







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 difficult to reach locations. Assembly and installation are simple and take only a few 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 equipped 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 to 4000 m³/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

- Cleaning of canals and rivers
- Dredging of **ports and marinas**
- Desilting 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



Our line of cable dredges is also available in automatic version.



DRH85 | DRH85/160

[hydraulic pump] electric or diesel power unit

Hydraulic hoist

- Manages the descent and ascent of the pump
- Depth meter



Power unit

- Soundproof cabin
- Diesel engine or electric motors
- Oil pumps



Operator's cabin

- Command and control panel
- Heating and air conditioning
- Ergonomic seat for the operator
- Safety equipment

Winches (x4)

- To move the dredge
- Steel cables up to 210 m
- Possibility of additional propeller for movement

Hull

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



DRH DIMENSIONS SET UP

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



TRANSPORT

Transportable in 4 containers 40'.



MODULAR DESIGN

Dimensions Two pontoons 8x1,8x1,25 m

with central hull.

Draft 60 cm



Performance will depend on

the actual site

conditions and duty point.

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

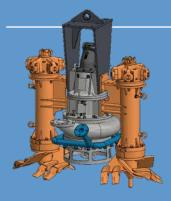
DISCHARGE DIAMETER: DN250 MAX SOLID PASSAGE: 90 mm

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



ACCESSORIES

Excavators

Motor power: 14.5 kWReplaceable teeth

• Hydraulic motor with radial pistons

• Oil flow rate: 35 l/min each

Weight: 500 kgSpeed: 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 m³/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			√

DRH85e | DRH 85/160e

[electric pump] generator and/or transformer set

Electric hoist Manages the descent and ascent of the pump • Depth meter Operator's cabin • Command and control panel · Heating and air conditioning • Ergonomic seat for the operator • Safety equipment

Generator and/or transformer set

- Soundproof cabin
- Diesel engines

Winches (x4)

- To move the dredge
- Steel cables up to 210 m
- Possibility of additional propeller for movement

Hull

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



Performance

the actual site

conditions and

depends on

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

duty point. **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]: 700 MAX PUMPING DISTANCE [m]: 500 DISCHARGE DIAMETER: DN250 MAX SOLID PASSAGE: 90 mm

* = can mount side excavators

THE SAME HULL OF THE MODELS DRH85 AND DRH85/160 CAN BE EQUIPPED WITH ELECTRIC GENSET AND ELECTRIC PUMPS ZERO-EMISSION DREDGER:

WHEN ELECTRICITY IS SUPPLIED FROM A LOCAL RENEWABLE SOURCE



ACCESSORIES

Excavators

- Motor power: 9 kWReplaceable teeth
- Electric motor
- Weight: 800 kgSpeed: 25 r.p.m.Torque: 3,2 kNm
- · Rotation in both directions

Integrated jet ring system

- Thanks to high pressure water jets, allows to disintegrate the material and have a higher concentration of solid in the mixture
- Flow rate: 60-200 m³/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			√

DRH85e | DRH 85/160e

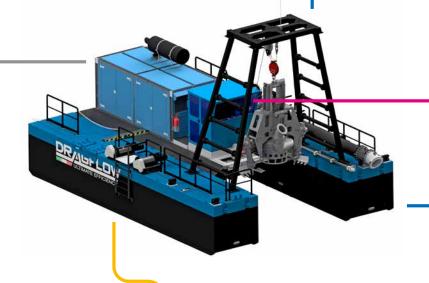
DRH300 | DRH400 | DRH600

[hydraulic pump]

powerpack with diesel or electric motor

Hydraulic hoist

- Manages the descent and ascent of the pump
- Depth meter





Operator's cabin

- Command and control panel
- Heating and air conditioning
- Ergonomic seat for the operator
- Safety equipment



Power unit

- Soundproof cabin
- Diesel or electric motors
- Oil pumps

Winches (x4)

- To move the dredge
- Steel cables up to 210 m
- Possibility of additional propeller for movement

Hull

- Two pontoons 11.5x1.8x1.8 m and central frame
- Low draft



DRH DIMENSIONS SET UP

Length 11.5 m
Width 8 m
Height 7.5 m
Weight 45/60 ton



TRANSPORT

Transportable in 5 containers 40'.



