

IGP SERIES GRINDER PUMPS

CASE STUDY

OUR PARTNER

Working alongside our distributor Reiner Pump Systems located in Stanhope, New Jersey, we provided the equipment needed for a cost-effective and reliable upgrade to an outdated and underperforming sewer pump station system.

THE PROBLEM: An undersized pump sewer station wasn't getting the job done.

At least once a month, residents of a townhome complex in the state of New Jersey saw a familiar site near their property: a septic truck unclogging their sewer pump system and cleaning out the well. The system, installed around 2012, used pumps originally engineered for single family homes was seriously underperforming for the 48-unit complex. The low pumping rate caused rags and solids to accumulate in the basin, requiring frequent vacuum truck pumping to keep the system operational. Downtime wasn't the only issue; since the system was difficult to access without going into the well, the cost of emergency repairs and quarterly maintenance were adding up.

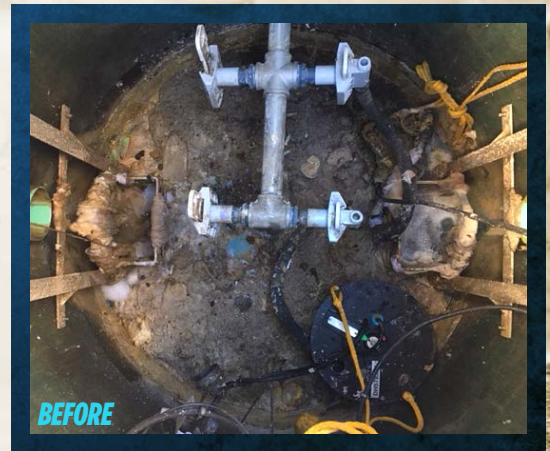
OUR SOLUTION

The current system utilized four pumps – yet the number of pumps wasn't the problem: power and flow capacity were. With a limited pumping capacity of 11 gallons per minute (GPM) of the pumps installed, Reiner knew the townhome complex needed something more robust; they needed pumps that could run 30 times a day, if necessary, and keep running. However, they also needed equipment that would be easier to service.

Reiner worked with a local contractor to devise a solution using Franklin Electric's FPS IGP Series Grinder Pumps. Designed as a direct replacement for small horsepower progressive cavity and other centrifugal grinder systems, the 2 HP pumps could easily tackle larger jobs. With a max flow rate of up to 33 gallons per minute (GPM), the quadplex system was simplified to a triplex. These pumps were also designed for retrofit applications, allowing the owner to keep the existing basin and modify the controls. In addition, the pumps were installed on a guiderail. When routine maintenance is required, service techs can easily slide the pumps out of the well – saving time, money and streamlining the thankless job of pump cleaning. The highly efficient pumps also draw only 14 amps each at maximum power, delivering energy savings that far exceeded expectations.

THE OUTCOME

Installed in 2018, the system, to-date, has never clogged. Monthly septic truck visits are now a thing of the past. Maintenance and emergency repair costs due to pump failure have been eliminated. Best of all, residents benefit from a reliable system that works day in and day out.



PERFORMANCE BEYOND THE PUMP: IGP SERIES GRINDER PUMPS

PUMP FEATURES

- ✓ Ideal for residential and light commercial sewage waste transfer where high head conditions exist
- ✓ Available in standard and high head versions

PERFORMANCE DETAILS

- ✓ Standard Max Flow: 33 GPM (7.5 m³/hr)
- ✓ Standard Shut-Off: 130 feet (39.62 meters)
- ✓ High Head Max Flow: 40 GPM (9.08 m³/h)
- ✓ High Head Shut-Off: 200 feet (60.96 meters)

RESULTS

- ✓ Decreased downtime
- ✓ Increased efficiency
- ✓ Decreased costs due to pump failure