

Powerwise Ink Pumps

Pumps for the
Printing Industry



Centrifugal

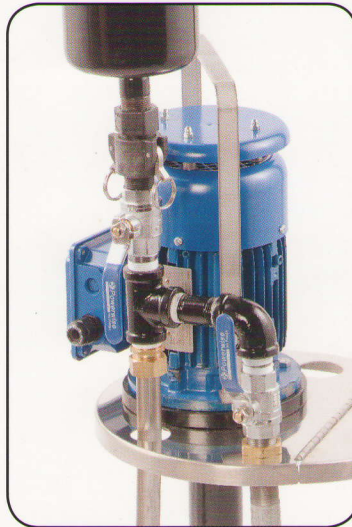
Powerwise offers two types of Centrifugal pumping systems.

NYLON Coated Series

Features an easy clean dipped and heat fused surface.

TRIFUGAL Series

Three stainless steel rods allow the pump to be placed in various depth containers.



Sold as a Complete System and features the following:

By-pass system: two full flow ball valves allow critical ink control to the press print decks

Uniform mixing and viscosity control: achieved throughout the whole ink container by convenient adjustment of the by-pass ball valve while the pump is running. The by-pass also doubles as a flushing system during press clean-up.

Stainless steel hinged lids: allow the pumps to sit in any standard 5 gallon (20 liter) container.

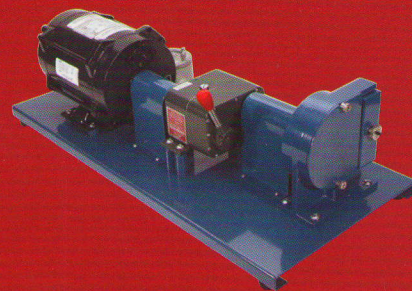
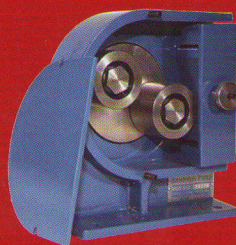
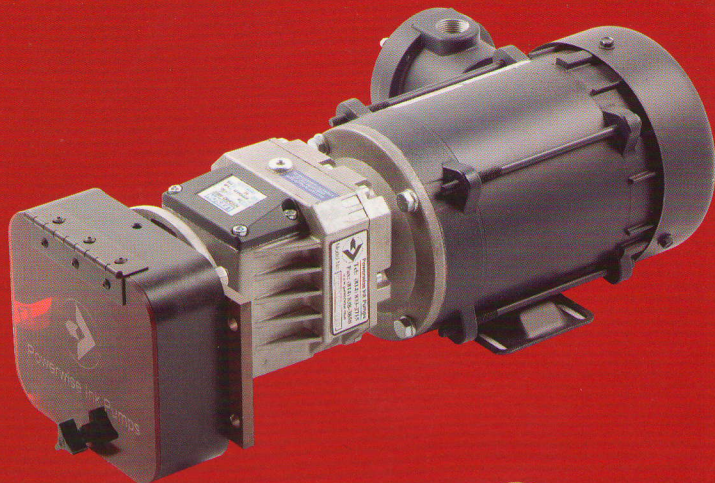
Stainless steel components: includes discharge pipe, rods, shafts, endplate and hardware. A delrin vulture is featured on the Trifugal models.

Motors include: UL and CSA rated explosion proof; EEx-e extended safety and EEx-d, explosion proof ATEX rated motors. Non-explosion proof and variable speed AC inverter controlled motors. All voltages are available in stock or by special order. Variable speed air motors for water based and solvent based liquids.

Other features:

- Complete Stainless Steel Pump End.
- 55 gallon (208 liters) drum pumps in air and electric.
- Gravure fast flow pumps with 1" (25mm) pipe work.
- ATEX rated Euro models and Canadian length models.
- Demountable pumps allow the motor to easily be removed from the pump end and placed on a clean unit. Saves on downtime! One motor with multiple pump ends.

