

# FLUID CONDITIONING SYSTEMS



removing the barriers to fluid cleanliness

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

FCS continues to update its web-site with new applications, fuller versions of all of the case-studies in this Newsletter are included

## Magnum™ wins in machine tool



North American Magnum™ Distributor, Universal Separators helped a powertrain manufacturer in Rockford, IL to install a 5" HT Magnum in the coolant line in a broaching operation. In the photo to the left a broaching tool is shown as it is removed from the machine coolant prior to the Magnum installation. In the second photo the same contaminants are shown captured by the Magnum™.

The small metal fines produced by machining processes collect in the machine coolant. As the coolant absorbs the contaminants, these fines begin to act as a lapping compound, abrading the machine tool. This leads to shorter tool life, more frequent machine shut downs for tool sharpening and a loss of precision machining accuracy. The Magnum™ has proven to be an effective and highly cost effective way to remove very small, highly damaging contaminants that cannot be removed by any other method.



## Magnum™ goes nuclear

A Magnum™ has been installed in the Steam Generator Blow Down sample line in the Temelin Nuclear Power Plant, Czech Republic.

The core to the left clearly demonstrates that the Magnum™ has removed a large quantity of debris from the system, prior to the installation of the Magnum™ this debris would have continued to circulate (much of it less than a micron) through the conventional filtration. This hard and sharp particulate would have been responsible for a chain reaction of wear that would cause erosive wear on all valves and static parts of the system.

The engineer manager of this section of the plant believes that the Magnum™ has substantially improved the operation of the specified sample line, this is common sense in view of the state of the contaminated core!

## FCS offers full support...



FCS has developed a range of support materials to assist at customers' shows and events. These include banners (see image to the left), targeted marketing brochures and importantly targeted presentations for the machine tool, injection moulding, and gearbox markets. Please contact your FCS representative for further information or to book the stands for your show.

## Win a bottle of champagne...

No matter where you are in the world FCS will give you a bottle of champagne to thank you for any case-studies that you submit to FCS for distribution. Case-studies are to contain economic benefits. The bottle will be shipped with the next order that FCS receives from the partner.

