



Vortex 4" Eco-Energy Electric Dredge

Environmentally friendly electric dredge

This 4 inch dredge was designed around being a plug in system for the Saab Leopard ROV where the Leopard AUX HPU would be unbolted and this motor/pump unit can be bolted in place and plugged into the standard Leopard high voltage and low voltage cables.

This system can be fitted to any ROV, compatible with the power supply required by this motor. This 4 inch dredge is able to provide suction performance of 64kpa using the patented vortex venturi motor. Couplings are both filled with environmentally friendly bio-degradable oil. Optional flotation is also available. Removal rates are actual figures using magnetite iron sand and rocks at 2.375kg per litre.

Debris removal of at least 22m³/hr, 50 ton/hr, 10% solids by volume and tested using Magnetite rocks 40 to 100mm diameter.

Applications

- Pile cleaning
- Excavation
- Drill cutting removal
- UXO clearance

Features

- 64kpa (18in/hg) of suction
- Plug & play into Saab Leopard ROV
- Coupling compensator
- Motor compensator
- Unrestricted operating depth
- Flotation (optional)

In the box

- Vortex 4" eco-energy electric dredge
- Mounting frame
- Reversal valve
- Pump spares kit
- Operational hoses
- Operations and maintenance manual



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Specifications



Debris removal rates (ton / hr)	50t/hr, 22 m3/hr, 10% solids by volume
Venturi inner diameter	99mm / 3.9in
Rated maximum stone size	90mm / 3.54in
Water pump flow	55m3/hr
Suction hose diameter	100mm / 4in
Exhaust hose diameter	100mm / 4in
Inlet suction hose length	4m / 13.1ft standard to custom length
Exhaust throw length	1.7m / 5.5ft standard to custom length
Operating depth	3000m / 9842ft
Available suction at inlet	64kpa
Optional jetter nozzle water pressure	4.1bar / 60psi
Dredge system weight in air	163kg / 359lbs
Dredge system weight in water	98kg / 216lbs

Aberdeen
+44 (0)1224 771888

Abu Dhabi
+971 2 650 7710

Houston
+1 281 398 9533

Singapore
+65 6545 9350