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# 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.

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# Remote-controlled Dredges

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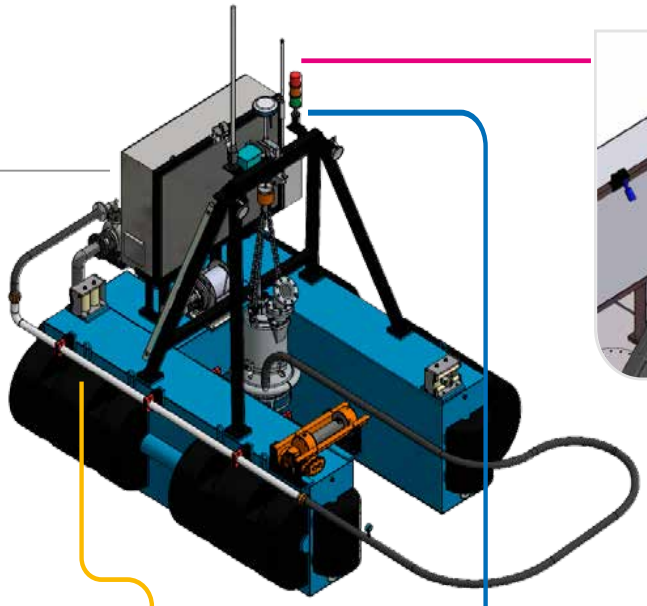
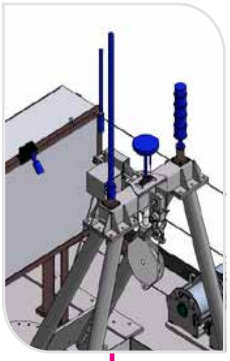
DRP18

**Electric control panel**





## 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

## 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

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# Remote-controlled Dredges

Submersible Dredging Pumps | Remote Controlled Dredges
Cable Dredgers | Amphibious 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 [$m^3$/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 [$m^3$/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 [$m^3$/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 [$m^3$/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 [$m^3$/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 $m^3$/h
- Pressure: 6 bar – 7 bar
- Drive: Horizontal high pressure centrifugal pump
- Operation via radio control.

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# Remote-controlled Dredges

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

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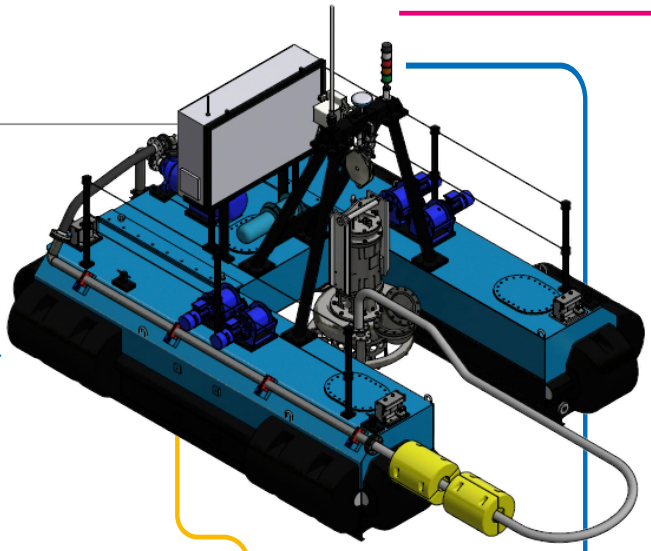
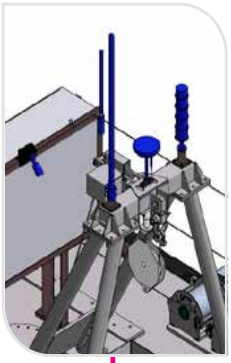
**DRP60**

**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

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# Remote-controlled Dredges

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

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.

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# Remote-controlled Dredges

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

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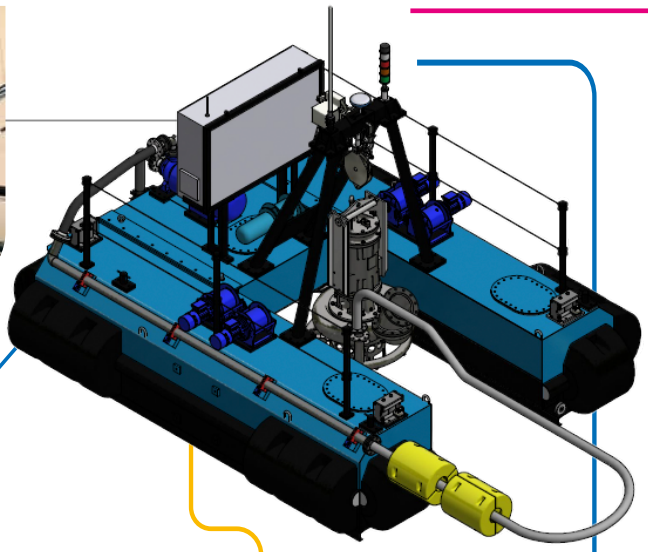
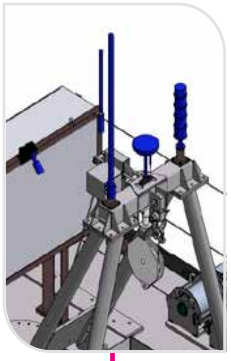
**DRP120**

**Electric control panel**





## Cooling Jacket System

- To cool the pumps electronic motor

## Winches

- Used to move the dredge
- Synchronized movement

## 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

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# 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.

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# Remote-controlled Dredges

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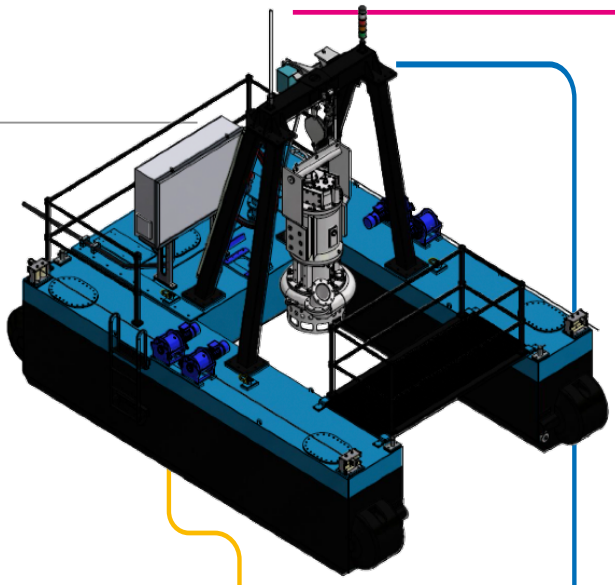
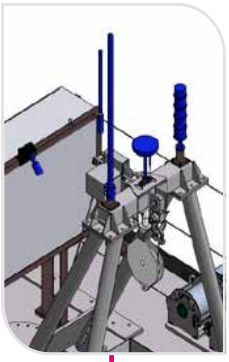
**DRP150**

**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

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# Remote-controlled Dredges

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

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 | | √ |

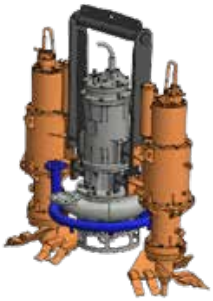
**EL60*** **CAPACITY [m³/h-(gpm)]**: 130(572)-260(1145)
**HEAD [m (ft)]** 28(92)-25(82)
**DISCHARGE DIAMETER**: DN150
**MAX SOLID HANDLING:** 60 mm

**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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# Remote-controlled Dredges

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Cable Dredgers | Amphibious Dredges

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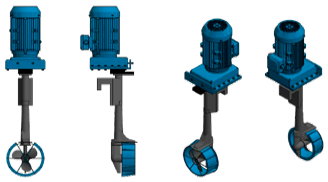
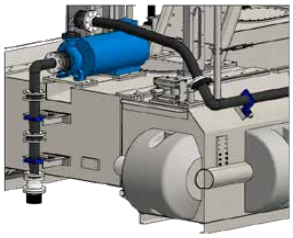
**Accessories**

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



**Propeller**



**Jet-Ring System**





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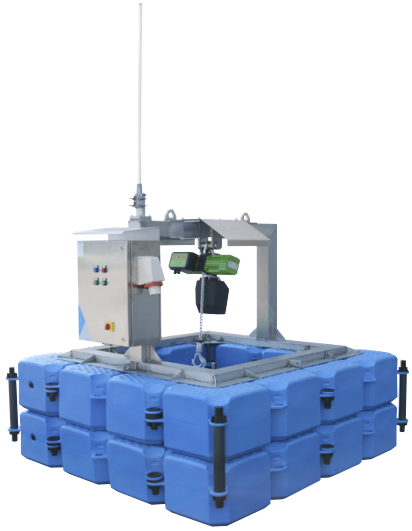
# Mini Dredges

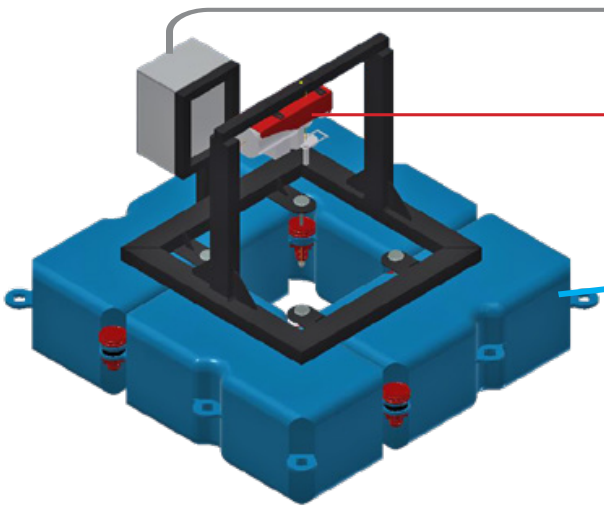
DRF Series
Remote Control Dredging Solutions

DRAGFLOW

- **Ultra-small dimensions**
- **Simple to assemble**
- **Small draught clearance**
- **Versatile and customisable**

## Mini Dredges for DRF Series



**Electrical panel**

**Electrical winch**
To move the pump with precision

**Floating polyethylene cubes**
They guarantee stability thanks to a floating capacity of 350 of kg/m2.

**Wired control**
To manage the pump
Emergency stop

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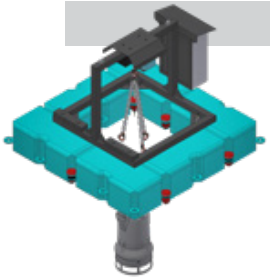
# Mini Dredges

