

Canadian Construction and Mining News

Spring 2003, Third Edition

Flygt Dewatering



Flygt Dewatering, the first national dewatering company in Canada to offer services coast to coast

Focusing on dewatering solutions for almost 50 years, ITT Flygt Canada has earned an indelible place in the Construction and Mining markets. ITT Flygt is recognised as the market leader in rental pumping, by providing extensive technical sales support and engineered solutions. Always aiming for improvement and innovation, ITT Flygt is moving ahead by introducing a new dewatering division to the Canadian market.

Flygt Dewatering is the name of the new rental division of ITT Flygt Canada. Our mission is to provide solutions and services to meet the needs of dewatering and by-pass projects. Services will include engineering, product selection, installation, and site supervision.

Flygt Dewatering will offer a complete line of pumps and accessories suited to supply a complete solution. Products included are: ITT Flygt submersible pumps, diesel driven suction pumps, gas engine pumps, power generators, control systems, as well as piping, valves and related accessories.

Flygt Dewatering will be the only national dewatering company in Canada. For more information, please contact your local ITT Flygt sales office.

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Louis Dumoulin, Eng.
Market Manager, Construction, Mining and Industry

Flygt



ITT Industries

ITT Flygt helps to keep the dike dry

Diavik diamond mine is located on a small island on the eastern shores of Lac de Gras in the Northwest Territories. The mine lies offshore in the shallow waters of the lake. To get access to the kimberlite pipes, a water-retaining dike was built from the shore and then de-watered. Once de-watered, provision was made to handle any seepage that normally occurs from an earth and rock filled dam.

In 2002, ITT Flygt Canada provided a series of prefabricated fiberglass stations, pumps and associated equipment required to collect seepage water via a system of collection channels. Five pumping stations were strategically installed at the base of the dike to collect and pump water to the North Inlet Water Treatment Plant, before being released back to the lake. The pumping stations can handle a total outflow of 440 litres per second. In addition, ITT Flygt provided a pumping arrangement which is made up of



Photo credit: Diavik Diamond Mines

Aerial view of the Diavik mine, located on a small island on the eastern shores of Lac de Gras, NWT.

pumps and special cabinets that move around inside the dike in order to de-water a specific area.

ITT Flygt Canada is proud of their involvement in the Diavik project, and the opportunities to supply innovative engineered solutions in mine dewatering applications.

ITT Flygt at the Canadian Institute of Mining Annual Conference and Exhibition

The world of mining will meet in Montreal for CIM Montreal 2003 Mining Industry Conference and Exhibition, from May 4 to 7. This year, the conference boasts a double theme: Globalisation and its impact on mine operation, and Globalisation and the search for new ore deposits.

ITT Flygt will participate as exhibitor, at the CIM Tradex 2003 and will feature new products and accessories. The new heavy-duty 5100/5150 slurry pumps line mentioned in this newsletter will be displayed as well as the new 2102 /2125 slim line drainage pumps. As for accessories, the popular PFM-200 pump flotation module will be displayed at the booth. Make sure to visit the us at the **booth number 512**.



**Consult our internet site at
www.ittflygt.ca
for more information on our
products and services.**

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Wall-mounted pumps mean cost saving at Copper Cliff

ITT Flygt developed a wall-mounted pump specifically for mine water sump in INCO LTD's Copper Cliff South mine. By removing the pump from the sump, the life of the pump is greatly extended, resulting in cost saving for INCO. To date, five pumps are in use at Copper Cliff South Mine and three are in operation at Garson mine.

The pumps used, HS 3127/ 5100 (10HP) are heavy-duty pumps designed to handle water containing some amount of solids. The pumps are mounted on a specially designed steel plate, which is attached to the rock several metres outside the sump. Utilizing a suction hose, the pump draws water and slimes from the sump and pumps to the main shaft sumps where it is removed using positive displacement pumps. The pump, suction hose and level sensors are all placed out of the way to permit easy entry by scooptrams when the sump must be mucked out. No equipment must be moved or relocated.

