

APPLICATIONS PUMPS



POTATO CLEANING

File No. 127

Section 1

PROBLEM:

Clean mud off potatoes being transferred from the field to the sorting station.

SOLUTION:

Install high pressure cleaning system using a CAT PUMP.

SPECIFICATIONS:

CAT PUMPS Model	*1010
Pressure	700 PSI
Flow (2 per nozzle)	12 GPM
Temperature	Ambient
Fluid.....	Water
Duty Cycle	Continuous
Drive	7.5 H.P. Electric

*Alternate CAT PUMP model 390 piston or model 1050 plunger pump.

OPERATION:

Potatoes are coated with mud when brought in from the fields. Before they can be routed through the sorter, they must be rinsed. In this particular operation, a special cleaning chamber containing a series of six overlapping nozzles was developed. Each nozzle delivers ambient water at 2 GPM, 700 PSI for a total of 12 GPM.

The potatoes are delivered to the cleaning chamber in baskets which are dumped onto cleaning chamber rollers. These rollers are covered with felt to protect the potatoes from bruising. As the rollers tumble the potatoes, the high pressure rinse washes off the mud. Once the potatoes are cleaned, they are sorted on a long conveyor for further processing.

BENEFITS:

- More effective cleaning than by previous hand cleaning method.
- Significant reduction in water consumption.
- Drastically reduced labor costs.
- Dual service available with high pressure pump: stationary cleaning chamber, as well as portable pressure washer for other farm areas and equipment.

“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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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

www.catpumps.com

International Inquiries

FAX (612) 785-4329

e-mail: 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 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 www.catpumps.de