



Vortex 8" Black Hole Dredge

The most powerful venturi dredge in the world

This 8 inch dredge is a fully modular system designed for multiple integration options installing each component on the host ROV using the supplied brackets and frames. This 8 inch dredge has shown under real-world conditions to provide suction performance of 42kpa using the patented vortex venturi.

The vortex 8 inch is very powerful, has no depth limitations and is quick and easy to mobilize and operate.

Diver operated reversal valve which is unique to vortex and allows diver to 'stall' or shut down dredge between suck and blow which is an extra safety feature. Reversal valve is environmentally friendly and water operated which removes another hydraulic function from the subsea components.

Applications

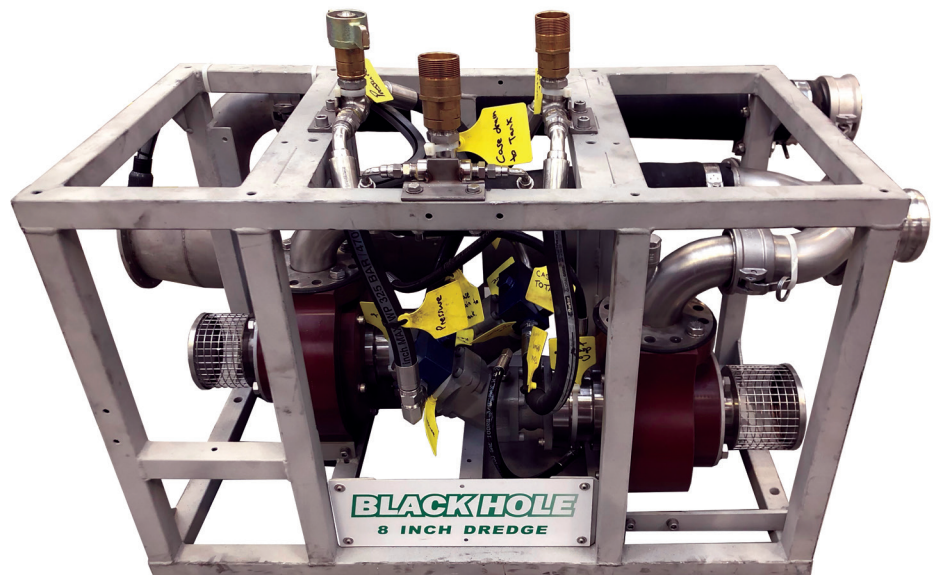
Pile cleaning
Excavation
Drill cutting removal
UXO clearance

Features

42kpa (18in/hg) of suction
Suction flow of 62m³/hr
Solids removal rate of 146t/hr
ROV or diver operable

In the box

Vortex 8" black hole dredge
Mounting frame
Reversal valve
Pump spares kit
Operational hoses
Operations and maintenance manual



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Specifications



Debris removal rates (t/hr)	62 m ³ /hr, 146 ton/hr, 10 to 12% solids by volume
Venturi inner diameter	200mm / 8in
Rated maximum stone size	195mm / 7.6in
Combined water pump flow	340m ³ /hr
Suction hose diameter	200mm / 8in
Exhaust hose diameter	200mm / 8in
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	157lpm / 41gpm to 200lpm / 53gpm
Hydraulic pressure required	207bar / 3000psi
Operating depth	3000m / 9842ft
Available suction at inlet	42kpa
Optional jetter nozzle water pressure	5.1bar / 75psi
Dredge system weight in air	218kg / 480.6lbs
Dredge system weight in water	185kg / 407.8lbs

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