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Introduction



Company Profile

Founded in 2001 MSE Hiller are a leading name in the supply and rental of centrifuges for solid/liquid separation and sludge dewatering applications. We work with the leading names in Industry to install state of the art centrifuge technology.

Our equipment comes in a range of sizes and designs to suit your requirements and offers the advantages of minimal installed space, high performance and a reliable continuous process.

All our centrifuges are designed to be robust, reliable and offer a low cost of ownership.

When your machine needs back-up the MSE Hiller service team is here to help. Our experienced service staff cover most makes of centrifuge, and are supported by a fully equipped UK service facility.

Our equipment and technologies are used in various industries including:

- | | |
|---------------------------------|---------------------------------|
| AD | Oil |
| Aggregates | Petrochemical |
| Automotive | Pharmaceutical |
| Bio diesel | Plastics Recycling |
| Biogas | Potato Starch Processing |
| Chemical | Sewage Treatment |
| Drilling | Tunnelling |
| Food & Beverage | Vegetable Oil |
| Fruit Juices | Waste Water Treatment |
| Mineral Muds & Soils | Water Treatment |



Installations



High Performance Centrifuges

Centrifuges are used globally for the high performance separation and dewatering of suspensions in industries ranging from food production to waste water treatment. The current range available offers models from 0.2 to 150 m³/hr. Hygienic designs are available for food and pharmaceutical production. Three phase Decaoil models are used for the separation of oil from water and solids. Custom built, complete turnkey project installations are available from MSE Hiller to meet regulatory and your particular site requirements.

- **Decanter centrifuge capacities from 0.2 to 150 m³/hr.**
- **High torque designs**
- **Electrical, hydraulic or gearbox scroll drive systems**
- **Fully automatic**
- **Low operator / maintenance requirement**
- **High performance**
- **Food grade & CIP designs available**
- **ATEX Explosion proof designs**
- **Energy efficient designs**
- **Three phase Decaoil® Solids-Oil-Water Separation**



Long or short term

High or low capacity

Whether your requirement to hire is long or short term, high or low capacity, the MSE Hiller range of mobile sludge dewatering plants can help.

