relatively low pressure drop.

Mixers can be provided with band heaters and removable or fixed mixing elements.

Heat Exchangers Used for heating or cooling the melt, these have static mixers inserted in the tubes to provide mixing and greatly improve heat transfer. Typical applications include:

- Foam applications to prevent the blowing agent from foaming while in the extrusion process.
- Adhesive applications to control viscosity so that pelletizing can occur for many different products using the same line.



Maintenance Items

JLS offers a variety of quality maintenance items including:

- Band heaters
- Cartridge heaters
- Rupture discs
- Filter screens and elements
- Thermocouples
- Temperature and pressure transducers



Services

JLS offers a variety of services including:

- Extrusion pump repair
- Screen changer repair
- Extruder gear case repair
- Field borescoping and alignment

All services are performed by trained and experienced personnel in a responsive manner. Call us for a quote!



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