

# CUTTER SUCTION DREDGER 300



## Main Parameters

Dredging depth	: 8 m	26 ft
Power	: 310 kW	415.7 hp
Suction pipe	: 350 mm	14 inch
Discharge pipe	: 300 mm	12 inch
Cutter power	: 45 kW	60 hp
Production	: 370 m <sup>3</sup> / hr	
Pontoons	: 3 dismountable pontoons	

**Cutter suction dredger 300** 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 300 for any project. The CSD 300 has the following features:

- Low cost per m<sup>3</sup>
- 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 300 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.

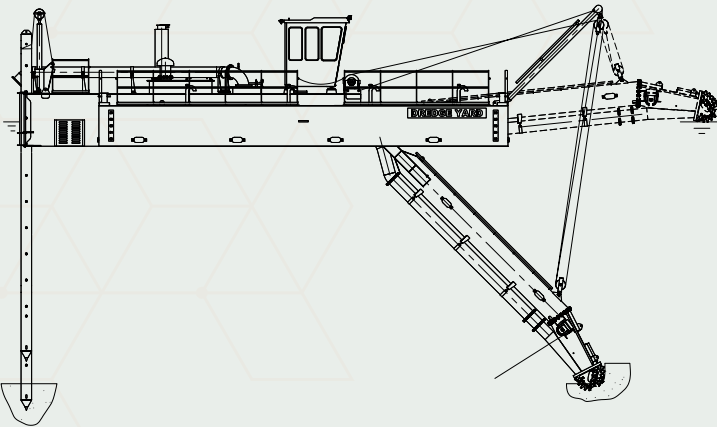
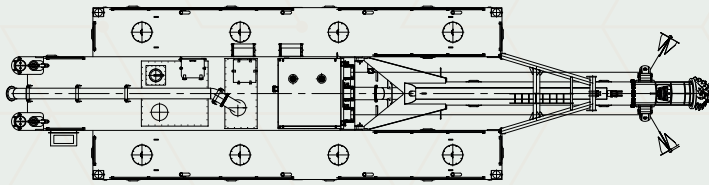
## Transportable & Readily Available

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 300



### DREDGER MAIN PARTICULARS

Type of dredger	: Cutter suction dredger	
Pontoons	: 3 dismantable pontoons	
Transport	: Dismantable on flat trucks	
Suction pipe diameter	: 350 mm	14 in.
Discharge pipe diameter	: 300 mm	12 in.
Suitable for dredging material	: Clay, medium sand, coarse sand	
Dredging depth @ 45deg	: 8 m	26 ft

### DREDGER POWER UNIT

Engine power	: 310 kW	415.7 hp
Engine speed	: 1,800-2,100 rpm	
Cooling system	: Seawater cooling	

### DREDGER MAIN DIMENSIONS

Length overall (ladder raised)	: 21.5 m	70.5 ft
No. of pontoons	: 3 dismantable	
Length over pontoons	: 15.2 m	50.0 ft
Width overall	: 5.3 m	17.4 ft
Width during land transport	: 2.3 m	7.5 ft
Depth, main pontoon	: 1.6 m	5.2 ft
Depth, side pontoon	: 1.25 m	4.1 ft
Design draught	: 0.75 m	2.5 ft

### DREDGE PUMP

Type	: DY300-300	
Configuration	: Single-stage centrifugal	
Position	: Inboard; mid-pontoon	
Suction diameter	: 300mm	12 in
Discharge diameter	: 300mm	12 in
Spherical passage	: 150 mm	6 in
Impeller no. of vanes	: 3	
Drive power	: 310 kW	415.7 hp
Drive	: Direct drive through a single-stage gearbox	

Pump speed	: 650-800 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	: 45 kW	60 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	8,820lbs
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	: 23.9 m	78.3 ft
Swing range at max depth	: 19.9 m	65.3 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 <sup>2</sup>	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	