

20" Cutter Suction Dredger Specification



Vessel Type	20" Cutter Suction Dredger
Principal Particulars	
Length Overall with Ladder	34.75M
Length Overall Hull	24.20M
Length LWL	24.20M
Breath MLD	07.00M
Depth MLD	02.32M
Draught (Design)	01.60M
Main pontoon Length	12.50M
Main Pontoon Breadth	03.00M
Side pontoon Length	24.20M
Side pontoon Breadth	02.00M
Engine Details	
Dredger Engine	Cater Pillar (USA)
Model	3508DITA
Power	846KW/1133BHP
Cylinder	8
RPM	1800
Type	V
Auxiliary Engine Details	
Auxiliary Engine	Cater Pillar (USA)
Model	CAT-3406
Power	270KW/362BHP
Cylinder	6
Type	V
Pump Details	
Pump	TAI'AN OCEAN PUMP (China)
Fuel	Diesel
Pump Model	OC4000
Water Flow	2500-3000m3/h
Capacity	500-700 m3/h
Speed	350-600 RPM
Shaft Powe	450-750 KW
Suction Dia	
Suction Dia	508mm
Delivery Dia	508mm
Spud Dia	558mm
Spud Length	19.81m
Ladder & Swing Winches	
Maximum Line Speed	1475HP
Power at Cutter Shaft	25m/min
Wire Diameter	18mm
Drum Diameter	390mm
Swing Wires Length	100m
Anchor Weight	360kg

18" Cutter Suction Dredger Specification



18" x 18" (450mm x 450mm) Hydraulic Cutter Suction Dredge		
GENERAL	Suction Pipe x Discharge Pipe	18" x 18"
	Dredging Depth, Maximum	59"
	Length, Overall	70"-10"
	Length, Hull	
	Width, Hull	18"
	Depth, Hull	4"
	Plate Thickness	Full Floor 6mm & Full body 4mm
	Battery 24V	02PCS
	Hydraulic tank capacity	10000Litre
	Fuel Capacity	15000Litre
	Dredge Pump (Power -750RPM)	01pc
	Hydraulic Pump ISI Japan	01pc
ENGINES	Main Engine	Caterpillar (Made in USA)
	Fuel Type	Diesel
	Horse Power	1050HP
	Revolutions Per Minute (rpm)	1500RPM
	Cooling	Heat Exchanger
CUTTER DRIVE	Auxiliary Engine	Caterpillar (Made in USA)
	Fuel Type	Diesel
	Power	400HP
	Revolutions Per Minute (rpm)	1500RPM
	Cooling	Radiator
	Digging Capacity	Per hour approx 300 Quebec Meter.
	Deepness	Minimum 40 feet. Sometimes more than that of soil is good and soft.
	Total installed power	1475HP
	Power at Cutter Shaft	155HP
	Cutter Speed	42RPM
	Cutter Diameter	36"
Cutting Force	7,991 lbs	
SPUDS	Length	46'' -6''
PUMP DETAILS	Model No.	ZN-250DN
	Water Flow	1600m3
	Power	560KW
	RPM	750
	Country of Origin & Manufacture	China