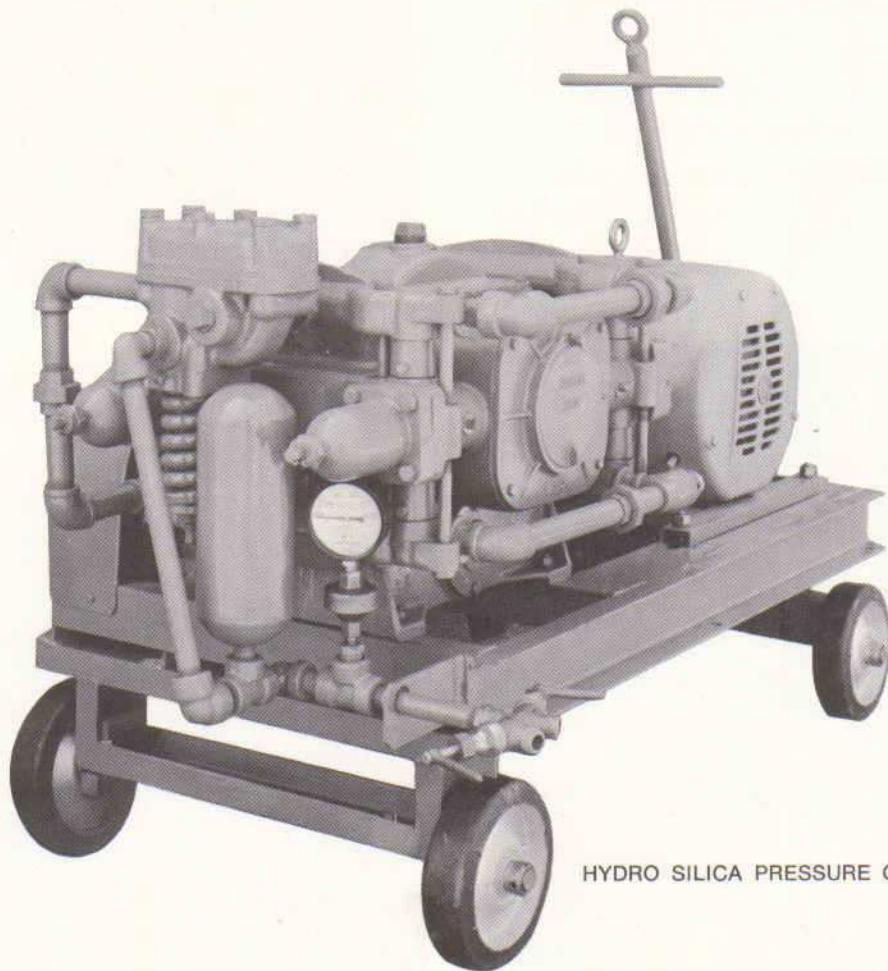


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# REPORT TO FOOD PROCESSORS

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This report is to inform the canning and food processing industry how leading plants are using the Hydro to solve their many cleaning problems. Plant superintendents everywhere tell us of their success with the Hydro in high pressure cleaning. The report specifically tells how one food processor is using the Hydro in a wide variety of cleaning operations. The pictures tell the story. We invite you to study this report and then let us demonstrate how the Hydro can be of value in your plant.



