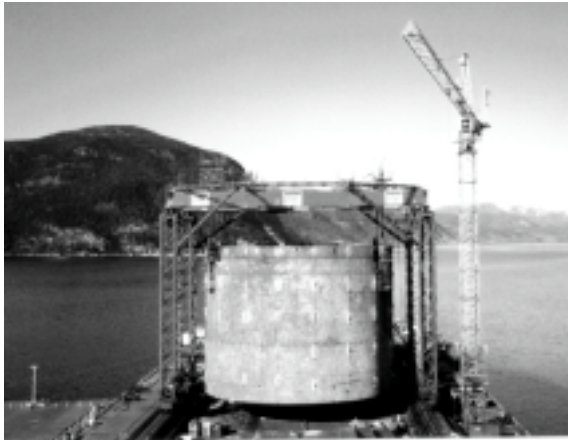


# NEWSBLAST

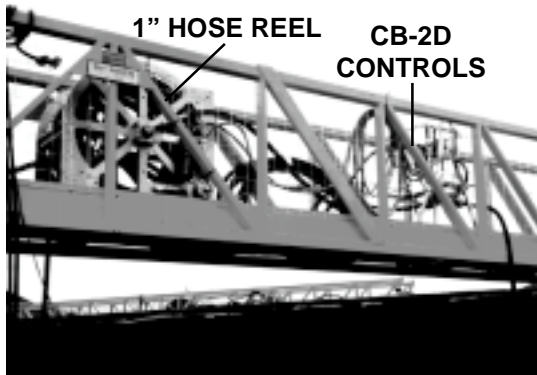
August 1999

## Oil Rig Decommissioning the Clean Way!



Oil-producing seas are loaded with offshore rigs of many kinds - drilling, production, gas compression, processing, and storage - which need to be decommissioned when they outlive their usefulness. This giant crude oil storage facility is such a case. It went into service in 1972 in the North Sea, and became famous due to environmental concern about its disposal.

In spite of approval in 1995 of deep sea disposal by the UK and several other West European governments; intense environmental pressure forced plans to change. The rig was ultimately towed to a fiord, where facilities were built to decommission, clean and disassemble it.



1" HOSE REEL

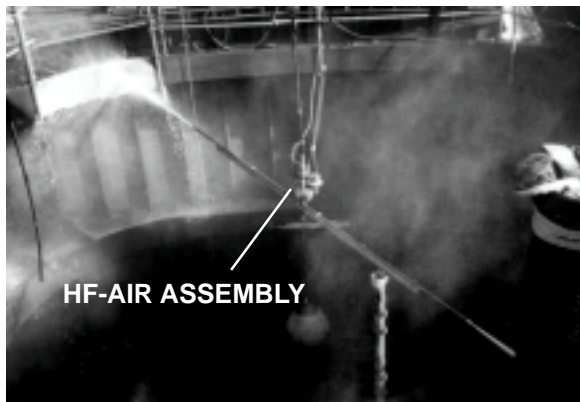
CB-2D CONTROLS

Nortech Systems Limited in Scotland, turned to StoneAge for waterblast equipment for the cleanout, which is currently underway by Denholm Industrial Services. A pneumatically-operated hose reel stores hose and lowers a rotating cleaning unit, that itself is based on the **HF-Air Rotating Assembly** in the 1999 StoneAge Catalog. Other tools used include the **BJV-M Self-Rotating Nozzle**. Nearly 100 gpm flows were

provided at 10 Kpsi to develop jets strong enough to project cleaning power over the distance needed for this large vessel.

The effluent water is collected and processed to remove contaminants before being discharged. The waterblast activities are but one part of the huge engineering effort required to move the platform, disassemble it, and reuse sections to build a quay.

Thanks to StoneAge distributor Brian Storie at Nortech for this story.



HF-AIR ASSEMBLY



The new StoneAge website offers complete product information on the world-wide web. The most current datasheets are all there, with easy links to communicate with us by e-mail. You can also order a printed copy of the catalog from the website!

### August WJTA Conference

Visit our booth in Houston, August 14-17, for the Waterjet Technology Association's "10th American Waterjet Conference".

At the conference StoneAge will present a study on waterjet nozzles and jet power at large standoff distances. Selecting the right nozzle, and controlling inlet turbulence can make a huge difference in productivity at long standoff distances. We conducted 260 tests over a period of 3 months to develop practical guidelines for customers' use. Summary results follow on next page.



1979 - 1999  
20 Great Years!

