



Deep C Light Duty Subsea Dredge

Flexible Stand-alone Dredging Unit

The Deep C Light Duty Subsea Dredge is a compact, stand-alone dredging solution for efficient subsea sediment removal using either divers or work-class ROVs.

Ideal for operations with low to moderate dredge volumes, this system offers 6-10" unrestricted throughput, enabling high-efficiency sediment handling.

Limited topside spread requiring HPU and hose reel only, or no topside spread if powered by ROV.

Features

- Less than 5 kPa ground pressure
- Up to 10" unrestricted dredging
- 30-40m³/hour sand removal rates



Technical Specifications

Subsea Dredge is a high-performance unit designed for operations up to 2000m depth, supporting a dredge size of up to 10 inches. With optional features such as an ROV Dredging Manipulator and water jetting capabilities, it delivers precise and efficient excavation.

Contact mail@deepcgroup.com for more details.

Dimensions

| | | | |
|-------------------|-------------------|------------------|-----------|
| LxWxH: | 1400x1020x1322 mm | Dredge size: | Up to 10" |
| Dry weight: | 350 kg | Ground pressure: | < 5 kPa |
| Weight submerged: | 225 kg | Water depth: | 2000m |

Features, Supplementary Tools

| | |
|---------------------|-------------------------------------|
| Backflush: | Reverse flow in case of clogging |
| Exhaust hose: | Extend disposal area |
| Jetting: | In case of cohesive clay |
| HD ROV Manipulator: | Precise handling |

Performance Indications

| | |
|---------------------|-----------------|
| Rock removal rates: | 5-8 m3/hour** |
| Sand removal rates: | 30-40 m3/hour** |

| Dredge Size (inches) | 6" | 8" | 10" |
|---------------------------|------------------|------------------|------------------|
| Unrestricted ID: | 150 mm | 200 mm | 250 mm |
| Hydraulic requirement: | 60 lpm @ 180 bar | 60 lpm @ 180 bar | 60 lpm @ 180 bar |
| Flow rate water: | 5 800 lpm | 8 500 lpm | 11 700 lpm |
| Theoretical removal rate: | 60 t/hr | 60 t/hr | 60 t/hr |

*) Estimated rates only, performance achieved under normal operational conditions. Exact rates dependent on soil conditions'. **) Initial rates using ROV hydraulics, second estimated rates using topside HPU.



Deep C HD Subsea Dredge Supplementary Tools

Customizable tools to enhance efficiency and versatility

Deep C ROV Grouting Breaker Kit

| | |
|---------------------|----------------------|
| LxWxH | 285 x 175 x 210 mm |
| Dry weight: | 22 kg |
| Weight submerged: | 20 kg |
| Power requirements: | 85 L/min 160<210 bar |
| Water flow: | 30L/min |
| Water pressure: | 520 bar |



ROV Dredge Manipulator (10 - 16")

| | |
|-------------------|----------------------|
| LxWxH | 1314 x 921 x 1325 mm |
| Dry weight: | 120 kg |
| Weight submerged: | 95 kg |
| Capacity: | 175 liters |
| Work pressure: | 180-250 bar |



ROV Dredge 6"

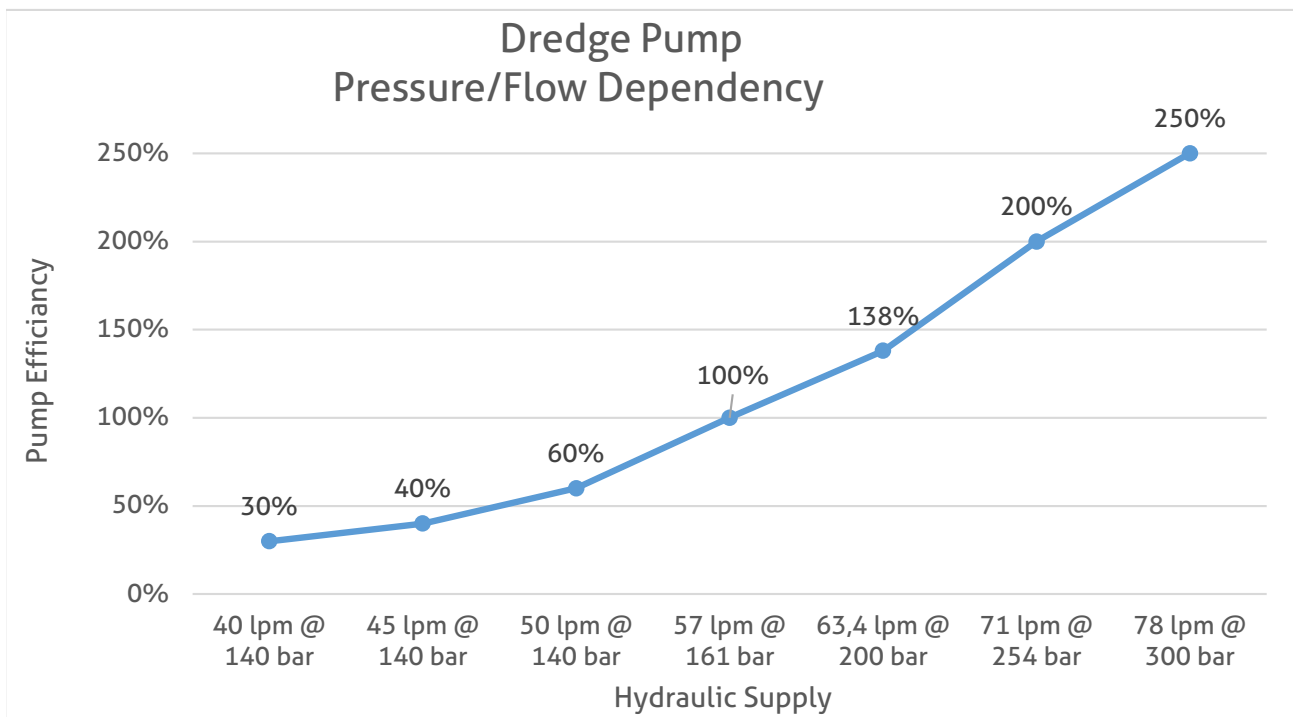
| | |
|---------------------------|------------------|
| Unrestricted ID: | 150 mm |
| Hydraulic requirement: | 60 lpm @ 180 bar |
| Flow rate water: | 5 800 lpm |
| Theoretical removal rate: | 60 t/hr |
| Dry weight: | 60 kg |
| Weight submerged: | 40 kg |





ROV Dredge Pump Efficiency

Pressure vs. Flow Performance Overview



Rigging arrangement

Rigging arrangement

