

CONTACT DETAILS

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

- HYDROCYCLONES
- TEST RIGS
- LAB MINERAL SEPARATORS
- MULTI-GRAVITY SEPARATORS
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REPEAT PRESCRIPTION – thickening effluent

A UK company wanted to thicken the effluent from treating Hectorite and bentonite. The company hired an SCTR1 test rig and 1 inch hydrocyclone for a 2 month on-site trial. The results confirmed that our one inch hydrocyclone would offer the greatest separation efficiency. This led to discussions about installing a hydrocyclone system in their process to deal with the filtrate.

The solution was for the one inch hydrocyclones to be packaged as a Radial of 5, 21 way one inch canisters. We also sent a similar designed Hydrocyclone radial, to the client's company in the USA, earlier in the year.



The canisters, which are bottom fed are arranged around the central overflow collection vessel.

They in turn are circled by one underflow collection launder giving the client a very efficient, compact and space saving solution.

MINIMISING ATTRITION

We were asked to support a client concerned about attrition of solids. A sample of fines gravity feed slurry was tested in a closed circuit by pumping continuously to a ten inch Hydrocyclone to quantify the generation of fines. This resulted in the supply of an 11 way radial fitted with Salter Cyclone high performance SC1030, 10 inch Hydrocyclones. The feed is abrasive so ceramic spigots will be provided.



On another part of the site a 10 way 5 inch Hybrid Hydrocyclone Mushroom Assembly has been supplied to thicken a Hydrosizer overflow.



The underflow solids content was adjusted to provide optimum operability and separation performance. There is no need for operator intervention making this an economic solution without compromising efficiency.

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TUNNELLING

Lynn and Viv visited a client in Germany testing our 4 inch and 5 inch hydrocyclones which were being used to maintain the drilling mud and remove the cuttings on a 4 km long tunnelling site. We have been involved with the tunnelling industry for many years supplying 10 inch, 5 inch, 4 inch and 3 inch hydrocyclones which are operated with "fishtails" instead of spray reducers.



The performance and wear life of hydrocyclones is critical in this situation and ours have been proven time and again on many of these tunnelling projects. This part of the rail tunnel has now been completed.

INDONESIA

The client needed a 60 m³/hr hydrocyclone system to remove solids from seawater prior to a chlor-alkali process. The optimum selection was an 18 way 2 inch canister with stand and launder.



Another client wished to treat just over 168 m³/hr of seawater intake to a demineralisation plant. Photos show two 2 inch Hydrocyclone 24 way Assemblies with stands and underflow launders and the 18 way assembly crated and ready for despatch.



SOMETHING DIFFERENT



A company cooking and processing cockles has hired one of our 4 inch hydrocyclones to effectively remove very fine sediment sand found in the wash water from a drum washer.

TEST RIGS

We have sold six SCTR1 Test Rigs worldwide in the last six months, 3 of which have been to Australia, covering industries such as power, mining and mineral processing.



REPLACE



Don't forget 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 for prices and lead times. lyndon.collier@saltercyclones.com.