

WORKING DIMENSIONS

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|---------|------------------------|
| 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

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|------------------|-------------------------|
| Shipping Method: | Four (4) containers 40' |
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FLOTATION

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|-------------|----------------------------------------------------------|
| Dimensions: | Two pontoons 8.5 m x 1.8 m x 1.25 m with Central Floater |
| Draft: | 80 – 90 cm |

WORKING CAPACITY

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|----------------|---------------------------------------------------------------------|
| Capacity: | 350 m ³ /h – 700 m ³ /h (1540 gpm – 3082 gpm) |
| Head: | 40 m – 12 m (131 ft. – 39 ft.) |
| Working Depth: | Up to 100 m (328 ft.) |

ENGINE

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|--------------------------------------------------|-------------------------------------------------------------------|
| Type: | CAT or IVECO Diesel engine (175kW/230HP) (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

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|----------------------|---------------------------------------|
| Type: | HY85A/B/HC |
| Discharge Diameter: | 200 mm – 250 mm (8in. – 10 in.) |
| Impeller Diameter: | 440 mm (1 ft. 5 in.) / 3 blades, open |
| Max. Solid Handling: | 60 mm (2.36 in.) / 90 mm (3.54 in.) |
| Speed: | 980 r.p.m. / 1180 r.p.m (variable) |
| Oil requirements: | 130 l/min @ 300 bar |
| Power: | 65 kW (90HP) |

OPTION 1 – EXCAVATORS

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|--------------------|------------------------------------------|
| 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

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|-----------------|----------------------------------------------|
| Water capacity: | 20 m ³ /h – 200 m ³ /h |
| Pressure: | 6 bar – 7 bar |
| Drive: | On-barge horizontal high pressure pump |

PROPULSION

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

ELECTRICAL SYSTEM

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| Voltage: | On request |
| Alternator Output: | 24 V |

SAFETY FEATURES

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

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| 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. |
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| 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

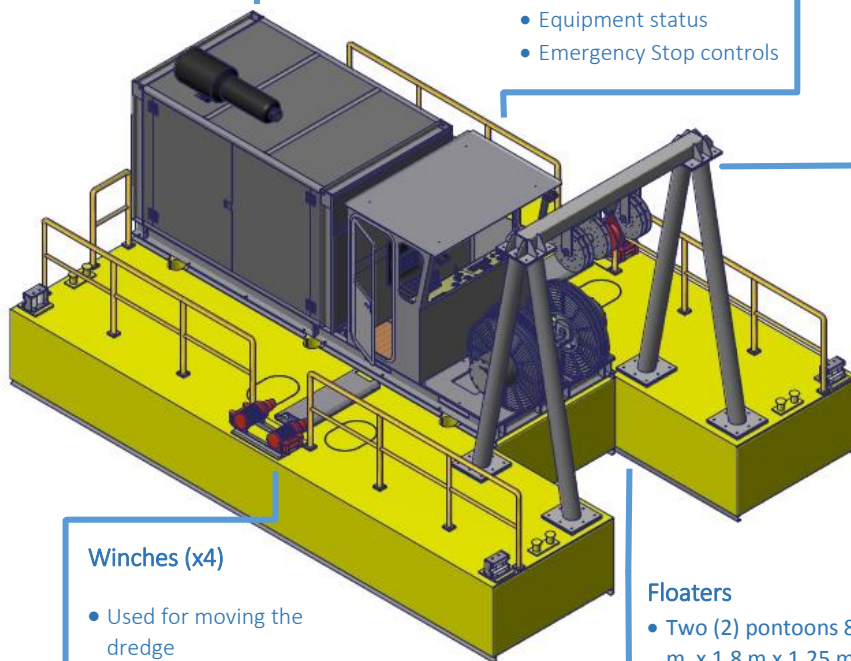
Operator Cabin

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



Hydraulic Hoist

- Carefully move pump up and down
- Depth measuring pulley
- Oil hose supply



Winches (x4)

- Used for moving the dredge
- Steel cables
- Optional propeller

Floater

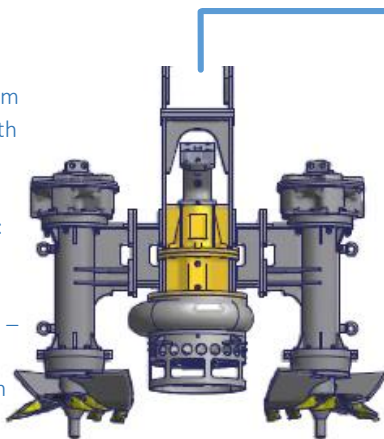
- Two (2) pontoons 8.5 m x 1.8 m x 1.25 m with central floater
- Small draft



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: 350 m³/h – 700 m³/h
- Head: 40m – 12m
- Discharge diameter: 200mm – 250mm
- Suction diameter: 548mm
- Impeller diameter: 440mm
- Max. solid handling: 60mm/90mm
- Speed: 1180 r.p.m.
- Oil requirement: 130 l/min

Jet-Ring System

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

