



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 |
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| 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 | | | |

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