



## Predator 1000-12 Cutterhead Dredge

### Features:

Powerful, fuel efficient, offering the lowest overall operating costs  
 Variable Speed, High Torque Cutter Drive System  
 Fresh Water Cooling System  
 Single Module Unitary Hull for easy transportability and assembly  
 Broad range of optional equipment to customize to your work  
 24 V Electric System for Convenience Power

Principal Dimensions:		Cutter	
One piece unitary Hull		Hydraulic Motor/Gear Reducer cutter drive	
Ladder Length	<b>32 Ft. 9.75 Mtr.</b>	Power at cutter shaft	<b>60 HP</b>
Overall Length, ladder up	<b>59 Ft. 18 Mtr.</b>	Cutter Shaft Diameter	<b>3.8 In. 9.525 Cm.</b>
Pontoon Length	<b>43 Ft. 13.1 Mtr.</b>	Cutter Speed	<b>0-35 RPM</b>
Width, Outside	<b>14 Ft. 4.27 Mtr.</b>	Back Ring Diameter (I.D.)	<b>31.5 In. 80.01 Cm.</b>
Depth, pontoons and Hull	<b>4 Ft. 1.22 Mtr.</b>		
Approx. Draft, with fuel	<b>2.5 Ft. 0.76 Mtr.</b>		
Working Depth (45 Deg)	<b>23 Ft. 7.01 Mtr.</b>	Winches	
Working Depth (60 Deg)	<b>28 Ft. 8.53 Mtr.</b>	Ladder: Line Pull	<b>8,000 lbs. 3628.74 Kg.</b>
Suction Pipe Diameter	<b>14 In. 35.6 Cm.</b>	Swing: Line Pull (x2)	<b>8,000 lbs. 3628.74 Kg.</b>
Discharge Pipe Diameter	<b>12 In. 30.5 Cm.</b>		
Dredge Pump		Spuds	
High Chrome <b>14 x 12- 36"</b> Impeller		Length	<b>38 Ft. 11.58 Mtr.</b>
4 Vane w/Cleanout Intake Tee		Diameter	<b>12 In. 30.48 Cm.</b>
		Weight	<b>4,000 lbs. ea. 1814.37 Kg. each</b>
Main Engine		Spud Cylinders	
Caterpillar Industrial Diesel Engine		Size	<b>4 In. Dia. 10.16 Cm. Dia.</b>
Heat Exchanger cooled		Length	<b>48 In. 121.92 Cm.</b>
575 BHP continuous Power @1,800 RPM		Stroke	<b>48 In. 121.92 Cm.</b>
		Spud Travel	<b>4 Ft. 1.22 Mtr.</b>
Gear		Swing Width (40 degrees each side)	
Heavy Duty V-Belt Drive		@ 10 Degree Digging Angle	<b>75 Ft. 22.86 Mtr.</b>
Twin Disc Manual Clutch		@ 60 Degree Digging Angle	<b>55 Ft. 16.76 Mtr.</b>
Options		Theoretical Production Rate	
		Medium Sand, 15 % solids	<b>262 yds<sup>3</sup>/Hr 239.57 M<sup>3</sup>/Hr</b>
		Medium Sand, 25% solids	<b>437 yds<sup>3</sup>/Hr 399.59 M<sup>3</sup>/Hr</b>

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