

DRP150

DRAGFLOW

ULTIMATE EFFICIENCY



The **DRP150** is a portable remote-controlled dredge that can be equipped with different models of electric pumps such as **EL60**, **EL1204**, **EL110** or **EL180** and allows the use of cutters.

This dredge is **versatile, easy to use and very safe**: it can be operated through a wireless remote control. No need of operators onboard!

The main functions are cleaning of **industrial and mining ponds and maintenance dredging** in harbors.

MAIN FEATURES

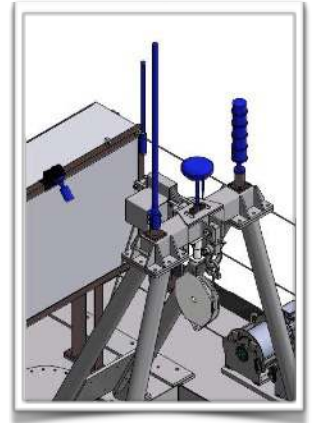
- ➔ Small dimensions: easy to transport and to assembly, it can be used also in very small basins and harbors.
- ➔ Highly customizable: it can be equipped with GPS, cameras, position lights, jet system and more.
- ➔ Thanks to its small draft this dredge can work in shallow waters.

THE DREDGE



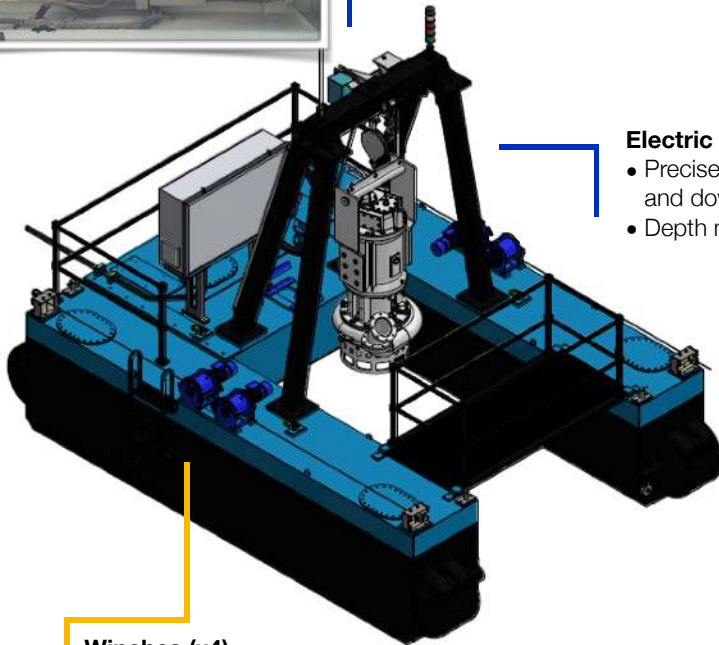
Electric control panel

- Complete control panel
- Connection for Power cable
- Regulates pump start-up with soft starter
- Distributes Power to all components on the dredge



Electric Hoist

- Precisely moves pump up and down
- Depth measuring pulley



Electronic control equipment

- Light tower
- Antenna for long distance remote control signal
- GPS
- Security camera
- Echo sounder



Winches (x4)

- Used for moving the dredge
- Steel cables up to 110m
- Optional propeller

Floaters

- Two (2) pontoons 6,5 m x 1 m x 1,5 m with central platform
- Small draft

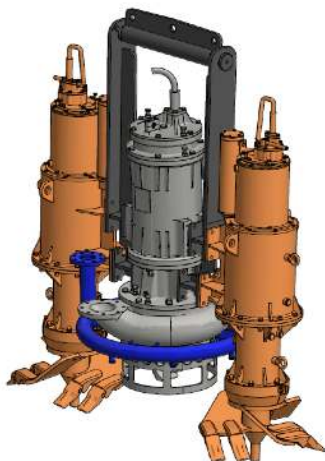
Cooling jacket system

for cooling pump's electric motor

Remote Control

- Turns pump and jet system ON/OFF
- Moves pump and dredge over dredging area
- Emergency stop
- Display with working depth and power consumption

JET RING SYSTEM



Jet ring system

High pressure water jets used to break the material and provide a higher solid concentration in the mixture

- **Water capacity:** 60-100 m³/h
- **Pressure:** 6 bar - 7 bar
- **Drive:** Horizontal high pressure centrifugal pump



SET UP



ONE DREDGE FOR MANY PURPOSES

Have you ever thought that, **with only one dredge, you could do different jobs?**

Our **DRP150** can be equipped with different electric dredging pumps such as the **EL60, EL 1204, EL110* and EL180***.