Peristaltic Pumps



Powerwise peristaltic tube pumps are ideal for corrosive, abrasive and shear sensitive solutions. The pump design eliminates all contact of pump parts with the materials being transferred. A flexible tube passes through the pump head and is alternately compressed by a set of rollers, resulting in the flow of material through the tube. We have small flow rated pumps to very large flow pumps, as well as single head and double head pumps available. This versatile pump can be used throughout the printing plant.

Benefits and features:

- Quick and easy changeover
- Variable flow control
- Reversible
- Positive displacement
- Air or Electric

Accessories:

- Air driven mixers
- Tubing, choose from Santoprene, Prothane II, Silicone or Neoprene. (Others are available)
- Pump Carts and stainless steel tanks and lids
- Quick disconnect fittings

Which model is right for your application? Check your required viscosity range, press size, ink type and flow. Remember peristaltic pumps do not agitate the ink in the container and many printers use a small Powermix agitator.

Double Diaphragm Pumps

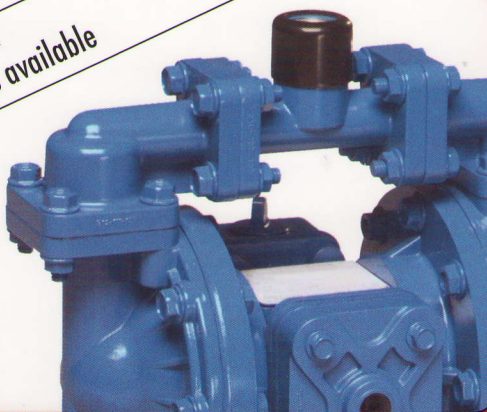
Air operated double diaphragm pumps are ideal for pumping abrasive, shear-sensitive materials, and high viscosity liquids.

- Seal less and self priming
- Variable speed by regulating the air supply for flow adjustment
- Runs dry without damage
- Deadheads against closed discharge, the pump simply stops working until discharge opens.
- Inherently explosion proof
- Versatile for solvent or water based varnishes, adhesives, coatings and thick inks.
- Multiple porting options

Accessories:

- A Surge suppressor will eliminate the pulsation inherent with all makes and models of Diaphragm Pumps
- Air and electric mixers
- Stainless steel lid and siphon tube

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Models available



Powerwise covers the following makes of diaphragm pumps for new models and spare parts: Warren Rupp Sandpiper, Yamada, Graco, ARO, Wilden, Versamatic, All-Flo, and Kelva.

