

# Remote-controlled Dredges

Submersible Dredging Pumps | Remote Controlled Dredges Cable Dredgers  
| Amphibious Dredges

**DRAGFLOW**



## DRP: Remote-controlled dredge

Efficient and safe

The remote-controlled dredges (DRP) are the ideal solution for dredging in particularly complex and hard to reach environments. Extremely versatile, they can be used in many applications: from ports to quarries, from mines to industrial basins.

Thanks to the remote control, they can safeguard the operators' safety in case they work in the presence of acidic or corrosive substances, as often happens in the industrial or mining sector.

They can be transported and assembled more easily than larger dredges, with savings both in terms of time and startup costs. In addition, the low draft and compact design allow access even in narrow and shallow basins, where it would not be possible to operate with larger dredges.

Small but powerful, DRPs are available in different versions: they can mount pumps of different power and be equipped with the most suitable accessories for the type of dredging required. Maximum production reaches 1000 cubic meters/hour.



## Main characteristics

### Small dimensions

Easy to transport and put into operation. Able to operate in areas that would be difficult to access with larger dredges. Operates easily in shallow water.

### High level of customisation

DRP's can be equipped with GPS, video cameras security, jet ring systems, position lights and other accessories based on needs.

### Easy to maneuver at a distance thanks to the remote control

Simple and intuitive controls to operate the dredge, pump and accessories.

Ability to **automate pump movements and monitor job history** through a single control panel.

**Advanced detection tools** for measuring and maintaining performance.

**Remote assistance** to remotely carry out maintenance operations or changes to the settings of work.

# Remote-controlled Dredges

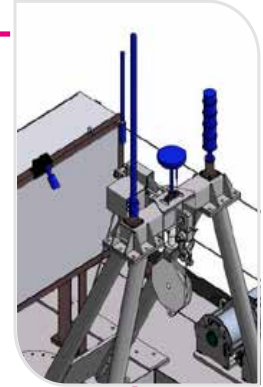
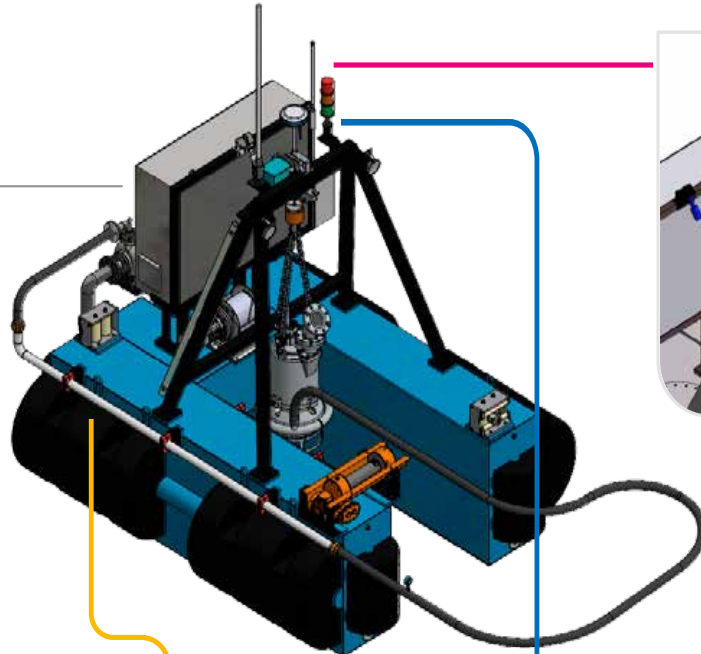
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## DRP18



**Electric control panel**



### Electronic control equipment

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

### Winches

- Used to move the dredge
- Synchronized movement



### Remote control

- Turns pump and jet ring on/off
- Moves pump and dredge
- Emergency stop
- Display with working depth and power consumption