HYDRO SILICA PRESSURE CLEANER

**HYDRO SILICA CORPORATION · GASPORT, NEW YORK 14067**

**Phone 716-772-2651**



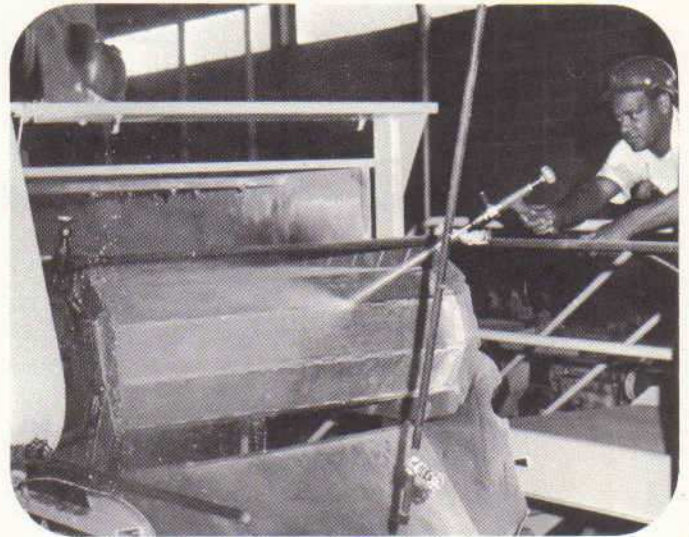
CLEANING BEAN BAR GRADERS

### CLEANING MACHINERY

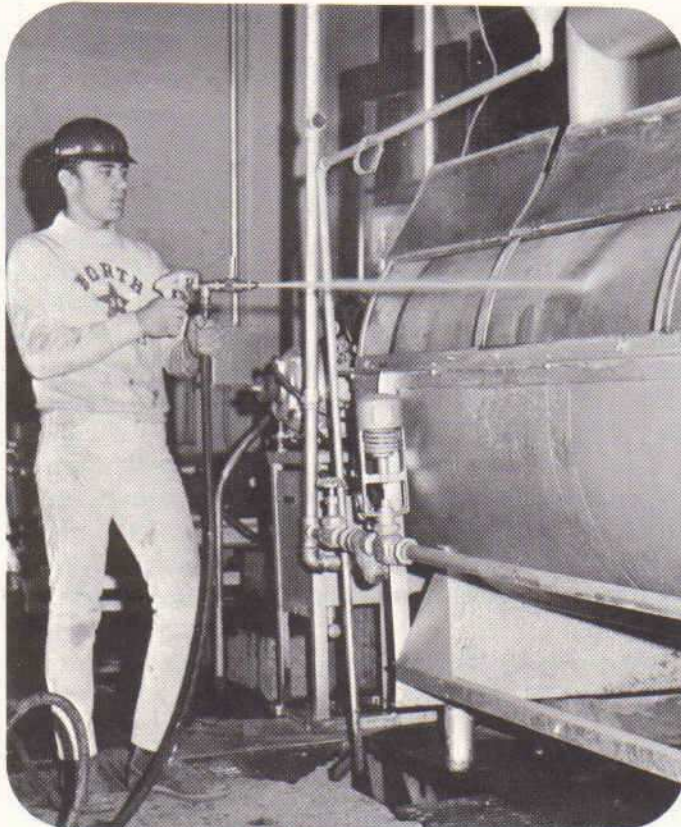
Your maintenance personnel will effectively scour places that you previously found impossible to clean without tearing down the machine. Any surface that is now being cleaned slowly and expensively by hand, or by low-pressure liquid streams, will be cleaned quickly at a small fraction of previous costs. The Hydro method has solved the most expensive and troublesome problem in a food processing plant—cleaning of equipment.

## THESE ARE TYPICAL CLEANING OPERATIONS IN A LEADING FOOD PROCESSING PLANT

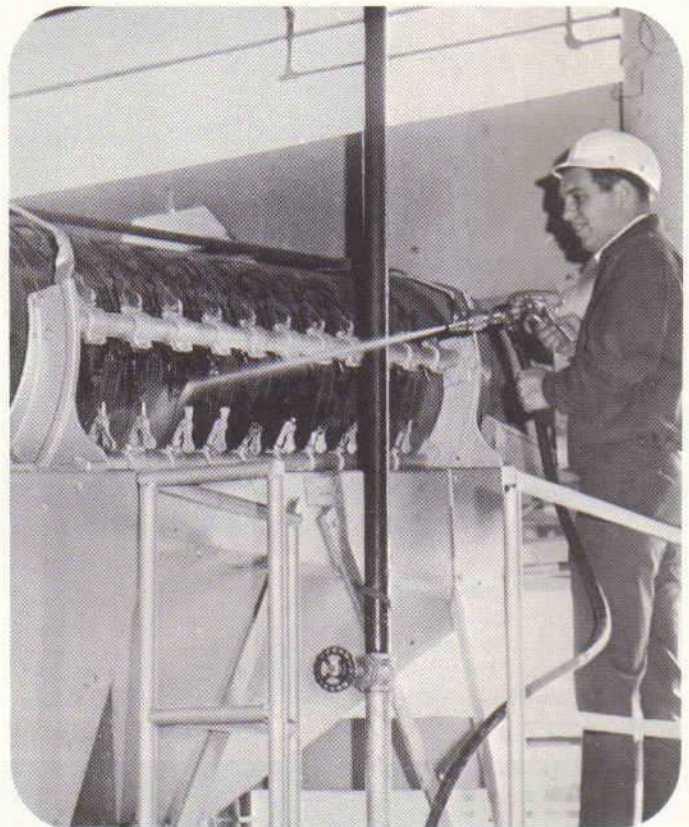
In showing these photos we attempt to demonstrate the wide variety of cleaning operations possible, using the versatile Hydro Silica cleaner. Reports tell us of savings as high as 90% of previous cleaning costs. The savings in labor, water and more effective cleaning can quickly pay back the entire cost of a Hydro cleaner.