DRF Series
Remote Control dredging solutions

DRAGFLOW



## DRF30

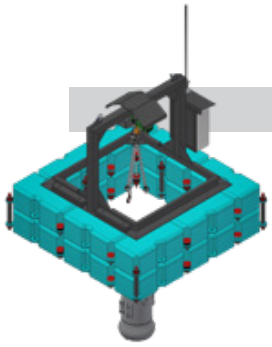
### DIMENSIONS

**Length:** 2 m
**Width:** 2 m
**Height:** 1.5 m
**Weight:** 550 kg (pump included)

**Winch**: Max 300 kg
**Cable length:** 10 m
**Wired control**: 30 m

### PUMP RANGES

- EL5
- EL7.5, EL7.5S, EL7.5SS
- EL10, EL10s, EL10SS
- EL12, EL12.5S, EL12.5SS



## DRF50

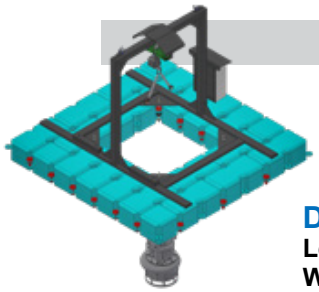
### DIMENSIONS

**Length:** 2.5 m
**Width:** 2.5 m
**Height:** 2.3 m
**Weight:** 1,300 kg (pump included)

**Winch**: Max 560 kg
**Cable length:** 10 m
**Wired control**: 30 m

### PUMP RANGES

- EL20, EL20s, EL20SS



## DRF80

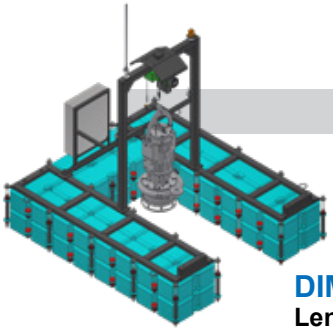
### DIMENSIONS

**Length:** 3.5 m
**Width:** 3.5 m
**Height:** 2.6 m
**Weight:** 1,600 kg (pump included)

**Winch**: Max 800 kg
**Cable length:** 10 m
**Wired control**: 30 m

### PUMP RANGES

- EL25, EL25S
- EL35, EL35HC
- EL354



## DRF100

### DIMENSIONS

**Length:** 4 m
**Width:** 3.5 m
**Height:** 3.7 m
**Weight:** 2,660 kg (pump included)

**Winch**: Max 2,000 kg
**Cable length:** 10 m
**Wired control**: 30 m

### PUMP RANGES

- EL35S
- EL60
- EL354S
- EL1204HC

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# Dredging Pumps

Dredging Solutions

DRAGFLOW


## Dredging Pumps

State of the art design and quality

**Electric motor designed for Heavy-duty applications (1)**

Class H operates with mixtures with specific weight up to 1.7 kg/dm3.

All pumps are available in 50 Hz and 60 Hz.

**High quality metallurgy (2)**

Parts subject to wear are produced using HIGH CHROME ensuring longer life.

**Sensors for extra protection**

Temperature and humidity sensors are available to handle complex applications.

**High chrome wear plate (3)**

Adjustable and positioned on the suction side.

**Front deflector** (4)

**Service bolts** (5)

- Flushing of seals
- Oil inspection
- Double grease point

**Thrust bearings**

Reduce vibrations and support movement.

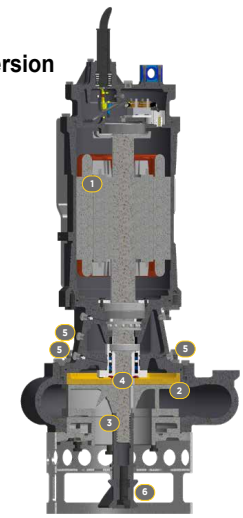
**Solid transporting up to 120 mm**

Handling from 20 mm up to 120 mm in the largest pumps.

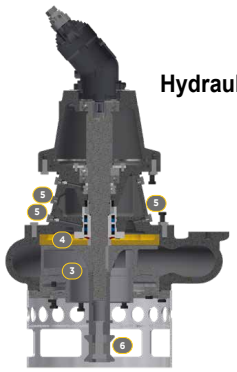
**AGITATOR (6)**

- High efficiency agitator for lifting sediment solid material
- Able to pump up to 70% per weight density
- High abrasion resistance
- Low rotation speed to reduce wear
- Reversible for longer life

**Electric version**



**Hydraulic version**



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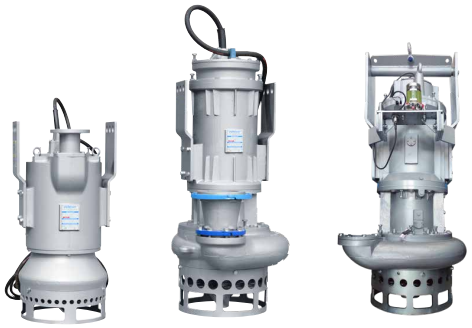
# Dredging Pumps

Dredging solutions

DRAGFLOW

## Electric Pumps

Power from 3.7 kW (5 hp) to 240 kW (322 hp)
Flow rate: up to 3500 m³/h
Drain diameter: up to 450 mm (18 inches)

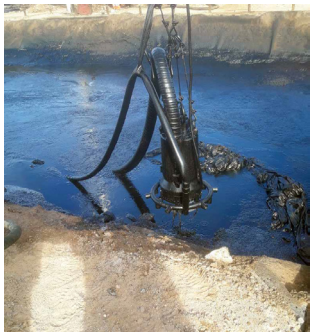


## Pumps for heavy-duty applications

S and SS versions

The pumps in this line are supplied with an oversized motor capable of lifting mixtures up to 1.7 kg/m³.

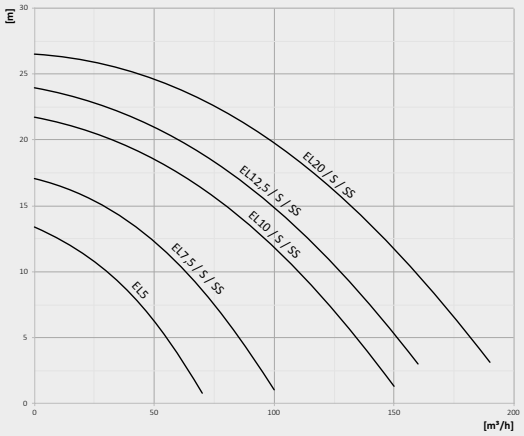
Their structure is designed to work in complex environmental conditions,performing efficiently where any other pump could fail.



## EL5 – EL20

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL5 | 80 | 3 | 30 | 132 | 12 | 39 | 5 / 3,7 | 1450 / 1740 | 20 | 0,8 | 220 | 485 |
| EL7,5 | 100 | 4 | 60 | 264 | 12 | 39 | 7,4 / 5,5 | 1450 / 1740 | 25 | 1,0 | 270 | 595 |
| EL7,5 S | 100 | 4 | 60 | 264 | 12 | 39 | 10 / 7,5 | 1450 / 1740 | 25 | 1,0 | 280 | 617 |
| EL7,5 SS | 100 | 4 | 60 | 264 | 12 | 39 | 12 / 9 | 1450 / 1740 | 25 | 1,0 | 280 | 617 |
| EL10 | 100 | 4 | 60 | 264 | 15 | 49 | 10 / 7,5 | 1450 / 1740 | 25 | 1,0 | 280 | 617 |
| EL10 S | 100 | 4 | 60 | 264 | 15 | 49 | 12 / 9 | 1450 / 1740 | 25 | 1,0 | 290 | 640 |
| EL10 SS | 100 | 4 | 60 | 264 | 15 | 49 | 14,7 / 11 | 1450 / 1740 | 25 | 1,0 | 290 | 640 |
| EL12,5 | 100 | 4 | 60 | 264 | 19 | 62 | 12 / 9 | 1450 / 1740 | 25 | 1,0 | 290 | 640 |
| EL12,5 S | 100 | 4 | 60 | 264 | 19 | 62 | 14,7 / 11 | 1450 / 1740 | 25 | 1,0 | 290 | 640 |
| EL12,5 SS | 100 | 4 | 60 | 264 | 19 | 62 | 17,4 / 13 | 1450 / 1740 | 25 | 1,0 | 290 | 640 |
| EL20 | 100 | 4 | 100 | 440 | 20 | 65 | 20 / 15 | 1450 / 1740 | 25 | 1,0 | 535 | 1180 |
| EL20 S | 100 | 4 | 100 | 440 | 20 | 65 | 24 / 18 | 1450 / 1740 | 25 | 1,0 | 555 | 1223 |
| EL20 SS | 100 | 4 | 100 | 440 | 20 | 65 | 29 / 22 | 1450 / 1740 | 25 | 1,0 | 560 | 1235 |

S = oversized motor
SS = ultra oversized motor



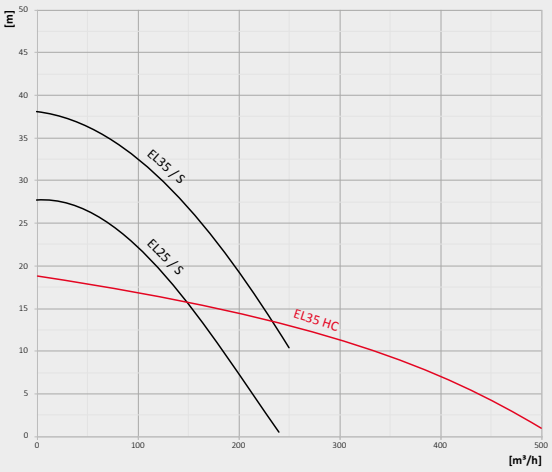
# Dredging Pumps

Dredging solutions

DRAGFLOW

## EL25 – EL35

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL25 | 100 | 4 | 100 | 440 | 21 | 69 | 25 / 18,5 | 970 / 1164 | 35 | 1,4 | 715 | 1580 |
| EL25 S | 100 | 4 | 100 | 440 | 21 | 69 | 35 / 26 | 970 / 1164 | 35 | 1,4 | 785 | 1730 |
| EL35 | 100 | 4 | 90 | 396 | 31 | 102 | 35 / 26 | 970 / 1164 | 35 | 1,4 | 780 | 1580 |
| EL35 S | 100 | 4 | 90 | 396 | 31 | 102 | 60 / 45 | 970 / 1164 | 35 | 1,4 | 780 | 1580 |
| EL35 HC | 100 | 4 | 210 | 925 | 15 | 49 | 35 / 26 | 970 / 1164 | 60 | 2,4 | 780 | 1580 |

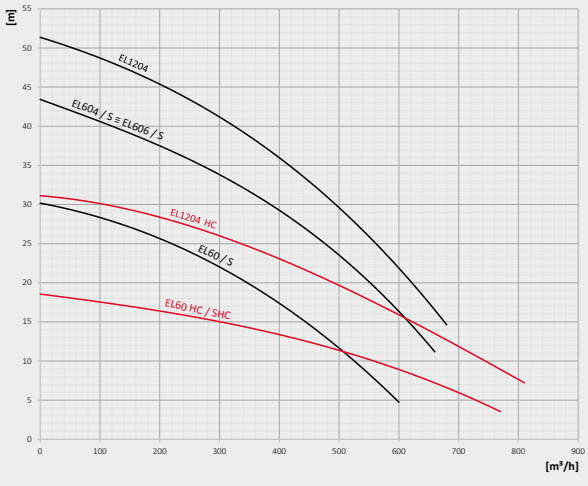



S = oversized motor
HC = high capacity

## EL60 – EL1204

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL60 | 150 | 6 | 200 | 881 | 26 | 85 | 60 / 45 | 980 / 1176 | 60 | 2,4 | 1060 | 2337 |
| EL60 S | 150 | 6 | 200 | 881 | 26 | 85 | 80 / 60 | 980 / 1176 | 60 | 2,4 | 1230 | 2710 |
| EL60 HC | 250 | 10 | 720 | 3170 | 5 | 16 | 60 / 45 | 980 / 1176 | 90 | 3,5 | 1200 | 2645 |
| EL60 SHC | 250 | 10 | 720 | 3170 | 5 | 16 | 80 / 60 | 980 / 1176 | 90 | 3,5 | 1200 | 2645 |
| EL604 | 150 | 6 | 200 | 881 | 42 | 138 | 100 / 75 | 1480 / 1776 | 60 | 2,4 | 1100 | 2425 |
| EL604 S | 150 | 6 | 200 | 881 | 42 | 138 | 120 / 90 | 1480 / 1776 | 60 | 2,4 | 1115 | 2460 |
| EL606 | 150 | 6 | 240 | 1057 | 38 | 125 | 100 / 75 | NA / 1182 | 60 | 2,4 | 1250 | 2755 |
| EL606 S | 150 | 6 | 240 | 1057 | 38 | 125 | 120 / 90 | NA / 1182 | 60 | 2,4 | 1280 | 2820 |
| EL1204 | 150 | 6 | 200 | 881 | 47 | 154 | 120 / 90 | 1480 / 1776 | 60 | 2,4 | 1250 | 2755 |
| EL1204 HC | 250 | 10 | 720 | 3170 | 16 | 52 | 120 / 90 | 1480 / NA | 90 | 3,5 | 1250 | 2755 |

