

# APPLICATIONS PUMPS



The dual CAT PUMPS deliver to the spray booth to assure sufficient flow and acid treatment.



## OPERATION:

This Canadian company manufactures a variety of farm equipment. They had a totally automated assembly line except for the by hand process of acid washing and rinsing production parts, which was causing a real bottleneck in their operation. After some evaluation of the situation, a spray booth was designed to replace the old time-consuming hand method. Two CAT PUMPS were installed; one for the acid application, the other for rinsing.

As the equipment advances along the overhead conveyor through the spray booth, oscillating nozzle arms move up and down and side to side to assure complete coverage with the acid. After the acid is applied, the parts are rinsed with clear water and proceed to be dried and painted. The acid is recycled and goes through special filters to purify it for the next application.

With the new spray booth, the assembly line runs much smoother. There is no tie-up of parts at the point of phosphatizing, they have better coverage and they have reduced production expenses. In addition, the dual 1044 pumps are available for other pressure cleaning functions and with a sandblast attachment, provide wet sandblasting for deburring and other surface preparations.

## PHOSPHATIZING FARM IMPLEMENTS

File No. 121

Section 4

### PROBLEM:

To find a more efficient method of applying phosphoric acid and rinsing afterward.

### SOLUTION:

Add to the manufacturing assembly line, a spray booth featuring CAT PUMPS high pressure pump for acid application and rinse.

### SPECIFICATIONS:

CAT PUMPS Model (two) .....	*1044 S.S.
Pressure .....	500+ PSI
Flow (each) .....	10 GPM
Temperature .....	Ambient
Fluid .....	20:1 Water and Phosphoric Acid
	Clear Water Rinse
Duty Cycle .....	Continuous
Drive .....	Electric

\*Alternate CAT PUMP model 1051 plunger pump or 822 piston pump.

### BENEFITS:

- Faster automated process to complement the balance of the production line.
- Better application of acid.
- Reduced operating expenses.



There are several arms in the spray booth. Low pressure and high flow is best for this acid application.



This conveyor load of parts has been treated with acid, thoroughly rinsed, dried and is now heading for the paint booth.

*“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

Aug 1999 8940

## **World Headquarters**

### **CAT PUMPS**

**1681 - 94th Lane N.E. Minneapolis, MN 55449-4324**

**Phone (612) 780-5440 — FAX (612) 780-2958**

e-mail: [sales@catpumps.com](mailto:sales@catpumps.com)

[www.catpumps.com](http://www.catpumps.com)

## **International Inquiries**

**FAX (612) 785-4329**

e-mail: [intlsales@catpumps.com](mailto:intlsales@catpumps.com)



*The Pump with "Nine Lives"*

## **CAT PUMPS (U.K.) LTD.**

1 Fleet Business Park, Sandy Lane, Church Crookham, Fleet  
Hampshire GU13 0BF, England

Phone Fleet 44 1252-622031 — Fax 44 1252-626655

## **N.V. CAT PUMPS INTERNATIONAL S.A.**

Heiveldkens 6A, 2550 Kontich, Belgium  
Phone 32-3-450.71.50 — Fax 32-3-450.71.51

e-mail: [cpi@catpumps.be](mailto:cpi@catpumps.be) [www.catpumps.be](http://www.catpumps.be)

## **CAT PUMPS DEUTSCHLAND GmbH**

Buchwiese 2, D-65510 Idstein, Germany  
Phone 49 6126-93030 — Fax 49 6126-930333  
e-mail: [catpumps@t-online.de](mailto:catpumps@t-online.de) [www.catpumps.de](http://www.catpumps.de)