
AQUATECH™

Aquatech specializes in dewatering and pumping solutions for all temporary fluid handling and transfer applications

AQUATECH DEWATERING

DEWATERING & PUMPING SOLUTIONS

CORE COMPETENCIES

- Construction and mine dewatering
- Tailings and sediment pond dredging
- Mine sump pumping
- Sludge and slurry pumping
- Temporary sewage/creek bypass pumping
- Industrial fluid transfer pumping
- HDPE pipe and fusion services

AQUATECH™ DEWATERING

DEWATERING & PUMPING SOLUTIONS

CONSTRUCTION

WATER & WASTE WATER

ENVIRONMENTAL

INDUSTRIAL

MINE & QUARRY

OIL, GAS & CHEMICAL

MARINE

EMERGENCY RESPONSE

AQUATECH™ DEWATERING

DEWATERING & PUMPING SOLUTIONS

AQUATECH™ DEWATERING COMPANY

Full contract dewatering services with a large skilled labour force and inventory of support equipment.

AQUATECH™ PUMP AND POWER

Specialized pumping equipment on a sale or rental basis with complete service and engineering support of the product lines.

AQUATECH™
DEWATERING COMPANY

CONTRACT SERVICES

- Groundwater Control
- Dewatering
- Environmental Assessment, Permitting and Monitoring
- Aquifer Pumping Tests and Analysis
- Drilling and Installation of Dewatering & Monitoring Wells
- Discharge Filtration
- Pump & Treat Systems
- Decommissioning
- Licensed MOE contractor and technicians
- Drilling Equipment & Support

AQUATECH™
PUMP AND POWER

FULL-SUPPORT RENTAL & SALE

- Specialized Pumping Equipment
- Large Inventory for Sale or Rental
- Local Facilities, Local Support
- Service & Maintenance
- Custom Fabrication
- Product Application Engineering
- Exchange & Consignment Programs
- 24/7 Delivery and Emergency Response

DIESEL, ELECTRIC AND HYDRAULIC CENTRIFUGAL PUMPS

ELECTRIC AND HYDRAULIC SUBMERSIBLE PUMPS

PNEUMATIC PUMPS

DREDGING PUMPS

MULTISTAGE PUMPS

SUBMERSIBLE TURBINE PUMPS

DISCHARGE FILTRATION EQUIPMENT

SEWER PLUGS

HOSE

PIPE

FITTINGS

DREDGES

AQUATECH™ DEWATERING

DEWATERING & PUMPING SOLUTIONS

HYDROGENERATING STATION

Abitibi Canyon

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WELLPOINT SYSTEM

Toronto, Ontario

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EMERGENCY BYPASS

Barrie, Ontario

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SINK HOLE EMERGENCY

Vaughan, Ontario

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DISCHARGE FILTRATION

Durham, Ontario

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DEWATERING & PUMPING SOLUTIONS

Aquatech has a team of over 100 employees with local branches to support your project.

Concord

Sudbury

Timmins

Thunder Bay

Ottawa

Montreal

St. John's

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DEWATERING & PUMPING SOLUTIONS