Thanks to our many friends in the waterblasting business, whose direction and support has resulted in 20 great years. A lot has changed in this dynamic business over the years. New tools are developed, and old ones become obsolete. Call for a copy of our 1999 Catalog if you don't already have one. © 8/99



**WATERJET TOOLS**

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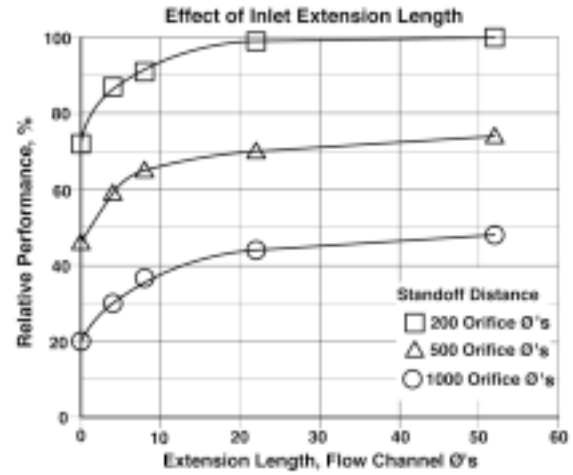
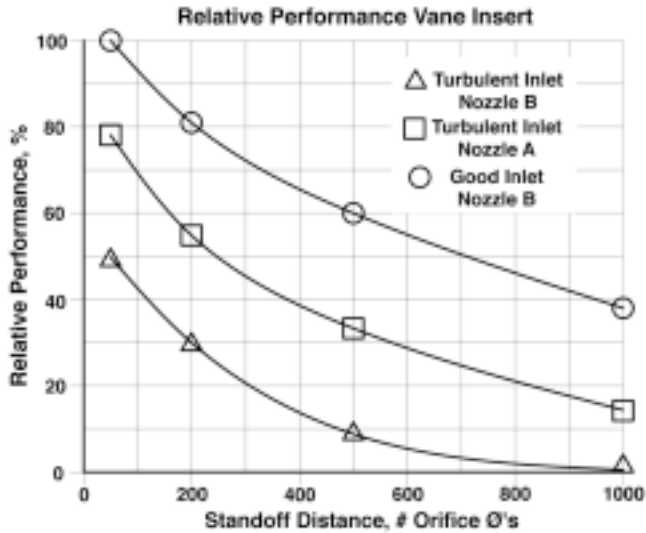
<http://www.stoneagetools.com>



# Nozzle Performance in Rotary Applications - Summary

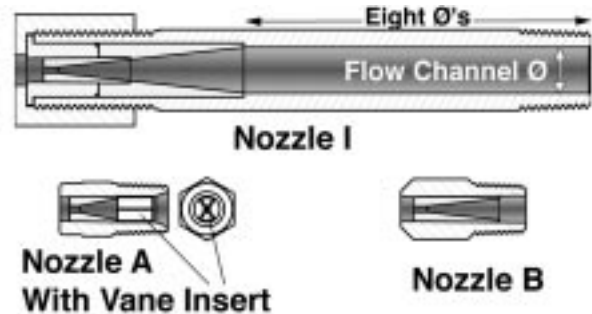
Nine different nozzle designs were tested. The three best are discussed below. Call us for a copy of the complete paper.

Nozzle performance depends greatly on inlet conditions. Any abrupt change of flow direction, or velocity creates turbulence and diminishes jet power. Waterjets lose power as standoff distance increases - approximately 35% is lost 500 orifice diameters away from the nozzle. The loss grows to as much as 60% with turbulent inlet conditions. At greater standoff, controlling turbulence can mean as much as a ten-fold increase in cleaning power.



extensions due to space limitations. That's when a vane insert can be most helpful. A single vane insert improved nozzle performance by 40%, a level still 25% below that with good, non-turbulent inlet conditions.

Nozzle comparisons made with good, non-turbulent inlet flow, show Nozzle "I" to be the best performer of the ten tested. This design uses a long converging cone, and inlet extension 8 diameters long, with ID closely matching the cone inlet. With good non-turbulent inlet flow, Nozzle "B" performance was almost equivalent to "I". With turbulent inlet flow, Nozzle A proved to perform substantially better than any other nozzle due to its effective vane insert. In fact, even with good non-turbulent inlet flow, Nozzle "A" performed within 10% of the best.



Turbulent inlet flow is common in the industry because of practical access situations that limit the size and geometry of jetting tools. Four techniques for improving inlet flow conditions were tested - inlet nozzle extensions, vane type insert, screen, and cone inserts. The screen and cone inserts were not effective at the conditions tested, but are believed to be more effective at higher flows. Most effective were extension nipples which provided a straight flow inlet to the nozzle. A length equivalent to 20 flow channel diameters provides over 90% of the maximum possible improvement. Of course, it is not always possible to use

## New Tools



**WH & WG 085 Super Centralizers**  
For the **Warthog Sewer Nozzles**, lines bigger than 6 in. diameter, where severe blockage is present - the **Super Centralizer** is ready! By keeping the **Warthog** back a few inches from the plug, the front jet does a better job.