S = oversized motor
HC = high capacity



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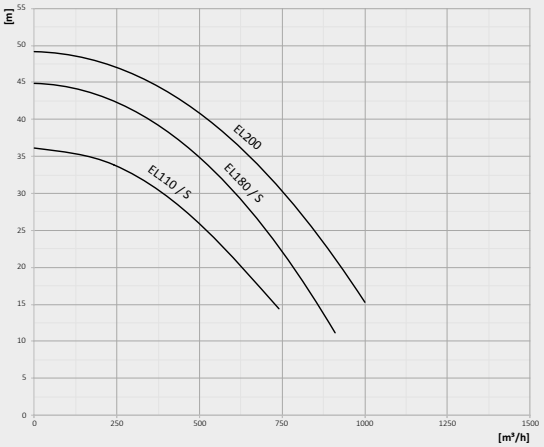
# Dredging Pumps

Dredging solutions

DRAGFLOW

## EL110 – EL200

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL110 | 200 | 8 | 350 | 1541 | 30 | 98 | 107 / 80 | 745 / 894 | 60 | 2,4 | 2450 | 5400 |
| EL110 S | 200 | 8 | 350 | 1541 | 30 | 98 | 150 / 110 | 745 / 894 | 60 | 2,4 | 2450 | 5400 |
| EL180 | 200 | 8 | 350 | 1541 | 40 | 131 | 180 / 130 | 980 / 1176 | 60 | 2,4 | 2750 | 6060 |
| EL180 S | 200 | 8 | 350 | 1541 | 40 | 131 | 201 / 150 | 980 / 1176 | 60 | 2,4 | 2900 | 6400 |
| EL200 | 200 | 8 | 350 | 1541 | 48 | 157 | 201 / 150 | 980 / 1176 | 60 | 2,4 | 3000 | 6600 |

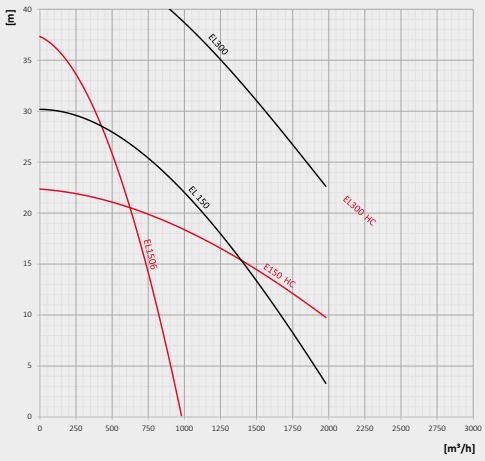



S = oversized motor

## EL150HC – EL300HC

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL150 | 250 | 10 | 720 | 3170 | 22 | 72 | 147 / 110 | 585 / 700 | 120 | 4,7 | 4500 | 9920 |
| EL150 HC | 450 | 18 | 720 | 3170 | 22 | 72 | 147 / 110 | 585 / 700 | 120 | 4,7 | 5000 | 11000 |
| EL1506 | 200 | 8 | 420 | 1850 | 28 | 90 | 147 / 110 | 980 / NA | 60 | 2,4 | 2750 | 6060 |
| EL300 | 250 | 10 | 1240 | 5460 | 35 | 115 | 322 / 240 | 745 / 895 | 120 | 4,7 | 5170 | 11400 |
| EL300 HC | 450 | 18 | 1700 | 7480 | 25 | 82 | 322 / 240 | 745 / 895 | 120 | 4,7 | 5420 | 12000 |

HC = high capacity



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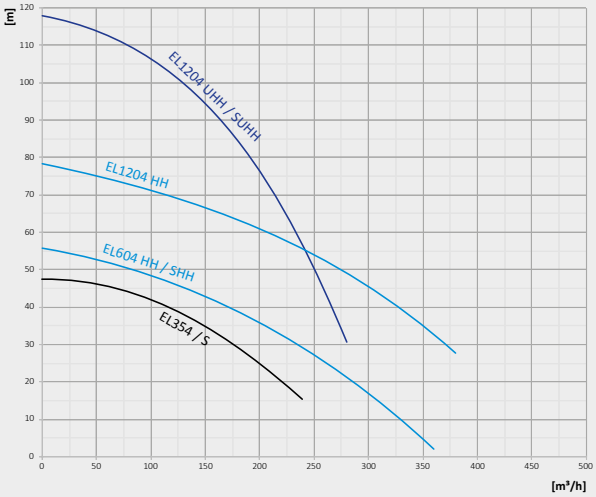
# Dredging Pumps

Dredging solutions

DRAGFLOW

## EL354 – EL1204 HH

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| EL354 | 100 | 4 | 60 | 264 | 46 | 151 | 49 / 37 | 1465 / 1758 | 35 | 1,4 | 780 | 1580 |
| EL354 S | 100 | 4 | 60 | 264 | 46 | 151 | 59 / 44 | 1485 / 1782 | 35 | 1,4 | 780 | 1580 |
| EL604 HH | 100 | 4 | 100 | 440 | 49 | 161 | 100 / 75 | 1480 / 1776 | 35 | 1,4 | 1250 | 2755 |
| EL604 SHH | 100 | 4 | 100 | 440 | 50 | 164 | 120 / 90 | 1480 / 1776 | 35 | 1,4 | 1250 | 2755 |
| EL1204 HH | 100 | 4 | 100 | 440 | 72 | 236 | 120 / 90 | 1480 / 1776 | 35 | 1,4 | 1250 | 2755 |
| EL1204 UHH | 100 | 4 | 100 | 440 | 72 | 236 | 160 / 120 | 1450 / 1740 | 20 | 0,8 | 1850 | 4080 |
| EL1204 SUHH | 100 | 4 | 100 | 440 | 72 | 236 | 188 / 140 | 1450 / 1740 | 20 | 0,8 | 1915 | 4250 |

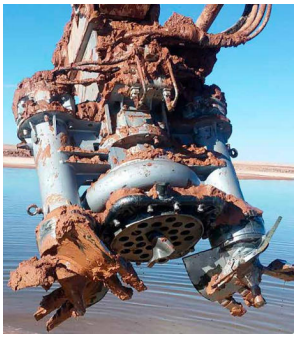



S = oversized motor
HH = high head
UHH = ultra high head

### High head pumps for heavy-duty applications S and SS versions

The pumps in this line are supplied with an oversized motor capable of lifting mixtures up to 1.7 kg/m³.

Their structure is designed to work in complex environmental conditions, performing efficiently where any other pump could fail.



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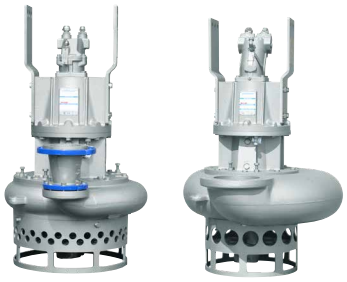
# Dredging Pumps

Dredging solutions

DRAGFLOW

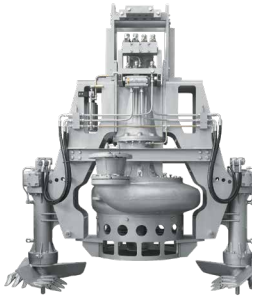
## Hydraulic Pumps

Power from 13 kW (17 hp) to 2475 kW (3630 hp)
Flow rate: up to 4500 m³/h
Drain diameter: up to 450 mm (18 inches)



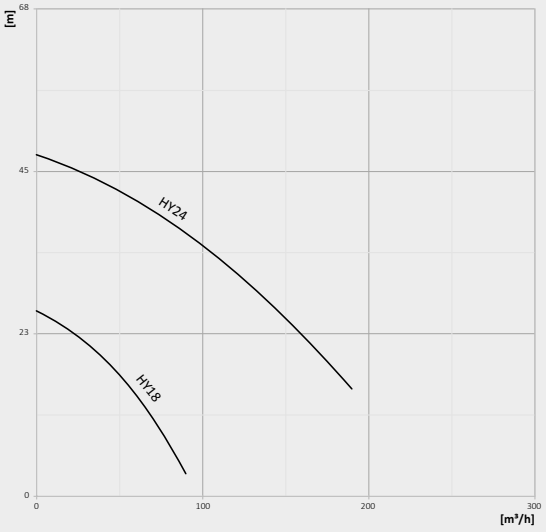
## HH versions

Designed to transport any type of mixture,the high head line does an excellent job on heavy water and abrasive solids mixtures at a much higher pressure than any other submersible agitator pump on the market.