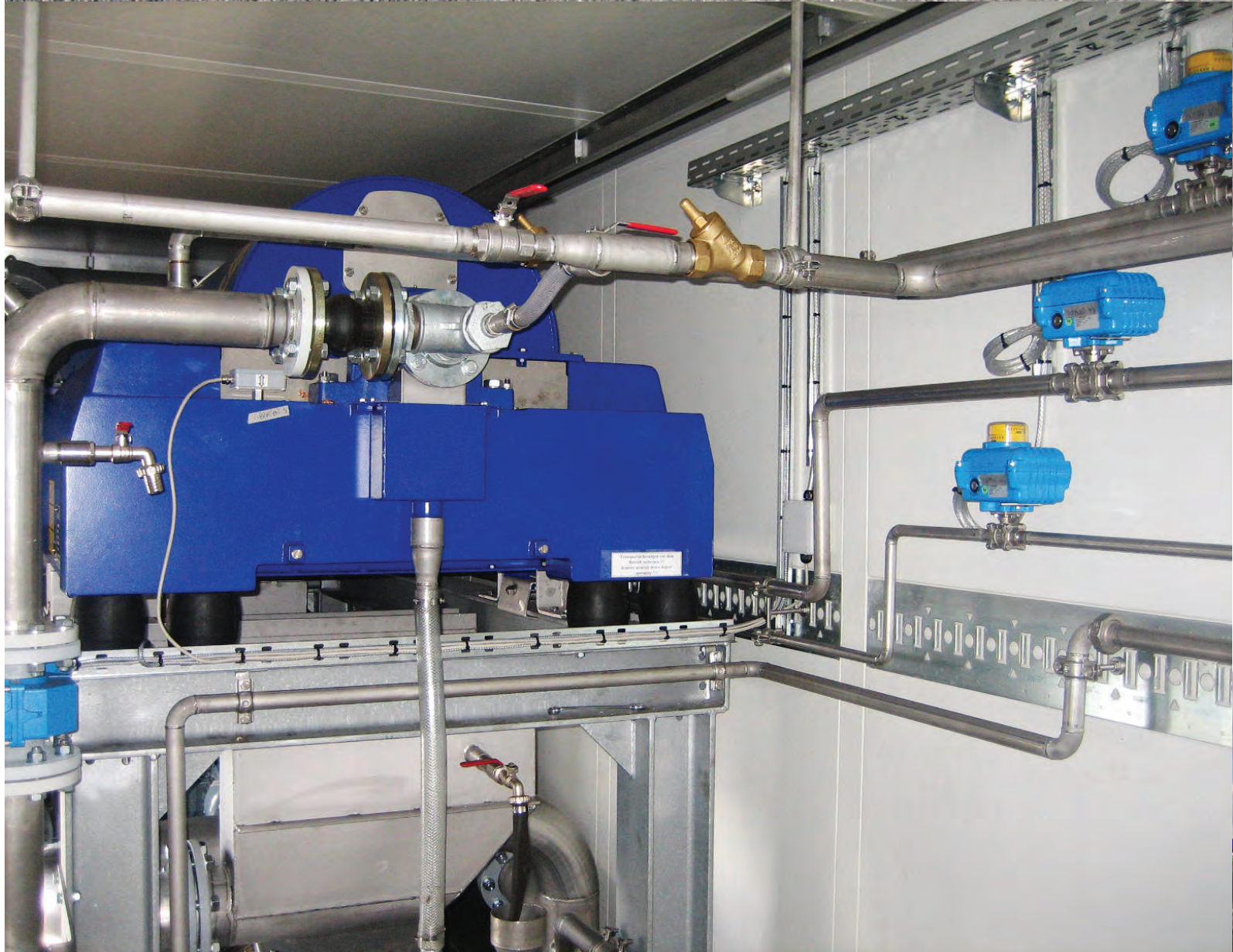
The range covers dewatering duties from 1 to 120 m³/hr

Depending upon customer and site requirements, systems are available from skid mounted rigs and trailer mounted units to single machines and rotating assemblies.

Plants are compact and fully automatic allowing for ease of installation and operation, combined with a high reliability and dewatering performance.

A full range of ancillary equipment is also available including pumps, generators, pontoons, road crossings, holding tanks, conveyors, and lime stabilisation plants.

- **Seasonal or peak loadings**
- **Digestor cleaning**
- **Pond / lagoon emptying**
- **Liming / composting / pathogen kill**
- **Testing new production techniques**
- **Breakdown coverage**
- **Routine maintenance coverage**



On-Site Testing



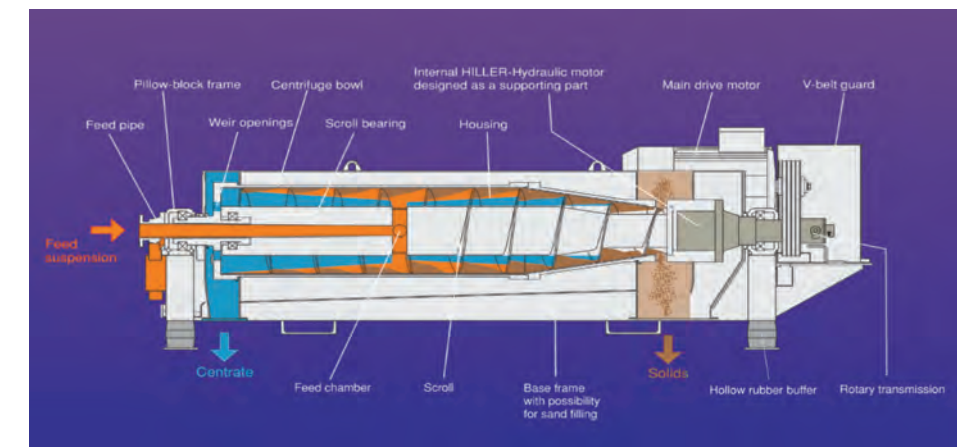
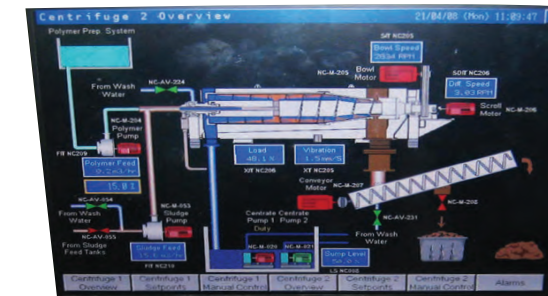
Unsure whether this is the **Technology for you?**

