



Vortex 6" Dredge Skid

WROV and diver configurable easy mount skid

The Vortex 6 inch is designed for subsea excavation and disposal of sediments and gravel up to 140 millimetres. It is easily mounted to the ROV and requires no ship deck space and sea fastening. The vortex 6 inch requires no specialist operator or additional cables between ship and sea floor.

It has an optional jetter kit for breaking up seabed. The low-hydraulic consumption leaves enough hydraulic supply on most ROV's to utilise a purpose built high pressure jetter unit if the task requires one. This 6 inch dredge has shown under real-world conditions to provide suction performance of 64kpa using the patented vortex venturi. Removal rates are actual figures using magnetite iron sand and rocks at 2.375kg per litre.

Applications

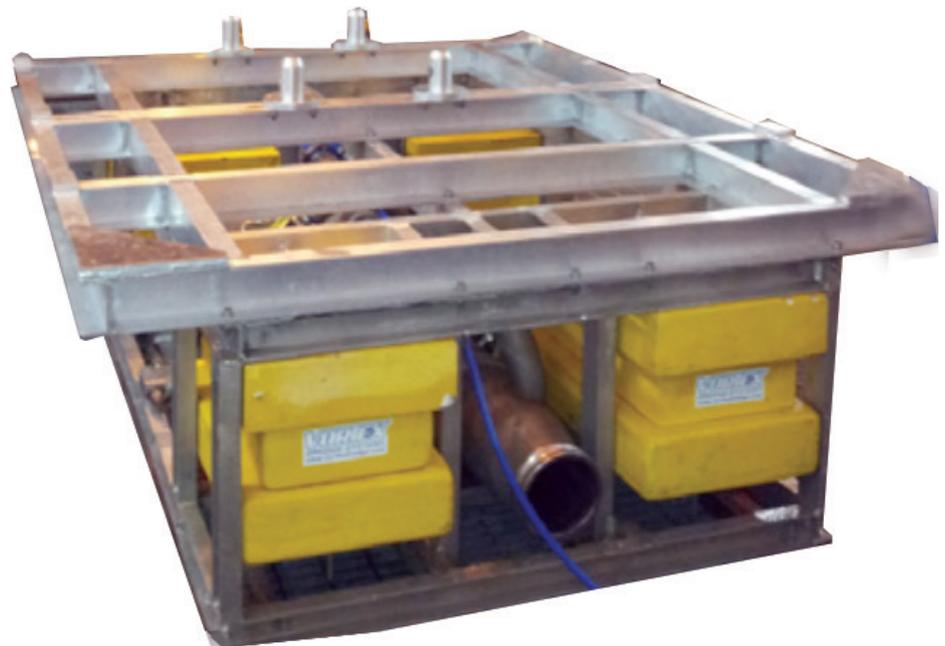
- Work-class ROV construction
- Work-class ROV drill support
- Relocation of mud, silt and rocks
- Relocation of drill cutting
- Marine archaeology
- Salvage operations

Features

- True 150mm / 6in performance with 149mm / 5.8in internal diameter
- 80kpa (23.6in/hg) of suction
- Perry and Schilling compatible frame
- Optional jetter

In the box

- Reversal valve
- Floation
- 4 pin ROV mount
- Pump spares kit
- Operations and maintenance manual



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Specifications



Debris removal rates (ton / hr)	80t per hour, 30m ³ /hr, 10 to 12% solids by volume
Venturi inner diameter	150mm / 6in
Rated maximum stone size	140mm / 5.5in
Combined water pump flow	360m ³ /hr
Suction hose diameter	150mm / 6in
Exhaust hose diameter	150mm / 6in
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	100lpm / 26.4gpm minimum
Hydraulic pressure required	207bar / 3000psi
Operating depth	3000m / 9842ft
Available suction at inlet	80kpa
Optional jetter nozzle water pressure	5.5bar / 80psi
Complete skid weight in air	220kg / 485lbs
Complete skid weight in water	Neutral (depend on floatation configuration)
Complete skid dimensions	2050 x 1300 x 610mm / 80.7 x 51.1 x 24in

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