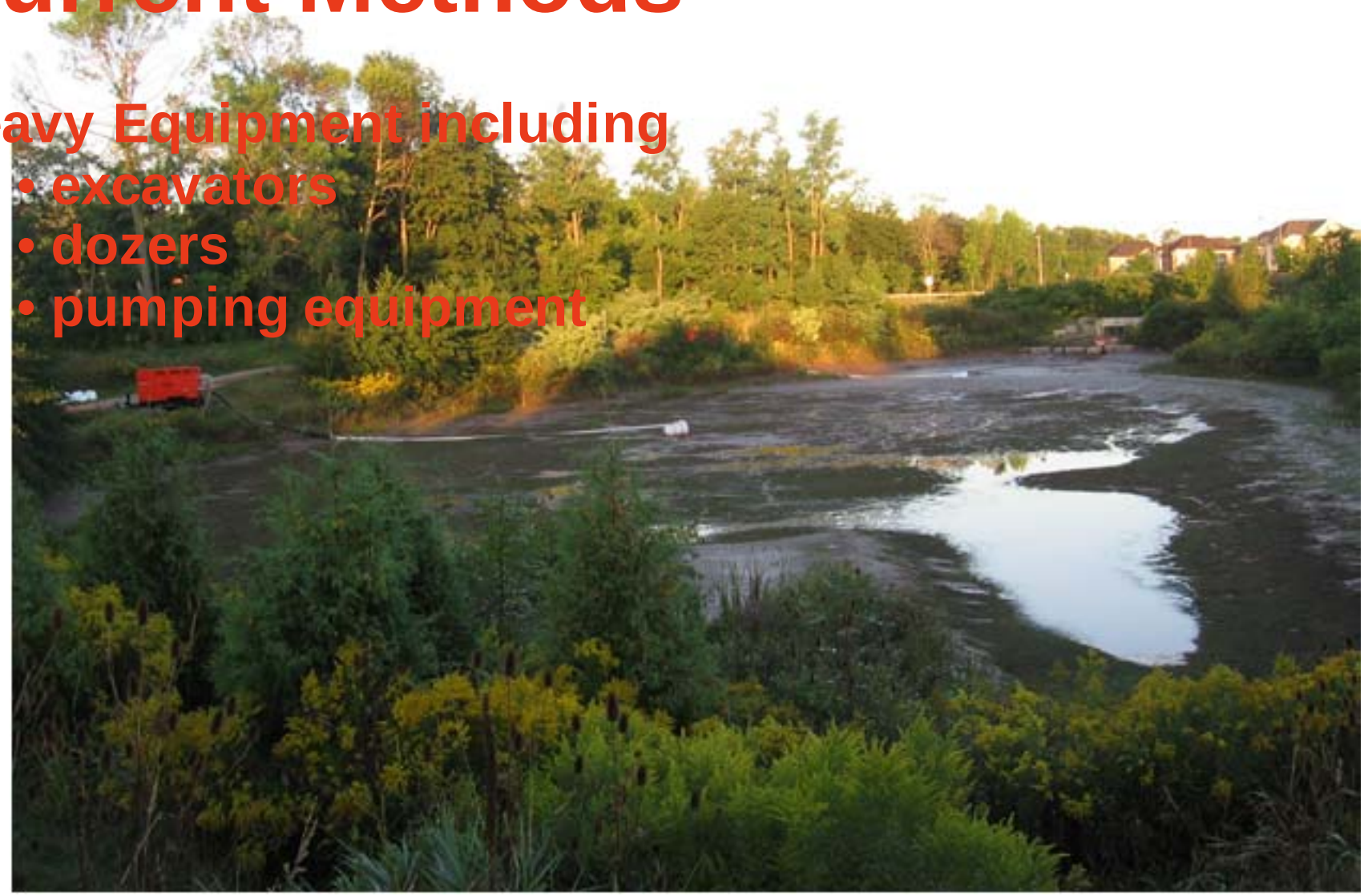
AQUATECH

DREDGING PUMPS AND SOLUTIONS FOR PONDS IN URBAN AREAS

Current Methods

Heavy Equipment including

- excavators
- dozers
- pumping equipment



Limitations – Access & Restoration

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DEWATERING & PUMPING SOLUTIONS

Limitations – Access & Restoration

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Limitations – Public Interference

Limitations – Weather Dependent

Alternative – Dredging Pumps

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Types of Pumps

Heavy Duty Submersibles

Electric Pumps

Power: 5-150 HP

Capacity: 30-1000 m3/h

Head: 5-75 m

Discharge distance: up to 800 m

Hydraulic Pumps

Power: 24-400 HP

Capacity: 60-1200 m3/h

Head: 5-10 m

Discharge distance: up to 1300 m


FH 300

Accessories

Excavators EXHY

Power: 11-30 HP

Speed: 30-50 RPM

Oil: 35 / 46 / 58 L/min

Pressure: 250 bar

Jet - Ring

Water capacity: 20-200 m³/h

Pressure: 6/8 bar.

