DRAGFLOW MODEL DRH300E23

**WORKING DIMENSIONS**

- Length: 11.5 m (37 ft. 8 in.)
- Width: 8 m (26 ft. 3 in.)
- Height: 6.5 m (21 ft. 4 in.)
- Weight: 40 tons

**INTERNATIONAL SHIPPING DIMENSIONS**

- Shipping Method: Four (4) containers 40'

**FLOTATION**

- Dimensions: Two (2) pontoons 11.5 m x 1.8 m x 1.8 m
- Catamaran Style
- Draft: 90 – 100 cm

**WORKING CAPACITY**

- Capacity: 700 m³/h – 1100 m³/h (3082 gpm – 4850 gpm)
- Head: 38 m – 28 m (124 ft. – 91 ft.)
- Working Depth: Up to 100 m (328 ft.)

**ENGINE**

- Type: CAT or IVECO Diesel engine (375kW/502HP) (Other brands on demand)
- Fuel Capacity: 10,000 liters
- Fuel Consumption: 250 gr/kW/h
- Power Packs can also be based on Electric motors

**SUBMERSIBLE DREDGE PUMP**

- Type: HY300A/B
- Discharge: 250 mm – 300 mm (10in. – 12 in.)
- Diameter: 760 mm (2 ft. 6 in.) / 2 blades, closed
- Impeller Diameter: 120 mm (4.72 in.)
- Speed: 600 r.p.m. – 750 r.p.m. (variable)
- Oil requirements: 380 l/min @ 300 bar
- Power: 190 kW (260HP)

**OPTION 1 – EXCAVATORS**

- Diameter: 1000 mm (3 ft. 3 in.) each
- Replaceable Teeth: Regular, sharp or wide head teeth
- Drive: Radial piston hydraulic motor
- Oil requirements: 35 l/min - 46 l/min - 58 l/min @ 350 bar
- Weight: 550 kg each
- Speed: 30 r.p.m – 40 r.p.m – 50 r.p.m
- Torque: 501 kgm – 504 kgm – 507 kgm
- Rotation: Both directions

**OPTION 2 – JET RING SYSTEM**

- Water capacity: 20 m³/h – 200 m³/h
- Pressure: 6 bar – 7 bar
- Drive: On-barge horizontal high pressure pump

**PROPULSION**

- Primary System: Four (4) 50 m steel Winches (available up to 211 m)
- Secondary System: Helix Propeller (OPTIONAL)

**ELECTRICAL SYSTEM**

- Voltage: On request
- Alternator Output: 24 V

**SAFETY FEATURES**

- Includes: 2 fire extinguishers, hand rail, folding cabin door, warning horn, life rings, life jackets, locking power unit.

**ANTI-CORROSION FEATURES**

- Includes: Hull below deck painted with marine-grade epoxy. Hull above deck painted with polyurethane epoxy and remaining components coated with heavy-duty powder coating all suitable for salt-water service.

**EQUIPMENT**

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ANTI-CORROSION PACKAGE AVAILABLE ON REQUEST (PH 2 – 12)
**THE DREDGE**

- **Hydraulic Power Pack**
  - Separate oil pumps for pump and excavators
  - Sound Proof Canopy
  - IVECO, VOLVO or CAT engine
  - Remote or Radio controlled
  - Closed hydraulic circuit

- **Excavators**
  - Diameter: 1000mm
  - Replaceable teeth
  - Radial piston hydraulic motor
  - Oil requirement: 58 l/min each
  - Weight: 550kg
  - Speed: 30 r.p.m. – 50 r.p.m.
  - Torque: 507 kgm
  - Rotates in both directions

- **Operator Cabin**
  - Complete Control panel
  - Equipped with heating and air conditioning
  - Operator chair
  - Safety equipment
  - Equipment status
  - Emergency Stop controls

- **Winches (x4)**
  - For moving the dredge
  - Steel cables
  - Optional propeller

- **Hydraulic Hoist**
  - Carefully move the pump up and down
  - Depth measuring pulley

- **Floaters**
  - Catamaran style
  - Two (2) pontoons 11.5 m x 1.8 m x 1.8 m
  - Small draft

- **Jet-Ring System**
  - Water Capacity: 20 m³/h – 200 m³/h
  - Pressure: 6 bar – 7 bar
  - Drive: Horizontal high pressure pump

**THE PUMP**

- **Pump**
  - Capacity: 700 m³/h – 1100 m³/h
  - Head: 38m – 28m
  - Discharge diameter: 250mm – 300mm
  - Impeller diameter: 760mm
  - Max. solid handling: 120mm
  - Speed: 750 r.p.m.
  - Oil requirement: 380 l/min

- **Jet-Ring System**
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  - Drive: Horizontal high pressure pump