**2-D BJV-H Nozzle Very High Flow**  
This new model of StoneAge's most popular tool handles up to 175 gpm at 10 Kpsi for thick deposits, large vessels or boiler cleaning. Like other **BJV** models, all the standard heads and centralizers fit the **BJV-H**.



**SH Swivel**  
Because our customers asked for it, this new hose handling swivel was developed. It only weighs 1 lb 14 oz. with 1/2 npt inlet and outlet ports. It handles up to 60 gpm at 15 Kpsi with only 13 in-lb of torque. It is the ideal hose handling swivel for shotgun operations.

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**Barracuda  
Shotgun Nozzle  
One Tool  
5,000 to 20,000 psi**

## New Seal Holder Design

The new **Barracuda Shotgun Nozzle** appears to be performing extremely well for our customers. They like the light weight and power derived from leak-free seals and controlled rotation. But the high

pressure seal holder broke too easily. The part has been redesigned to solve this problem, and replacement parts were sent to all users. Call us if for some reason you have not yet received the new parts.

## Trade Show Highlights



**Brenda Cundiff, Mark House,  
& Scott Hardy at Nashville**

**Line Mole  
Backout  
Preventer**

**Floor  
Cleaner**

**Rigid  
Tube  
Lancing**

We like to feature as many of our tools and systems as we can at these shows, and visit with the many waterblast pros that stop by our booth. It's a great chance for us to learn what works, what doesn't, and what new tools are needed. There's always something new to learn, and we have a great time with old and new friends in the process!

The show is scheduled for February 17-19, 2000. So plan to see us there if you can.

## Seen in Action



StoneAge distributor Mike Richardson (**O'Connell Jetting**) and customer **A & C Striping** on Whidby Island, WA. With his Butterworth 20 Kpsi pump, StoneAge **SG-50** Hydraulic-powered rotating arms, and proprietary equipment; **A & C Striping** keeps the Navy's runways in tip top condition! The **SG-30, 40 and 50** models have proven to be effective and economical in runway cleaning and other surface cleaning applications.

## Pumper/Cleaner Environmental Expo - Nashville, Tennessee

To Right  
Brenda Cundiff  
welcomes StoneAge  
distributor Buck Oubre  
(**LaPlace Equipment**)



StoneAge distributor **Dynjandi, Ltd.** in Iceland represented by Aslauger Einersson, Hretina Njalsdottir & Steindor Gunnlaugsson, Gunnar Hognason, Arni Einersson (**AA High Pressure Ltd.**)



**The Salotech Team** - Back - Michael de Regt, Arco den Hollander, Ingeborg Kiljan, Arie van de Lagemaat - Front - Salomon de Snaijer, Erwin van der Wulp, and Dirk Visser

## Industrial Maintenance Conference Rotterdam, Holland



StoneAge was well represented at this important European show by distributor **Salotech International**.

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## WATERJET TOOLS

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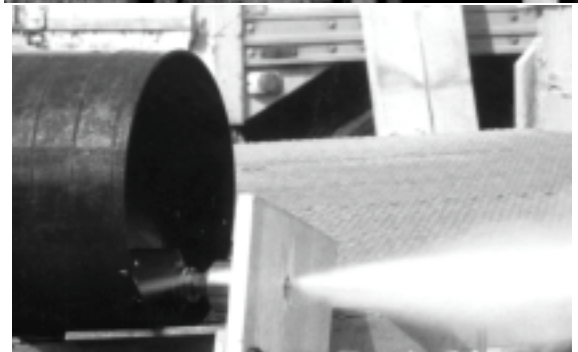


## Concrete Demolition Attachment

This system, new last year, continues to perform well for users. At the recent Nashville show, we talked with a customer who prepared an overpass over Interstate Hwy 70 near Denver for re-paving. One customer tore down a vertical wall in Iceland using the **CDA**, and another removed 3" off a floor while people worked in an office below.



## Warthog Sewer Nozzles



### Introducing New Employees



**Peter Schoenberg - Quality Assurance**



**William Hall - Inventory Control**

StoneAge's commitment to responsive delivery and top quality tools is enhanced by addition of new employees above.

We are frequently asked if the **Warthog** will really cut roots. Of course the answer depends on many factors like pump power, line size, and nature of the roots. This 1/2" **Warthog**, at 4 Kpsi and 18 gpm cut a neat hole in the 1x8 pine board in less than a minute. The water coming out the other end of our test "sewer" illustrates the powerful scouring action of the back jets that both clean and propel the nozzle down the line. We still hear a great deal of enthusiastic customer response on this tool. The rotating head of the 1/2" model is now available in aluminum, saving 2 lb weight compared to stainless steel. Some users report that the aluminum option allows the tool to pull more hose than with the stainless steel head. © 8/99