

- CLASSIFICATION
- DESANDING
- DEGRITTING
- DESLIMING
- THICKENING/DEWATERING
- SOLIDS REMOVAL

- HYDROCYCLONES
- MULTI-GRAVITY SEPARATORS
- TEST RIGS
- LAB MINERAL SEPARATORS

- SPARES & SERVICE
- TEST WORK

CONTACT DETAILS

SALES & PROPOSALS

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SPARES & PROJECTS

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PRODUCTION

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WATER REUSE SC2009 A US Client of long standing, producing industrial chemicals and catalysts, wanted to separate their washing product from water for reuse in their system. They were already using our 2" Hydrocyclones in another part of the plant and a SC2009, (9 way, 2" Hydrocyclone canister) was the size most suitable for their present need.

ALL LINED UP IN ITALY

Four, 4 way in-line 2" Hydrocyclone packages treating chemicals have now been commissioned. Two of the key requirements from the group, to whom we have provided Hydrocyclones over many years, was separation efficiency and easy maintenance.



Each Hydrocyclone is fitted with an isolating valve so that individual Hydrocyclones can be taken off-line during planned maintenance periods.

WATER QUALITY IN WESTERN AUSTRALIA This client needed a very specific quality of water from the effluent treatment. After sending the client predictions they ordered six SC2024 canisters, each holding 24, 2" extended Hydrocyclones, to treat a total of 450m³hr of primarily clay and fine silica slurry.



EXPORTING TO CHINA A longstanding client operating in China wanted to upgrade the 2" equipment supplied by us in 2012 and we have just despatched a 30 way 2" Mushroom Assembly complete with stand and launders. Each Hydrocyclone vortex finder was fitted with a ceramic extension to further reduce residue in the product.

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NOT FORGETTING TEST EQUIPMENT

A SCTR2 Test Rig, complete with a range of Hydrocyclones up to and including 5 inch has been supplied to Uganda for a government run mining laboratory. We have also recently supplied SCTR1 Test Rigs to the USA, UK, Australia, Morocco France and Sweden, plus a SCMG1 Multi Gravity Separator to Turkey and SCLMS, Lab Mineral Separator to Japan.

TESTING TIMES

Our laboratory has been busy undertaking testwork on various samples with our Hydrocyclone test rigs, Multi Gravity Separator (MGS) machine and Laboratory Mineral Separator. We are happy to test materials of all types and sizes but tend to focus on materials where it's more difficult to predict the performance of the cyclone.



A good example is separating mixed plastics, an ever increasing need in today's world of recycling. We received a mix of granulated plastic pieces of PP/PE and PS and using our 10" stub Hydrocyclone over a series of

tests made effective separations.

Another example of testwork using 2" and 5" stub Hydrocyclones has been to investigate the concentration of heavy metals in contaminated sand.

Successful MGS trials were undertaken on a sample of chlorinator blowover, which was a mix of titanium oxide, silica and coke contained in an aggressive ferric chloride solution. Two sets of testwork were undertaken one with and one without a deslime of the MGS feed. With this sample desliming proved to be most efficacious producing high grade and overall good recovery of titanium dioxide in the MGS concentrate, making this product suitable to be returned to the chlorinator.

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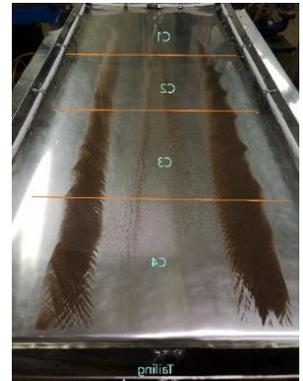
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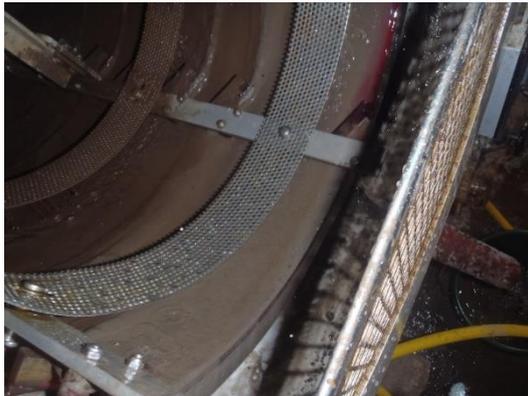
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A valuable precursor to MGS testwork, our Laboratory Mineral Separator (SCLMS) is a very useful tool to assess the amenability of materials to gravity separation, providing indications of achievable grade and recovery. Recently we tested metallurgical process tailing.

Only a small mass of sample is required and it takes 1-2 minutes to run it across the table. Based on a visual assessment the table is stopped and the sample remaining on the deck is divided into fractions as shown in the photograph. Each discreet fraction was removed from the deck,



dried, weighed and analysed for elements of interest. Tailing was also collected and analysed.



Once the chemical analysis of the SCLMS products was completed we

proceeded to undertake an MGS trial. The scoping run of this trial gave very promising results. The photograph shows a very distinct separation with a nice clean concentrate.

We had unexpectedly good results classifying glass fibres in a filtrate using a 2" cyclone. Fibres can get "confused" in the cyclone due to their two very different dimensions, but with a recent sample they 'behaved well' and we had success separating larger from smaller! What helped was the use of a portable particle size analyser enabling us to make adjustments to the cyclone geometry as the trial progressed.

SPARES

We can offer a full range of spares for Hydrocyclones, Test Rigs, Multi-Gravity Separators and Laboratory Mineral Separators. Please contact our Spares Manager, Lyndon Collier.

lyndon.collier@saltercyclones.com.