

Easy access with CatFish

The new CatFish mini suction dredge (CatFish), developed by Roll-a-Pipe specifically for the mining and municipal industries, is a light and compact dredger designed for the automatic extraction of tailings, mineral slurry and fine sand from mine tailings dams, quarries and pits, industrial sewages or other settling ponds.

The CatFish is constructed on a robust pontoon held afloat by rotationally moulded, high density polyethylene floats which offer a number of advantages to users.

These include weld-free seamless construction, corrosion-resistant, rugged 7mm-thick walls, and heavy duty mounting flanges and maintenance-free service life.

The unique dredger, remote controlled and completely unmanned, can pump sludge or silt from depths as shallow as 600mm and up to 3.5m, over a distance of up to 500m. It has a 150mm slurry pump capable of handling viscous and particulate slurry transporting up to 60mm solids.

The pontoon-based unit travels slowly across the water surface so not to re-suspend settled solids, and uses a submerged scraper assembly, known as 'the cutter-head' to drive the sludge into the centre of the scraper system.



Light and compact: The new CatFish mini suction dredge is remotely controlled and unmanned.

Once in the scraperslater system, the sludge is pumped through a lobe slurry pump to shore and separated using geotextile dewatering tubes (geotubes).

The CatFish geotubes are fast and easy to transport and set up.

"Our geotubes are designed to function in series for dewatering and filtration allowing us to capture all the suspended solids in the dewatering tubes," said

manager John Scheirs.

The plastic pontoon, composed of UV-stabilised polyethylene floats filled with closed-cell polymer foam ensure buoyancy, even in the case of accidental puncturing of the plastic outer shell, and is a founding feature of the CatFish's compact construction.

This light and compact construction also means the dredgers are easily transported by

truck, standard low-bed trailers or in 20-foot shipping containers.

Due to this design, the CatFish can operate in areas inaccessible to other conventional suction dredges - such as HDPE plastic-lined ponds or lagoons- as the CatFish is available for immediate transport to any remote sites without the need for dismantling or road escorts.

The CatFish is built using modular pontoon floats, robustly

engineered and made with the highest quality materials.

Critical components are manufactured from stainless steel or yellow zinc passivated for extended life in the harsh environments.

The 2.4m-wide, horizontal shaft, rotating cutting head is fitted with hardened steel cutting blades and auger flights that are angled to provide maximum solids-to-suction pump intake. Speciality heads with hardened cutting elements are also available for extremely difficult materials.

"The dredge moves across the dam or lagoon by a winch attached to a taut cable and can cut while moving forward and backward," said Mr Scheirs.

"These types of dredges work well both for soft silts and compacted sediments and they cause little turbidity."

The auger dredge removes sediment in a more concentrated form so less water is removed from the dam or lagoon.

The ultra resilient and easily transportable dredge allows economical operation even in extreme conditions.

"The CatFish dredge is also equipped with severe duty hi-chrome iron slurry pumps capable of withstanding long term wear from pumping high concentrations of tailing, sand, crushed ore, coal slurries."



Advantages of Catfish™ Mini- Dredgers:

- Easily Transportable
- Can operate in shallow water
- Unmanned
- Remote-controlled
- The Catfish™ robotic dredge moves via winches on steel cables stretched across the water
- The sludge or tailings can be pumped into our sludge dewatering geobags for cost effective dewatering

**CatFish™
mini-dredgers-
compact,
robust, easily
transportable**



**Pump pontoons
for mine
dewatering are
also available**



**Mini Dredgers™ (trading as Roll-a-Pipe P/L)
Phone: +613 9782 5880
Factory: 0407 775 954 Office: 0407 261 913
Email: info@pumppontoons.com
Website: www.pumppontoons.com**

