

# DRP18

## DRAGFLOW

ULTIMATE EFFICIENCY



**DRP18** is a portable remote-controlled dredge that can be equipped with different models of electric pumps: **EL5, EL7,5, EL10, EL12,5 and EL20.**

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

### MAIN FEATURES

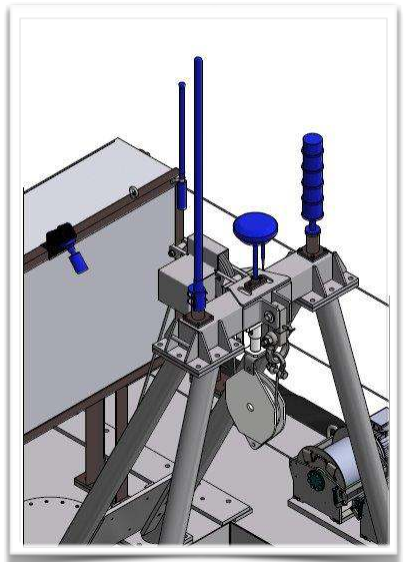
- ➔ Small dimensions: easy to transport and to assembly, can be used also in very small basins and harbors.
- ➔ Highly customizable: can be equipped with GPS, cameras, position lights, jet system, and more.
- ➔ Thanks to its small draft this dredge can work in shallow waters.

# THE DREDGE



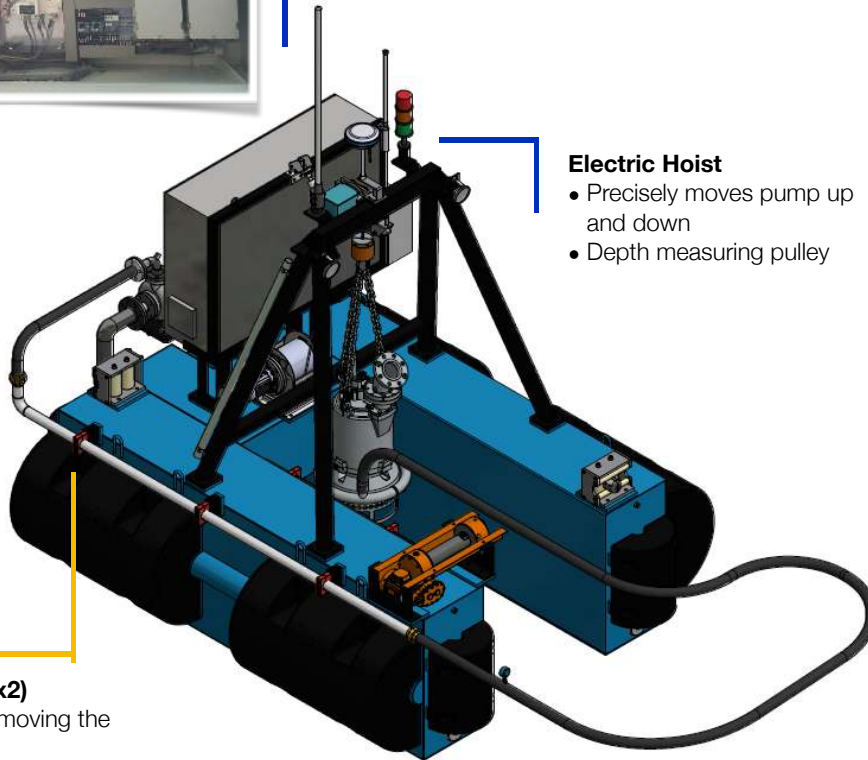
## Electric control panel

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



## Electric Hoist

- Precisely moves pump up and down
- Depth measuring pulley



## Winches (x2)

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

## Floaters

- 2 floaters 3 x 0,5 x 1 m with central platform
- Small draft.

## 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

# JET RING SYSTEM



## Jet ring system

High pressure water jets used to rupture the material and have a higher solid concentration in the mixture

- **Water capacity:** 20m<sup>3</sup>/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 **DRP18** can be equipped with a wide range of electric pumps: EL5; EL7,5; EL10; EL12,5 and EL20.

