



WATER TREATMENT


DOUBLE SUCCESS

with Hydra-Cell pumps in South Korea

Engineers at the Seonam water treatment plant in South Korea scored a double success when they replaced leaking screw pumps with seal-less Hydra-Cell pumps on a desulphurisation process. They cured the leakage problem - they also reduced power consumption by 50%.

The screw pumps were injecting a mix of water and MgO₂ + hydrogen peroxide into the process, for disinfection and deodorisation. System operating pressure is only 8 bar. However, the screw pumps could not satisfactorily handle the MgO₂ abrasives carried in the liquid. Premature seal wear caused external leakage (see photo 2). And pumping efficiency declined as wear increased, with cumulative waste of energy.

Since installing the Hydra-Cell G25 pumps (photo 1) there have been no more leaks. So with Hydra-Cell's pumping efficiency

consistently above 80%, energy costs of pumping are halved. Moreover, seal-less design and simple build minimise maintenance, reducing both cost and frequency of parts replacement. The net effect is to keep the Life Cycle Costs of the pumps extremely low. Operational advantages have also been noted at Seonam. Flow is smooth and stable, accurately controlled by varying motor speed. And the pump can run dry without damage. More information at www.wannerint.com 

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PHOTO 1.
Hydra-Cell G25 seal-less pumps at Seonam.



PHOTO 2.
Abrasives were a problem for screw pumps.