Hydraulic or electric driven centrifugal water pump

Cutter-knife

Cutter for seaweed to prevent pump blocking

Accessories

Pressure Compensator

Working depth: 45m and up

Quick cable change

Anti-turbidity Bell

To work where the cleanness of water has to be preserved

Frame for Excavators (i.e. CAT)

Frame for Excavators (i.e. CAT)

Accessories

Hydraulic Power Pack

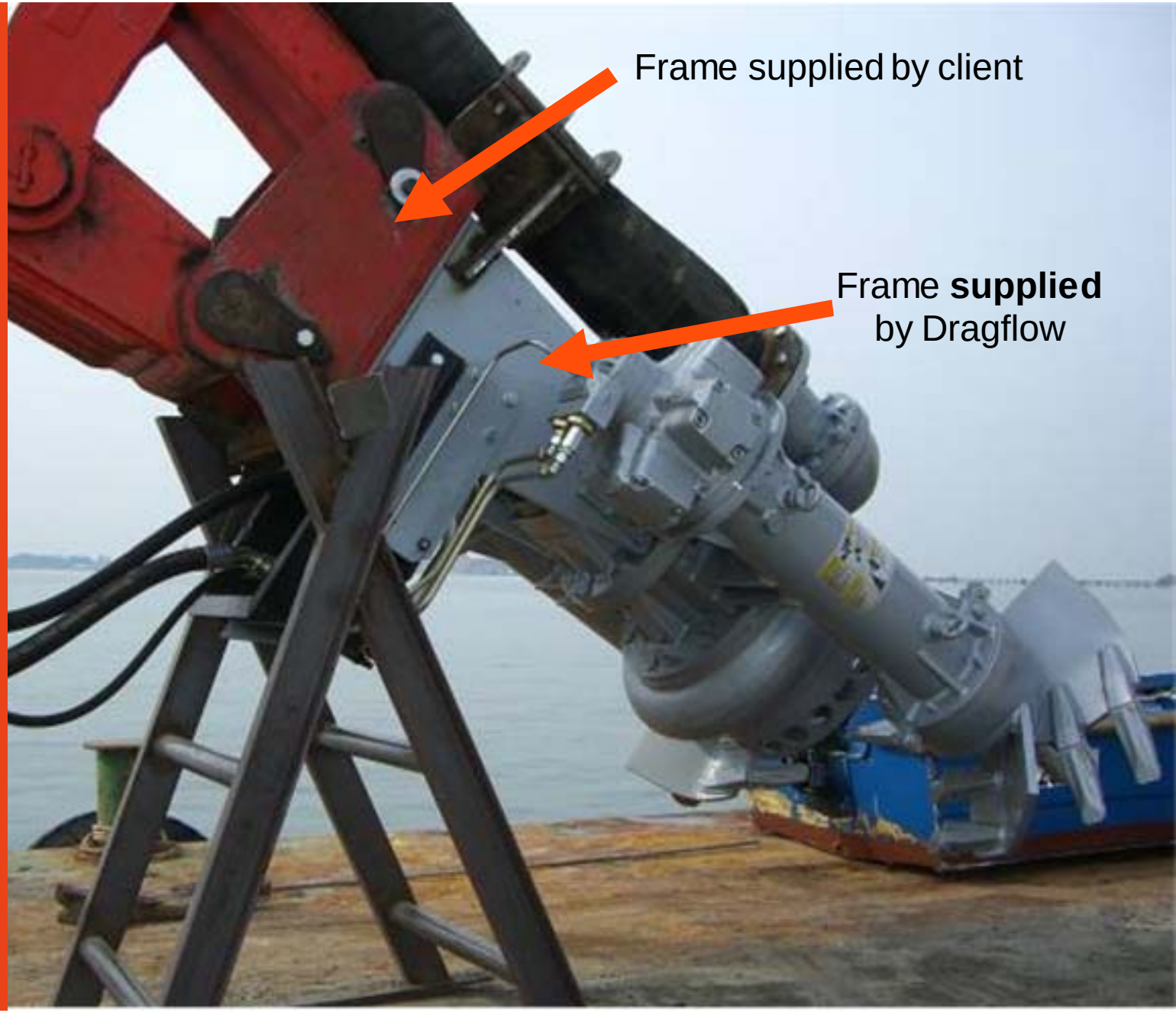
- Power Packs up to 500 kW
- Engine: Diesel or Electric
- Variable flow and speed
- Sound proof canopy available
- Remote/Radio control
- Integrated fuel tank (Diesel)
- Operational in low temperature (-40°C)

Main Features

- Electric and Hydraulic Pumps with Agitator **prevents solids from blocking the pump inlet** by mixing solids with liquid creating a slurry that can easily be handled by the pump
- Dragflow Pumps are **designed to pump settled slurry containing solids up to 120mm (5" diameter)**
- **Solids concentration up to 70% by weight or 50% by volume**
- Dragflow is the only company that **offers the widest range of submersible dredging pumps**

