

DRP120

DRAGFLOW
ULTIMATE EFFICIENCY



DRP120 is a portable remote-controlled dredge that can be equipped with different models of electric dredging pumps: **EL1204**, **EL1204 HC** or **EL1204 HH**.

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 basic applications are cleaning of **industrial and mining ponds** and **maintenance dredging** in harbors.

MAIN FEATURES

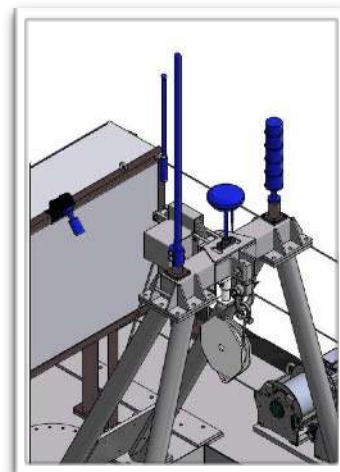
- ➔ Small dimensions: easy to transport and to assembly, can be used also in very small basins and harbors.
- ➔ Highly customizable: can be equipped with GPS, cameras, position light, jet system, and more.
- ➔ Thanks to its small draft this dredge can work in shallow waters.

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

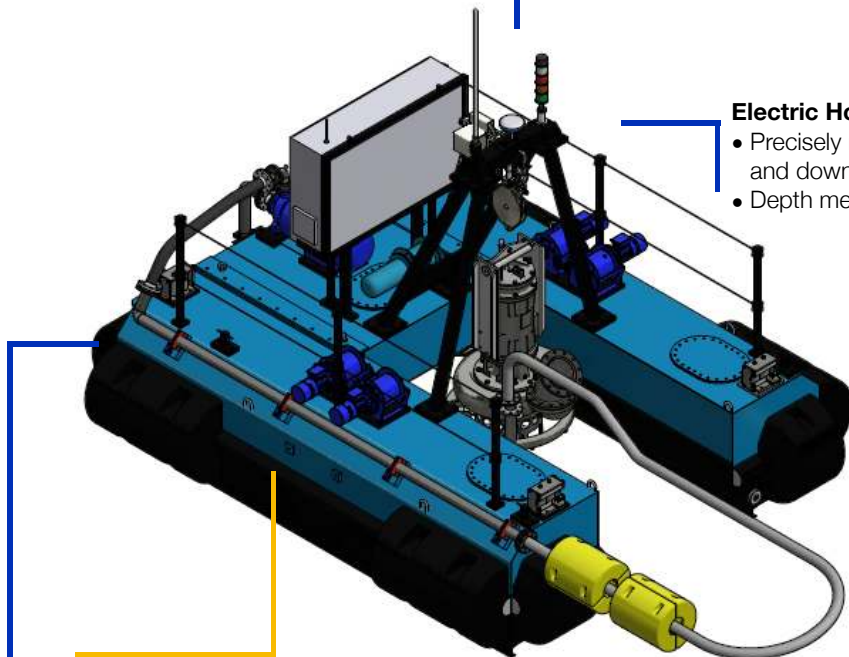


Electric Hoist

- 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
- Optional propeller

Floaters

- Two (2) pontoons 4,5 m x 1 m x 1,25 m with 1,8 x 1,8 m 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
- 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:** 60m³/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 **DRP120** can be equipped with three different electric pumps: **EL1204**, **EL1204 HC** and **EL1204HH** depending on flow and head requirements.

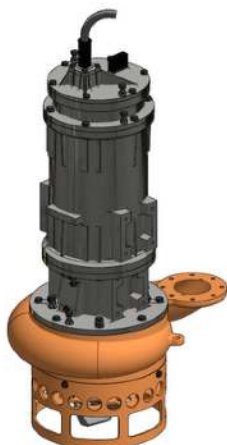
One dredge, many purposes, but always with the **DRAGFLOW trademark**: efficiency and toughness!

MATERIALS

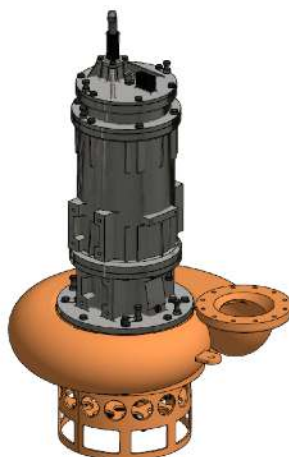
Casing	Spheroidal cast iron EN-GJS500-7 (EN1563)
Motor housing	Cast iron EN-GJL-250 (EN 1561)
Wear parts	High Chrome EN-GJN-HV600 (XCr18) (EN 12513)
Albero motore	High tensile steel 39iNiCrMo3 (AISI 9840)

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

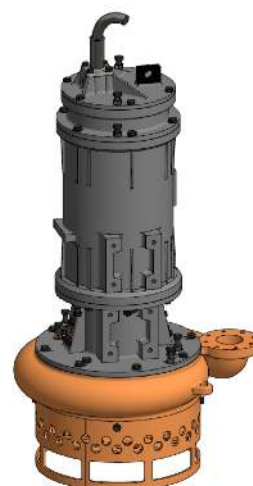
STANDARD



HIGH FLOW



HIGH HEAD



PUMPS RANGE

The DRP can be equipped with different models of electric dredging pumps. The operating range is as follows.

Maximum capacity from 400 m³/h to 700 m³/h

Maximum head from 27 m to 80 m

Hose diameter DN100 to DN250

Solid passage from 35 to 90 mm

HULL MAIN FEATURES

Overall dimensions	<i>Length</i>	5,3 m (17 ft)
	<i>Width</i>	4,3 m (14 ft)
	<i>Height</i>	4 m (13 ft..)
Weight	5,7 ton	
Draft	50-60 cm	

FLOTATION

Dimensions	Two pontoons 4,5mx1mx1,2m. With central platform.
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PROPULSION

Primary System

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

Secondary System

Helix propeller (optional)

TRANSPORTATION - ASSEMBLY

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

CERTIFICATIONS



WORKING CAPACITY

EL1204

CAPACITY [m³/h-(gpm)]: 158(696)-300(1320)
HEAD [m (ft)] 46(202)-32(140)
DISCHARGE DIAMETER: DN150/200
MAX SOLID HANDLING: 60 mm

EL1204HC

CAPACITY [m³/h-(gpm)]: 400 (1760)-700 (3082)
HEAD [m (ft)] 23(75)-16 (52)
DISCHARGE DIAMETER: DN250
MAX SOLID HANDLING: 90 mm

EL1204HH

CAPACITY [m³/h-(gpm)]: 120 (528)-300(1320)
HEAD [m (ft)] 72(236)-42(137)
DISCHARGE DIAMETER: DN100
MAX SOLID HANDLING: 35 mm

For further details please refer to the pumps data sheets

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