



The 1870 is a medium/large size dredge that is portable and truckable to inland location. Through the use of two large diesel engines, the production rate is quite high for a portable dredge.

- Additionally the 1870 is able to dredge up to 15 meters deep, allowing it to work in major shipping channels.
- The 1870 is designed to be rugged and reliable. Because of its large size, however, the dredge operator should be somewhat skilled.
- The 1870 offers very high production rates for a portable dredge, yet is built to be very robust and reliable.
- Typical owners are dredging contractors and government agencies
- Typical uses of the 1870 are river, port and harbor dredging, and land reclamation. It is also highly capable of working in coastal areas.

		1870	1870
		English	Metric
GENERAL	Discharge pipe x Suction pipe	20" x 20"	500 x 500
	Dredging Depth, maximum	50'	15 m
	Length, Overall, with Ladder raised	117'	35.5 m
	Length, Hull	82'	25 m
	Width, Hull, including side pontoons	27'	8.2 m
	Depth, Hull	6'	1.8 m
	Number of Pontoons (tanks)	5	5
	Plate Thickness of center pontoon	5/16"	8
	Dry Weight	410,000	186,000 kg
	Hull Draft, not including spuds	4'	1.2 m
	Fuel Capacity	7,900 gallons	29,900 litres
	Swing Width, @ minimum Dredging Depth	152'	46.3 m
	Swing Width, @ maximum Dredging Depth	122'	37.2 m
	ENGINES	Main Engine (Caterpillar)	3512
Power		1280 HP	955 kW
Cooling		Heat Exchanger	Heat Exchanger
Auxiliary Engine (Caterpillar)		C-15	C-15
Power		475 HP	354 kW
Rating		Tier 3	Tier 3
TOTAL INSTALLED POWER	Cooling	Heat Exchanger	Heat Exchanger
	Not including optional Genset	1755 HP	1309 kW
CUTTER DRIVE	Power at Cutter Shaft	250 HP	186 kW
	Cutter Speed	18-27-36 RPM	18-27-36 RPM
	Cutter Diameter	54"	1372
	Cutting Force	14,900	6,759
SPUDS	Diameter	24"	610
	Length	67'-4"	20.4 m
PRODUCTION	Capacity Range of Pumping System	up to 1200 yd ³ /hr	up to 1000 m ³ /hr