



## 20" x 20" (500 mm x 500 mm) Hydraulic Cutter Suction Dredge

The Series 2070 Dragon® cutterhead dredge is both portable and truckable to inland locations. In addition, the dredge is capable of dredging up to 50' (15 m). Features include:

- Most modern 20" dredge design in the world that incorporates Ellicott's world-renowned design techniques.
- The 2070 is able to dredge up to 50' (15 m) depth, allowing it to work in major shipping channels.
- Hydraulic system was designed with a focus on efficiency resulting in lower fuel consumption and higher dredging systems performance.
- Two separate engines that operate independently to drive the pump and hydraulic system. This allows full hydraulic power to the cutter and winches even when RPMs are reduced on the pump—something single engines cannot do.
- Designed to Bureau of Veritas (B.V.) Sheltered Water Rules and is suitable for a variety of applications including harbors, rivers, and sand mining projects

|                             |                                                                 | 2070<br>English | 2070<br>Metric  |
|-----------------------------|-----------------------------------------------------------------|-----------------|-----------------|
| GENERAL                     | Suction Pipe x Discharge Pipe                                   | 20" x 20"       | 500 mm x 500 mm |
|                             | Dredging Depth, Maximum                                         | 50'             | 15 m            |
|                             | Length, Overall (with Ladder Raised)                            | 110'-10"        | 33.8 m          |
|                             | Length, Hull                                                    | 72'             | 21.8 m          |
|                             | Width, Hull (including Side Pontoons)                           | 26'-6"          | 8 m             |
|                             | Depth, Hull                                                     | 7'-6"           | 23 m            |
|                             | Number of Pontoons (Tanks)                                      | 3               |                 |
|                             | Plate Thickness of Center Pontoon                               | 1 / 4" & 5/16"  | 6 & 8 mm        |
|                             | Dry Weight                                                      | 324,000 lbs     | 146,940 kg      |
|                             | Hull Draft (not Including Spuds)                                | 4.5'            | 1.37 m          |
|                             | Fuel Capacity                                                   | 9,000 gallons   | 34,068 liters   |
|                             | Swing Width @ Minimum Dredging Depth                            | 138'-4"         | 42.2 m          |
|                             | Swing Width @ Maximum Dredging Depth                            | 111'-4"         | 33.9 m          |
|                             | Main Engine (Caterpillar)                                       | Marine C-32     |                 |
| ENGINES                     | Power                                                           | 1,300 HP        | 969 kW          |
|                             | Rating                                                          | Tier 3          |                 |
|                             | Cooling                                                         | Heat Exchanger  |                 |
|                             | Auxiliary Engine (Caterpillar)                                  | C-15            |                 |
| TOTAL<br>INSTALLED<br>POWER | Power                                                           | 440 HP          | 328 kW          |
|                             | Rating                                                          | Tier 3          |                 |
|                             | Cooling                                                         | Heat Exchanger  |                 |
|                             | Not Including Standard Genset                                   | 1,740 HP        | 1,298 kW        |
| CUTTER<br>DRIVE             | Power at Cutter Shaft                                           | 250 HP          | 186 kW          |
|                             | Cutter Speed                                                    | 18-27-36 RPM    |                 |
|                             | Cutter Diameter                                                 | 54"             | 1,372 mm        |
|                             | Cutting Force                                                   | 14,900 lbs      | 6,759 kg        |
| SPUDS                       | Diameter                                                        | 24"             | .6 m            |
|                             | Length                                                          | 66'-2"          | 20 m            |
|                             | Preliminary Specifications are Subject to Change Without Notice |                 |                 |

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