DRAGFLOW
ULTIMATE EFFICIENCY

INDUSTRY
We have a Deep ATTITUDE
Nearly two-thirds of the non-fuel minerals mined each year are aggregates. Dragflow has been involved in the design and manufacture of dredging equipment for the industry for more than 25 years. Our equipment is used in sand and gravel extraction operations, washing plants, tailings ponds, scale pits, bentonite recycling and dredge mining projects around the world. This experience has driven continuous development to reach the best solutions for the different industries. In addition to submersible pumps for very heavy slurry and dredges for wet sand mining and ponds, Dragflow has been constantly working for more than 25 years to provide custom solutions for the aggregates, construction and industrial sectors. The latest development is a series of advanced control panels that permit monitoring of Dragflow systems from remote location thanks to a web-based application that shows real-time functioning and the history of the most important parameters.

**Dragflow heavy duty industrial agitator pumps are built for:**

- SAND & GRAVEL OPERATIONS
- TAILINGS POND CLEANING
- SCALES PIT CLEAN UP IN STEEL INDUSTRY
- BENTONITE RECYCLING
- TANK CLEAN-OUT
- AGRICULTURAL PRODUCT WASH DOWN PIT (POTATOES, CARROTS, TOMATOES...)
- TREATMENT PLANTS
About Dragflow

Dragflow was born at the end of the 1980’s as a manufacturer of heavy duty submersible agitator pumps specifically designed for handling slurries with a high content of abrasive solids. Thanks to the passion and brilliance of its team of technicians and engineers, Dragflow S.r.l. has proven to be not just a simple alternative for handling solids with conventional products and systems, but provides solutions for those clients operating in specialized sectors who must face extreme conditions and solve very difficult applications. Many successful cases and customer satisfaction have encouraged us to continue with the research and further development of our products.
Technology
As a recognized leader in the production and marketing of submersible dredge pumps, Dragflow has gained over the years remarkable international experience and first rate reputation in the production of dredges, for marine and energy sectors as well as in mining for minerals and other materials. Thanks to the experience in leading technology projects, Dragflow continuously enhances its ability to deliver high-quality products.

People
The Dragflow team constantly works not only to find new technological solutions that improve the performance of its products, but also to design specific solutions for contractors and end users, optimizing sustainable operations with energy savings and reducing the environmental impact and overall costs.

Quality and Service
Dragflow products are made with an exceptional structural quality to achieve low maintenance and service costs and long life of components and wear parts. Dragflow invested in ISO9001 Quality Certification and in its information systems, because it believes in the importance of business process management, not only for improving efficiency but also to provide excellent service to Customers. With its distribution network around the world, Dragflow is able to give consultancy, service and assistance worldwide.

Proven Worldwide – Global Sales And Service Presence
Dragflow pumps are being used in the world’s harshest environments. Our global sales and service network ensures that we provide the highest level of sales and after-sales service.
Unbeatable efficiency

Dredging and solids reclamation are energy intensive operations. The main challenge for manufacturers of dredging equipment is to develop efficient machines that reduce use of energy and thus minimize the operating cost of projects.

Dragflow has been fully concentrating on submersible dredge pump technology since the beginning and is now able to provide the widest range of electric and hydraulic submersible pump on the market. The presence of a double blade agitator together with pump suction directly in contact with the material make Dragflow pumps able to move slurries with solid content up to 70% by weight.

Higher solid concentration means using energy to move solids instead of water! It means possibility to work with smaller diesel engines and reduced discharge pipe diameters. The results is a considerably reduced operating cost per cubic meter while keeping total daily production at the same level of bigger size cutter suction dredges.
High Versatility

The Dragflow submersible dredge pump is a versatile tool. It can be attached to the boom of an excavator and run using the excavators hydraulics or it can be suspended from a crane or an A-frame to form a highly efficient suction dredge. Design of dredges becomes extremely simplified with the possibility to reduce capital cost and have high working depth without any increase in the cost of equipment.

