

FLUID CONDITIONING SYSTEMS



removing the barriers to fluid cleanliness

Please join us at our next OPEN DAY at the FCS Offices in the UK on November 25th. It's a great opportunity to discuss new applications and learn more of the Magnum's key markets

Magnum™ in Norwegian high tech EDM plant

Aarbakke is a manufacturer of speciality downhole equipment for the offshore industry, including all major oil companies. The factory itself is state of the art with orange trees in the main manufacturing area to monitor air quality. Terje Selbach of Aventi Norge (email post@aventinorge.com), the Norwegian Magnum™ distributor, installed a Magnum™ Clear Process Unit to an EDM machine, used to machine exotic materials including superduplex titanium. After only a couple of minutes contaminant was visible on the core.

Aarbakke has since placed a Magnum™ Process Unit on the centralised fluid cleaning system (on the clean side) and is introducing Clear Process Units to each machine to minimise downtime.

The Process Unit has cleared more than 100kg of superfine contamination. Presently it requires cleaning every week at which time 2-3 kg of fine contamination is trapped, in fact the level of very fine particulate on the clean side of a filtration system that initially cost millions of NOK has been quite a surprise. A trainee has been put in charge of servicing the units as part of his general training.

Aarbakke has specified the Magnum™ on all new machines for speciality tooling operations, this will reduce consumable costs and improve reliability dramatically.



Sweet taste of success

The UK Sugar Beet Industry, processing circa 10 million tonnes of raw material a year and supporting some 20,000 jobs, is highly seasonal with processing campaigns typically lasting between September and March.

Following the early stages of the sugar production cycle (cleaning, slicing and initial extraction by diffusion) the residual vegetable material is mechanically pressed to extract as much remaining sugar as possible. The pulp press gearboxes driving the process are absolutely critical during this continual operation and it is essential that they remain reliable due to the extreme cost of downtime.

As part of an ongoing drive to ensure/improve this, a major UK manufacturer has installed a Magnum™ Process Unit on the lubrication circuit of one of their Pulp Press Transmissions thus offering significantly enhanced protection. Early results are highly encouraging and FCS now targets Magnum™ to a wide range of gearbox applications throughout the wider sugar industry.

Magnum™ saving pumps again...

Ricomix Oy, a Finnish manufacturer of parts for Wartsila Diesel, has used a 5" HT Magnum™ Unit to protect the high pressure cutting fluid pump and tools in an Okuma CNC lathe. This project was managed by Magnum's Finnish distributor, ROTEC Engineering OY, email jorma.johansson@qnet.fi

Prior to installing the Magnum™ the company had lost two pumps, since installing the Magnum™ they have had no problems. Neither of these points are a real surprise when we see that the core to the left was removed after only 8 hours, it contains about 200g of contaminant but the flow channels remain entirely clear. This minimal back pressure created by the Magnum™ makes it the only economic fine filtration for the suction side of the pump.

Ricomix is presently installing Magnoms on all of their machines.

