



# CUTTER DREDGER CSD 400

**MAIN PARTICULARS**

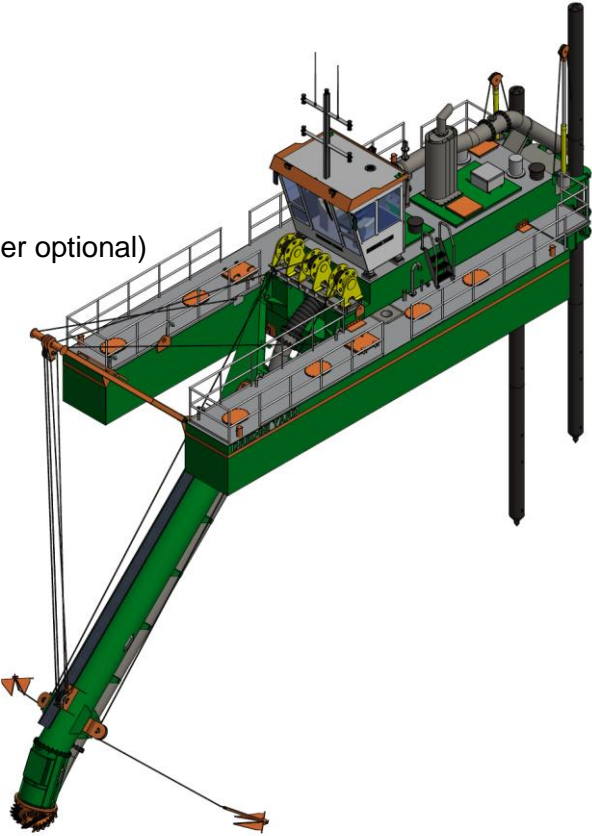
Type of dredger	Cutter Suction Dredger	
Pontoons	Three dismountable pontoons	
Transport	Dismountable on flat tracks	
Suction Pipe	400 mm	16 inch
Discharge pipe	400 mm	16 inch
Suitable for dredging	Clay, Medium Sand and Coarse sand	
Dredging depth	10 m	32.2 ft

**POWER UNIT**

Diesel engine	CAT C18	
Engine type	Marine Engine	
Engine tier	EPA tier 3 emissions (higher optional)	
Engine power	483 kW	648 hp
Cooling	Water cooling	
Engine speed	1800 rpm	

**MAIN DIMENSIONS**

Length overall	24.0 m	78.8 ft
Number of pontoons	3	
Length over pontoons	14.0 m	46.0 ft
Width overall	5.7 m	18.7 ft
Depth main pontoon	2.48 m	8.1 ft
Depth side pontoons	1.47 m	4.8 ft
Design draught	1.1 m	3.6 ft



## DREDGE PUMP

Type	DREDGE YARD DY400	
Configuration	Single stage centrifugal pump	
Position	Inside main pontoon	
Suction diameter	400 mm	16 inch
Discharge diameter	400 mm	16 inch
Impeller number of vanes	3	
Dredge pump power	380 kW	510 hp
Dredge pump	400-600 rpm	
Wear material	High wear resistant	
Drive	Direct drive through a single stage gearbox	
Gearbox	Single stage vertical offset with integrated clutch	
Shaft Seal	Stuffing box	

## DREDGE CUTTER HEAD

Type	DY-1000C Multipurposed	
Configuration	Crown type interchangeable teeth	
Cutter ring diameter	1.0 m	3.3 ft
Cutter motor power	57 kW	76 hp
Cutter motor speed	0-35 rpm	
Drive	Hydraulic motor	
Cutting system	3 type of replaceable teeth Narrow teeth, pick points and chisel	

