



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

What Romtec Utilities Can Do For You

Turnkey Pumping Systems – Design, Manufacturing, Supply, Installation, Start-up, Training, Warranty

Romtec Utilities designs, manufactures, supplies and installs complete pumping systems for wastewater and stormwater, raw and clean water, industrial waste and process water, recycled water and water/wastewater treatment. Each Romtec Utilities package pump station is designed, manufactured and installed for the specific site and performance demands and includes all structural, mechanical, electrical and communication systems.

We offer many types of pumping stations, including: submersible wastewater pumps and submersible turbine pumps, non-clog centrifugal sewage pumping systems, wet well-dry pit wastewater pump stations, macerator/grinder pump lift stations, vertical turbine water and effluent pumping systems, raw water intake/distribution pump packages and others.

Romtec Utilities complete pumping systems are designed for a wide variety of pumping applications, both common and specialized, including:

1. **Package Wastewater Lift Stations** – Complete sewage pumping systems, triplex and duplex lift stations
2. **Stormwater Pump Stations** – Surface & subsurface water pumping systems, stormwater lift stations
3. **Industrial Pumping Systems** – Industrial wastewater/process water pumping, agricultural wastewater pumping
4. **Clean Water Intake & Pumping Systems** – Raw water collection/pump stations, package booster pump stations
5. **Water Reuse Pump & Distribution Systems** – Recycling water pump stations for treated water/industrial water
6. **Water & Wastewater Treatment Pump Stations** – Headworks, discharge and distribution pumping systems

Design Services

Romtec Utilities designs each pumping system for the unique requirements of the individual project. This means you don't get just an off-the-shelf design that will perform OK. Romtec Utilities develops detailed 3D CAD drawings and pump station site layouts, structural calculations and comprehensive specifications for your complete package pumping system. **We think you'll agree...there is no better way to get the best value in complete pumping systems.**

1. **Free System Design & Quotation** – Romtec Utilities produces a complete pumping system design, and we quote the cost of the package pump station delivered to your site ready for installation. We can get started today with some basic information about your pump station site and performance requirements. We encourage you to [call or email us](#) with your questions and requirements, or use our [Pump Station Design Criteria Form](#) to help us get the necessary information: peak design flow to wet well; influent depth; force main length, diameter, material and change in elevation and other lift station design parameters.



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

2. **Scope of Supply & Design Submittal** – You can think of Romtec Utilities as your pump station design partner. We define and publish all aspects of the pumping system design – structural, mechanical, electrical and communication – in the Scope of Supply and Design Submittal for your project. Our complete pump system design documents include all drawings, specifications, data sheets and a comprehensive review of the scope of work unique to your project, whether for wastewater, stormwater, clean water, water reuse or industrial process water pumping.

Design Parameters

The technical requirements of your pumping system and pump station site are unique. Romtec Utilities gathers all pertinent data for use in the design process.

1. **Site Data** – Our designs are created for conditions at your site: peak design flow; force main material, diameter, length and discharge elevation; total dynamic head (TDH); station site plan and profile; existing infrastructure and geotechnical reports; available electrical power; traffic rating and other criteria.
2. **Regulatory Agencies** – State DEQ, local water and sewer agencies require pumping systems to meet design and performance standards. We research these regulations and apply them to your design. We ensure that the pumping systems supplied by Romtec Utilities meet the applicable municipal standards. You are assured the Romtec Utilities package pump station will meet all governmental requirements.
3. **Your Requirements** – While we are confident that our own designs excel in performance and reliability, we also encourage you and consulting engineers to select many aspects of the pumping system: precast concrete or fiberglass underground wet well and vaults; pumps, valves, piping, odor control and other mechanical equipment; electrical controls, telemetry and SCADA; standby power generator; even the shade and shelter for the control panel or a secure pump station building.
4. **Energy Efficiency** – Electrical power is a pump lift station's single largest cost. We use advanced modeling software and decades of experience to specify integral pumps and electrical controls that meet and exceed performance demands, with the greatest possible electrical efficiency. Choose variable frequency drives (VFD's), soft starters,
5. **System Reliability** – Maintenance costs money, but a well designed Romtec Utilities pump station, with all components – structural, mechanical, electrical and communication – working together in a complete system, is more dependable under even the harshest conditions.
6. **Ease of Installation** – Romtec Utilities pumping systems are designed to save time and money at the job site. There are so many advantages: prefabrication and factory assembly and testing of structural and mechanical components; plug-in pumps and electrical controls; coordinated delivery, installation advisor, start-up technician and O&M training.



