



# HYDRODAM NIGERIA LIMITED

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CONSTRUCTION, LAND RECLAMATION, DREDGING ROADS, BRIGDES CONSTRUCTION,  
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## HYDRO GRACE ELLICOT 1270 "DRAGON<sup>®</sup>" CUTTERHEAD DREDGE

1270	1270
English	Metric
18" x 18"	450 x 450
50'	15 M
98'-6"	29.7 m
68'	20.7 m

GENERAL	Discharge pipe x Suction pipe	18" x 18"	450 x 450
	Dredging Depth, maximum	50'	15 M
	Length, Overall, with Ladder raised	98'-6"	29.7 m
	Length, Hull	68'	20.7 m

	<b>Width, Hull, including side pontoons</b>	30'	9.1 m
	<b>Depth, Hull</b>	4'-6"	1.4 m
	<b>Number of Pontoons (tanks)</b>	3	3
	<b>Plate Thickness of center pontoon</b>	1/4" & 5/16"	6 & 8
	<b>Dry Weight</b>	221,000 lbs	100,244 kg
	<b>Hull Draft, not including spuds</b>	2'-10"	.86 m
	<b>Fuel Capacity</b>	10,600 gallons	40,125 liters
	<b>Swing Width, @ minimum Dredging Depth</b>	125'	39.9 m
	<b>Swing Width, @ maximum Dredging Depth</b>	92'	27.9 m
ENGINES	<b>Main Engine (Caterpillar)</b>	C32	C-32
	<b>Power</b>	1000 HP	746 KW
	<b>Rating</b>	Marine Tier 3	Marine Tier 3
	<b>Cooling</b>	Heat Exchanger	Heat Exchanger
	<b>Auxiliary Engine (Caterpillar)</b>	C-9	C-9
	<b>Power</b>	350 HP	261 KW
	<b>Rating</b>	Tier 3	Tier 3
	<b>Cooling</b>	Radiator	Radiator
TOTAL INSTALLED POWER	<b>Not including optional Genset</b>	1350 HP	1007 KW
CUTTER DRIVE	<b>Power at Cutter Shaft</b>	155 HP	116 KW
	<b>Cutter Speed</b>	29 - 42 RPM	29-42 RPM
	<b>Cutter Diameter</b>	54"	1372
	<b>Cutting Force</b>	7,991 lbs	3,625 kg
SPUDS	<b>Diameter</b>	18"	457
	<b>Length</b>	65'	19.7 m
PRODUCTION	<b>Capacity Range of Pumping System</b>	up to 600 cubic yards per hour	up to 500 cubic meters per hour