

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 Diameter: 250 mm – 300 mm (10in. – 12 in.)
 Impeller Diameter: 760 mm (2 ft. 6 in.) / 2 blades, closed
 Max. Solid Handling: 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	BASIC	STANDARD	FULL OPTIONAL	HIGH DEPTH
Winches for moving	X	X	X	X
Night time operating lights	X	X	X	X
Hydraulic Hoist	X	X	X	X
Operator Cabin	X	X	X	X
Control Panel	X	X	X	X
A/C and Heating		X	X	X
Digital Depth Gauge		X	X	X
Dredge GPS System			X	X
Helix Propeller			X	X
Umbilical Hose			X	X
Sound Proof Canopy			X	X
Spring driven Spooler (up to 15m)			X	
Hydraulic Spooler (up to 300m)				X
Pressure Compensator				X
TIER3 B (OPTIONAL)				

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

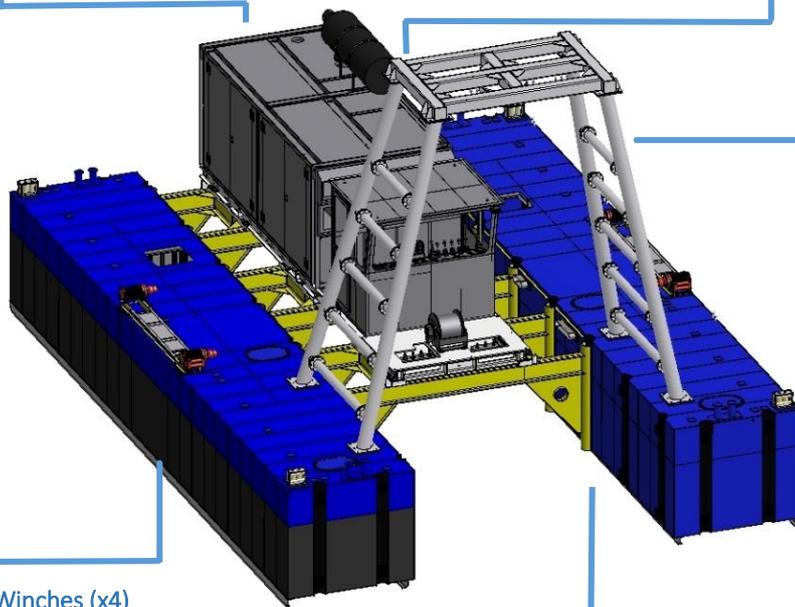
Operator Cabin

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



Hydraulic Hoist

- Carefully move the pump up and down
- Depth measuring pulley



Winches (x4)

- For moving the dredge
- Steel cables
- Optional propeller

Floaters

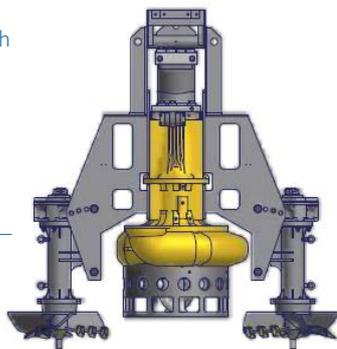
- Catamaran style
- Two (2) pontoons 11.5 m x 1.8 m x 1.8 m
- Small draft



THE PUMP

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



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

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