### Electric hoist

- Precisely moves the pump
- Depth measuring pulley

# Remote-controlled Dredges

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## DRP18

### DIMENSIONS



Length.....3.5 m  
Width.....2.8 m  
Height.....2.8 m  
Weight.....2 ton



### TRANSPORT

Transportable in one container  
open top 20' 140 quintals capacity



### MODULAR DESIGN

Dimensions:  
2 floaters 3 x 0.5 x 1m  
Draft:  
60 cm

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

### EL5

**CAPACITY [m<sup>3</sup>/h-(gpm)]:** 14(62)-38,5(170)

**HEAD [m(ft)]:** 12,5(41)-8(26)

**HOSE ADAPTOR DIAMETER:** 80 mm

**MAX SOLID HANDLING:** 20 mm

### EL7,5

**CAPACITY [m<sup>3</sup>/h-(gpm)]:** 17,5(77)-45(200)

**HEAD [m(ft)]:** 16(52)-13,5(44)

**HOSE ADAPTOR DIAMETER:** 100 mm

**MAX SOLID HANDLING:** 25 mm

### EL10

**CAPACITY [m<sup>3</sup>/h-(gpm)]:** 21(92)-49(215)

**HEAD [m (ft)]:** 22(72)-20(66)

**HOSE ADAPTOR DIAMETER:** 100 mm

**MAX SOLID HANDLING:** 25 mm

### EL12,5

**CAPACITY [m<sup>3</sup>/h-(gpm)]:** 24(106)-64(282)

**HEAD [m(ft)]:** 24(106)-64(282)

**HOSE ADAPTOR DIAMETER:** 100 mm

**MAX SOLID HANDLING:** 25 mm

### EL20

**CAPACITY [m<sup>3</sup>/h-(gpm)]:** 60-120

**HEAD [m (ft)]:** 23(75)-19(62)

**HOSE ADAPTOR DIAMETER:** 100 mm

**MAX SOLID HANDLING:** 25 mm



### Jet ring system

- High pressure water jets used to rupture the material and have a higher solid concentration in the mixture.
- Water capacity: 20 m<sup>3</sup>/h
- Pressure: 6 bar – 7 bar
- Drive: Horizontal high pressure centrifugal pump
- Operation via radio control.



# Remote-controlled Dredges

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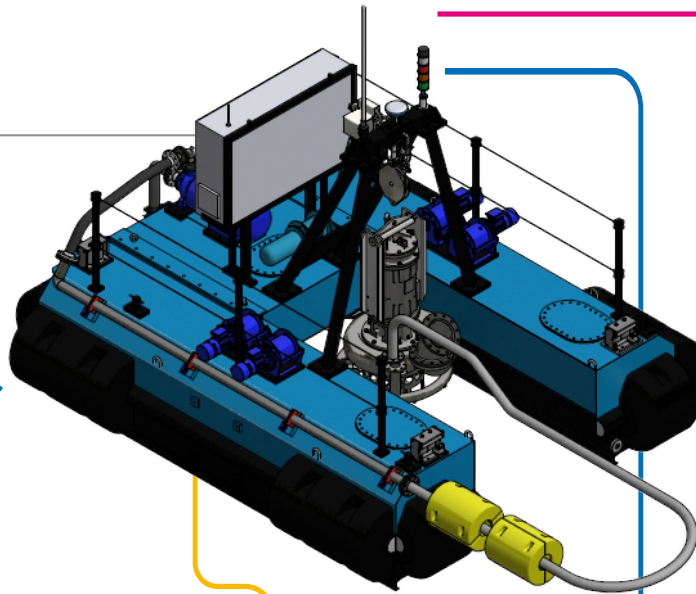
## DRP60



**Electric control panel**

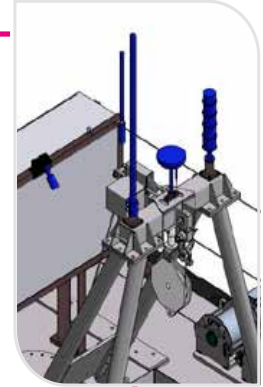
### Cooling Jacket System

- To cool the pumps electronic motor



### Winches

- Used to move the dredge
- Synchronized movement



### Electronic control equipment

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

### Electric hoist

- Precisely moves the pump
- Depth measuring pulley



### Remote control

- Turns pump and jet ring on/off
- Moves pump and dredge
- Emergency stop
- Display with working depth and power consumption

# Remote-controlled Dredges

Submersible Dredging Pumps | Remote Controlled Dredges  
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**DRAGFLOW**

## DRP60

### DIMENSIONS

Length.....5.3 m  
Width.....4.3 m  
Height.....4.0 m  
Weight.....5.5 ton



### TRANSPORT

Transportable in two  
containers 40' open-top  
280 quintals capacity



### MODULAR DESIGN

**Dimensions:**  
2 floaters 4.5 x 1 x 1.2m  
With central platform  
**Draft:**  
50 - 60 cm



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

### E60 CAPACITY [m³/h-(gpm)]:

150(660)-500(2200)

**HEAD [m (ft)]** 28(92)-25(82)

**DISCHARGE DIAMETER:** DN150

**MAX SOLID HANDLING:** 60 mm

### E60HC CAPACITY [m³/h-(gpm)]:

300(1320)-450(2640)

**HEAD [m (ft)]** 16(53)-9(39)

**DISCHARGE DIAMETER:** DN250

**MAX SOLID HANDLING:** 90 mm



### Jet ring system

- High pressure water jets used to rupture the material and have a higher solid concentration in the mixture.
- Water capacity: 60 m³/h
- Pressure: 6 bar – 7 bar
- Drive: Horizontal high pressure centrifugal pump
- Operation via radio control.