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

Design Review & Approval

Each Romtec Utilities pumping system project has its own unique process for approval of the design. If the pumping equipment is to be owned and operated by a private business, the design review and approval is usually done by the engineer working for the company or its design-build contractor. If the pump station will ultimately be owned and operated by a municipal, state or federal agency, then the design is submitted for review and approval by that agency or its consulting engineer. Romtec Utilities provides a variety of services to assist in the design review and approval process:

1. **Private Projects** – Civil engineers rely on Romtec Utilities to provide complete and accurate pump station documentation for the developers, utilities and industrial clients they serve. Frequently, pumping systems must be in place before site development or plant operation can proceed. Our expedited process puts the complete pumping station in place in the shortest possible time. [Click here](#) for an example of a private utility project.
2. **Municipal Projects** – If a municipal agency will own and operate the system, the pump station design review and approval process is done by the agency's procedures. Romtec Utilities solicits input from the agency throughout the design process, so the design review and approval will go smoothly. In many instances, municipalities adopt Romtec Utilities systems as their standard, so projects can be expedited by utilizing our designs. [Click here](#) for an example of an agency that uses Romtec Utilities' submersible sewage pump stations as their standard.
3. **Federal Projects** – Romtec Utilities designs and supplies complete, package pumping systems for projects of the US Army Corp of Engineers (USACE), Naval Facilities Engineering Command (NAVFAC), and other federal agencies. Generally the process for review and approval of the pump station design is directed by the civil engineer or design-build contractor working for the government. Our experienced staff and our hands-on pump lift station design process are valuable to engineering and construction companies in meeting federal requirements and getting pumping system projects completed right and on time.

Design-Build

Many pump station projects need a single company to design, supply, deliver, install, start up and provide operation and maintenance training for the complete pumping equipment package. Romtec Utilities is that company. We offer our own pump station design-build services, and we are a superb subcontractor to design-build firms that need the services of a pumping systems expert.

1. **Complete Pumping System Design** – A pump station designed by Romtec Utilities is a complete system, with all structural, mechanical, electrical and communication equipment in an integral pumping package capable of meeting all performance requirements with the greatest efficiency and reliability. Romtec Utilities delivers the best designed pump systems, no matter how sophisticated or how basic are the pumps and lift station controls.
2. **Complete Pumping System Supply** – A Romtec Utilities package pump station includes everything needed to get the job done right: the underground wet well and vaults; the pumps, valves, piping and all mechanical assemblies; the UL listed pump station controller, liquid level sensing and flow metering equipment; the electrical power and standby generator and all other equipment for wastewater, stormwater, clean water, water reuse and industrial pumping.



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

3. **Complete Pumping System Delivery & Installation** – How Romtec Utilities delivers and installs our complete pump stations is an added value that makes a big difference. We schedule it like clockwork and take care of every detail. The big underground precast concrete or fiberglass wet wells and preassembled valve vaults and dry pits are lifted right off the truck for direct placement in the excavation. Installation of pumps, hardware, electrical controls and all other pump station components is carefully staged to maximize installation efficiency and quality.
4. **Complete Pumping System Start-up and O&M Training** – Romtec Utilities systems for water, wastewater, stormwater and industrial pumping are turned over to their owner only after we conduct the most thorough system start-up and testing, and provide formal training to operation and maintenance personnel. Our expert technicians conduct the pump station start-up, testing and training so the pumping system project is completed and commissioned with the greatest attention to detail.