Then the smaller 0.2 to 25 m3/hr plants are available for pilot trials at customers' site. The units are easy to install and include all the necessary ancillary items such as pumps, pipework, polymer dosing system, control panels etc.

Some recent industries tested include – Algae, Bio Energy, Dairy, Food, Chemical, Pharmaceutical, Tannery, Fruit Juice, Biodiesel, Vegetable oil, Paper, Petrochemical, Potato, Poultry, Power, Sewage, Starch, Clean Water production, Waste transfer stations, Distillery Waste....

Control and automation

All our equipment has a remote monitoring facility, and can be monitored and controlled via SCADA, HMI, Ethernet, Profibus and Profinet type Systems.



Polymer makeup systems



Robust and Reliable

Polymer make-up and dosing systems

MSE Hiller offer a full range of robust and reliable ancillary equipment which includes Polymer make-up and dosing systems, Support Stands, Control Panels, Pumps, Conveyors (Belt and Screw), Acoustic Enclosures, Pipework, Flowmeters, Chemical in line dosing, pH monitoring and Polymer Optimisation Systems.

- Liquid polymer make up units 0.5 to 120 kg/hr.
- Powder polymer make-up units 1 to 100 kg/hr
- Fully automatic, giving precise dose concentrations
- Accurate dosing – reduced costs
- Small foot prints
- Compact designs
- Centron Polymer Optimisation Systems

Control panels house the latest in control drives frequency inverters and PLC control logic to ensure that you get the most out of your polymer.



