



S-Disc Thickener Replaces Centrifuge at Waging WWTP

HUBER Sludge Thickener is selected for its operating reliability and energy efficiency for thickening primary and surplus sludge.

In summer 2015, Gemeindewerke Waging (municipal utilities) in the Bavarian Chiemgau district were desperately looking for an energy-efficient, high-performance sludge thickening plant.

They wanted a new energy-efficient and well-proven technical solution to replace their old centrifuge which consumed too much energy.

Before they decided to buy a new system they tested the HUBER S-Disc Thickener at their sewage treatment plant in Waging. Both surplus sludge and primary sludge were thickened in the trials. Waging's thickening goal was to optimize digester capacity, gas yield, and sludge handling in the overall process on site.

Evaluation of test results showed that the excess sludge with 0.6% DS feed was thickened to > 6% and the primary sludge with 1.8% DS feed was thickened to > 8% by automatic time-lagged operation. Because the S-Disc can be set up for automated operation; the initial DS contents of the different sludges can be programmed in so the S-Disc can adjust to varying sludge qualities.



Waring was impressed by the robust, reliable, and flexible operation of the technology. The testing provided convincing proof of the radi-

cal improvement of efficiency as compared to their old centrifuge thickener. The major advantage observed of the S-Disc over the old system showed a high efficiency of sludge thickening with low investment and operating costs.

The HUBER S-Disc Thickener is a slowly rotating disk configuration that is installed at an angle inside a closed stainless steel tank. The filter disk is divided into three areas: solids feeding area, thickening area (supported by chicanes), and sludge discharge area. The pre-flocculated sludge flows from the flocculation reactor onto the filter disk surface. The filtrate is separated out and flows through the disk mesh and returned to process. The remaining sludge is thickened to the required solids concentration in the upper section of the disc thickener and is directed to discharge by a scraper system.

Currently the HUBER S-Disc Thickener at Waging WWTP is installed in the basement of the operational building. This location allows for both the primary sludge and surplus sludge to be centrally received and the thickened sludge is then directly fed to the digester.



Huber serves the municipal and industrial wastewater treatment market with high quality liquid-solid separation technology. Huber Technology offers the complete chain of screening, grit and sludge handling processes. The company is an original source manufacturer specializing in stainless steel fabrication of technologies for water and wastewater. Headquartered in 35,640 sq. ft. of office and manufacturing space in Huntersville, N.C., Huber Technology, Inc. Huber proven experience and expertise with over 25,000 installations worldwide.