



14" x 14" (350 mm x 350 mm) Hydraulic Cutter Suction Dredge

The Series 870JD **JET DRAGON**® cutterhead dredge is a unique deep digging dredge for obtaining sand and other materials at reasonably deep depths. Features include:

- Highly portable for trucking to inland locations.
- Jet pump assist allows for high production rate in deep digging applications without the complications of a ladder pump.
- State-of-the-Art PLC-based control system.
- Dual water nozzles at cutter assists in cleaning and dislodging material.
- Pumping capacity powered by 575 HP (431 kW) engine with 100 HP (74 kW) cutter drive and 385 HP (289 kW) auxiliary engine.
- Typical uses include sand and gravel mining, land reclamation and smaller contractor applications.



Series 870JD Jet Dragon® Dredge

	870JD English	870JD Metric
--	------------------	-----------------

GENERAL	Suction Pipe x Discharge Pipe	14" x 14"	350 mm x 350 mm
	Dredging Depth, Maximum	60'	18.2 m
	Length, Overall (with Ladder Raised)	106'-6"	32.5 m
	Length, Hull	65'	15.3 m
	Width, Hull (including Side pontoons)	22'	6.7 m
	Depth, Hull	4'	1.22 m
	Number of pontoons (Tanks)	5	
	Plate Thickness of Center Pontoon	1/4"	6 mm
	Dry Weight	167,000 lbs	75,749 kg
	Hull Draft (not including spuds)	3'-1"	0.96 m
	Fuel Capacity	2,700 gallons	10,221 liters
	Swing Width @ Minimum Dredging Depth	130'	39.4 m
	Swing Width @ Maximum Dredging Depth	97'	29.4 m
	ENGINES	Main Engine (Caterpillar)	C-18
Power		575 HP	431 kW
Rating		Tier 3	
Cooling		Radiator	
Auxiliary Engine (Caterpillar)		C-13	
Power		385 HP	289 kW
TOTAL INSTALLED POWER	Rating	Tier 3	
	Cooling	Radiator	
CUTTER DRIVE	Not Including Optional Genset	960 HP	720 kW
	Power at Cutter Shaft	100 HP	75 kW
	Cutter Speed	0-36 RPM	
	Cutter Diameter	43"	1,092 mm
	Cutting Force	7,405 lbs	3,358 kg
3 Way Stern Wire System (in Lieu of Spuds)			
Specifications Are Subject to Change Without Notice			

Rev. 7/29/19