THE HD RANGE

www.ultraspin.com.au
THE HD RANGE

Ultraspin has been at the leading edge of industrial oily water solutions for over 30 years. The HD (Heavy Duty) range is Ultraspin’s latest innovation following years of research in the field of industrial separation. Built to meet the challenge of ever decreasing environmental discharge regulations, the HD range was designed with performance, durability and longevity in mind. These powerful systems are built to last, and are capable of achieving industry leading separation efficiency.

The HD range is adaptive and scalable to suit your needs. Additional separation power can be added to your custom-built system with new innovative treatment stages which build upon and enhance the power of the core Ultraspin separator. As discharge requirements continue to change, install a system that can grow with you – scaling the power of your oily water separation to meet your discharge demands now and into the future.

- Treats flows from 3.5m³ per hour to 100m³+ per hour
- Skid-mounted with a small footprint – can be installed almost anywhere
- Simple piping design for ease of installation
- Lowest ongoing maintenance cost of any oily water separator on the market in Australia
- Built to withstand tough environmental conditions
- Industry leading separation efficiency

All our systems are backed by world-class after sales service and support, with an Australian based Service team and highly qualified Field Engineers at your disposal.

FEATURES

✓ Modular design
  - System design allows for additional treatment stages to meet difficult requirements.
  - Allows for upgradability as requirements change in future

✓ Electric Operation
  - Allows for continuous operation
  - Motors available in IP56 and IP66 rating
  - Helical rotor pump ideal for extreme conditions

✓ Oil Storage & Decant Tank
  - Concentrates and collects the oil
  - Eliminates heavy 205L drums
  - Automatically drains off excess water from separated oil
  - Allows for easy disposal of collected oil

✓ Integrated Electronic Control
  - Allows for integration into mine site monitoring systems
  - Can include option for remote monitoring
  - In built shut down to protect system pump.

✓ Debris strainer
  - Protects system components from debris larger than 3mm
  - Provides a single service point for removing debris.
  - Easy to open and clean - only one person required
  - High storage capacity - long interval between servicing
The Ultraspin Separator itself works on a very simple principle. The oily water is pumped at an angle into the large end of a coned-shaped tube. A spinning vortex is created, and accelerates as it moves down the tapered tube, flinging the heavier water to the outside walls while the lighter oil moves to the centre. The separated oil is removed via one end, and the treated water out the other end of the tube. The centrifugal force generated inside the vortex is around 1,000 times the force of gravity! With such force even emulsified oil droplets can be separated.

Each HD oily water separator system is configured specifically to match your application. Our base HD model consists of an oil skimmer, debris strainer, separator vessel and decant tank. The Ultraspin skimmer is a unique design which uses a self-adjusting, floating weir structure to skim the very top layer from the surface of the collection fluid. The debris strainer then traps anything greater than 3mm (eg. leaves, ear plugs, insects, band aids, gloves etc.) preventing potential blockages or damage to equipment. The flow is then directed through Ultraspin’s innovative separator vessel which uses powerful centrifugal forces to clean the oil out of the water. The treated water is sent to discharge, and the reject flow of oily water is decanted and stored for safe disposal of the oil.

Various additional treatment stages can be added according to the complexity of your application. These include a second stage of oil separation, a solids removal stage, aeration and ADR. An oil recovery system can also be included to enable your treatment system to treat large oil spills.
THE HD RANGE

6 MODELS AVAILABLE

1. HD 3.5 (treats 3.5m³/hour)
2. HD 7 (treats 7m³/hour)
3. HD 15 (treats 15m³/hour)
4. HD 25 (treats 25m³/hour)
5. HD 50 (treats 50m³/hour)
6. HD 100 (treats 100m³/hour)

If you have flow rate requirements greater than 100m³/hour, let us know and we can design a system to meet your needs.

Ultraspin Technology
46 Wadhurst Drive
Boronia, Victoria
Australia

+61 3 9800 1100
+61 3 9800 1661
sales@ultraspin.com.au

www.ultraspin.com.au