



Predator 2000-12S Cutterhead Dredge

Features:

Powerful, fuel efficient, offering the lowest overall operating costs
 Variable Speed, High Torque Cutter Drive System
 Fresh Water Cooling System
 Three major Hull sections for easy transportability and assembly
 Broad range of optional equipment to customize to your work
 Belt-Driven generator for AC power

Principal Dimensions:		Cutter	
Ladder Length	42 Ft. 12.8 Mtr.	Hydraulic Motor/Gear Reducer cutter drive	
Overall Length, ladder up	77 Ft. 23.5 Mtr.	Power at cutter shaft	60 HP
Pontoon Length	60 Ft. 18.3 Mtr.	Cutter Shaft Diameter	3.75 In. 9.525 Cm.
Width, Outside	20 Ft. 6.1 Mtr.	Cutter Speed	0-35 RPM
Depth, pontoons and hull	5 Ft. 1.52 Mtr.	Back Ring Diameter (I.D.)	31.5 In. 80.01 Cm.
Approx. Draft, with fuel	2.3 Ft. 0.7 Mtr.		
Working Depth (45 Deg)	30 Ft. 9.14 Mtr.	Winches	
Working Depth (60 Deg)	36 Ft. 11 Mtr.	Ladder: Line Pull	12,000 lbs. 5443.11 Kg.
Suction Pipe Diameter	14 In. 35.6 Cm.	Swing: Line Pull (x2)	12,000 lbs. 5443.11 Kg.
Discharge Pipe Diameter	12 In. 30.5 Cm.		
Dredge Pump		Spuds	
High Chrome 14x12- 36" Impeller		Length	48 Ft. 14.63 Mtr.
4 Vane w/Cleanout Intake Tee		Diameter	12 In. 30.48 Cm.
		Weight	6,000 lbs. ea. 2721.55 Kg. each
Main Engine		Spud Cylinders	
Caterpillar Industrial Diesel Engine		Size	5 In. Dia. 12.7 Cm. Dia.
Heat Exchanger cooled		Length	30 In. 76.2 Cm.
750 BHP Continuous Power @1,800 RPM		Stroke	30 In. 76.2 Cm.
		Spud Travel	10 Ft. 3.05 Mtr.
Auxiliary Power		Deck Mounted Jib Crane	
Single Engine Dredge, no Auxiliary Engine		Capacity	1 Ton
		Reach	8 Ft. 2.44 Mtr.
		Operation	Manual
Gear		Swing Width (40 degrees each side)	
Heavy Duty V-Belt Drive with		@ 10 Degree Digging Angle	98 Ft. 29.87 Mtr.
Integral Clutch		@ 60 Degree Digging Angle	72 Ft. 21.95 Mtr.
Options		Theoretical Production Rate	
		Medium Sand, 15 % solids	262 yds ³ /Hr 239.57 M ³ /Hr
		Medium Sand, 25% solids	437 yds ³ /Hr 399.59 M ³ /Hr

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