CLEANING CORN BLANCHERS



CLEANING ROTARY BLANCHERS

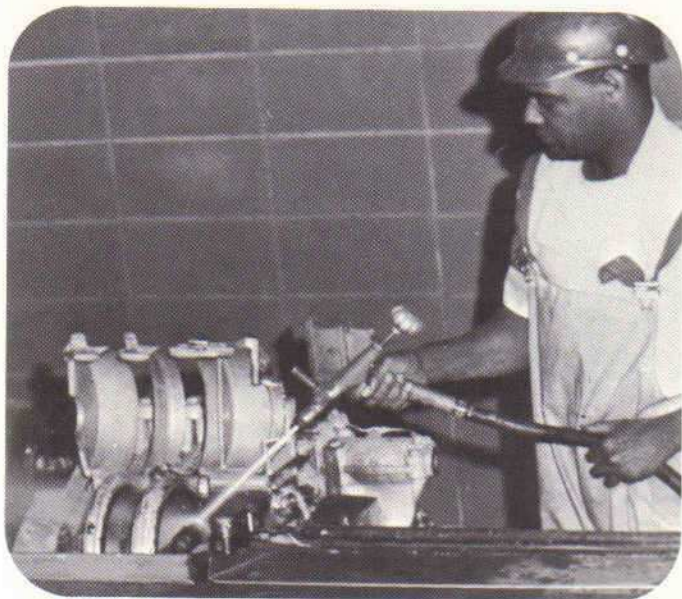


CLEANING BEAN SNIPPERS

# CLEANING JOBS IN PROCESSING PLANT

## NO JOB IS TOO HARD

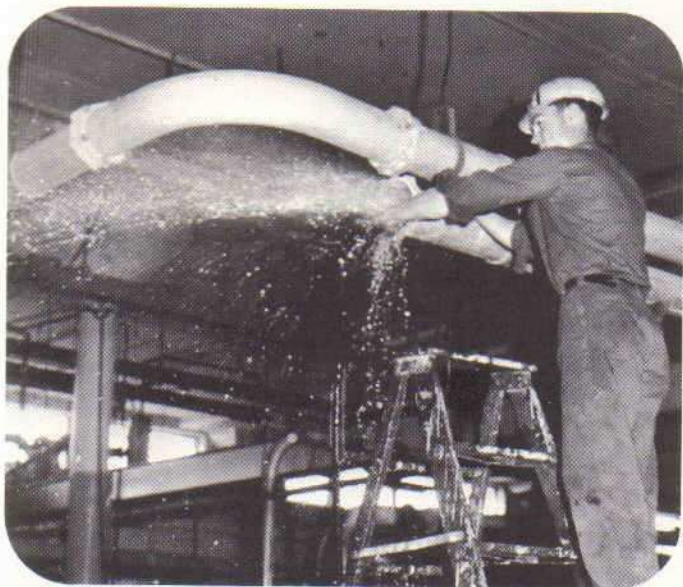
Any material that clings to machinery or other equipment is scoured off by the Hydro in a fraction of the time needed by other methods.



CLEANING CORN CUTTERS

## CLEANING TUBING AND PIPING

Here a difficult job is solved by using the Hydro Silica self-propelling pipe cleaning nozzles. Available in various sizes the nozzle pulls itself through as it cleans — does a good job at the end of 200 ft. of hose, after turning a right angle corner.



CLEANING TUBING

## SAVINGS TO YOU

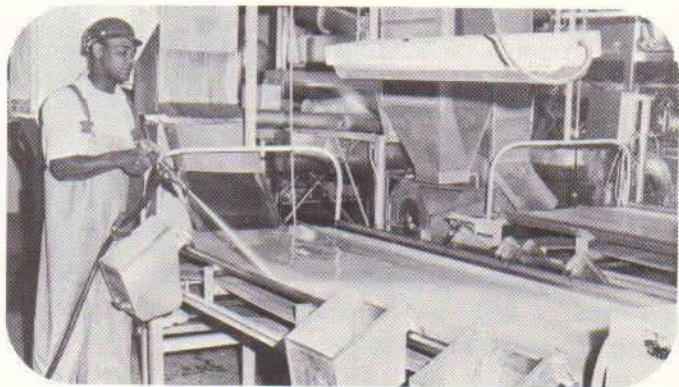
The Hydro saves labor costs by cleaning 10 to 15 times faster than previous methods. High pressure cleaning in addition, makes a big saving in water required. You know what water costs your plant. Pressure is cheaper.