Pumps can be provided with cutter heads and thus form a submersible cutter dredger, with high pressure water jets to work in extremely concentrated mud or it can be equipped with an auger head for environmental dredging operations.
Sand and Gravel

For sand and gravel applications efficiency is crucial. The cost per ton of extracted material can heavily change the profitability of the plant. Dragflow solutions prove to be a competitive alternative to more traditional cutter suction dredges because the
submersible agitator pump technology allows a much higher solid concentration in the dredged slurry thus permitting lower operational cost per cubic meter of material extracted. This means it is possible to reduce discharge line diameter and water usage together with an overall reduction of fuel consumption per extracted ton.

But Dragflow pumps are not only used for material extraction. The electric line is also widely used in washing plants and sludge ponds.
Sand washing and dewatering processes produce a highly abrasive sludge that has to be pumped to settling ponds or treatment plants. Dragflow heavy duty pumps are an ideal solution to guarantee long life even in the presence of high percentage of quartz.
Cleaning of tailings and industrial pits is an important operation to keep the production process going. Dragflow has become a new standard: thanks to the higher solid concentration provided by Dragflow technology it is possible to reduce usage of water or cope with extremely heavy slurries. Dragflow pumps can also be equipped with augers or cutters to be used in pumping organic materials or in presence of long vegetation. In addition to exceptional pumps Dragflow can provide remote controlled electric dredge: an efficient, simple and safe way to keep tailing and sediments under control.

**Steel Mills**

Dragflow pumps are used worldwide for cleaning of scale pits in steel mills. Thanks to the agitator and higher solid concentration provided by Dragflow technology it is possible to lift the scale and pump it in a very high concentration. Dragflow pumps can also be equipped with temperature control and advanced electric control panels to have complete control of the application and the efficiency of the cleaning process.
Dragflow pumps and remote controlled dredges can be efficiently operated in sludge removal from biosolid lagoons thanks to their ability to handle abrasive solids and the option of a cutter-knife to chop organic materials. A mechanical excavator would otherwise be required.
Keeping bentonite moving in a safe and reliable way: this is one of the advantages of Dragflow pumps. Dragflow bentonite pumps are design to work in the most complex construction sites. Class “H” oversized motors and pressure compensation are two fundamental options that can make pumping bentonite from slurry walls more reliable than ever. Oversized motors give the pumps the ability to move slurries with specific gravity up to 1,6 or to be used well outside the best efficiency point without damaging the electric motor. Pressure compensators permit operating in bentonite applications with working depth of more than 100m. Bentonite pumps can be combined with a Dragflow Advanced Control Panel for remote web-based monitoring of pump parameters and well functioning.
Dragflow has partnered with other manufacturers in the construction of complex machines to be used during civil emergencies and fire-fighting operations. Thanks to specific design capabilities of Dragflow engineering team our dredge systems can be a reliable integration for other OEMs. Dragflow works closely with its customers to ensure that its custom-built equipment meet their individual requirements and expectations.
Advanced Control Panels
- Touch Screen to analyze pump parameters and performance
- USB/SD storage of parameters history
- 3G / Network wireless connection to monitor pump operation and performance from remote locations

Power Packs (DP and EP series)
- Engine: Diesel or Electric
- Variable oil flow oil pumps

Options
- Sound proof canopy
- Remote control
- Container Style
- Operator Cabin
- Winches and Hoists

Dredging Excavators (EXHY Series)
- Power: from 11 to 30 Horse Power
- Speed: from 30 to 50 rpm
- Oil: 35 / 46 / 58 l/min
- Pressure: 250 bar

Electric Pumps (EL Series)
- Power: from 5 to 150 Horse Power
- Capacity: from 30 to 1000 m³/h
- Head: from 5 to 75 m
- Discharge distance: up to 1.200 m

Hydraulic Pumps (HY Series)
- Power: from 24 to 400 Horse Power
- Capacity: from 60 to 1200 m³/h
- Head: from 5 to 65 m
- Discharge distance: up to 1300 m

Dragflow dredges
- Dredges with hoist (DRH Series)
- Dredges with telescopic boom (DRT Series)
- Ladder dredges with submersible pump (DRS Series)
- Remote controlled dredges
- Amphibious dredges
- Booster stations

Off-Shore and High Depth Dredging:
- Dredges with working depth up to 100m
- Hydraulic spoolers
- Oil Hoses umbilicals
- Remote controlled dredges
- Containerized remote controlled power units