## HY18 – HY24

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| HY18 | 80 | 3 | 50 | 220 | 17,5 | 57 | 17 / 13 | 2000 | 20 | 0,8 | 170 | 375 |
| HY24 | 100 | 4 | 80 | 352 | 37 | 121 | 32,5 / 24 | 2000 | 25 | 1,0 | 220 | 485 |




# Dredging Pumps

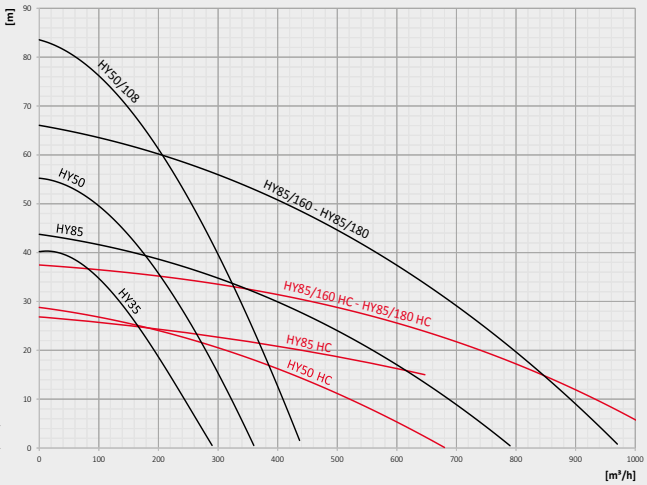
Dredging solutions

DRAGFLOW

## HY35 – HY85

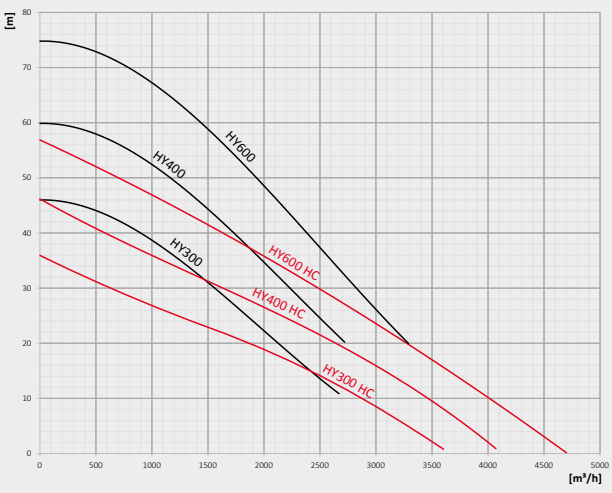
| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| HY35 | 100 | 4 | 120 | 528 | 30 | 98 | 40 / 33 | 1180 | 35 | 1,4 | 530 | 1170 |
| HY50 | 100 | 4 | 110 | 484 | 44 | 144 | 67 / 50 | 1180 | 35 | 1,4 | 610 | 1340 |
| HY50 HC | 150 | 6 | 250 | 1101 | 22 | 72 | 67 / 50 | 1180 | 60 | 2,4 | 700 | 1540 |
| HY50/108 | 100 | 4 | 100 | 440 | 70 | 230 | 110 / 80 | 1450 | 35 | 1,4 | 610 | 1340 |
| HY85 | 150 | 6 | 240 | 1057 | 37 | 121 | 87 / 65 | 1180 | 60 | 2,4 | 750 | 1650 |
| HY85 HC | 250 | 10 | 620 | 2730 | 16 | 52 | 87 / 65 | 1180 | 90 | 3,5 | 1030 | 2270 |
| HY85/160 | 200 | 8 | 250 | 1101 | 56 | 184 | 165 / 120 | 1450 | 60 | 2,4 | 820 | 1810 |
| HY85/160 HC | 250 | 10 | 650 | 2862 | 27,5 | 90 | 165 / 120 | 1450 | 90 | 3,5 | 1100 | 2450 |
| HY85/180 | 200 | 8 | 250 | 1101 | 56 | 184 | 170 / 130 | 1450 | 60 | 2,4 | 820 | 1810 |
| HY85/180 HC | 250 | 10 | 650 | 2862 | 27,5 | 90 | 170 / 130 | 1450 | 90 | 3,5 | 1150 | 2540 |

HC = high capacity




## HY300 – HY600

| Model | Delivery | | Capacity | | Head | | Power | R.P.M. | Solid Handling | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | m³/h | rpm | m | ft | HP/kW | 50/60 Hz | mm | inch | kg | Lbs |
| HY300 | 250 | 10 | 900 | 3963 | 34 | 112 | 300 / 220 | 750 | 120 | 4,7 | 3500 | 7700 |
| HY300 HC | 450 | 18 | 900 | 3963 | 34 | 112 | 300 / 220 | 750 | 120 | 4,7 | 4400 | 9700 |
| HY400 | 300 | 12 | 1020 | 4491 | 44 | 144 | 400 / 300 | 850 | 120 | 4,7 | 3680 | 8100 |
| HY400 HC | 450 | 18 | 1020 | 4491 | 44 | 144 | 400 / 300 | 850 | 120 | 4,7 | 4500 | 9920 |
| HY600 | 300 | 12 | 1570 | 6912 | 57 | 187 | 630 / 475 | 950 | 120 | 4,7 | 3800 | 8400 |
| HY600 HC | 450 | 18 | 2300 | 10126 | 32 | 104 | 630 / 475 | 950 | 120 | 4,7 | 4600 | 10140 |




HC = high capacity

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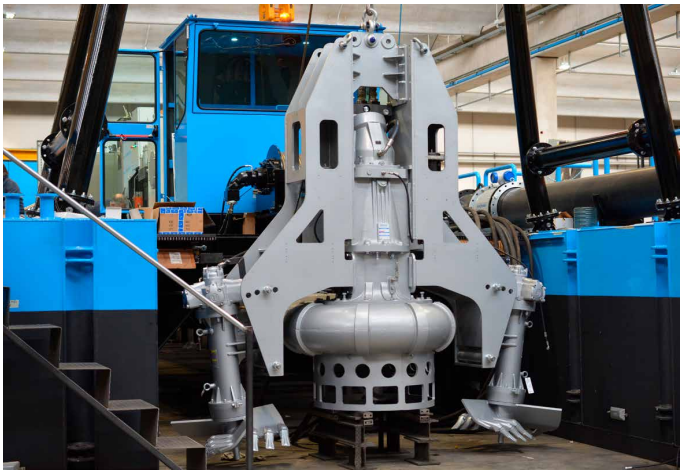
# Dredging Pumps

Dredging solutions

DRAGFLOW



## Hydraulic and electric excavators

**Excavators**
Dragflow hydraulic and electric submersible excavators can be installed on the pump to create an autonomous excavation system for compacted soil,where an earth-moving machine would be required. They ensure a considerable increase in the average solid production of the dredging system.

**Technical Specifications:**

- Cutting head designed to reduce the cost of wear parts due to the interchangeable hard teeth.
- High efficiency and and durable hydraulic or electric motor.
- Excavators suitable to operate up to 250 m deep by means of steel cable suspension.

**Hydraulic Side Cutter**

**Electric Side Cutter**

## Hydraulic Excavators

| Model | Power (kW/HP) | Speed (RPM) | Flow rate (l/min) | Pressure (bar) |
|---|---|---|---|---|
| EXHY20 | 14,5 / 19,8 | 50 | 35 | 250 |
| EXHY20S | 25 / 34 | 50 | 60 | 250 |
| EXHY35 | 25 / 34 | 50 | 60 | 250 |

## Electric Excavators

| Model | Power (kW/HP) | Speed (RPM) | Voltage / Frequency (V/Hz) | Amperage |
|---|---|---|---|---|
| EXEL20 | 9 / 12,5 | 25 | 400–50 / 460–60 | 18,8–16,2 |

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# Dredging Pumps

Dredging solutions

DRAGFLOW

## Cutter Head

The DRAGFLOW cutting head is a custom designed system.
The DRAG-FLOW cutting head can be used with any DRAGFLOW hydraulic pump and can increase efficiency especially of hard and compact material.

With an independent hydraulic motor, it can be supplied with different teeth to excavate hard or soft and compact material.
The arm connection frames of the earth-moving machines are supplied by DRAGFLOW and allow the operator to use it as a standard accessory.

The combined cutter head with agitator prevents any clogging at pump suction.

| Model | Power (kW/HP) | Speed (RPM) | Flow rate (l/min) | Pressure (bar) |
|---|---|---|---|---|
| DTM50 | 16,7 / 22,6 | 30 | 40 | 250 |
| DTM50 HC | 16,7 / 22,6 | 30 | 40 | 250 |
| DTM85 | 16,7 / 22,6 | 30 | 40 | 250 |
| DTM85 HC | 16,7 / 22,6 | 30 | 40 | 250 |
| DTM400 | 52 / 70,4 | 50 | 125 | 250 |

## Jet-Ring

Ring with high-pressure water jets, which can be used for work on com-pact, extremely dry or clayey materials.
Combined with electric or hydraulic pumps, works in combination or as an alternative to excavators.

It is equipped with:

- Ring frame mounted on the pump filter
- High-pressure centrifugal pump (available in electric or hydraulic version)
- Suction pipe with filter and non-return valve
- Delivery line

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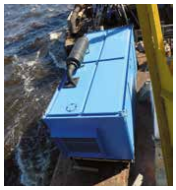
# Dredging Pumps

Dredging solutions

DRAGFLOW

## Hydraulic Power Packs



**Variable flow rate hydraulic power packs**

The hydraulic power packs are specifically designed for use of the Dragflow pumps. The power packs are based on diesel engines,compliant with the latest emission requirements, or electric motors built with cutting-edge components. The hydraulic system is closed circuit,consequently the maximum flow rate can be controlled without changing the speed of the diesel engine/electric motor.

**Each power pack can be adaptable depending on requirements**

- Additional oil pumps to control auxiliary equipment (for example winches or centrifugal pumps)
- Wireless remote control or advanced control panel for Power Pack monitoring from remote locations.
- Operator cabin and soundproofing for greater comfort during work
- Container style construction

Dragflow builds and tests all Power Packs, which are supplied with the training and supervision of an experienced technician.

**Main characteristics**

- IVECO or CATERPILLAR engines (other brands on request) Hydraulic circuit based on piston oil pumps.
- EC certification (UL and CSA available on request).
- The risk of oil leaks is avoided thanks to the completely closed bottom plate.Separate oil circuit for the pump and excavators.
- 4 lifting points from above.

**Options**

- Soundproofing
- Operator cabin (Plug & Play system for floating platforms)
- Built-in container style
- Wireless remote control
- Remote monitoring of work parameters
- Possibility of operating cranes, hoists and auxiliary equipment

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# Dredging Pumps

Dredging solutions

DRAGFLOW

## Accessories

**Cutter Knife**
When the sludge is covered by a layer of vegetation, the Drag-flow algae cutting knife, together with a modified filter, will help the pump to carry out the job without clogging.

**Automatic greasing system**
Pumps installed in a semi-fixed position, or in a “non-easily accessible” installation, can be equipped with an automatic greasing system, regularly supplying fresh grease to the seals.
This operation not only increases the overall duration of the sealing system,but it also allows operators to drastically reduce pump maintenance and checks.

**Anti-acid**
The Dragflow pump can be made completely from SUPER DU-PLEX stainless steel (CD3MN)in the event of high or low PH. This choice makes the Dragflow pumps suitable for
environments with a pH from 2 to 10.

**High depth system**
Dragflow hydraulic compensators are directly connected to the oil chamber. As the pump descends, the external pressure increases and the compensators supply oil to the oil chamber balancing the internal pressure to the external water pressure.The pump can reach over 300
m with this system, without losing performance while protecting the pump from water ingress into the oil chamber.

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# Dredging Pumps

Dredging solutions

DRAGFLOW

Dredging at any scale - Talk to us about your project needs.
We have customised solutions to suit your requirements.
Sales / Hire / Rent-to-buy

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# Aquatic Weed Harvesters

DRW Series

DRAGFLOW


## Dragflow equipment are a solution to sediment removal and management for a wide variety of applications such as dredging, mining and other industrial fields.

Dragflow has earned its reputation by helping dredging companies,maintenance managers and mining operations by providing solutions to manage issues related to:

- Accumulation of sediments in ports,channels or rivers
- Loss of capacity in sedimentation tanks in industrial processes
- Recovery of mineral tailings that could provide additional value to mining operations
- Cleaning of hydro electrical dams dealing with elevated sedimentation

Regardless of site conditions, Prime Pump can find a solution suitable for your project.

