

CUTTER SUCTION DREDGER 250



Main Parameters

| | | |
|----------------|---------------------------|---------|
| Dredging depth | : 8 m | 26 ft |
| Power | : 261 kW | 350 hp |
| Suction pipe | : 250 mm | 10 inch |
| Discharge pipe | : 250 mm | 10 inch |
| Cutter power | : 35 kW | 47 hp |
| Production | : 260 m ³ / hr | |
| Pontoons | : 3 dismountable pontoons | |

Cutter suction dredger 250 is a dismountable dredger with an integrated dredge pump & drive system. This makes the dredger efficient and compact, allowing for easy transportation and high production rates. DREDGE YARD offers a range of customization options to adapt CSD 250 for any project. The CSD 250 has the following features:

- Low cost per m³
- Short delivery times and competitive pricing
- Fully tested before delivery
- Transportable by road, rail or sea
- Ready for operation on arrival at site
- Productivity and fuel efficiency
- Low Environmental impact
- Ability to use in multiple applications
- Suitable for dredging different types of soil
- Long lifetime by wear-resistant components
- One-man operation usage
- Customization options

Eco-Friendly Design

The CSD 250 is developed with a keen focus on environmental impact. It is engineered to operate with reduced carbon emissions and optimized fuel consumption, aligning with global environmental standards and regulations.

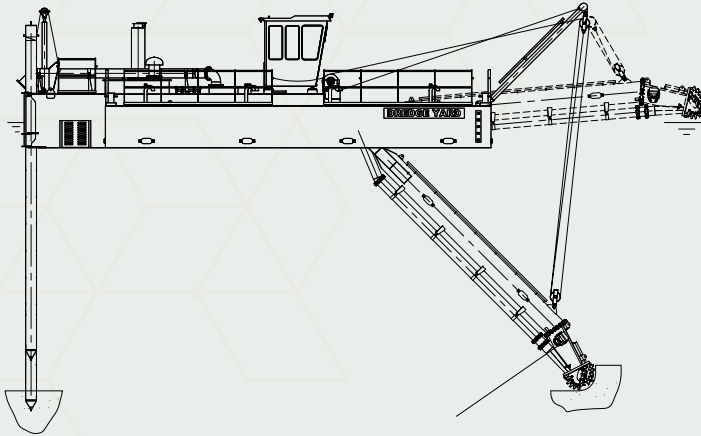
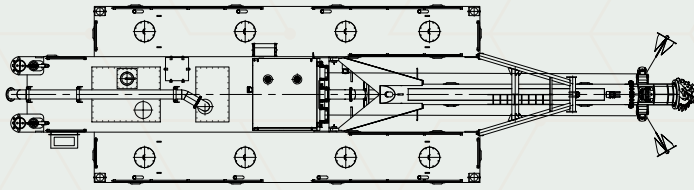
Transportable & Readily Available

DREDGE YARD dredgers are modular and transportable by road, rail, or waterways. The majority of DREDGE YARD's vessels are readily available for prompt delivery, ensuring you can get started without delays.

Service and support

DREDGE YARD's commitment doesn't end with a purchase. DREDGE YARD offers an all-inclusive suite of spare parts, proactive maintenance assistance, equipment training programs, dredging consultancy, and expert operators for practical training and efficient commissioning.

CUTTER SUCTION DREDGER 250



DREDGER MAIN PARTICULARS

| | | | |
|--------------------------------|---|--------------------------------|--------|
| Type of dredger | : | Cutter suction dredger | |
| Pontoons | : | 3 dismantlable pontoons | |
| Transport | : | Dismantlable on flat trucks | |
| Suction pipe diameter | : | 250 mm | 10 in. |
| Discharge pipe diameter | : | 250 mm | 10 in. |
| Suitable for dredging material | : | Clay, medium sand, coarse sand | |
| Dredging depth @ 45deg | : | 8 m | 26 ft |

DREDGER POWER UNIT

| | | | |
|----------------|---|------------------|--------|
| Engine power | : | 261 kW | 350 hp |
| Engine speed | : | 1,800-2,100 rpm | |
| Cooling system | : | Seawater cooling | |

