



## Vortex 4" Tornado Dredge Pump

The most powerful venturi dredge in the world

The most powerful 4-inch ROV and diver dredge in the world at 97kpa (28in/hg) vacuum has removal rate performance more commonly seen in 6-inch dredges. Removal rates are actual figures using Magnetite iron sand and rocks at 2.375kg per litre.

### Applications

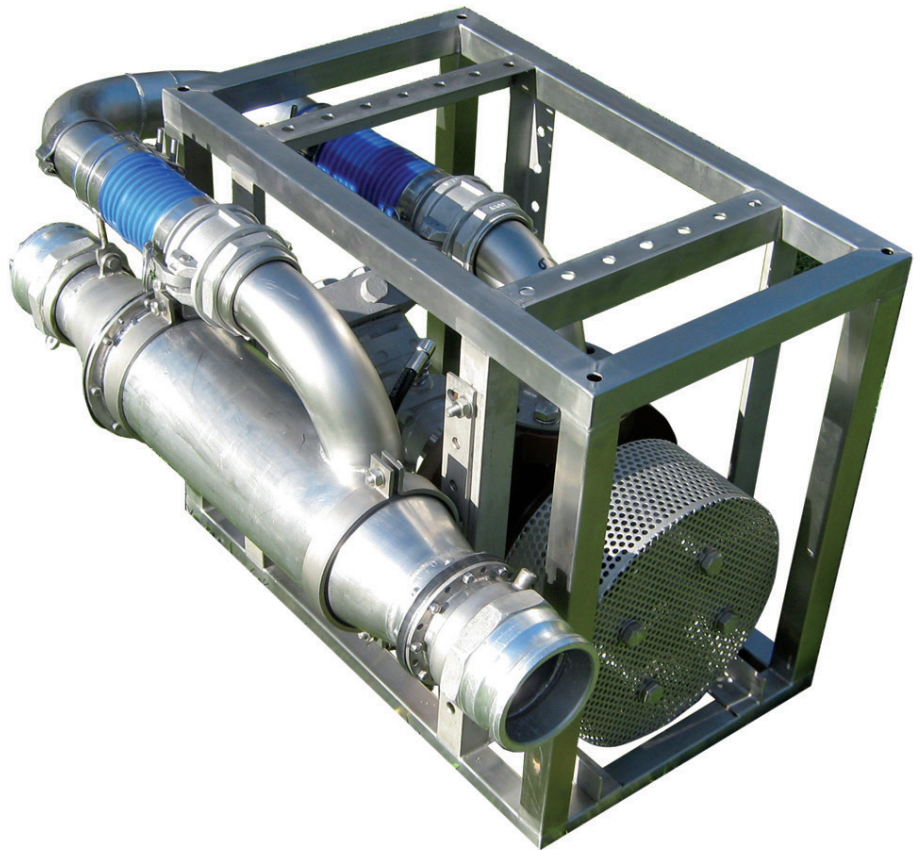
Work-class ROV construction  
Work-class ROV drill support  
Relocation of mud, silt and rocks  
Relocation of drill cutting  
Marine archaeology  
Salvage operations

### Features

97kpa (28in/hg) of suction  
99mm / 3.9in internal diameter  
Reversal valve  
Floatation (optional)  
ROV or diver operable

### In the box

Vortex 4" tornado dredge  
ROV mounting frame  
Pump spares kit  
Operational hoses  
Operations and maintenance manual



# Vortex 4" Tornado Dredge Pump

## Specifications



Debris removal rates (ton / hr)	60t per hour, 27m <sup>3</sup> /hr, 15% solids by volume
Venturi inner diameter	99mm / 3.9in
Rated maximum stone size	90mm / 3.5
Water pump flow	180m <sup>3</sup> /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
Hydraulic flow required	82lpm / 21gpm
Hydraulic pressure required	193bar / 2800psi
Operating depth	3000m / 9842ft
Available suction at inlet	97kpa
Optional jetter nozzle water pressure	5.5bar / 80psi
Water pump weight in air	45kg / 99.2lbs
Water pump weight in water	29kg / 63.9lbs

**Aberdeen**  
+44 (0)1224 771888

**Abu Dhabi**  
+971 2 650 7710

**Houston**  
+1 281 398 9533

**Singapore**  
+65 6545 9350