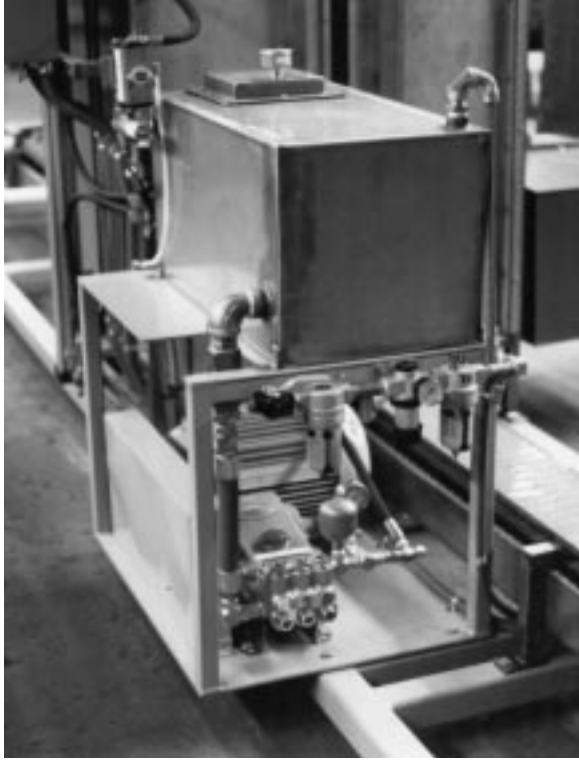


# APPLICATIONS PUMPS



Photos compliments of Air & Hydraulic Systems, Cookeville, Tennessee

## AUTOMATIC SCREEN CLEANING SYSTEM

File No. 222

### Section 6

#### PROBLEM:

Improve efficiency and worker safety during the cleaning of printing screens.

#### SOLUTION:

Combination of high pressure, high volume water with an enclosed, pneumatic rodless cylinder to carry the spray head in a reciprocating motion, assuring fast, efficient and consistent cleaning while improving worker safety.

#### SPECIFICATIONS:

CAT PUMPS Model ..... 1050  
 Pressure ..... 1800 PSI  
 Flow ..... 12 GPM  
 Temperature ..... Ambient  
 Fluid ..... Water  
 Duty Cycle ..... Intermittent  
 Drive ..... 15 H.P. Electric

#### OPERATION:

Cleaning printing screens has been an undesirable and somewhat hazardous job.

The old method applied chemicals at low pressure with two diaphragm pumps, then rinsed with high pressure clear water. This manual method was slow, unsafe and messy and resulted in poor worker moral, high employee turnover and high workman's compensation claims. Production was at capacity with only 30-40 screens cleaned in an 8 hour shift.

The new method incorporated a special pneumatic spray head, enclosed the cleaning operation and automated the process to minimize the contact the workers had with the chemicals. Worker safety was considerably improved, worker turnover was reduced and workman's compensation claims declined.

#### BENEFITS:

- Improves production between 50% to 65%.
- Cleans approximately 80 screens in an 8 hour shift.
- Reduces employee accidents and turnover.
- Reduces water and chemical consumption.
- Offers greater cleaning flexibility.



A special reciprocating nozzle head provides total coverage for a variety of screen sizes.

*“Customer confidence is our greatest asset”*

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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*The Pump with "Nine Lives"*

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