Modern engineering service



Rapid, reliable and

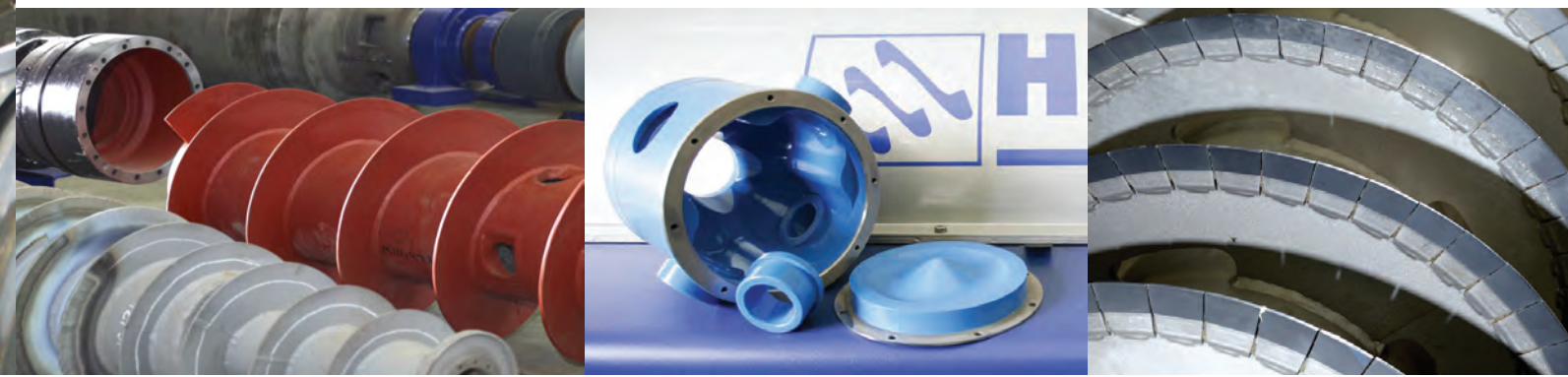
Trustworthy response

Service - Whichever centrifuge you operate, the MSE Hiller service ethos provides you with a rapid, reliable and trustworthy response. Whether it's a routine service or a breakdown, our experienced engineers can be relied on 24 hours per day 7 days a week. We offer a full range of preventative maintenance packages to suit your needs.

Repairs - All age and types of machines are catered for. Scroll repairs, re-tipping or complete reflighting, addition of wear protective coatings, tiles, bearing replacements, machining and dynamic balancing is all done to the highest quality and brings the machine back to its original manufactured tolerance.

Spare parts - A large number of parts are held in stock. Wherever possible original parts are used direct from the suppliers. All parts are fitted by our own experienced centrifuge engineers. Cyclo gearboxes, planetary gearboxes, hydraulic, back drive, whatever the drive arrangement you have, MSE Hiller have the experience to offer the service you need.

On Site Services - Many repairs can be completed at the customers' site. However it doesn't end there, our re-commissioning service means that every machine is put back into operation and run on process and annual service / maintenance contracts are available to ensure your machine stays in a good condition.



Depackaging Equipment



Recovering Organics for **Energy production**

Recycling of packed and unpacked foods leads to lower transportation costs and creates an organic material which can be used to produce green power at AD biogas installations. Specialist equipment is needed to de-pack these kind of products.

In conjunction with our partner Smicon, MAS filter screens can be used to further separate plastics and other contaminants from the organics stream prior to digestion. Screen sizes from 150 micron to 5 mm are available. MSE Hiller possesses all the necessary technology experience and individual pieces of machinery, to provide complete depackaging installations.

We have many years of experience with the recycling of both mono product flows and mixed product flows, such as the complete return products from supermarkets and waste foods.

Incorporation of our three phase oil/water/solids separation equipment can also lead to the production of useful bio fuel materials.



State of the art balancing technology



Dedicated centrifuge

Workshop and servicing

MSE Hiller have a modern 1,500 m2 workshop facility located just off J29A of the M1 motorway at Markham Vale, Chesterfield.

The workshop hosts a variety of high tech equipment and provides a modern working environment.

Facilities include:-

- High speed balancing G 2.5 (full running speed)
- Machining centre
- Welding & Grinding bay
- Hydraulics/Electronics clean room testing facilities
- Training Centre
- Overhead crane lift to 24 tonne
- Individual lift cranes 4 x 6 tonne
- Laboratory
- Environmentally friendly wash down area
- Secure Storage (24 hour security)

Built to a BREEAM "very good" standard, the building incorporates features such as rainwater harvesting, air source heating, photovoltaic and solar panels and has been awarded a Class A energy performance rating.



In house laboratory for sample testing



First class

Laboratory and training facilities

Our in house Laboratory and testing facility allows us to analyse and test samples from customers' sites in a safe and modern environment.

Customers, staff, engineers and operators can often benefit from one of MSE Hiller's training packages. Classroom and practical workshop sessions are available and often result in a better understanding of the equipment, it's use, maintenance requirements and process capabilities.

Our modern purpose built laboratory includes up-to-date equipment for the analysis of :-

- % Dry solids
- Suspended solids
- Chemical Oxygen Demand COD
- Particle size
- Microscopic analysis
- Polymer / flocculation trials
- Coagulation trials
- Lab Centrifuge 4 cradle system up to 4,000 x g
- Filtration equipment
- Heat / incineration
- Maceration / Size Reduction

