



A higher level of performance

## Application Reference

# Reliable sonar bed level technology for coal mining thickeners, monitoring bed level height and water clarity



### Application problem:

The customer had used a sonar system that would only work when the thickener settled well. As soon as there was a change in settling characteristics, with an increase of suspended solids, the sonar would not detect the bed level, but showed a high level.

### Solution:

The original sonar was a high frequency transducer and only designed for clean water treatments plants. High frequency sonar sensors are very good for light densities only.

Hawk installed a low frequency sonar transducer, complete with an automatic sludge cleaner, that penetrated the suspended solids and operated off the heavier density bed level.

The sludge cleaning mechanism has a factory guarantee. The sonar also provided a second output, that monitored clarity of the water, as feedback to how well the flocc chemical dosing was operating. Cleaning mechanism are also available for surface boom scrapers.

Hawk manufactures the largest range of sonar transducers, to provide optimized performance for all bed level density applications.

### Ordering information: (complete system)

Part no: OSIRDYX-OSIRT007S4XC6-OSIRMEEL3-OSIRSC A

### Application guaranteed!

*Hawk is a world leader in level, position and flow measurement, providing cutting edge equipment to the global industrial market. We have 30 years of experience and a record of success in a wide range of areas including mining/mineral processing, water supply/waste water, bulk material handling and chemical. Our ongoing commitment is to provide industry leading technology and cost effective solutions.*



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