CLEANING FEED HOPPERS



CLEANING GOOSE NECKS



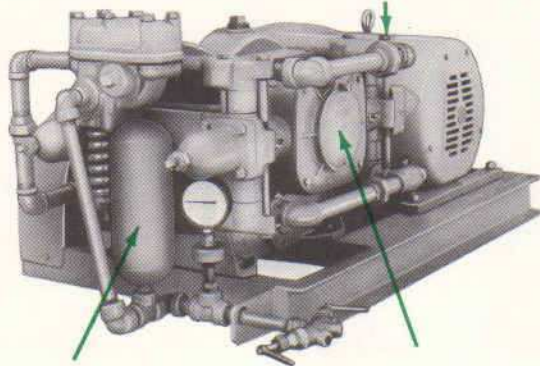
CLEANING INSPECTION TABLES

Feel free to consult us on any cleaning problem—we're always glad to help. Our unmatched experience in food processing cleaning is yours for the asking, without any obligation.

You are welcome to a demonstration. Nothing convinces like actual performance. You will really appreciate the time-savings when you see them in your own plant. Tell us when you're ready.

# The SAFETY STANDARD of the Hydro Silica Cleaner is equal to its Operating Efficiency

Manifolds 41% heavier than on cleaning pumps of similar type, and secured by 4 bolts instead of 2—giving more than double insurance against warping, and gaskets blowing out.



ASME code pressure tank, burst-tested at 5000 psi—5 times the maximum working pressure of the Hydro Silica pump, more than meeting ASME pressure vessel code requirement.

1/4-inch larger diam. Timkens on the main drive crank-block bearing—assuring you of still better dependability for service without interruptions, and longer life of the bearing without replacement.

This is the pump that meets the most exacting safety requirements when using full 1000 psi pressure for your toughest cleaning jobs.

You're sure of RELIABLE equipment from Hydro Silica Corporation, originators of air-water high pressure cleaning, inventors of the HS.Venturi gun used for most cleaning, and the HS self-propelling nozzle that cleans piping and tubing.

Other pumps of Scotch yoke type are similar in appearance to the Hydro Silica pump, but when you compare Safety at High Pressures you realize the difference.

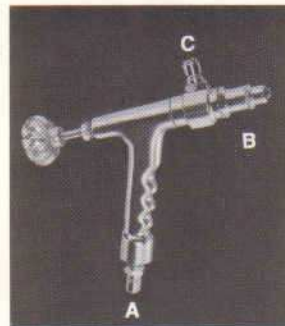
Designed and constructed with extra strength where needed the Scotch yoke type pump is reliable for high pressure service. It has fewer moving parts than other high pressure pumps—no crankshafts, connecting rods, or wrist-pins; no plunger caps or cylinder lining. No wear on the cylinder walls, as the plungers do not touch.

The Hydro Silica pump operates for years with trifling upkeep cost. Valves and packing are easy to get at for cleaning and adjustment. Packing is kept just tight enough to prevent leakage, by adjustment at end of cylinder.

A dependable piston-type automatic pressure controller keeps the pump delivering water at any pressure for which you set it.



Hydro Silica Pump with electric motor, mounted on a 4-wheel cart.



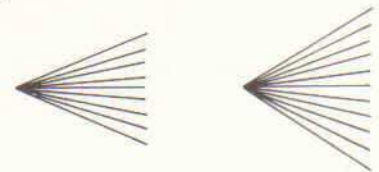
Hydro Pistol Grip Gun

Hydro Silica cleaning unit includes a gun that mixes air and water—at the instant of discharge.

How it works: Water at high pressure enters the gun at "A", passes through a small jet, discharges at the tip through a larger jet, "B". This creates a partial vacuum in the gun body, drawing air into the gun through opening "C".



Spreader Cone for fan spray



Gun can be shut off at any time without stopping the pump—the pressure controller's overflow valve automatically opens.

A stream exactly suited to each job is obtained by the Hydro Silica system's positive control over two factors:

(1) **Water Pressure.** The piston-type automatic pressure controller delivers water to the gun at the exact pressure needed, up to 1,000 psi.

(2) **Stream Pattern.** By a twist of the wrist, the operator can instantly get a wide cone for delicate equipment, or solid stream for hard cutting.

## CLEANING TUBING



The Hydro Silica TUBE CLEANING Nozzle, at the end of a high-pressure hose from the pump, pulls itself through the tube as it cleans.

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