## Dragflow DRW-F and DRW-A Floating and Amphibious Weed/Trash Harvester

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# Aquatic Weed Harvesters

DRW Series

DRAGFLOW

## DRW - Weed/Trash Harvester Series

### Main Characteristics

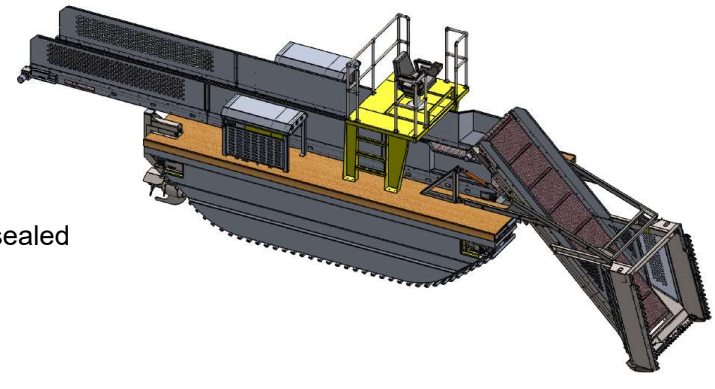
- Cutting and collecting of heavy water plants (Weed Harvester)
- Collecting of all kind of trash woods (Trash-Skimmer)
- Interchangeable collecting heads from weed to trash collecting
- **Also available as amphibious (no need for crane)**
- Maintenance friendly, because of good access to components
- **Use of corosion free material below water line**

### Hull Specifications DRW-F (floating version)

- **Length:** 6.40 m
- **Width:** 2.6 m
- **Draft:** 0.38 m
- **Steel sheet thickness**: 3 - 5 mm
- **Lifting and towing**: 4 lift lugs
- **Material**: Aluminium
- **Compartments**: 4 independently and separately sealed

### Hull Specifications DRW-A (amphibious version)

- **Length:** 6.40 m
- **Width:** 2.64 m
- **Draft:** 0.61 m
- **Steel sheet thickness**: 5 mm
- **Lifting and towing**: 4 lift lugs
- **Material**: Aluminium
- **Compartments**: 4 independently and separately sealed



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# Aquatic Weed Harvesters

DRW Series

DRAGFLOW

## DRW - Weed/Trash Harvester Series

### Hydraulic Power Pack Specifications

- 4-cycle diesel engine
- Max power @ 2400 rpm: 65HP (48kW)
- Fuel tank capacity: 57 L
- Oil tank capacity: 115 L
- Digital parameters in operator cabin
- Filtration system: high pressure und low pressure return filter
- Compartments: 4 independently and separately sealed
- Electrical system: 12 Volt DC with HD Marine battery
- Gauge packing for engine hydraulic and system

### Propulsion System Specifications

- C**lass:** N. 2 custom designed weed-wrap free helix propellers
- **Deployment:** Protected, inset, forward of stern unit with power lift
- **Propeller speed control:** Variable, bi-directional, proportional
- **Steering:** Bi-directional, counter rotating with twin propeller drive
- **Propeller drives**: High torque hydraulic motors
- Cruising speed: 9.6km/h

### Track System Specifications

- Used for on-land and shallow water navigation
- **Track speed**: Variable 0 - 100%
- **Track drive system:** Dual 75 cm wide, driven by 4 hydraulic motors
- **Speed on land**:  8 km/h
- Ground pressure: 40.12 kg/cm²

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# Aquatic Weed Harvesters

DRW Series

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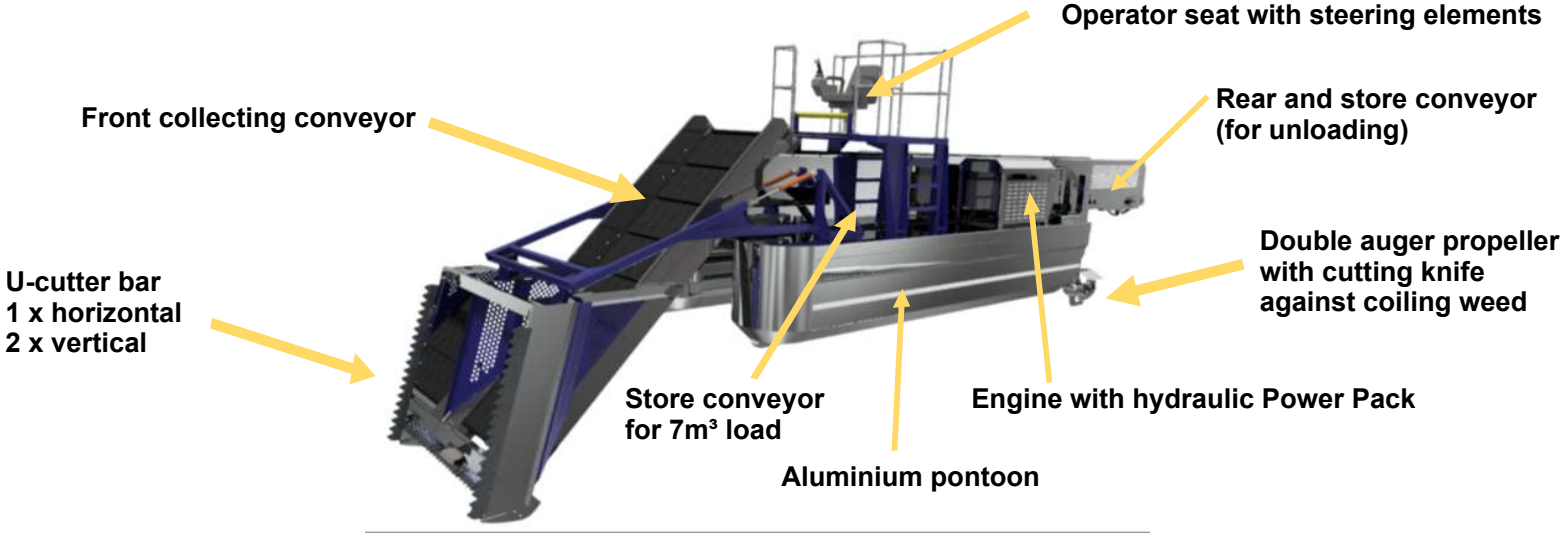
## DRW - Weed/Trash Harvester Series

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# Cable Dredges

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

DRAGFLOW


**DRH: Easy to handle and versatile cable dredges**

Our Cable dredges (DRH) are successfully used in all those applications where it is necessary to have tools that are manageable and able to work even at great depths.

The small size and modular design allow these dredges to be transported even in remote and difficuilt to reach locations. Assembly and installation are simple and take only a fre hours. These features help to reduce project start-up times and costs.

Our DRH dredges are simple to use: thanks to intuitive controls, they can be managed by a single operator on board.

Available in different versions (with the possibility of hydraulic or electrical power supply), they can be equiped with a wide range of pumps and accessories to perform even in the most difficult situations. The largest model can provide a flow rate of up to4 000 $m^3$/h.

The limited draft and the possibility of rapidly obtaining naval certifications are additional points of strength because they allow DRH to operate in very varied contexts, from artificial ponds to ports,from dams to mining basins.

## Main features

Easy to use
High productivity
Possibility of working at high depth with a small hull
Maximum flexibility:each dredge can be equipped with different pump models and numerous accessories Limited draft
Fast delivery times
Speed and cost-effectiveness of transport thanks to the modular design
Extremely fast assembly and start-up times

**Main applications**

Clearing of canals and rivers
Dredging of ports and marinas
De-silting of industrial artificial lakes
Dredging of dam reservoirs
Emptying of mineral tailing ponds
Filling of geotubes
Cleaning of reservoirs in the food industry
Removal of sludge from industrial or mining processes

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# Cable Dredges

Submersible Dredging Pumps | Remote Controlled Dredges
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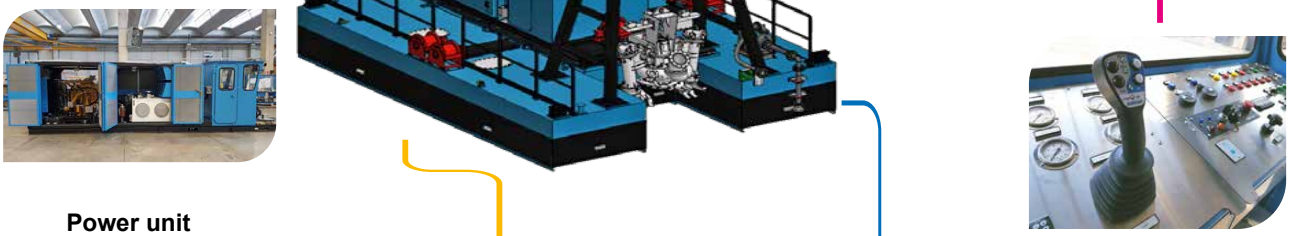
## DRH85 | DRH85/160

[hydraulic pump]
Electric or diesel power unit



**Hydraulic hoist**
- Manages the decent and accent of the pump
- Depth meter

**Power unit**
- Soundproof cabin
- Diesel engine or electric motors
- Oil pumps

**Winches (x4)**
- To move dredge Steel cables up to 210m
- Possibility of additional propeller for movement

**Operator's Cabin**
- Command and control panel
- Heating and air conditioning
- Safety equipment
- Ergonomic seat for the operator

**Hull**
- Two pontoons 8x1.8x1.25m with central hull
- Low draft

**DIMENSIONS**

Length.....8 m
Width.....6 m
Height.....5 m
Weight.....30 ton

**TRANSPORT**

Transportable in 4 containers 40'

**MODULAR DESIGN**

**Dimensions:**
2 Pontoons
8x1.8x1.25m
**Draft**: 60 cm

### Range of dredging pumps

**HY85**
**MAX FLOW RATE [m³/h]**: 500
**MAX PUMPING DISTANCE [m]**: 800
**DISCHARGE DIAMETER:** DN150
**MAX SOLID PASSAGE:** 60 mm

**HY85HC**
**MAX FLOW RATE [m³/h]:** 1000
**MAX PUMPING DISTANCE [m]:** 500
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE:** 90 mm

**HY85/160**
**MAX FLOW RATE [m³/h]:** 600
**MAX PUMPING DISTANCE [m]:** 1500
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE**: 60 mm

**HY85/160HC**
**MAX FLOW RATE [m³/h]**: 1000
**MAX PUMPING DISTANCE [m]:** 700
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE**: 90 mm

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# Cable Dredges

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

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## Accessories

### Excavators

- Motor power: 14.5 kW
- Replaceable teeth
- Hydraulic motor with radial pistons
- Oil flow rate: 35 l/min each
- Weight : 500 kg
- Speed: 50 r.p.m.
- Torque: 2.6 kNm
- Rotation in both directions

### Integrated jet ring system

- Thanks to the high-pressure water jets, it allows to disintegrate the material and have a higher concentration of solids in the mixture
- Flow rate: 60–200 $m^3$/h
- Pressure: 6–7 bar
- Power supply: high pressure horizontal pump

### Propeller

- To move and rotate the dredge
- Hydraulic driven
- Maneuverable from the cabin

| ACCESSORIES | STANDARD | FULL OPTIONAL | HIGH DEPTH |
|---|---|---|---|
| Winches | √ | √ | √ |
| Hoist | √ | √ | √ |
| Operator's cabin | √ | √ | √ |
| Control panel | √ | √ | √ |
| Depth meter | √ | √ | √ |
| GPS | | √ | √ |
| Propeller | | √ | √ |
| Hose reel | | √ | √ |
| Bathymetry system | | √ | √ |
| Pressure compensator | | | √ |

