

## Huntingdon Fusion Techniques

# Continuous development

**T**he Argweld® weld purge monitor is robust but truly portable, weighing a mere 200gm. It has the ability to measure oxygen levels accurately down to 0.1% (1000 ppm) but will indicate down to 0.01% (100 ppm).

It is supplied with its support equipment in a custom-designed protective carrying case and features temperature compensation, continuous or sample reading and a self-calibrating function.

Removal of oxygen from the region around the joint is essential if high quality welds are to be produced. Various techniques are in use for eliminating oxygen and purging using argon is one such possibility.

Whichever method of oxygen removal is used however there remains a need

Huntingdon Fusion Techniques has launched its MkV version in the popular range of Argweld® gas measuring equipment for use in monitoring oxygen content during welding. The new model is technically more advanced than its predecessors and is the most cost-effective in the global market, the company claims.

to monitor residual gas levels accurately before and during the welding operation. Some metals are more sensitive to becoming discoloured or contaminated due to the presence of oxygen: stainless steels and nickel alloys are particularly prone to this.

## Improvements to titanium purge monitor

As part of its policy of continuous development Hun-

tingdon Fusion Techniques has introduced design changes to its titanium purge monitor, an instrument targeted specifically at measurement of residual oxygen content in purge gas during welding of titanium and other alloys which are sensitive to contamination.

The changes reflect an increasing customer requirement for easier operation and interpretation and are principally directed at software improvements. They include better interfacing with the Microsoft Windows™ operating system, including 98, ME,

2000 and XP, improved data logging and graphics and efficient communication with the welding power supply.

The embarrassment and expense of dropping tools or leaving debris down holes or in pipes during maintenance can often be

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ring with subsequent operations. Huntingdon Fusion can manufacture these stop-

**Stoppers up to several metres in diameter**

pers up to several metres in diameter and can also produce non-circular sec-

**Design changes to the HFT titanium purge monitor**

tion devices to meet specific customer requirements.

prevented by using inflatable plugs. Huntingdon Fusion Techniques has extended its range of 'pipe stoppers' which are simply inserted and then inflated to seal the hole entry.

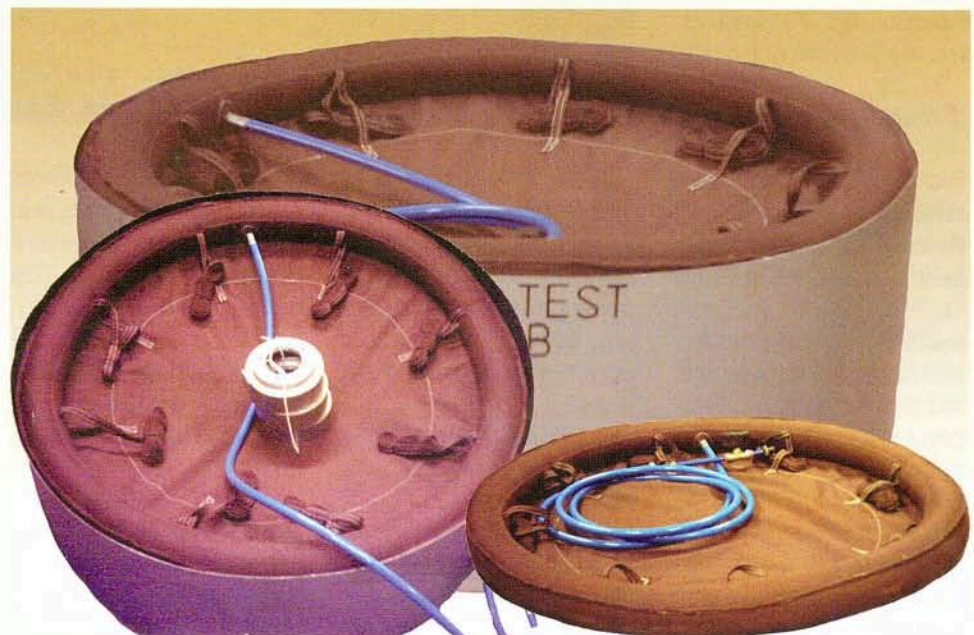
One of the earlier applications for this innovative product was a UK naval dock-

HFT manufactured the stopper with safety ties so that in the event of the stopper collapsing and falling down the hole it could be retrieved. Additionally a skirt was incorporated around the periphery so that any dust and debris would not fall into the crevice between the vessel wall and the edge of the stopper.

Power generating companies have standardised on inflatable stoppers to prevent dust and particulate material falling into the turbines when repairs are undertaken. A number of pipeline companies use the stoppers to seal off pipelines at night or at the weekend to inhibit vermin and other animals crawling into the pipes and interfe-

**Pipestopper debris stopping**

yard faced with the task of preventing debris weighing up to 1kg falling into the nuclear power plant during maintenance. The stopper had to be fed through a 600mm aperture and then inflated to seal a 953mm diameter vessel.



**Pipestopper debris stopping**