

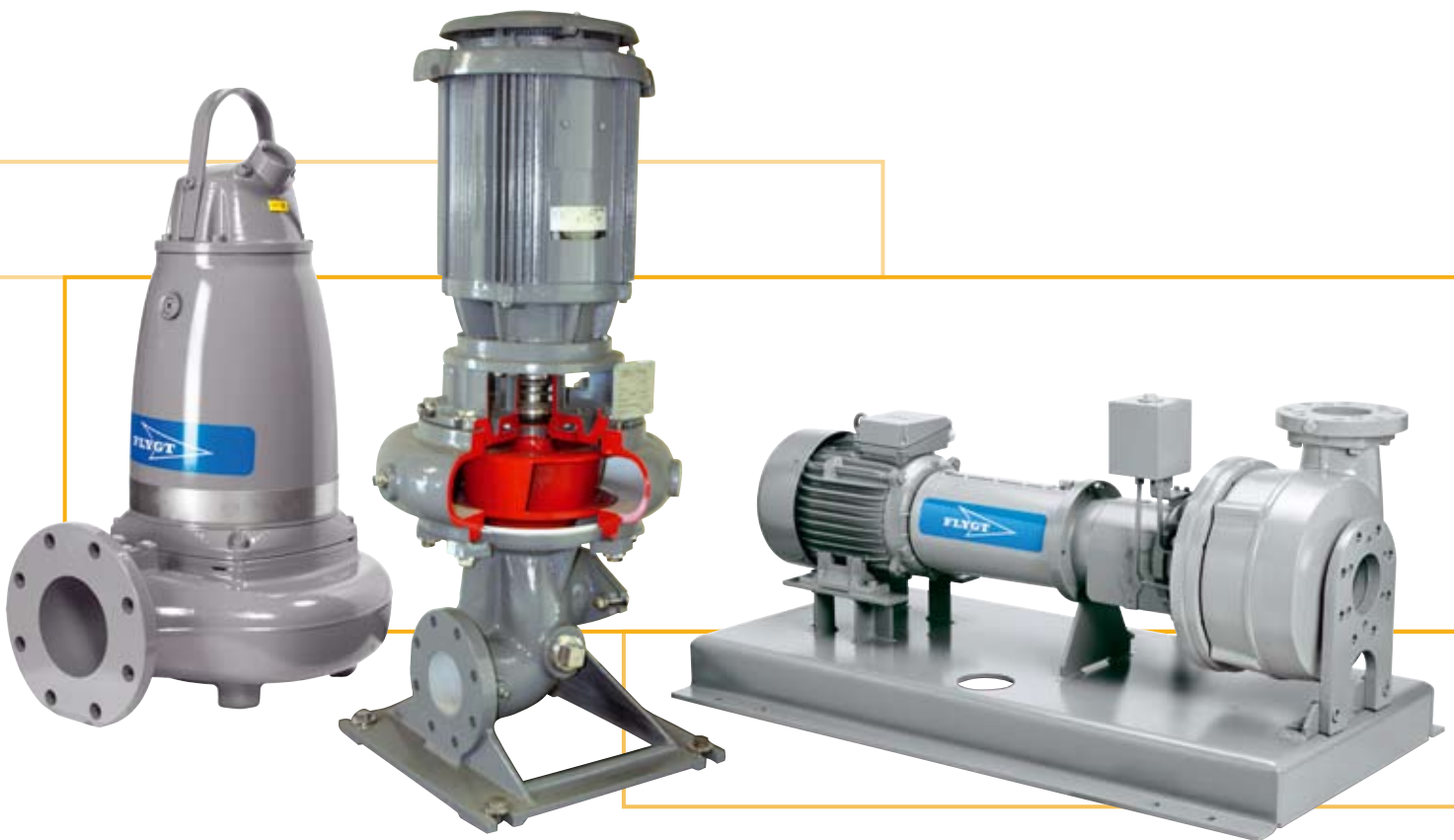


ITT

Water & Wastewater

Pump stations

Solutions designed for traditional dry pit,
flood-proof dry pit and wet pit installation



Engineered for life

What's your view on efficient fluid handling?

Is it a question of being able to turn to a single partner? Regardless of the design of the pump station you want: traditional dry pit, flood-proof dry pit and wet pit pump station.

