



The 1170 is a 16” (400 mm) cutterhead dredge that offers good production rates for dredging depths of 33’ (10 m). It incorporates the following features:

- Dredge is equipped with two (2) separate diesel engines, with one (1) totally dedicated to the dredge pump for high production rates.
- The 1170 is relatively compact and is fairly easy to tow and maneuver in confined areas. It can be rapidly mobilized and deployed.
- As the capital investment cost is relatively low, its acquisition can be justified based on low utilization rates.
- With a moderate physical size and emphasis on simple, straightforward controls, training is easy. It can be operated by a crew that is not exclusively dedicated to the dredge.
- Dredge productivity can be increased substantially in confined area dredging with the use of an optional spud carriage.

1170
English

1170
Metric

	1170 English	1170 Metric	
GENERAL	Discharge pipe x Suction pipe	16" x 16"	450 x 450
	Dredging Depth, Maximum	33'	10 m
	Length, Overall , with ladder raised	90"	27.3 m
	Length, Hull	54'	16.5 m
	Width, Hull, including side patoons	23'	7 m
	Depth Hull	4'-6"	1.4 m
	Number of Side Pontoons (Tanks)	3	3
	Plate Thickness of Center Pootoon	1/4" & 5/16"	6 * 8 mm
	Dry Weight	180,000 lbs	81,360 kg
	Hull Draft, not including spuds	2' 10"	0.86 m
Fuel Capacity	3,300 galllons	12,492 liters	
ENGINES	Swing Width @ Minmum Dredging Depth	104'	31.7 m
	Swing Width @ Maximum	89'	27.1 m
TOTAL INSTALLED POWER	Main Engine (Caterpillar)	C-32	C-32
	Power	850 HP	634 KW
	Ratng	Tier 3	Tier 3
	Cooling	Heat Exchanger	Heat Exchanger
CUTTER DRIVE	Auxiliary Engine (Caterpillar)	C-9	C-9
	Power	350 HP	261 KW
	Rating	Tier 3	Tier 3
	Cooling	Radiator	Radiator
SPUDS	Not including optional Genset	1200 HP	895 KW
	Power at Cutter Shaft	155 HP	116 KW
	Cutter Speed	29-42 RPM	29-42 RPM
	Cutter Diameter	54"	1,372 m
Proudction	Cutting Force	7,991 lbs	3,625 kg
	Diameter	18"	457 m
	Length	47'	14.3 m
	Capcity Range of Pumping Systems	up to 575 yd ³ / hr	up to 475 m ³ /hr