Video Example

Hydraulic Pumps and Excavators



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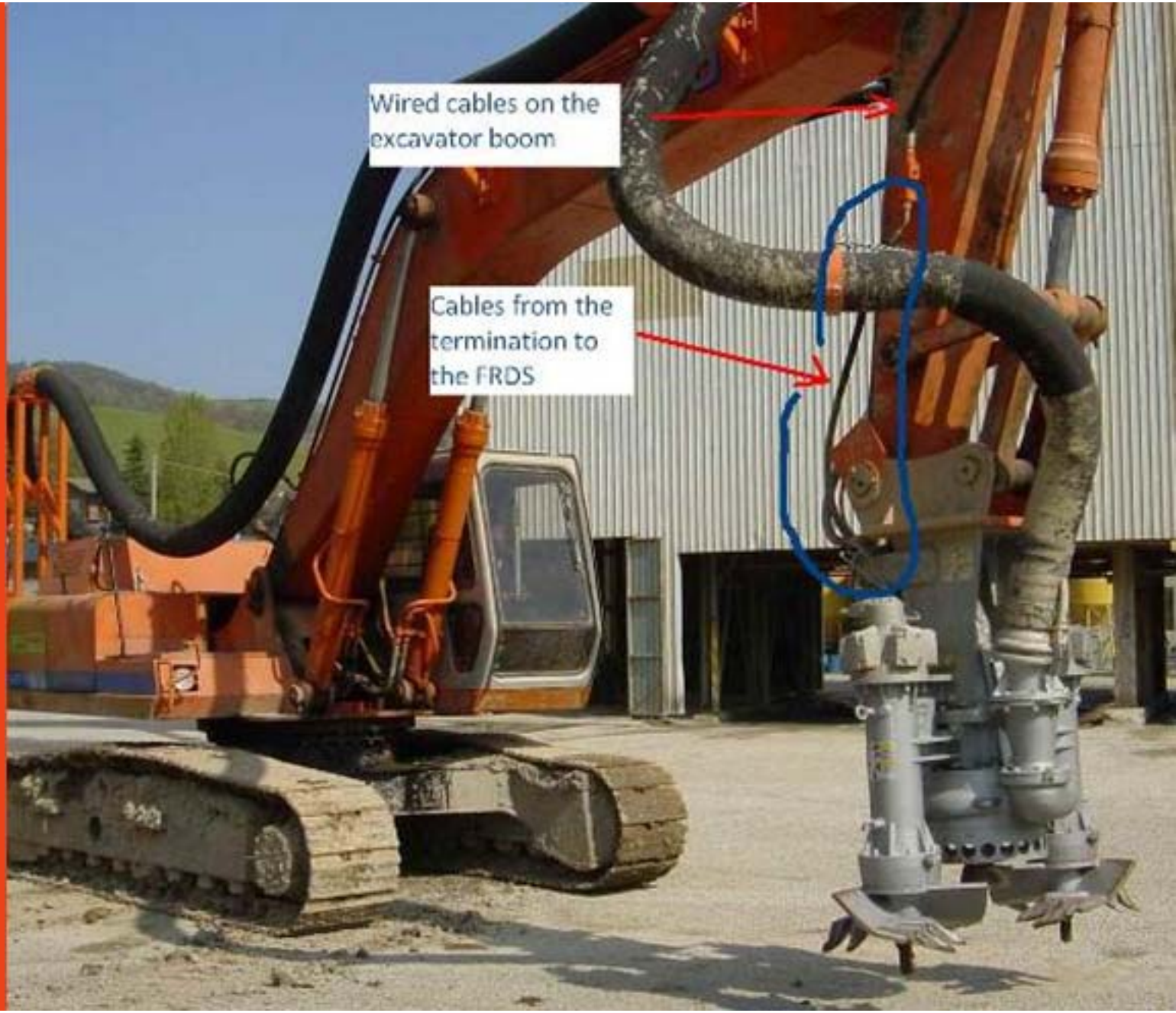
DEWATERING & PUMPING SOLUTIONS

Hydraulic Pumps and Excavators

Oil hoses:

Usually only the connection between the termination and the FRDS is need



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DREDGES

Types of Dredges

Dragflow manufactures three different kinds of dredges:

- Dredges with hoist
- Dredges with telescopic boom
- Suction dredges with submersible pump