Is it about being able to obtain all of the necessary auxiliary equipment and systems? With complete compatibility as a result.

Is it gaining access to a worldwide service network?

If so, you should look to ITT Water & Wastewater. We engineer to give you efficient and trouble-free fluid handling over long duty periods.

You can study our pump station solutions up close on the next page.



A closer look at our pump station solutions

We can offer you a complete solution for your pump station. Customized from beginning to end. This means that we will help you with everything from system planning, design and construction to installation, commissioning, operation and maintenance. We provide estimates and cost assessments, taking flow volumes into account. We offer recommendations based on the terrain, type of fluid and other conditions according to local circumstances.

As a result, you get a pump station designed based on your needs: traditional dry

pit, flood-proof dry pit and wet pit installation. And both wear and energy consumption are reduced by pumps that work exactly as much or as little as needed. This has a positive effect on the total life-cycle cost.

Of course, not everyone needs a complete solution. Naturally, we can therefore help you with select parts of your pump station (such as the design of the actual surface). You can also purchase individual products – such as pumps and pump kits – in order to upgrade or retrofit your existing pump station.

The traditional dry pit pump station

A traditional dry pit pump station offers several advantages. The pumps are accessible through a superstructure above ground, which makes them easy to operate and maintain. You receive

a reliable fluid flow and cost-effective solution, particularly in large pump stations where the infrastructure often justifies dry installed pumps.

Can be fitted with the following pumps:

Flygt D 8000 series

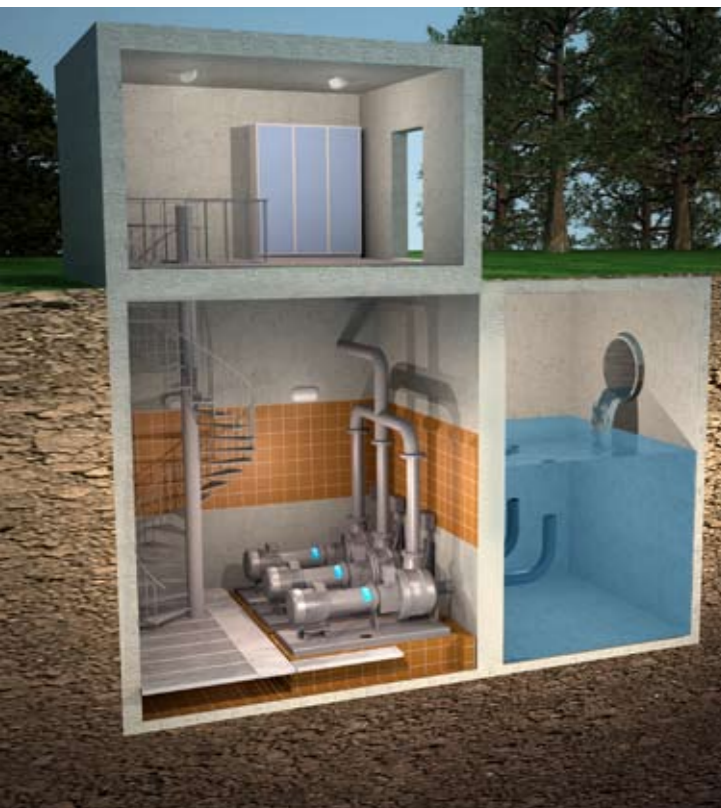
Specialized in solids handling. The benefits are in the design: positioned high on the roof of the volute, the impeller takes up very little space, which leaves a large area through which sizeable solids can freely pass. Clean out ports are standard. For both horizontal and vertical installation.

Flygt NS series

Non-clog pumps designed to handle non-corrosive fluids with soft solids. We offer a number of different models, depending on your needs. Common to all is that both material selection and included components are suited to extremely harsh working environments. Tangential discharge, heavy duty bearings and a wide range of sealing options are some feature examples. For both horizontal and vertical installation.

Flygt large dry pit pumps SSF/SSE/WSY

Flygt's large dry-pit pumps are the most efficient pumps available, backed by more than 125 years of experience as Allis Chalmers. Moreover, the pumps are tailored to the exact duty point, which means even greater energy savings.