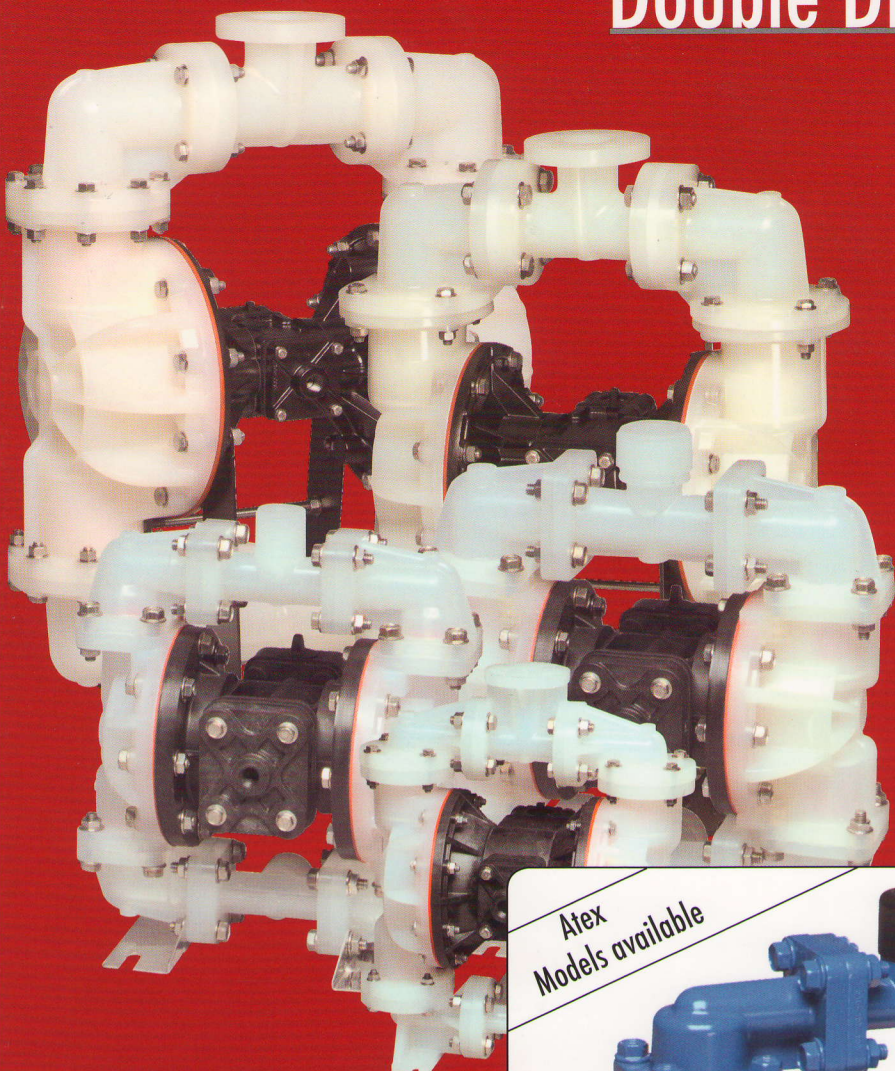
All Powerwise Diaphragm Pumps have a "Non-Stall Warranty." Models range from 1/4"(6mm), 1/2"(15mm), 3/4"(20mm), 1"(25mm), 1 1/2"(40mm), 2"(50mm) and 3"(80mm)

Stainless Steel Ink Tanks and Lids:

Quality stainless steel containers are fabricated to the highest standards with a mirror finish; tapered sides for stacking, castors and handles with the Powerwise interchangeable lid system. (The standard 12" (304 mm) lid used on all five gallon pumps fits onto the larger lid allowing the flexibility of removing the pump easily and using a different size container.)

10 gallon (40 liters) and 20 gallon (80 liters) are kept in stock. Powerwise have their own engineering team that can work with you to design a tank and system for your individual needs. Ask about our stainless steel pressure vessels or jacketed tanks for controlling heating and cooling of inks.

Powerwise has a wide variety of stainless steel lids that are manufactured to suit a standard centrifugal pump and by-pass mounting, mixers, peristaltic, diaphragm pumps and Viscosity Controllers.



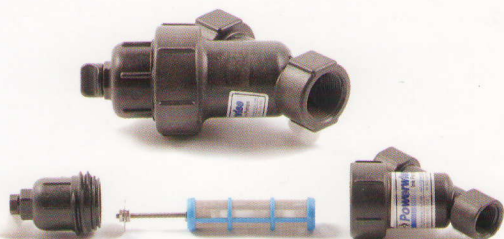
Filters

The Powerwise In-Line Filter system is suitable for Flexographic and Gravure printing. It is designed to remove dirt, dried ink particles, paper pulp, metal fragments and other such particles to prevent Anilox roll damage and improve print quality. The filter body is NYLON Coated for easy cleaning and is complete with a re-cleanable stainless steel basket, a rare earth magnet and cleaning sleeve as standard.

Seven basket sizes are available: 14, 30, 60, 100, 120, 150 and 200.

Powerwise can provide the printer with a full line of precision molded Polypropylene Y strainers from 1/2" inlet (12.7 mm) up to 1 1/4" (32mm) each sold with 20, 40 or 80 mesh stainless steel baskets and an optional rare earth magnet. They can be fitted in-line and are ideal for diaphragm or peristaltic pump users.

For maximum filtration use the Powerwise return line strainer with or without a magnet. (Powerwise can design and make any size and shape return line strainer to give you the maximum filtration for your system.)



Narrow Web Lo-Flow Pumps

A versatile range of electric and air pumps are supplied by Powerwise for Narrow web presses.