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# Cable Dredges

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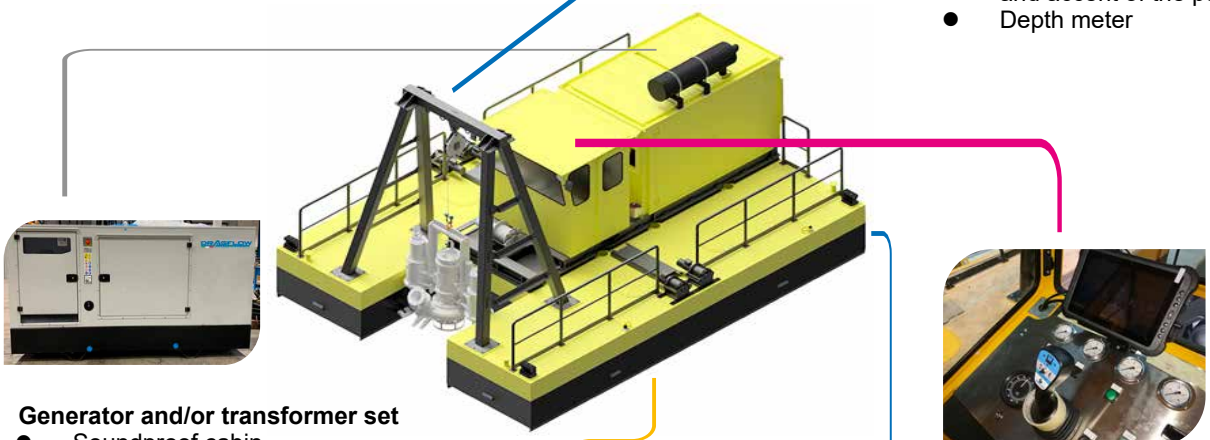
## DRH85e | DRH85/160

[electric pump]
Generator and/or transformer set



**Electric hoist**
- Manages the decent and accent of the pump
- Depth meter

**Generator and/or transformer set**
- Soundproof cabin
- Diesel engine

**Winches (x4)**
- To move dredge
- Steel cables up to 210m
- Possibility of additional propeller for movement

**Operator's Cabin**
- Command and control panel
- Heating and air conditioning
- Safety equipment
- Ergonomic seat for the operator

**Hull**
- Two pontoons 8x1.8x1.25m with central hull
- Low draft

### Range of dredging pumps

**EL60***
**MAX FLOW RATE [m³/h]**: 500
**MAX PUMPING DISTANCE [m]**: 500
**DISCHARGE DIAMETER:** DN150
**MAX SOLID PASSAGE:** 60 mm

**EL60HC**
**MAX FLOW RATE [m³/h]:** 700
**MAX PUMPING DISTANCE [m]:** 300
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE:** 90 mm

**EL1204***
**MAX FLOW RATE [m³/h]:** 600
**MAX PUMPING DISTANCE [m]:** 1000
**DISCHARGE DIAMETER:** DN150
**MAX SOLID PASSAGE**: 60 mm

**EL1204HC***
**MAX FLOW RATE [m³/h]**: 1000
**MAX PUMPING DISTANCE [m]:** 500
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE**: 90 mm

**THE SAME HULL OF THE MODELS DRH85 AND DRH85/160 CAN BE EQUIPPED WITH ELECTRIC GENSET AND ELECTRIC PUMPS**

**ZERO-EMISSION DREDGE:**
WHEN ELECTRICITY IS SUPPLIED FROM A LOCAL RENEWABLE SOURCE

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# Cable Dredges

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

DRAGFLOW

## Accessories

### Excavators

- Motor power: 9 kW
- Replaceable teeth
- Electric motor
- Weight : 800 kg
- Speed: 25 r.p.m.
- Torque: 3.2 kNm
- Rotation in both directions

### Integrated jet ring system

- Thanks to the high-pressure water jets, it allows to disintegrate the material and have a higher concentration of solids in the mixture
- Flow rate: 60–200 $m^3/h$
- Pressure: 6–7 bar
- Power supply: high pressure horizontal pump

### Propeller

- To move and rotate the dredge
- Hydraulic driven
- Maneuverable from the cabin

| ACCESSORIES | STANDARD | FULL OPTIONAL | HIGH DEPTH |
|---|---|---|---|
| Winches | √ | √ | √ |
| Hoist | √ | √ | √ |
| Operator's cabin | √ | √ | √ |
| Control panel | √ | √ | √ |
| Depth meter | √ | √ | √ |
| GPS | | √ | √ |
| Propeller | | √ | √ |
| Hose reel | | √ | √ |
| Bathymetry system | | √ | √ |
| Pressure compensator | | | √ |

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# Cable Dredges

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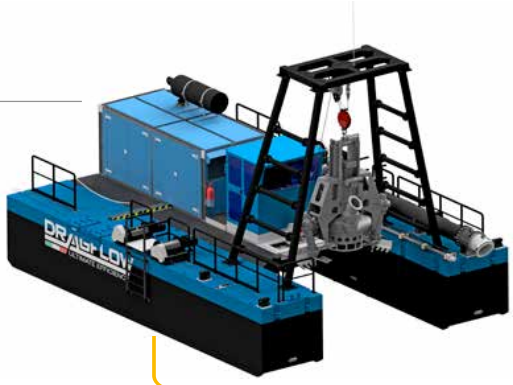
## DRH300 | DRH400 | DRH600

[hydraulic pump]
powerpack with diesel or electric motor



**Electric hoist**
- Manages the decent and accent of the pump
- Depth meter

**Power Unit**
- Soundproof cabin
- Diesel or electric motors
- Oil pumps

**Winches (x4)**
- To move dredge
- Steel cables up to 210m
- Possibility of additional propeller for movement

**Operator's Cabin**
- Command and control panel
- Heating and air conditioning
- Safety equipment
- Ergonomic seat for the operator

**Hull**
- Two pontoons 11.5x1.8x1.8m with central frame
- Low draft

### Range of dredging pumps

**HY300** **MAX FLOW RATE [m ³/h]**: 2000
**MAX PUMPING DISTANCE [m]**: 1000
**DISCHARGE DIAMETER:**DN250
**MAX SOLID PASSAGE:** 120 mm

**HY400** **MAX FLOW RATE [m³/h]:**2000
**MAX PUMPING DISTANCE [m]:** 2000
**DISCHARGE DIAMETER:** DN300-350
**MAX SOLID PASSAGE**: 120 mm

**HY400HC** **MAX FLOW RATE [m³/h]**: 3000
**MAX PUMPING DISTANCE [m]:** 1000
**DISCHARGE DIAMETER:** DN450
**MAX SOLID PASSAGE**: 120 mm

**HY600** **MAX FLOW RATE [m³/h]:** 2500
**MAX PUMPING DISTANCE [m]:** 3000
**DISCHARGE DIAMETER:** DN350-400
**MAX SOLID PASSAGE:** 120 mm

**HY600HC** **MAX FLOW RATE [m³/h]**: 4000
**MAX PUMPING DISTANCE [m]:**1000
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE**: 120 mm

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# Cable Dredges

Submersible Dredging Pumps | Remote Controlled Dredges
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DRAGFLOW

## DRH300 | DRH400 | DRH600

**DIMENSIONS**

Length.....11.5 m
Width.....8 m
Height.....7.5 m
Weight.....40/60 ton

**TRANSPORT**

Transportable in 5 containers 40'

**MODULAR DESIGN**

**Dimensions:**
2 Pontoons 11.5x1.8x1.8m and central frame
**Draft**: 80-90 cm

### Accessories

**Excavators**

- Motor power: 25 kW
- Replaceable teeth
- Hydraulic motor with radial pistons
- Oil flow rate: 60 l/min each
- Weight : 600 kg
- Speed: 50 r.p.m.
- Torque: 4.5 kNm
- Rotation in both directions

**Integrated jet ring system**

- Thanks to the high-pressure water jets, it allows to disintegrate the material and have a higher concentration of solids in the mixture
- Flow rate: 100–200 $m^3/h$
- Pressure: 6–7 bar
- Power supply: high pressure horizontal pump

**Propeller**

- To move and rotate the dredge
- Hydraulic driven
- Maneuverable from the cabin

| ACCESSORIES | STANDARD | FULL OPTIONAL | HIGH DEPTH |
|---|---|---|---|
| Winches | √ | √ | √ |
| Hoist | √ | √ | √ |
| Operator's cabin | √ | √ | √ |
| Control panel | √ | √ | √ |
| Depth meter | √ | √ | √ |
| GPS | | √ | √ |
| Propeller | | √ | √ |
| Hose reel | | √ | √ |
| Bathymetry system | | √ | √ |
| Pressure compensator | | | √ |

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# Cable Dredges

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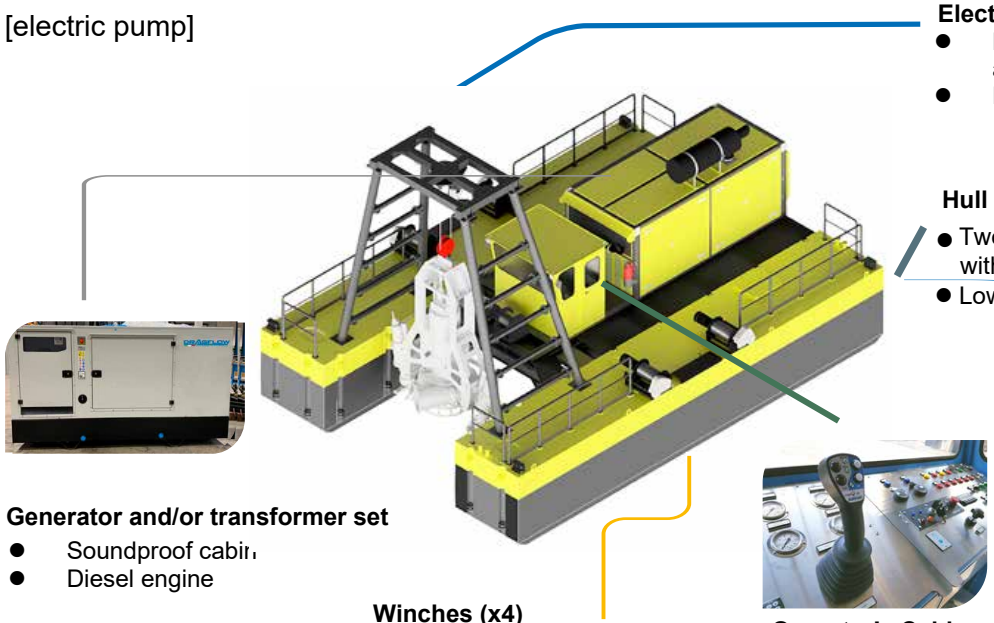
DRAGFLOW

## DRH300e
[electric pump]



**Electric hoist**
- Manages the decent and accent of the pump
- Depth meter

**Hull**
- Two pontoons 8x1.8x1.25m with central hull
- Low draft

**Generator and/or transformer set**
- Soundproof cabin
- Diesel engine

**Winches (x4)**
- To move dredge
- Steel cables up to 210m
- Possibility of additional propeller for movement

**Operator's Cabin**
- Command and control panel
- Heating and air conditioning
- Safety equipment
- Ergonomic seat for the operator