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Details

- Diesel or electric powered
- Designed with maximum attention to technical details and customer needs
- Designed to optimize performance based on clients working performance

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High Depth – Small Dimensions

Small tonnage and compact design means

- **Easier handling and control**
- **Limited draught (approx. 1m)**
- **Ability to dredge with only one man**
- **Lower costs for clients**

High Performance – Low Power

Delivers high quantity of dry tons per hour with less power than other dredging systems

- **With same diesel engine Dragflow will produce up to 30% more in solid production than suctions dredges**
- **Lower fuel consumption with same performance means environmental consideration**

Remote Control

- Wireless Remote Control
- No people required on board
- Increased safety and usability
- Available for Electric and Hydraulic units
- Controls – RPM, Winches, and Hoists
- Displays – Working depth and pump pressure

Distinguished Factors

High Use Flexibility

With Dragflow dredges, you get much more than a dredge. Take the pump off the dredge and…

Use the pump with an excavator

Use the pump with cables

Use the pump with other marine equipment

Use the pump with a crane

Applications

- Harbors, Marinas, Rivers, Channels, Lagoons
- Dams
- Loading/Unloading barges
- Reclaiming beaches
- Trencher and submersed pipe lines
- Pumping tailing material
- Pumping bituminous sand
- Settling and collection ponds

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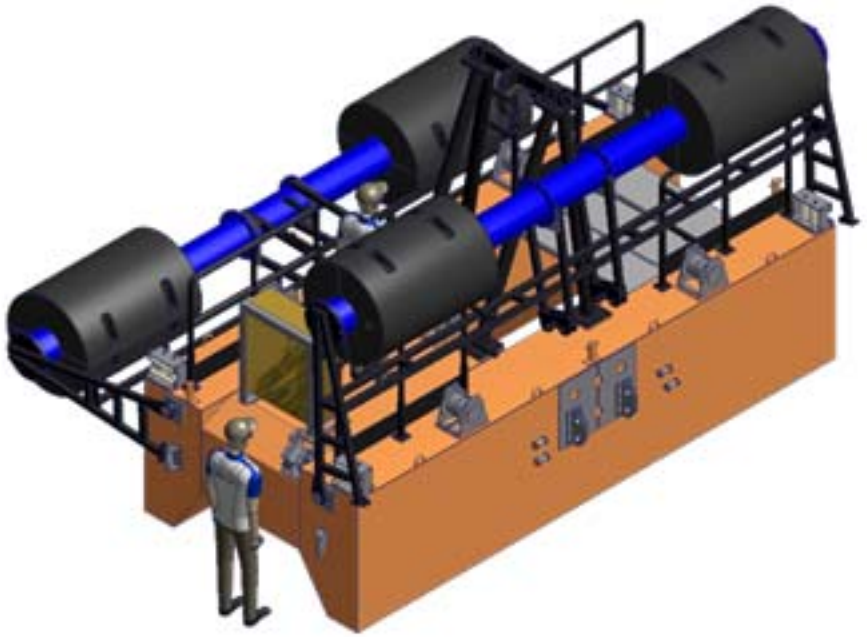
Remote Control Mini Dredge

- Production up to 100 m3/h of mixture
- Discharge distance up to 300m
- Fully wireless remote controlled
- Design for ease of portability
- Winches for anchoring and positioning
- Safe - no humans are needed on the barge

Remote Control Dredge

- Production up to 500 m3/h of mixture
- Discharge distance up to 1000m
- Dredging depths to 100m plus
- Design for ease of portability
- Winches for anchoring and positioning
- High solid content - up to 70% concentration by weight



Mobile Centrifuge

- Can process 200 – 250 m3 per 12 hour shift
- Continuous process using centrifugal force up to 3000 times greater than gravity
- Faster throughput than other similar mechanical devices
- Ability to handle larger solids
- Produces dryer dewatered matter than alternatives thus reducing disposal cost
- Acceptable process to both people and the environment

Geo Textile Tube

- The geotextile fabric allows excess water to drain from the tube resulting in an effective and inexpensive method of dewatering
- Economical method of dewatering silt and sludge in comparison to mechanical alternatives
- Limited space requirement. Ability to stack tubes.
- Dredged material can be disposed of or reused
- Minimal impact on the environment

Geo Textile Tube

Golf Course Example – 6th Hole

AQUATECH™

Q&A

How can we help you on your next project?

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Thank you for your interest