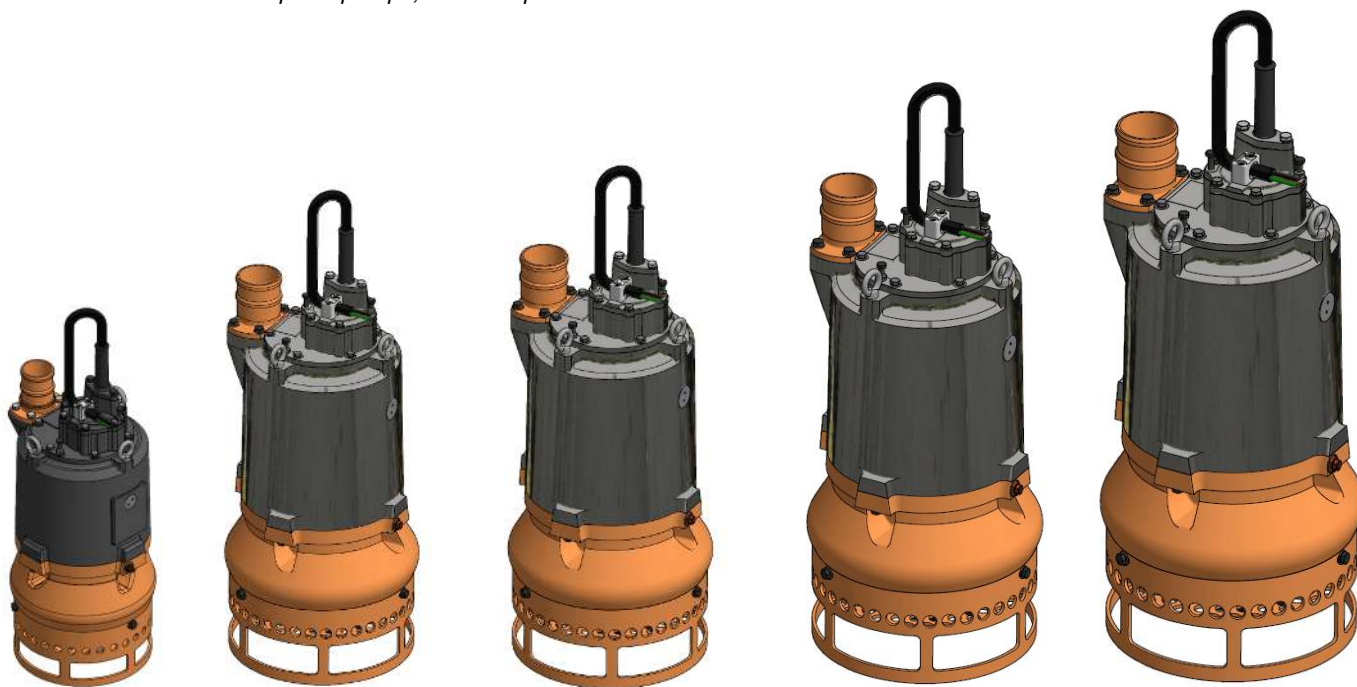
You can also choose the super power of the S and SS versions and, depending on the market, you can choose the 50Hz or 60Hz variant. One dredge, many purposes, but always with the **DRAGFLOW trademark**: efficiency and toughness!



## MATERIALS

<b>Casing</b>	Spheroidal cast iron EN-GJS500-7 (EN1563)
<b>Motor housing</b>	Spheroidal cast iron EN-GJS500-7 (EN1563)
<b>Wear parts</b>	High Chrome EN-GJN-HV600 (XCr18) (EN 12513)
<b>Albero motore</b>	High tensile steel 39iNiCrMo3 (AISI 9840)

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



## PUMPS RANGE

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

**Maximum capacity** from 30 m<sup>3</sup>/h to 100 m<sup>3</sup>/h

**Maximum head** from 15 m to 27 m

**Hose adaptor diameter** DN100

**Solid passage** from 20 to 25 mm

## HULL MAIN FEATURES

<b>Overall dimensions</b>	<i>Length</i>	3,5 m (11 ft 4 in.)
	<i>Width</i>	2,8 m (9 ft 10 in.)
	<i>Height</i>	3,3 m (10 ft. 8 in.)
	<i>Weight</i>	3,5 ton
<b>Weight</b>	3,5 ton	
<b>Draft</b>	80-90 cm	

## MODULAR DESIGN

<b>Dimensions</b>	2 floaters 3 x 0,5 x 1 m with central platform.
-------------------	---

## PROPULSION

### Primary System

Two (2) 50 m steel winches (available up to 110 m)

### Secondary System

Helix propeller (optional)

## TRANSPORTATION - ASSEMBLY

Transportable in only one container open top 20'  
Assembly operations takes as short as 4-6 hours.

## WORKING CAPACITY

<b>EL5</b>	<b>CAPACITY</b> [m <sup>3</sup> /h-(gpm)]: 14(62)-38,5(170) <b>HEAD</b> [m (ft)] 12,5(41)-8(26) <b>DISCHARGE DIAMETER:</b> 80 mm <b>MAX SOLID HANDLING:</b> 20 mm
<b>EL7,5</b>	<b>CAPACITY</b> [m <sup>3</sup> /h-(gpm)]: 17,5 (77)-45,45 (200) <b>HEAD</b> [m (ft)] 16(52)-13,5 (44) <b>DISCHARGE DIAMETER:</b> 100 mm <b>MAX SOLID HANDLING:</b> 25 mm
<b>EL10</b>	<b>CAPACITY</b> [m <sup>3</sup> /h-(gpm)]: 21 (92)-49 (215) <b>HEAD</b> [m (ft)] 22 (72)-20 (66) <b>DISCHARGE DIAMETER:</b> 100 mm <b>MAX SOLID HANDLING:</b> 25 mm
<b>EL12,5</b>	<b>CAPACITY</b> [m <sup>3</sup> /h-(gpm)]: 24 (106)-64 (282) <b>HEAD</b> [m (ft)] 24 (106)-64 (282) <b>DISCHARGE DIAMETER:</b> 100 mm <b>MAX SOLID HANDLING:</b> 25 mm
<b>EL 20</b>	<b>CAPACITY</b> [m <sup>3</sup> /h-(gpm)]: 60 (264)-120 (528) <b>HEAD</b> [m (ft)] 23 (75)-19 (62) <b>DISCHARGE DIAMETER:</b> 100 mm <b>MAX SOLID HANDLING:</b> 25 mm

## CERTIFICATIONS



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