MODULAR DESIGN

Dimensions Two pontoons 11.5x1.8x1.8 m and central

frame.

Draft 80-90 cm



Performance

depends on

actual site conditions and

duty point

RANGE OF DREDGING PUMPS

HY300 MAX FLOW RATE [m³/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: DN450 MAX SOLID PASSAGE: 120 mm



ACCESSORIES

Excavators

Motor power: 25 kWReplaceable teeth

Hvdraulic motor with radial pistons

• Oil flow rate: 60 I/min each

Weight: 600 kgSpeed: 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 solid in the mixture

• Flow rate: 100-200 m³/h

• Pressure: 6-7 bar

Power supply: high pressure horizontal pump

Propeller

To move and rotate the dredge

• Hydraulic driven

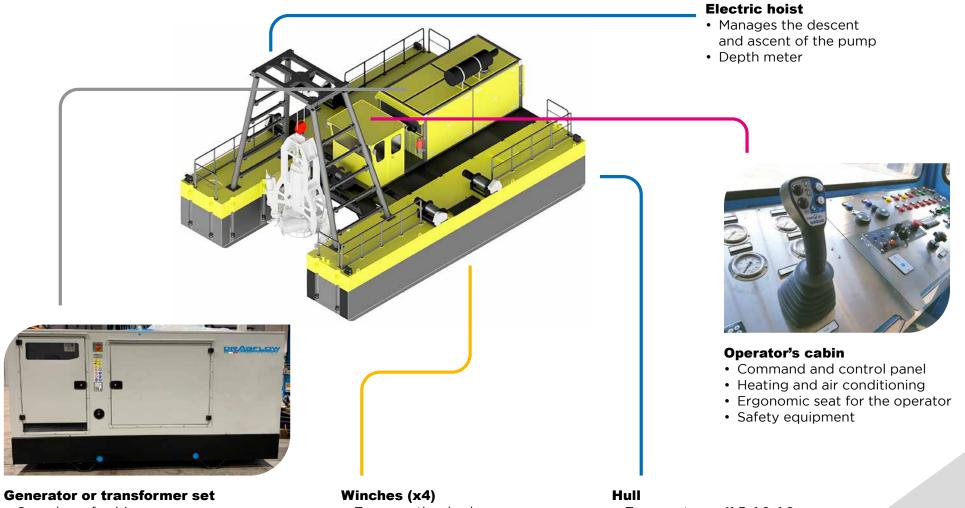
• Maneuverable from the cabin

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

DRH300 | DRH400 | DRH600

DRH300e

[electric pump]



- Soundproof cabin
- Diesel engines

- To move the dredge
- Steel cables up to 210 m
- Possibility of additional propeller for movement

- Two pontoons 11,5x1,8x1,8 m with a central frame
- Low draft



Performance

the actual site

conditions and duty point.

depends on

RANGE OF DREDGING PUMPS

EL110* MAX FLOW RATE [m³/h]: 600

MAX PUMPING DISTANCE [m]: 1000 **DISCHARGE DIAMETER: DN200**

MAX SOLID PASSAGE: 60 mm

MAX FLOW RATE [m³/h]: 1700 EL150*

> 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: 60 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



THE SAME HULL OF **MODELS DRH300, DRH400 AND DRH600 CAN BE EQUIPPED WITH ELECTRIC GENSET AND ELECTRIC PUMPS**

ZERO-EMISSION DREDGER:

WHEN ELECTRICITY IS SUPPLIED FROM A LOCAL RENEWABLE SOURCE



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Excavators

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

DRH300e

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 include following 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.

























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Dragflow



dragflowdredge



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