Centrifugal: Choice of NYLON coated column or Lo-Fugal three rod design featuring all stainless steel components and hardware; stainless steel lids; Polypropylene ink pails, 2 gallon (8 liters) or 3 gallon (12 liters) and mild steel.

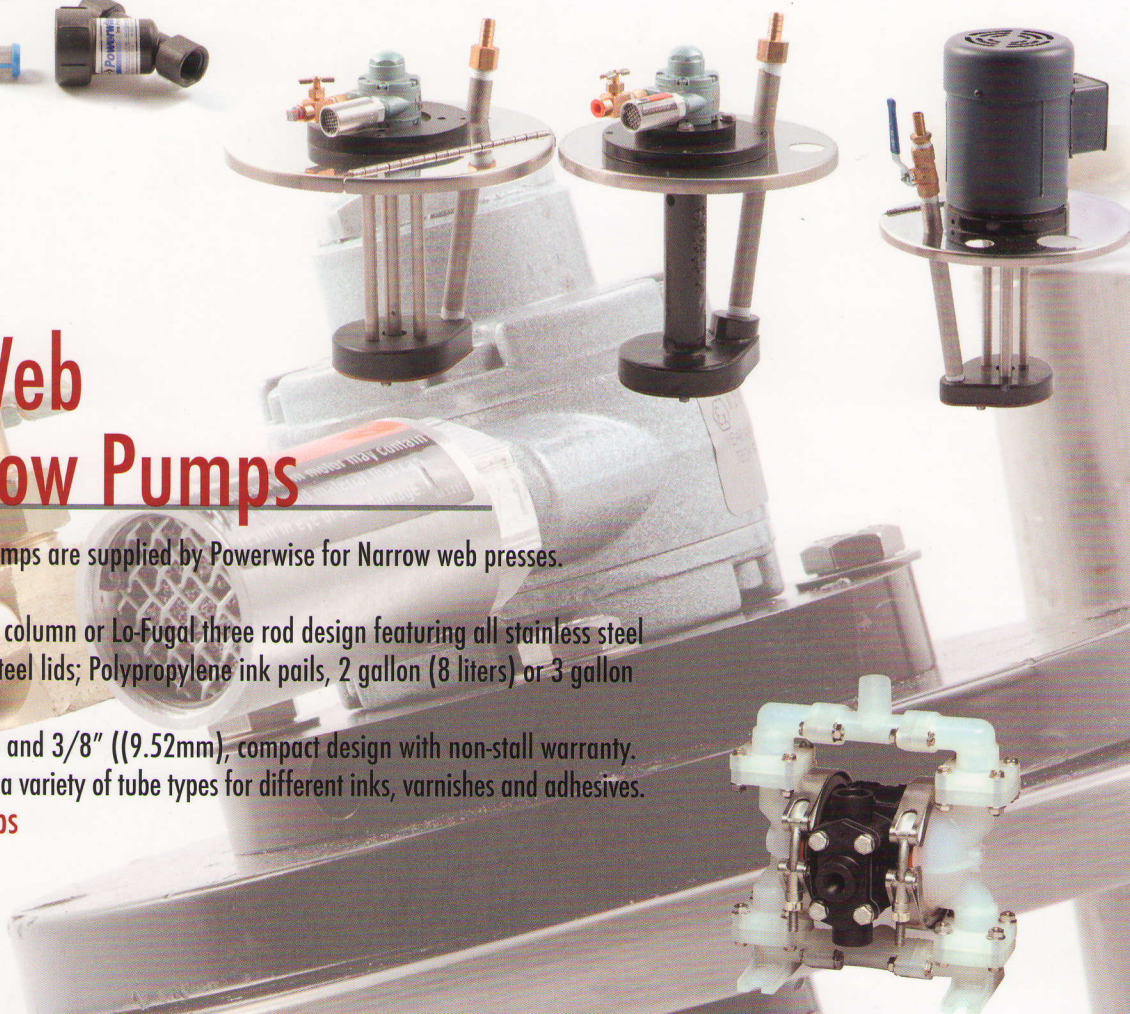
Diaphragm Pumps: 1/4" (6.25mm) and 3/8" (9.52mm), compact design with non-stall warranty.