# Remote-controlled Dredges

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## DRP120



**Electric control panel**

### Cooling Jacket System

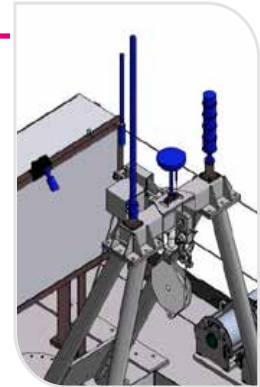
- To cool the pumps electronic motor

### Winches

- Used to move the dredge
- Synchronized movement

### Electric hoist

- Precisely moves the pump
- Depth measuring pulley



### Electronic control equipment

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



### Remote control

- Turns pump and jet ring on/off
- Moves pump and dredge
- Emergency stop
- Display with working depth and power consumption

# Remote-controlled Dredges

Submersible Dredging Pumps | Remote Controlled Dredges  
Cable Dredgers | Amphibious Dredges

**DRAGFLOW**

## DRP120

### DIMENSIONS

Length.....5.3 m  
Width.....4.3 m  
Height.....4.0 m  
Weight.....5.5 ton



### TRANSPORT

Transportable in two  
containers 40' open-top  
280 quintals capacity



### MODULAR DESIGN

**Dimensions:**  
2 floaters 4.5 x 1 x  
1.2m With central  
platform  
**Draft:**  
50 - 60 cm



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

**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



### Jet ring system

- High pressure water jets used to rupture the material and have a higher solid concentration in the mixture.
- Water capacity: 60 m³/h
- Pressure: 6 bar – 7 bar
- Drive: Horizontal high pressure centrifugal pump
- Operation via radio control.

# Remote-controlled Dredges

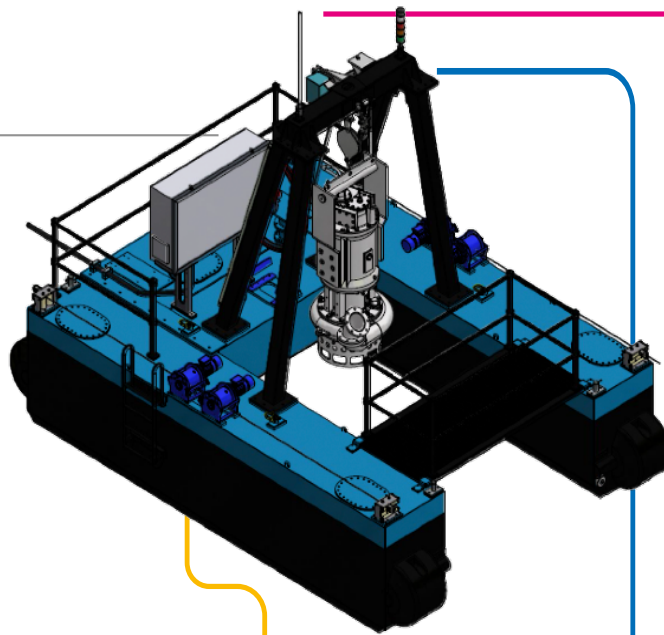
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## DRP150



**Electric control panel**



### Cooling Jacket System

- To cool the pump's electric motor

### Winches

- Used to move the dredge
- Synchronized movement

### Electronic control equipment

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

### Electric hoist

- Precisely moves the pump
- Depth measuring pulley

### Remote control

- Turns pump and jet ring on/off
- Moves pump and dredge
- Emergency stop
- Display with working depth and power consumption





# Remote-controlled Dredges

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**DRAGFLOW**

## DRP150

### DIMENSIONS

Length.....6.5 m  
Width.....4.5 m  
Height.....5.0 m  
Weight.....10 ton



### TRANSPORT

Transportable in two containers  
40' open-top  
280 quintals capacity



### MODULAR DESIGN



**Dimensions:**  
2 floaters 6 x 1 x 1.5m  
With central platform  
**Draft:**  
115 cm

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

- EL60\*** CAPACITY [m³/h-(gpm)]: 130(572)-260(1145)  
HEAD [m (ft)] 28(92)-25(82)  
DISCHARGE DIAMETER: DN150  
MAX SOLID HANDLING: 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 HANDLING: 60 mm
- EL150\*\*** CAPACITY [m³/h-(gpm)]: 280(1232)-640(2817)  
HEAD [m (ft)] 27(88,5)-23(75,45)  
DISCHARGE DIAMETER: DN250  
MAX SOLID HANDLING: 120 mm

### Jet ring system

- High pressure water jets used to rupture the material and have a higher solid concentration in the mixture.
- Water capacity: 60 m³/h
- Pressure: 6 bar – 7 bar
- Drive: Horizontal high pressure centrifugal pump
- Operation via radio control.



\* = Can be equipped with side cutters

\*\* = without excavators

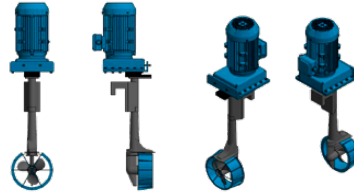
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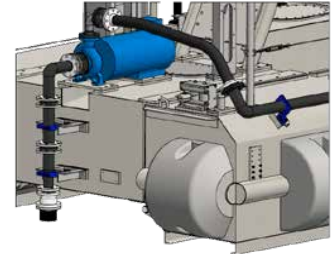
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## Accessories

- Propeller
- Jet-Ring System
- GPS
- Echo sounder
- Bespoke personalization



Propeller



Jet-Ring System

