# DRAGFLOW Model DRH085/160E22

## Working Dimensions
- **Length:** 8.5 m (27 ft. 11 in.)
- **Width:** 6 m (19 ft. 8 in.)
- **Height:** 4.25 m (13 ft. 11 in.)
- **Weight:** 25 tons

## International Shipping Dimensions
- **Shipping Method:** Four (4) containers 40’

## Flotation
- **Dimensions:** Two (2) pontoons 8.5 m x 1.8 m x 1.25 m With central floater
- **Draft:** 80 – 90 cm

## Working Capacity
- **Capacity:** 450 m³/h – 800 m³/h (1981 gpm – 3520 gpm)
- **Head:** 56 m – 22 m (183 ft. – 72 ft.)
- **Working Depth:** Up to 100 m (328 ft.)

## Engine
- **Type:** CAT or IVECO Diesel engine (260kW/350HP) (Other brands on demand)
- **Fuel Capacity:** 2,500 liters
- **Fuel Consumption:** 250 gr/kW/h
- **Power Packs** can also be based on Electric motors

## Submersible Dredge Pump
- **Type:** HY85/160A/B/HC
- **Discharge:** 200 mm – 250 mm (8in. – 10 in.)
- **Impeller Diameter:** 440 mm (1 ft. 5 in.) / 3 blades, closed
- **Max. Solid Handling:** 60 mm (2.36 in.) / 90 mm (3.54 in.)
- **Oil requirements:** 240 l/min @ 300 bar
- **Power:** 120 kW (165HP)

## Option 1 – Excavators
- **Diameter:** 700 mm (2 ft. 3 in.)
- **Replaceable Teeth:** Regular, sharp or wide head teeth
- **Drive:** Radial piston hydraulic motor
- **Oil requirements:** 22 l/min - 29 l/min - 36 l/min @ 300 bar
- **Weight:** 500 kg each
- **Speed:** 30 r.p.m – 40 r.p.m – 50 r.p.m
- **Torque:** 311 kgm – 313 kgm – 314 kgm
- **Rotation:** Both directions

## Option 2 – Jet Ring System
- **Water capacity:** 20 m³/h – 200 m³/h
- **Pressure:** 6 bar – 7 bar
- **Drive:** 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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<th>Full Optional</th>
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<td>Hydraulic Hoist</td>
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<td>Hydraulic Spooler (up to 300m)</td>
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<td>Tier3 B (OPTIONAL)</td>
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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 Diesel engine
- Remote or Radio controlled
- Closed hydraulic circuit

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

Floaters
- Three (3) pontoons 8.5 m x 1.8 m x 1.25 m
- Small draft

Hydraulic Hoist
- Carefully move pump up and down
- Depth measuring pulley
- Supply Oil hoses

THE PUMP

Excavators
- Diameter: 700mm
- Replaceable teeth
- Radial piston hydraulic motor
- Oil requirement: 35 l/min each
- Weight: 500kg
- Speed: 30 r.p.m. – 50 r.p.m.
- Torque: 314 kgm
- Rotates in both directions

Pump
- Capacity: 450 m³/h – 800 m³/h
- Head: 56m – 22m
- Discharge diameter: 200mm – 250mm
- Suction diameter: 548mm
- Impeller diameter: 440mm
- Max. solid handling: 60mm/90mm
- Speed: 1480 r.p.m.
- Oil requirement: 240 l/min

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