### Range of dredging pumps

**EL110*** **MAX FLOW RATE [m³/h]**: 600
**MAX PUMPING DISTANCE [m]**: 1000
**DISCHARGE DIAMETER:** DN200
**MAX SOLID PASSAGE:** 60 mm

**EL150*** **MAX FLOW RATE [m³/h]:** 1700
**MAX PUMPING DISTANCE [m]:** 600
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE**: 120 mm

**EL180*** **MAX FLOW RATE [m³/h]:** 1000
**MAX PUMPING DISTANCE [m]:** 900
**DISCHARGE DIAMETER:** DN200-250
**MAX SOLID PASSAGE**: 120 mm

**EL300*** **MAX FLOW RATE [m³/h]:** 2000
**MAX PUMPING DISTANCE [m]:** 1000
**DISCHARGE DIAMETER:** DN250
**MAX SOLID PASSAGE:** 120 mm

**EL300HC** **MAX FLOW RATE [m³/h]**: 3000
**MAX PUMPING DISTANCE [m]: 700**
**DISCHARGE DIAMETER:** DN450
**MAX SOLID PASSAGE**: 120 mm

*=can mount side excavators

# Cable Dredges

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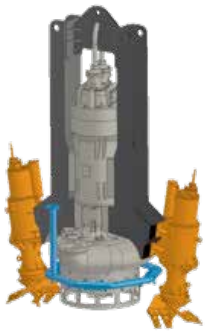
DRAGFLOW

## DRH300e

### Accessories

**Excavators**

- Motor power: 9 kW
- Replaceable teeth
- Electric motor
- Weight : 800 kg
- Speed: 25 r.p.m.
- Torque: 3.2 kNm
- Rotation in both directions



**Integrated jet ring system**

- Thanks to the high-pressure water jets, it allows to disintegrate the material and have a higher concentration of solids in the mixture
- Flow rate: 60–200 $m^3/h$
- Pressure: 6–7 bar
- Power supply: high pressure horizontal pump

**Propeller**

- To move and rotate the dredge
- Hydraulic driven
- Maneuverable from the cabin

| ACCESSORIES | STANDARD | FULL OPTIONAL | HIGH DEPTH |
|---|---|---|---|
| Winches | √ | √ | √ |
| Hoist | √ | √ | √ |
| Operator's cabin | √ | √ | √ |
| Control panel | √ | √ | √ |
| Depth meter | √ | √ | √ |
| GPS | | √ | √ |
| Propeller | | √ | √ |
| Hose reel | | √ | √ |
| Bathymetry system | | √ | √ |
| Pressure compensator | | | √ |

**THE SAME HULL OF THE MODELS DRH85 AND DRH85/160 CAN BE EQUIPPED WITH ELECTRIC GENSET AND ELECTRIC PUMPS**

**ZERO-EMISSION DREDGE:**

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# Cable Dredges

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## Dragflow monitoring system

Dragflow has developed a monitoring system for the full range of dredges that allows operators and project managers to keep track of key indicators of a project such as placement, area coverage, and more.
The information is collected by a series of sensors on board and saved on a cloud-based system accessible to operators on the dredges and offsite project managers.This telemetry package also allows remote diagnosis and downtime prevention that greatly increases efficiency of the overall dredging operation.

The Dragflow monitoring system is customized for each application and can includefollowing accessories

### Positioning and Bathymetry

- GPS System: precise mapping and positioning within the dredging area for effective coverage and better planning.
  The system can be combined with sensors such as Encoder pulley, flow meter, densimeter and more for data crossing.
- Echosounder: the serial interface can connect to the GPS system via RS232 communication,and elaborate georeferenced maps, useful to make the work more easy and accurate.

### Work parameters

- Flowmeter: the electromagnetic flow meter provides flow measurements in real time for the operator. In combination with the densimeter, it is possible to quantify the volume of material actually removed.
- Density meter:provides real-time density measurements in the discharge pipe for all types of solids. The meter uses ultrasonic technology to measure density and it is specifically designed for dredging and mineral applications.

### Working depth meter

- In order to determine the location of the dredging pump during operations, depending on the application Dragflow dredges can be equipped with encoder pulleys or piezoresistive transducers to provide real-time information to the operator.

FLOWMETER


GPS-SYSTEM

ECHOSOUNDER DEVICES


DENSITY METER

WORKING DEPTH MESUREMENT

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# Cable Dredges

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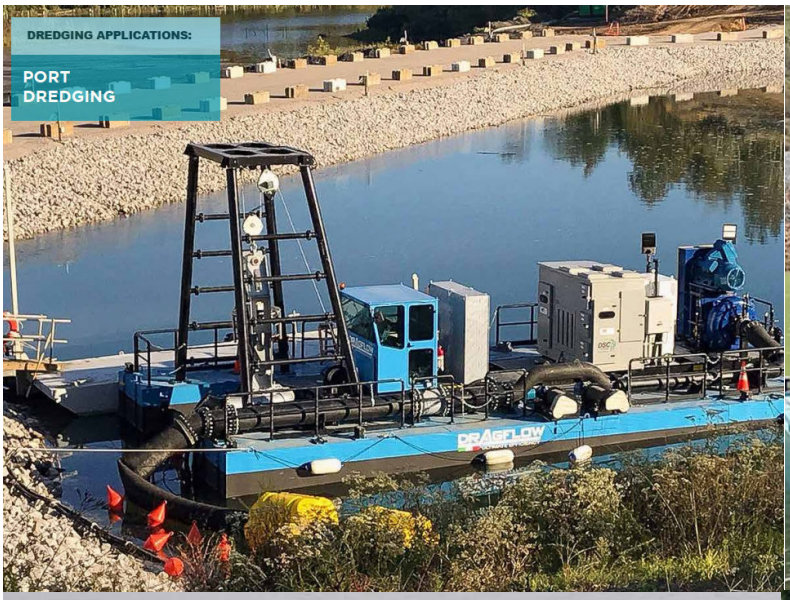


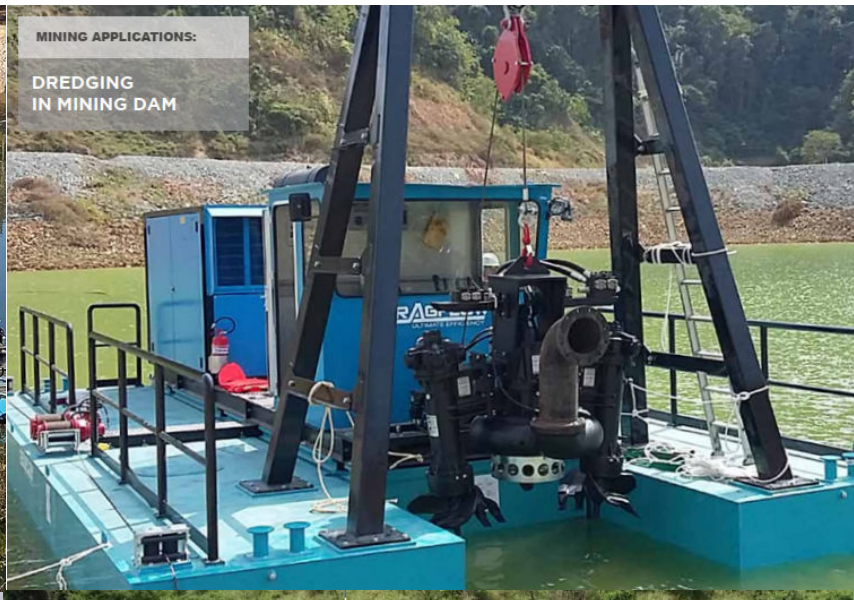


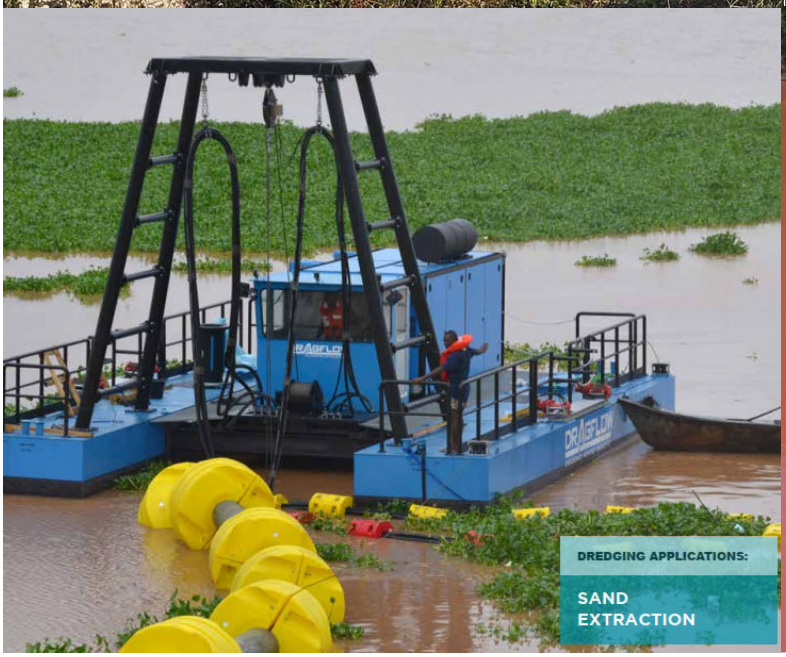


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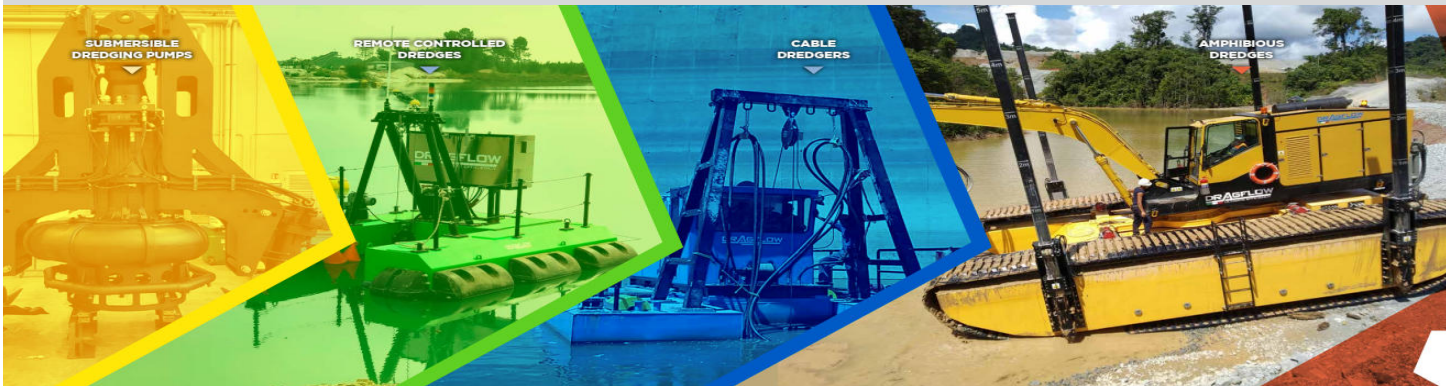
# Amphibious Dredges

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

DRAGFLOW




## DRM
## Crawler multi-purpose dredge

The DRM dredge series are multi-purpose machines that can work both on water and on land.
Designed to tackle projects where site conditions vary from very shallow to deeper areas and in projects where extreme mobility is important.
The DRM design provides the mobility of an amphibious excavator together with the stability of a dredger without side poontons.

