

# Industrial Pumping Equipment

## Introduction

Lincoln provides the technologically advanced pumps required for today's demanding applications because we can draw on more than 60 years experience with industrial pumping systems.

Our pumps excel in applications that range from the transfer of lighter fluids (oils, solvents, adhesives, etc.) to the movement of medium-viscosity materials (RTV silicone, greases, coatings, plastisols, offset inks, etc.) to the tough job of pumping very heavy-viscosity materials (ink flushes, epoxies, mastics, etc.).

Our systems are found in diverse industries, including printing and publishing, automotive manufacturing, rotational molding and other demanding industries that require time-proven systems for application of their materials in manufacturing.

### PowerMaster® III Pumps

Building upon our success with standard drum pumps, we have taken their design into the 21st century with completely pneumatic, modular air motors and six-inch stroke pumps for greater material output. Accessories include an AirBrake™ option for prevention of pump runaway due to an empty container, a broken supply line or other loss of pump prime. A variety of packing materials ensures correct packing based on material compatibility.

### PileDriver® III Pumps

For high-volume applications of viscous materials from standard drums or bulk tanks, these industry-standard pumps incorporate the same completely pneumatic, modular air motors. Along with the AirBrake option and a wide variety of packing materials, PileDriver III pumps feature a patented leakless gland design that protects the pump from gland seal failure and subsequent downtime for replacement.

We have a wide range of system accessories, from pressure primers and other mounting accessories to material control valves, ejectors, measuring valves, air controls and system hardware.

Selection of system accessories is based on general system type and your particular system's needs. Our network of systems house distributors is ready to help design the industrial pumping system that is right for you. Contact the Lincoln Technical Service Department (314-679-4200, ext. 4782) for the name of your nearest systems house distributor.



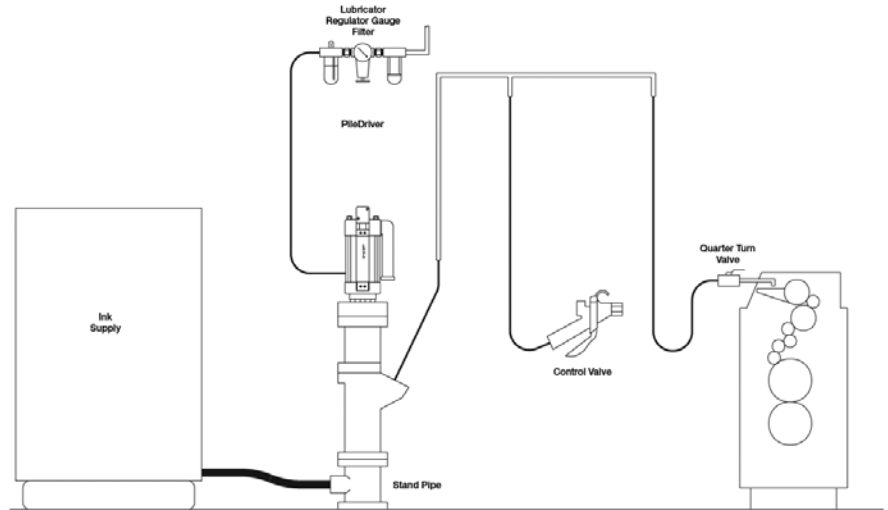
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### Transfer System

Material is transferred from its original container to another point. Typically, the simple transfer of low-viscosity fluids through relatively short supply lines requires low pressure, high-volume pumps. If higher viscosity fluids are involved, or longer supply lines are required, a pump capable of higher pressures becomes necessary. Transfer systems transfer:

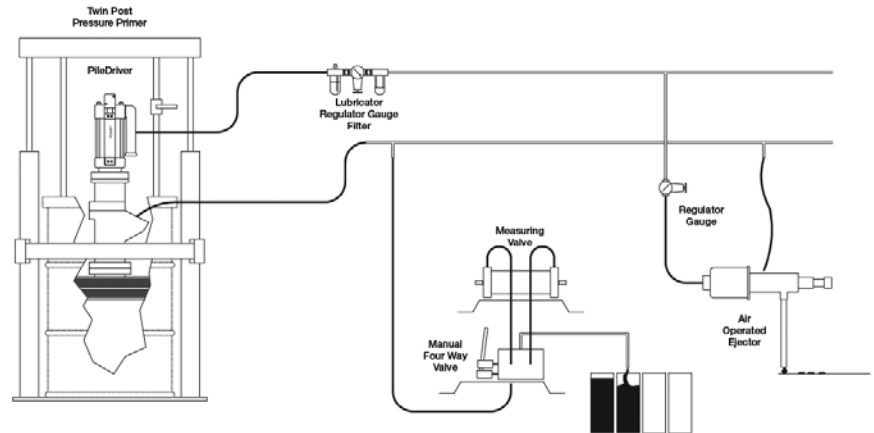
- Printing inks to press fountains.
- Adhesives to reservoirs on packaging machinery.
- Lubricants to smaller containers in remote locations.
- Materials to high-pressure pumps for spray or flow applications.



### Measure System

Material is pumped from original containers through the supply lines to measuring valves or ejectors, which in turn meter precise amounts of material to a work piece. Typical measure systems include:

- Multiple shots in patterns of adhesives used to bond substrates, such as automobile hoods and doors.
- Measured lubricant applied to electric motors in appliance manufacturing.
- Single-shot applications of adhesives or sealants used in manufacturing.
- Cartridge filling lines.



### Flow System

Material is pumped from the original container through the supply line to a flow gun which applies the material to a work piece. Typical flow systems include:

- Adhesives applied to substrates for bonding in construction and other industries.
- Adhesives used in the manufacture of modular or mobile homes.
- Sealants applied during manufacturing to various parts of vehicles, including sun shields, tail lights, weld lines and hem flanges.
- Recommended for use where normal pump operation does not exceed 45 cycles per minute.