## DREDGING WINCH

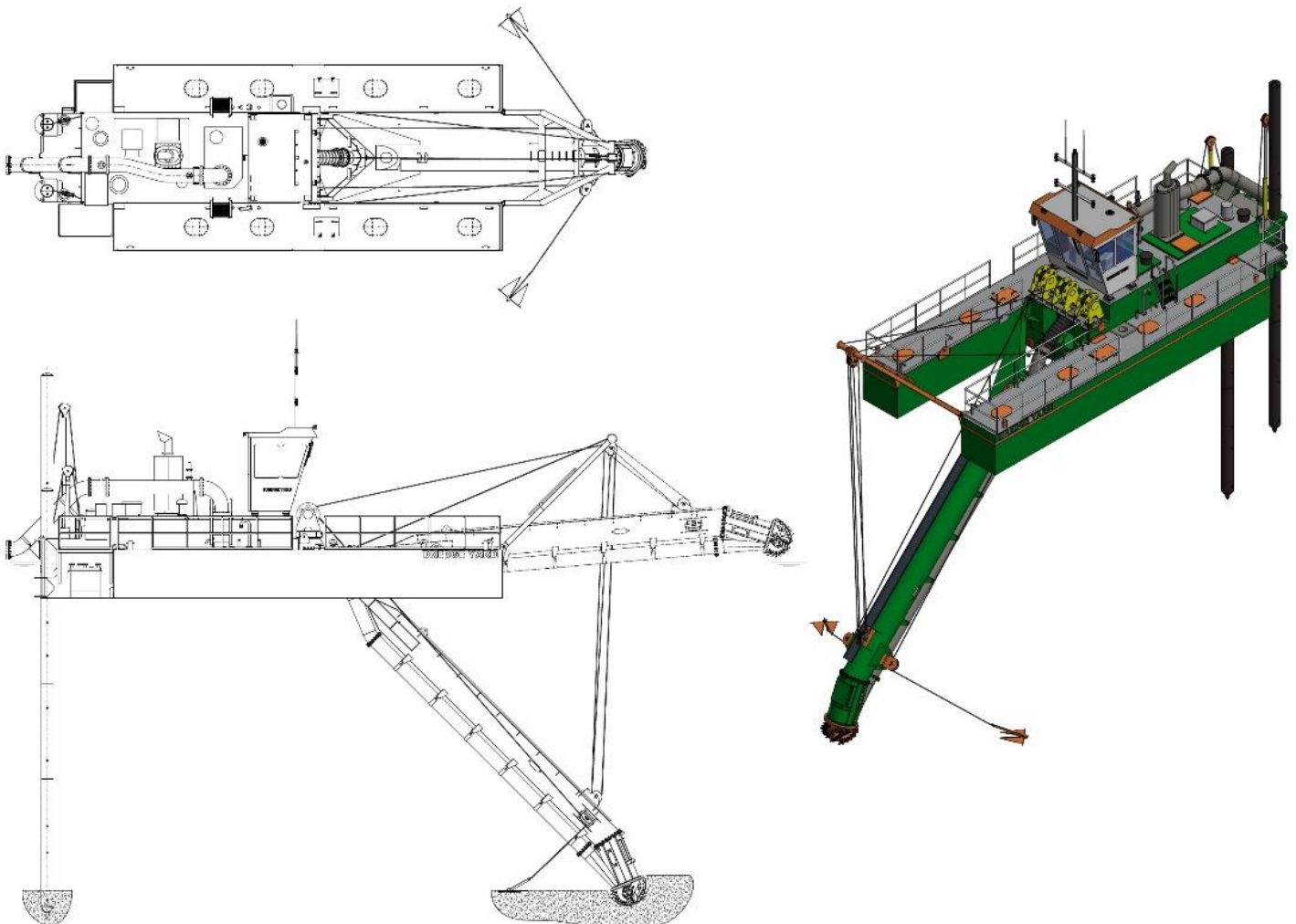
Type of winch	Drum winch	
Movement	Swing left and right 35 degrees	
Number of winches	2 unit	
Wire pull	40 kN	8,992 lbs
Hauling speed	0-15 m/min	0-49 ft/min
Wire diameter	16 mm	10/16 inch
Drive	Hydraulic motor	
Range at min depth	25.0 m	82.0 ft
Range at max depth	20.5 m	67.3 ft

## LADDER HOISTING WINCH

Type of winch	Drum winch	
Number of winches	1 unit	
Wire pull	40 kN	8,992 lbs
Hauling speed	0-15 m/min	49 ft/min
Wire diameter	16 mm	10/16 inch
Drive	Hydraulic motor	

## DREDGE SPUDS

Spud Length	13.0 m	42.7 ft
Spud diameter	368 mm	14.5 inch
Spud weight	1,550 kg	3,417 lbs
Cylinder lifting force	60 kN	33,488 lbs
Spud stroke	3.0 m	9.8 ft



## FUEL

Type	Diesel fuel	
Tank capacity	8,000 liters	2,113 gallon

## DREDGE OPERATING CABIN

Total area	3.0 m <sup>2</sup>	32.3 sq-ft
Cooling	Ventilation fan ( a/c optional )	
Lights	1x interior light and 2x flood light	
Additional	Screen wipers	
Instrumentation	Dredging depth indication	
	Discharge pressure gauge	
	Vacuum pressure gauge	

## CSD 400 PRODUCTION CURVE