Ideal applications for this innovative set-up are those where sump access is difficult and where suspended solids are frequently encountered.



ITT Flygt wall-mounted pump.

The pumps have proven to be exceptionally durable, and have been operating for months at a time without problems. The wall-mounted pump can be a solution to your existing de-watering problems. Contact your local ITT Flygt sales office or authorized ITT Flygt distributor, for more information.

ITT Flygt slurry pumps – The Next Generation

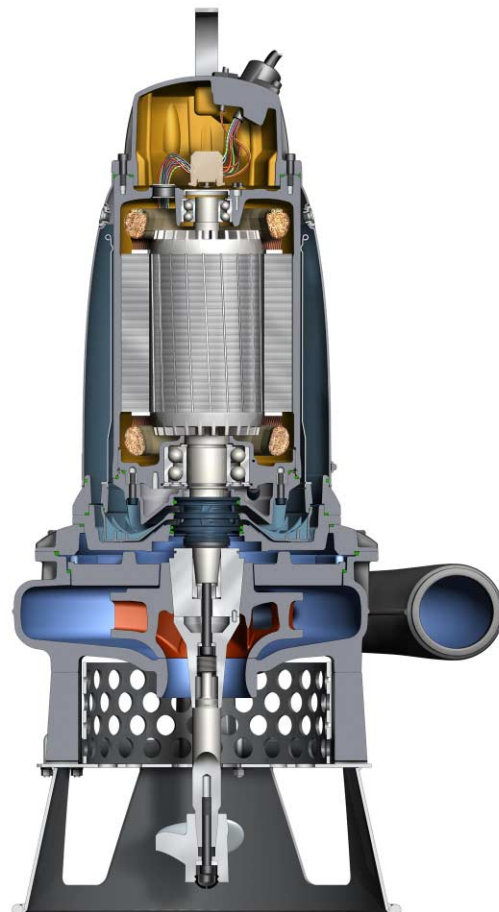
The heavy-duty 5100/5150 slurry pumps are the first in the future range of cost-effective Flygt slurry pumps.

With innovative engineering and a new casting technology, it has been possible to greatly reduce the number of parts and simplify the design of the pump. This creates a new cost-effective slurry pump without sacrificing the performance. A design with fewer parts and a solid high chrome casing keeps down the initial investment and means less maintenance costs as well. In addition, this new line offers a wide motor range that allows flexibility whatever the pumping conditions are.

Some of the many features of the 5100/5150 are:

- 4" or 6" discharge connection adapted to Victaulic® coupling.
- Pump can be fitted with an agitator or a side mounted mixer
- Innovative internal closed cooling system.

Look out for the 5100/5150 as they are the next generation of submersible slurry pumps.



ITT Flygt introduces the mobile dewatering hopper

The Mobile De-watering Hopper from ITT Flygt provides a simple and cost effective method of handling water on a mine or construction site. The compact & space saving, yet high capacity design means the need for digging costly and nuisance sumps is eradicated. In addition, the units are easily manoeuvrable with multiple lifting points including fork access.

They have been designed in consultation with underground operators and include features that make handling site de-watering safe and effective.

Design Features:

- The Flygt Mobile De-watering Hopper is able to be equipped with most Flygt pumps.
- Easy maintenance is one of the key features of the Mobile De-watering Hopper Unit. Heavy solids are separated with a screen from the pump section and each segment is flanged for quick and easy cleaning.
- They have a 10,000-litre capacity.
- The pumps in the Mobile De-watering Hopper are protected from accidental damage and oversized solids in the water with screens that are easily removed for maintenance purposes.

The Flygt Mobile De-watering Hopper is available for sales and also for short or long term rental.



ITT Flygt cares about its customers!

Summer is just ahead and ITT Flygt wants to make sure that our friendly customers are protected adequately from the sun.

Drop us your coordinates at Fcdninfo@fluids.ittind.com and we will make sure to send you, one of our new 2003 caps selection. Please specify baseball or bucket cap. Offer is for one per customer until stock is depleted. Enjoy summer with one of our new caps.

Colors may change without notice



Baseball cap



Bucket cap