



UCS 6in Dredge System

Electrical dredge system

The UCS electric driven 6in dredge system allows the excavation of seabed sand, gravel, clay and rocks up to 102mm (4in) 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, 10m suction hoses and spares box. Additional suction hose lengths can be supplied in 10m sections.

Applications

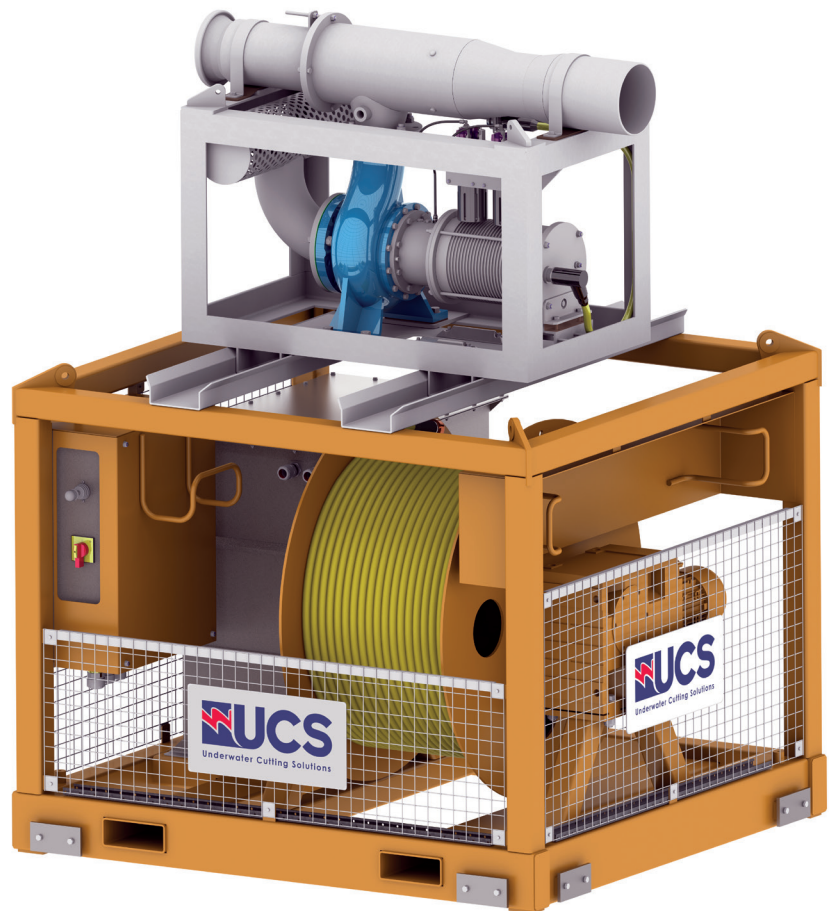
- Work-class ROV construction
- Work-class ROV drill support
- Relocation of mud, silt and rocks
- Relocation of drill cutting
- Marine archaeology
- Salvage operations

Features

- Excavates seabed sand, gravel, clay and rocks up to 102mm (4in) in diameter
- Power efficient electric motor
- No hydraulics required
- Small deck area required
- Dredge unit can be mounted on top of the winch frame when not in use
- 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	180 cubes p/h (100% water) rate varies with waste content
Electrical requirements	3 phase 440v, 32amp
Suction rate	2600lpm / 687gpm @ 60Hz
Max rock size	102mm / 4in
Standard suction hose length	ID 150mm / 6in @ 10m / 32.9ft
Standard exhaust hose length	ID 200mm / 8in @ 1m
Dredge skid mass in air	470kg / 1035lbs
Dredge umbilical winch	1500kg / 3307lbs
Dredge skid dimensions	1608mm / 63.3in x 700mm / 27.6in x 1033mm / 40.7in
Umbilical winch dimensions	1800mm / 70.9in x 1700mm / 59in x 1500mm / 51.2in