DREDGER MAIN DIMENSIONS

| | | | |
|--------------------------------|---|----------------|---------|
| Length overall (ladder raised) | : | 20.5 m | 67.2 ft |
| No. of pontoons | : | 3 dismantlable | |
| Length over pontoons | : | 14.2 m | 46.6 ft |
| Width overall | : | 5.3 m | 17.4 ft |
| Width during land transport | : | 2.3 m | 7.5 ft |
| Depth, main pontoon | : | 1.66 m | 5.4 ft |
| Depth, side pontoon | : | 1.25 m | 4.1 ft |
| Design draught | : | 0.75 m | 2.5 ft |

DREDGE PUMP

| | | | |
|-----------------------|---|---|--------|
| Type | : | DY250-250 | |
| Configuration | : | Single-stage centrifugal | |
| Position | : | Inboard; mid-pontoon | |
| Suction diameter | : | 250 mm | 10 in |
| Discharge diameter | : | 250 mm | 10 in |
| Spherical passage | : | 125 mm | 5 in |
| Impeller no. of vanes | : | 3 | |
| Drive power | : | 261 kW | 350 hp |
| Drive | : | Direct drive through a single-stage gearbox | |

| | | |
|---------------|---|-------------------------------|
| Pump speed | : | 825-975 rpm |
| Wear material | : | Wear resistant cast iron |
| Gearbox | : | Single-stage; vertical offset |
| Shaft seal | : | Mechanical face seal |

DREDGE CUTTER HEAD

| | | | |
|--------------------|---|---|--------|
| Type | : | DY900-C Multi-purposed | |
| Configuration | : | Crown type interchangeable teeth | |
| Cutter diameter | : | 0.9 m | 3.0 ft |
| Cutter motor power | : | 35 kW | 47 hp |
| Cutter motor speed | : | 0-40 rpm | |
| Cutting system | : | Replaceable (narrow, pick-point, chisel type) | |

DREDGING WINCH

| | | | |
|--------------------------|---|--------------------------------|-------------|
| Type of winch | : | Drum winch | |
| Movement | : | Swing 35 degrees to both sides | |
| Number of winches | : | 2 units | |
| Wire pull | : | 40 kN | 8,820 lbs |
| Hauling speed | : | 0-15 m/min | 0-49 ft/min |
| Drive | : | Hydraulic motor | |
| Wire diameter | : | 16 mm | 0.63 in |
| Swing range at min depth | : | 22.8 m | 74.8 ft |
| Swing range at max depth | : | 18.9 m | 62 ft |

LADDER HOISTING WINCH

| | | | |
|-------------------|---|-----------------|-------------|
| Type of winch | : | Drum winch | |
| Number of winches | : | 1 unit | |
| Wire pull | : | 40 kN | 8,820 lbs |
| Hauling speed | : | 0-15 m/min | 0-49 ft/min |
| Drive | : | Hydraulic motor | |
| Wire diameter | : | 16 mm | 0.63 in |
| Anchor weight | : | 230 kg | 507 lbs |

DREDGE SPUDS

| | | | |
|--------------------------|---|----------|------------|
| Total spud length | : | 10.2 m | 33.4 ft |
| Spud diameter | : | 324 mm | 12.7 in |
| Weight | : | 1,200 kg | 2,646 lbs |
| Hydraulic cylinder force | : | 55 kN | 12,127 lbs |
| Cylinder stroke | : | 1.25 m | 4.1 ft |

FUEL

| | | | |
|---------------|---|--------------|---------|
| Fuel type | : | Diesel fuel | |
| Tank capacity | : | 3,500 Liters | 925 gal |

OPERATING CABIN

| | | | |
|------------------|---|---|------------|
| Total area | : | 3.0 m ² | 32.3 sq ft |
| Cooling | : | Ventilation fan (a/c optional) | |
| Lights | : | 2x exterior; 2x flood light | |
| Additional | : | Screen wiper | |
| Instrumentations | : | • Dredging depth indicator • Discharge pressure gauge • Vacuum pressure gauge | |