

Muds, Soils and Fines – The Mobile Solution

Recovery and dewatering of fine materials remains an ongoing problem for the aggregates industries.

Settlement in tanks and lagoons take time and space which is a luxury which is often not available to a modern fast acting aggregate recycling company.

MSE Hiller centrifuges can operate at speeds equating to between 2,000 and 4,000 x g which not only means that the separation takes place quickly but that the solids discharge is high in solids and the liquid clean and clear.

Mobile and Separation Equipment Limited (MSE Hiller), offer a range of mobile and permanent dewatering centrifuges which can process slurry feed flows from 1 to 150 m³/hr.



Typical solids discharge



Cleaned water for re-use.

MSE Hiller offer mobile solutions which are compact, highly automated, trailer units which require minimal operator intervention with fast hook up times and with the use of modern mobile electrical generators means that they can be used almost anywhere.



Typical 40 ft trailer mounted mobile processing 30 t/hr of feed material.

In addition to trial and rental units, MSE Hiller can provide permanent installations which can also be retrofitted into existing sites to supplement existing dewatering capacity.



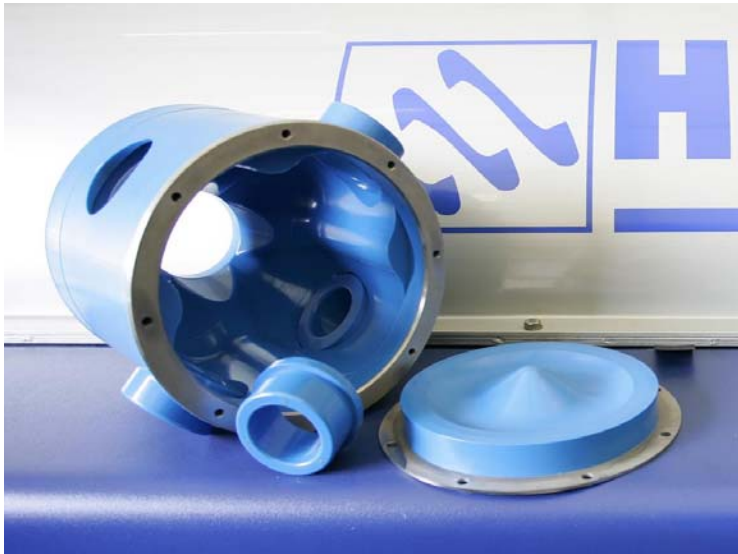
Typical permanent centrifuge installations for recovering solids and muds.



Photograph courtesy of BP Mitchell, Welwyn Garden City

MSE Hiller centrifuges carry state of the art wear protection to ensure high availability, extended service intervals, long machine lifetimes and low maintenance.

Proven in the tunnelling and drilling industries the range of wear protection available include:- Tungsten carbide hard facing, sintered tungsten carbide tiles, silicon carbide tiles, ceramic tiles, Bushes – ceramic, adiprene, sintered tungsten carbide and silicon carbide.



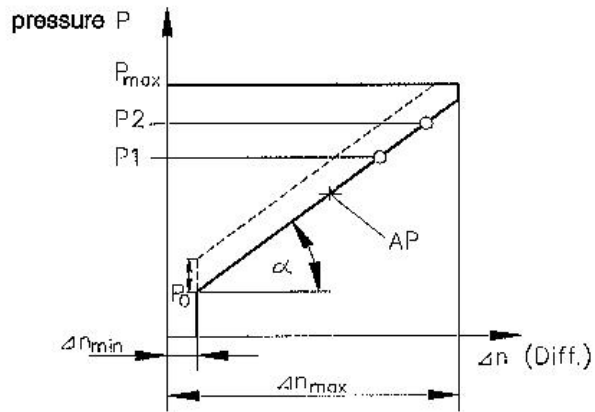
Typical feed entry chamber for abrasive wear protection

Variable Feed Loads and Centrifuge Control

The HMR5000 controller is a control unit which has been specifically designed to control the modern centrifuge and takes control of the adjustment of the unit's differential speed to maintain and optimise process performance and act to prevent blockage.

The unit monitors the scroll speed and associated pressure from the scroll (which is directly proportional to the solids loading of the feed material coming into the machine) and varies it according to the following graph:-

Pressure Control Point



Sharp increases or variations of loadings in the waste material will thus lead to an increase in pressure inside the machine and the controller responds accordingly to maintain an optimum process performance and prevent blockage.

Using the modern controller, the centrifuge can be totally automatic and requires the minimum amount of operator intervention and maintenance.

Further information and details available from –

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