Manufacturing

Romtec Utilities uses our own best manufacturing practices as well as the resources of our manufacturing partners to produce complete pumping systems. Rather than offering just standard models, we produce individually designed package pump stations that include the very best components from some of the top companies in the business. All parts of our lift stations utilize leading edge manufacturing technologies to produce integral systems designed for energy efficiency, reliability, ease of maintenance, operator safety and long life.

Installation

Romtec Utilities works closely with installation contractors to ensure our pumping systems are installed correctly. In many instances, we also provide turnkey pump station installation. [Click here](#) for the Construction Services page.

1. **Coordinated Delivery** – The complete packaged pump station arrives at the project site ready for immediate installation by the contractor.
2. **Installation Advisor** – A Romtec Utilities advisor is present at the lift station site for installation of the wet well and all other underground structures by a third-party underground contractor.
3. **Turnkey Installation by Romtec Utilities** – In many instances, Romtec Utilities can perform the complete pump station installation. Our turnkey pumping system construction services include: site traffic control and safety (as required); pump station site excavation, shoring and dewatering; horizontal boring (if necessary); placement of wet well, underground vaults, buried piping and conduit; concrete forming and pouring (as needed), backfilling and compaction, concrete piping, valves, pressure sensors, sewage grinders and all mechanical assemblies; conduit, wiring, electrical meter base, control panel and standby generator; flow meter, odor control and other optional pump station equipment; concrete flatwork, asphalt and site finish (as specified); control panel shelter or building.



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

Start-up

To ensure our pumping systems operate as specified, Romtec Utilities performs the complete pumping equipment start-up and testing before training the pump station owner's staff in its operation. The start-up and testing procedures are unique for each pump station. Generally, Romtec Utilities supplies:

1. **Start-up Technician** – Romtec Utilities provides the primary pump system technician to direct all start-up activities at the pump station site on the designated start-up day: install and test the pumps, program and test the electrical controls, perform other tests within the operational parameters specified for the pumping system and coordinate the activities of other technical specialists working on various equipment such as: odor control system, standby electrical generator, telemetry/SCADA and other parts of the pump station.
2. **Installation of Pumps** – Romtec Utilities installs the pumps to ensure they are correctly handled and properly wired to the lift station control panel. Submersible pumps are lowered into the wet well; vertical turbine pumps are mounted on top the wet well or sump; the pumps in a wet well-dry pit pump station can be installed at the factory or in the field.
3. **Contractor/Subcontractor Coordination** – To ensure the pumping system start-up goes smoothly, Romtec Utilities coordinates the activities of the general contractor and various subcontractors on that day.

Training

Training the pump station owner's designated personnel on the operation and maintenance of the complete Romtec Utilities pumping system is included. Training generally occurs on the day after pump station start-up and testing. The training course, which is unique for each pump station, generally includes:

1. Operation and maintenance manuals
2. Understanding the complete pumping system
3. Wet well, hatches, deflector panel/drop bowl
4. Pumps, pump guide rails, pump lifting procedures, pump accessories, liquid level devices
5. Valve vault, plug valves, check valves, pressure sensor, pigging/emergency bypass pumping port, flow meter
6. Pump disconnect panel or junction box
7. Control panel, power, controller, power-up and operating procedures, primary and back-up systems operation
8. System protection devices and methods
9. Alarms: critical and non-critical
10. Telemetry
11. Troubleshooting



Romtec Utilities encourages you to use our [Pump Station Design Services](#). Please [contact us](#) to discuss your projects.

Warranty Summary

The Romtec Utilities Limited Warranty covers the equipment supplied by Romtec Utilities, stating that it will be free from defects in material and workmanship under normal use and service for a period of one year from the date that the pump station is started and the Start-Up Report is completed. The obligation of Romtec under this warranty is limited to replacing or repairing any defective part. This warranty extends only to Romtec's direct customer, the party named in the Romtec Purchase Order. Other limitations apply. direct customer, the party named in the Romtec Purchase Order. Other limitations apply.