Peristaltic, air and electric: Feature a variety of tube types for different inks, varnishes and adhesives.

5 gallon extended Lo-Fugal pumps

Accessories:

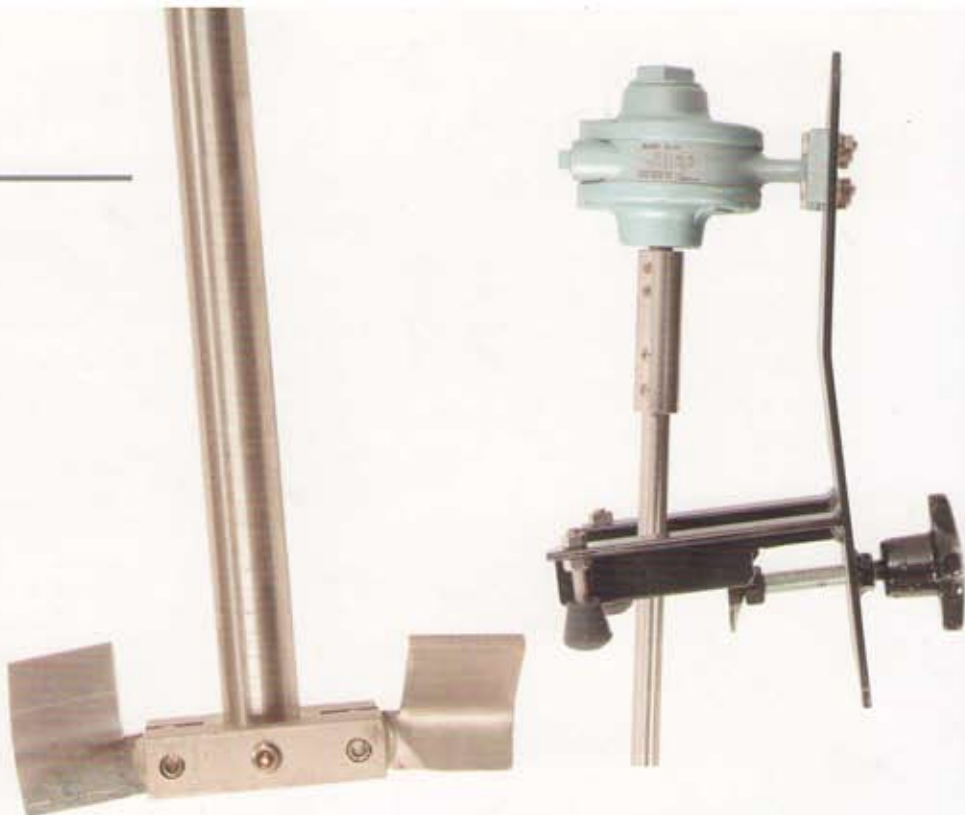
- By-pass System
- Stainless steel pails
- Y strainers and magnets



Mixers

With the use of Peristaltic and Double Diaphragm pumps printers are faced with the need to "move" the ink within the container. Powerwise offers the small Powermix agitator in air and electric versions. This functional mixer is sold with or without a stainless steel hinged lid. It can be mounted to a 5 gallon (20 liter) ink system or a larger tank. A stainless steel propeller and needle flow valve allows flexible or constant mixing.

Powerwise also supplies Drum Mixers for the ink room or press side mixing. A folding propeller fits through the standard 2" (50 mm) bung hole. The mixer is fitted with an adjustable clamp for open drum or closed drum mounting. Static propellers if required.



Accessories

Powerwise can provide your pump with the following accessories. Quick disconnects/Camlock fittings in brass, stainless steel or polypropylene for easy removal of hoses and filter units.

Pump Repair: Powerwise has trained personnel that can evaluate your air motors and diaphragm pumps. The air motor tool kit that we offer can be purchased to help you repair your own motors.