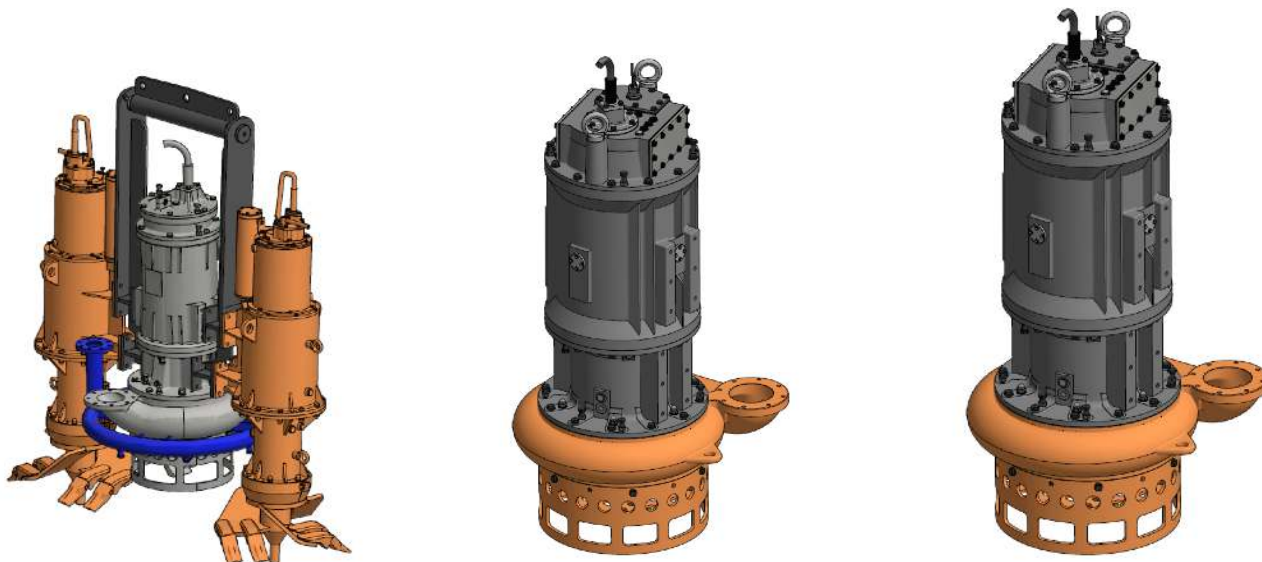
One dredge, many purposes, but always with the **DRAGFLOW trademark**: efficiency and toughness!

** Due to stability reasons these pumps can't be equipped with additional tools*

MATERIALS

Casing	Spheroidal cast iron EN-GJS500-7 (EN1563)
Motor housing	Cast iron EN-GJL-250 (EN 1561)
Wear parts	High Chrome EN-GJN-HV600 (XCr18) (EN 12513)
Albero motore	High tensile steel 39iNiCrMo3 (AISI 9840)

Standard materials. For acid proof pumps, see the specifications on the technical data sheet



PUMPS RANGE

The DRP150 can be equipped with different models of electric dredging pumps. The operating range is as follows (depending on the pump selected)

Maximum capacity from 325 m³/h to 700 m³/h
Maximum head from 30 m to 80 m
Hose diameter DN150 - DN200
Solid passage 60-90 mm

WORKING DIMENSIONS

Lenght	6,5 (21,3 ft)
Width	4,5 m (14,7 ft)
Height	5 m (16,4 ft)
Weight	8,5 ton

FLOTATION

Dimensions	Two pontoons 6,5 m x 1 m x 1,5 m. With central platform.
Draft	50-60 cm

PROPULSION

Primary System

Four (4) 50 m steel winches (available up to 110 m)

Secondary System

Helix propellers (optional)

TRANSPORTATION - ASSEMBLY

Transportable in two container 40' open-top
Assembly operations takes as short as 6-8 hours

JET RING SYSTEM

Water capacity	60 m ³ /h
Pressure	6 bar -7 bar
Drive	On barge horizontal high pressure pump

WORKING CAPACITY

EL60 CAPACITY [m³/h-(gpm)]: 130 (572)-260 (1145)
HEAD [m (ft)] 28(92)-25(82)
DISCHARGE DIAMETER: DN150
MAX SOLID HANNDLING: 60 mm

EL1204 CAPACITY [m³/h-(gpm)]: 158 (696)- 360(1585)
HEAD [m (ft)] 48(157)-40(131)
DISCHARGE DIAMETER: DN150
MAX SOLID HANDLING: 60 mm

EL110* **CAPACITY** [m³/h-(gpm)]: 180(793)- 420(1849)
HEAD [m (ft)] 34(112)-28(92)
DISCHARGE DIAMETER: DN200
MAX SOLID HANDLING: 60 mm

EL180* **CAPACITY** [m³/h-(gpm)]: 270(1189)- 540(2378)
HEAD [m (ft)] 43(141)-33(108)
DISCHARGE DIAMETER: DN200
MAX SOLID HANNDLING: 60 mm

*(without excavators)

POWER SOURCE

Type

On-shore Electric Power Generator

Minimum required power

360 KVA



EQUIPMENT	STANDARD	FULL OPTIONAL
Winches for moving	X	X
Night time operating lights	X	X
Electric Hoist	X	X
Control Panel	X	X
Digital Depth Gauge	X	X
Power Consumption	X	X
Temperature Sensor		X
Operator Cabin		X
Dredge GPS System		X
Pond Bottom Liner Protection		X
Helix Propeller		X
Jet-Ring System		X
Security camera		X