### Main characteristics:

- Total mobility in both land and water
- System operated by a single operator
- Dredging depth up to 6.5m
- Capable of pumping up to 1000m³/h
- Possibility to use different hydraulic tool attachments
- Available with bucket up to 1,5 m³
- Packed and shipped infive 40ft containers for quick installation

## Special Features

**1.Hydraulic Power Units**

Dragflow's Hydraulic Power Units are custom built to handle the requirements of our machines.

They can include a wide range of features:

- Completely customisable for additional tools
- Available with Diesel engines or electric motors to run the hydraulic system
- Sound proof Enclosure for reduced noise levels during operation
- Diesel engines available in TIER 4 FINAL STAGE V

**2.Undercarriage tracks**

The DRM tracks can be made in either steel or polymeric material. Additionally, they are joined by individual links that allo an easier maintenance and replacement,making the entire machine much more reliable.

**3.Flotation Studies**

Flotation studies were performed according to IACS regulations to obtain the perfect setup for the machine under these extreme conditions.

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# Amphibious Dredges

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DRAGFLOW

**DRM**

**Hydraulic Arm**
- Precisely moves pump up and down
- Depth measuring sensors
- Possibility to install other hydraulic tools

**Hydraulic Pack**
- Sound proof canopy
- Diesel engine
- Closed hydraulic circuit
- Oil pump
- Completely customizable hydraulic circuits

**Winches (x4)**
- For moving the dredge
- Steel cables
- Optional propeller
- Stabilizer Spuds (x4)

**Floaters**
- Two pontoons 11x2x1,5m with central floater for exceptional stability
- Small draft

**Operator cabin**
- Complete control panel
- Heating and air conditioning
- Ergonomic seat
- Safety equipment
- Equipment status
- Emergency stop controls

**HPU**
- The hydraulic thruster is driven from the operator cabin and drives the dredge independently without any connection to the shore.

Length.....11.5m
Width.....7m
Height.....4.5m
Weight.....53 ton

**TRANSPORT**
Transportable in five containers 40'.
Assembly operations takes as short as 8-10 hours

**DIMENSIONS**
Two (2)pontoons 11m x 2 m x 1.5 m with central floater

**DRAFT**
1.5 m

**Type**.....Diesel engine (265 kW/360HP)
**Fuel Capacity**.....1200 L
**Emission Compliance**.....EU STAGE III A

**HY85/180**
Max Capacity.....[m³/h] 1000
Max Head.....[m] 60
Discharge Diameter.....DN200
Max Solid Handling.....90 m

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# Amphibious Dredges

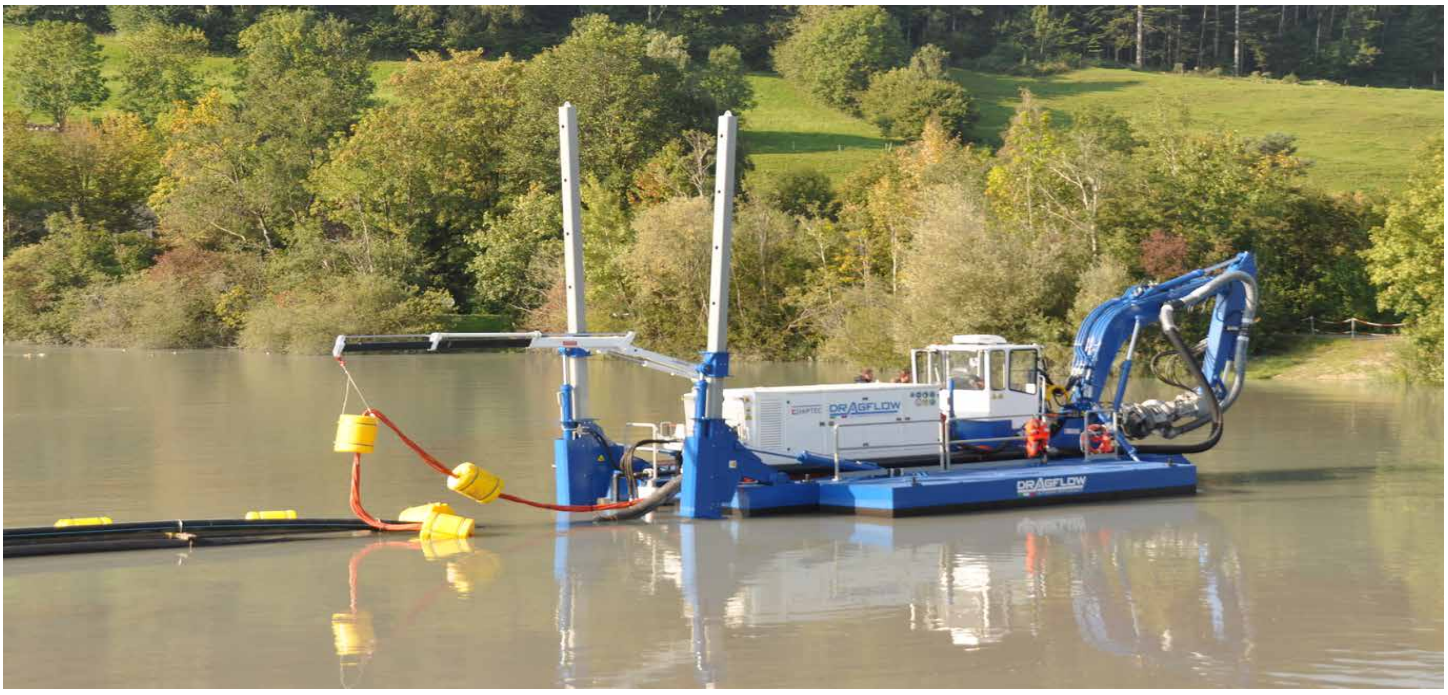
Submersible Dredging Pumps | Remote Controlled Dredges
Cable Dredgers | Amphibious Dredges

DRAGFLOW

**DRSP**
**Multi-purpose dredge**

DRSP (Multi-purpose dredge) represents a step over on approach of dredging technique.
The extreme mobility in any kind of swamp,together with the full floatability, allows to reach the most the most remote locations otherwise impossible to get with any other equipment.

Pumping capacity up to 600-800 m3/h with delivery distance up to 1500 meters or more
can make possible to perform works with the highest productivity ever. The combination of such equipment with the DRAGFLOW dredging technology makes the DRSP unbeatable in terms of efficiency and durability.




**Main Features**

- Great stability and buoyancy in different water environments
- Independent propulsion system in both water and on land
- Dredgeup to 6.5m of depth
- Interchangeable hydraulic tools

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# Amphibious Dredges

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DRAGFLOW

**Main Arm**
Max working depth 6,7m
Precisely moves pump up and down
Depth measuring sensors
Possibility to install other hydraulic tools

**Power Pack**
The hydraulic power pack can be based on electric motors or on diesel engines in compliance with the latest European emission standards.

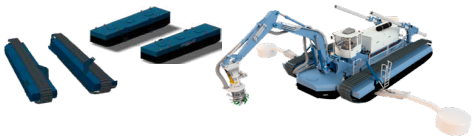
**Rear Stabilizers**
Thanks to a max working depth of 7m, the rear stabilizers can anchor the dredge during the dredging operations.

**Front Stabilizers**
The stabilizers increase the lateral stability of the dredge during the movement of the arm.

**Service crane**
With its max extension of 6m, it can be used for several operations on the dredge.

**Operator cabin**
- Complete control panel
- Heating and air conditioning
- Ergonomic seat
- Safety equipment
- Equipment status
- Emergency stop controls

**Thruster**
The hydraulic thruster is driven from the operator cabin and drives the dredge independently without any connection to the shore.



With this upgrade, the DRSP dredges achieves an extra level of independence for those particularly harsh environments.The tracked module can be added to new and existing DRSP dredges for an extra mobility boost.

Length.....10.5 m
Width.....6.4 m
Height.....3.4 m
Weight.....53 ton

**DIMENSIONS**
One (1) main pontoon 10.5m x 3.30 2 m x 1.1 m
with two (2) lateral pontoons 6.7 m x 1.5 x 1.1

**DRAFT**
0.66 m

**TRANSPORT**
Transportable in five containers 40'.
Assembly operations takes as
short as 8-10 hours

**HY85/180**
Max Capacity.....[m³/h] 1000
Max Head.....[m] 60
Discharge Diameter.....DN200
Max Solid Handling.....90 m

**Type.**.....VECO Diesel engine (265 kW/360HP)
other brands available on demand
**Fuel Capacity.**.....1200 L
**Emission Compliance**.....STAGE V or lower according to the legislation of the country of application

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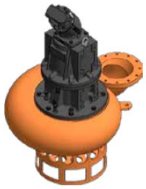


**DRAGFLOW DREDGING**

**HY85/160**

Max Capacity.....[m³/h] 1000
Max Head.....[m] 60
Discharge Diameter.....DN200
Max Solid Handling.....90 m

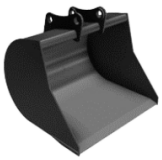
Hydraulic Motor
Motor Displacement:.....[cc - (cu in)]: 160 - (9.8)

Materials
Casing Spheroidal cast iron EN-GJS-800-2 (EN 1563)
Wear parts High chrome
EN-GJN-HV600 (XCr18) (EN 12513)

## ACCESSORIES

**DTM Cutter Head**
- Hydraulic motor Radial piston
- Capacity (l/min) 40
- Tooth system materials: harder and tougher alloy steel

**Side Cutters**
- Replaceable teeth
- Radial piston hydraulic motor
- Oil requirement: 35 l/min each
- Rotates in both directions



**Backhoe Bucket without teeth 1000 lt**
- Cap. Sae. 1000 lt
- Weight: 830 kg
- Double base in S355

**Backhoe Bucket 600 lt**
- N. 4 teeth type Cat J300
- Cap. Sae: 600 lt
- Weight: 580 kg
- Double base in S355

**Bucket Rake**
- N. 11 teeth type Cat J300
- Weight: 1200 kg
- Distance between tips: 200 mm aprox

**Vibro Pile-Drivers**
- Min Oil Flow: 100 l/min
- Working pressure: 150 bar
- Max centrifugal force: 12000 kg
- Vibration numbers: 2300
- Weight: 1200 kg

**Clamshell Bucket 300 kg**
- Weight: 300 kg
- Static flow: 2 ton
- Force: 1,7 ton
- Surface: 0,35 $m^2$

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# The PRIME project delivery pathway.

Prime Fluid Management operates a robust project delivery process, ensuring timely, cost-effective, and realistic project plans through the PRIME project delivery pathway.

### Discover

We take a take time to understand your project and to gain a solid understanding your goals, drivers and constraints.

### Design

Every client, site and project is unique. We focus on the solution that will perform best in all scenarios across the intended lifetime of your project.

### Deliver

Once approved, we deliver. Depending on project or product requirements this may include install, commissioning, and on-site training.

### Support

We are here if you need us. Whether you need parts, repairs, or further support we work fast to limit downtime on site.

**Auckland:**
13b McLaughins Rd, Wiri

**Tauranga:**
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