The flood-proof dry pit pump station

A reliable and safe solution that combines the best of two worlds: dry-mounted pumps that can work under water. This is an important safety aspect, should the station be flooded. We take careful consideration of all scenarios in dimensioning so that you receive pumps with optimal flood-proof performance. Here as well, the superstructure solution contributes to a better working environment.

Can be fitted with the following pumps:

Flygt N series

The submersible Flygt N series pumps also work excellently in a flood-proof pump station. Self-cleaning flow path enables cost-effective fluid handling in a variety of applications. With the unique N impeller technology, a radically different hydraulic end design and VFD compatibility, all Flygt N pumps have the highest sustained efficiency in the world.

Flygt D 8000 series

Constructed entirely of stainless steel, these pumps are made for the handling of corrosive liquids and sludges.



A non-clog vortex design means that you avoid unnecessary interruptions due to blocking or jamming. At the same time, you keep maintenance requirements to a minimum. For both horizontal and vertical installation.

Flygt H 8000 series

With the vortex design, the Flygt H 8000 pumps are ideal for transportation of highly abrasive solids. Hard, wear-resistant materials increase durability and eliminate the need to run the pumps at low speeds to lengthen service lifetime. For both horizontal and vertical installation.

The wet pit pump station

With our submersible pumps, you receive extremely high operating efficiencies and more lift because the pumps are not reliant on external air pressure. We have also developed a pump sump where the floor has been adjusted to increase turbulence during pumping – this means any settled solids are effectively re-suspended. The pump station is delivered pre-assembled with your configuration of valves, discharge pipe, inlet and outlet connections etc. Everything is ready to start up in minimal time.



Can be fitted with the following pumps:

Flygt N series/Flygt C series

Equipped with ITT Water & Wastewater's patented N-technology: a semi-open impeller that reduces the risk of clogging and maintains pumping efficiency. Separate inspection chamber, leakage sensor and no external locking bolts make these pumps ideal for submersible pump stations.

Flygt D 8000 series

Corrosion resistant vortex pumps that can handle a pH-range of 2-14. This makes even the most acidic and alkaline environments a piece of cake. Extra wide throughlet prevents the risk of blockages and jamming.

Flygt H 8000 series

Vortex pumps for transportation of highly abrasive solids. Have multiple benefits that make them advantageous for the submersible pump station, not least the vortex design, which minimizes wear and tear.

Here's how we complete the picture

Your systems for reduced costs and increased quality

With Flygt Monitoring & Control you can improve the performance of your pump station. For example, unnecessary service checks can be eliminated with the help of automatically generated service alerts. Armed with detailed information, you'll be able to cut the number of emergency call-outs. This will significantly lower both transport and manpower costs. In the long run, the lifetime of the pumping equipment will be extended as there is less stress on pumps and mains, and any maintenance needs can be detected at an early stage.

We supply both the hardware and the software for complete systems: ranging from pump controllers, sensors and start equipment, to the software for running the system.

And Flygt Monitoring & Control is easy to use. Settings can be changed quickly by simply adjusting the values on the display on the controller, on the central system or even on a laptop from wherever a user happens to be.



Your worldwide service network



Because no two pumping stations or systems are alike, ITT Water & Wastewater lets you choose the type of support package that best matches your needs. At one end, we help in selecting the right pump for a new application. At the other end, we can provide full service assistance that includes everything from system planning and design, through construction and commissioning, to operation and maintenance.

Extensive spare parts guarantee

With a worldwide network of authorized service centers, you always get the support you need: whether it's a question of planned maintenance or express part delivery. We also guarantee the availability of spare parts 20 years after we stop production of a pump model. This is just one of the ways we demonstrate our long-term commitment to our customers.



What can ITT Water & Wastewater do for you?

Integrated solutions for fluid handling are offered by ITT Water & Wastewater as a world leader in transport and treatment of wastewater. We provide a complete range of water, wastewater and drainage pumps, equipment for monitoring and control, units for primary and secondary biological treatment, products for filtration and disinfection, and related services. ITT Water & Wastewater, headquartered in Sweden, operates in some 140 countries across the world, with own plants in Europe, China and North and South America. The company is wholly owned by the ITT Corporation of White Plains, New York, supplier of advanced technology products and services.

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