**WORKING DIMENSIONS**

Length: 11.5 m (37 ft. 9 in.)
Width: 8 m (26 ft. 3 in.)
Height: 5.6 m (18 ft. 4 in.) Arm excluded
Weight: 45 ton

**INTERNATIONAL SHIPPING DIMENSIONS**

Shipping Method: Five (5) containers 40'

**FLOTATION**

Dimensions: Two (2) pontoons 11.5 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 6.5 m (21 ft. 4 in.)
Arm Swing: ± 15°

**ENGINE**

Type: CAT or IVECO Diesel engine (260kW/350HP) (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: HY85/160A/B/HC
Discharge: 200 mm – 250 mm (8in. – 10 in.)
Diameter: 440 mm (1 ft. 5 in.) / 3 blades, closed
Max. Solid Handling: 60 mm (2.36 in.) / 90 mm (3.54 in.)
Speed: 980 r.p.m. / 1450 r.p.m (variable)
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, 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**

<table>
<thead>
<tr>
<th>BASIC</th>
<th>STANDARD</th>
<th>FULL OPTIONAL</th>
<th>HIGH DEPTH*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winches for moving</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Night time operating lights</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hydraulic Arm</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Operator Cabin</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Control Panel</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Grapple Tool</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>A/C and Heating</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Digital Depth Gauge</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Dredge GPS System</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Helix Propeller</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sound Proof Canopy</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Umbilical Hose</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hydraulic Spooler (up to 300m)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Pressure Compensator</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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

*High Depth Version incurs in different hull dimensions
**THE DREDGE**

**Hydraulic Power Pack**
- Separate oil pumps for pump and excavators
- Sound Proof Canopy
- IVECO, VOLVO or CAT Diesel engine
- 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

**Hydraulic Arm**
- Carefully move pump up and down
- Depth measuring pulley
- Reach up to 6.5 m
- Possibility to use other hydraulic tools

**Floaters**
- Two (2) pontoons 11.5 x 1.8 m x 1.25 m with Central Floater
- Small draft

**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

---

Via Paesa, 46048 Roverbella (MN)
Italy
www.dragflow.it
info@dragflow.it