



UCS 12in Dredge System

Electrical dredge system

The UCS electric driven 12in dredge system allows the excavation of seabed sand, gravel, clay and rocks up to 254mm (10in) in diameter.

The advantages of the UCS electrical dredge system is that only a small deck footprint is required by removing the need for large umbilical reels and hydraulic power units as required by hydraulic dredging systems. More importantly, by replacing hydraulic hoses with an electrical umbilical eliminates the huge power losses associated with transferring hydraulic oil over long hose lengths. This makes the UCS systems suction and efficiency superior in performance over hydraulic systems.

The complete standard system comprises of the umbilical winch, the skid unit, 20m suction hoses and spares box.

Applications

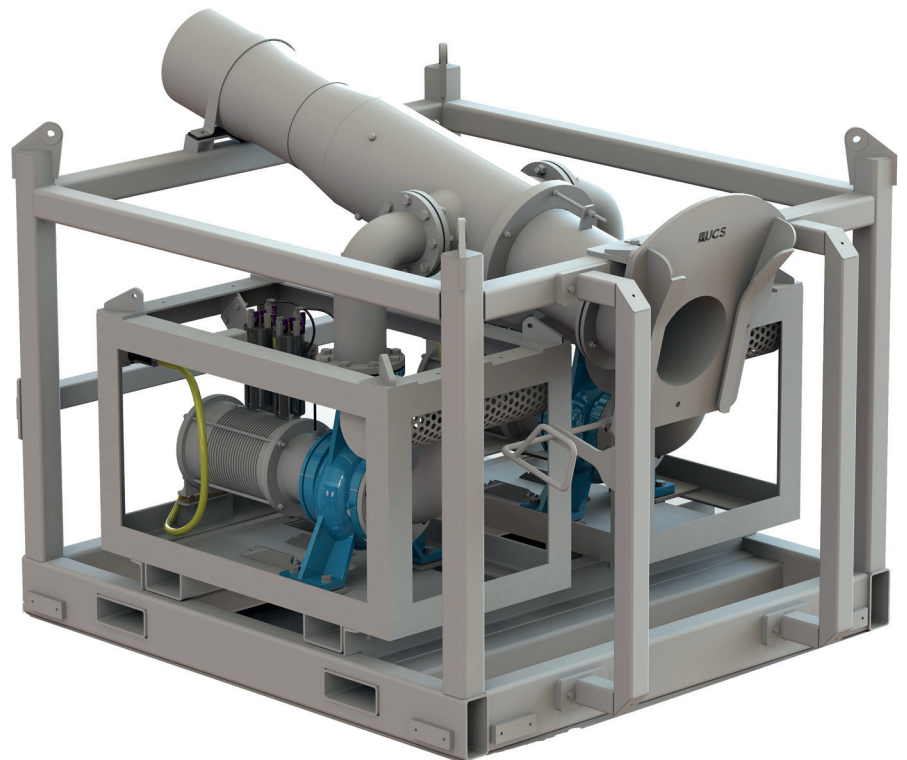
- Work-class ROV construction
- Work-class ROV drill support
- Relocation of mud, silt and rocks
- Relocation of drill cutting
- Marine archaeology
- Salvage operations

Features

- Excavates seabed sand, gravel, clay and rocks up to 254mm (10in) in diameter
- Power efficient electric motor
- No hydraulics required
- Small deck area required
- ROV friendly hose connection
- Proven reliability
- Compact design
- Superior performance
- Compliant to IEE wiring regulation (BS7671)
- Compliant to IMCA DO45 (safe use of electricity underwater)

Bespoke options

UCS have specialist in-house design and fabrication capabilities and are able to modify any tool to suit client / project requirements.



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Specifications



Dredging capacity	640 cubes p/h (100% water) rate varies with waste content
Electrical requirements	3 phase 440v, 50-60Hz, 125amp
Suction rate	10400lpm / 2746gpm @ 60Hz
Max rock size	254mm / 10in
Standard suction hose length	ID 305mm / 12in @ 10m/5m/4m
Standard exhaust hose length	na
Dredge skid mass in air	2450kg / 5401lbs
Dredge umbilical winch	4000kg / 8818lbs
Dredge skid dimensions	2576mm / 101.4in x 1990mm / 78.4in x 1898mm / 74.7in
Umbilical winch dimensions	1964mm / 77.3in x 2067mm / 81.4in x 1685mm / 66.4in

