



WOERNER
Lubrication Experts since 1922

WASTEWATER TREATMENT PLANTS

Applications and solutions



RELIABLE LUBRICATION SOLUTIONS FOR WASTEWATER TREATMENT PLANTS

Wastewater treatment takes place in several coordinated steps. Machines, some of which are located in potentially explosive areas, are exposed to heavy loads of water, dirt, and phosphates. Regular relubrication ensures safe operation and a longer service life for bearings and chains.



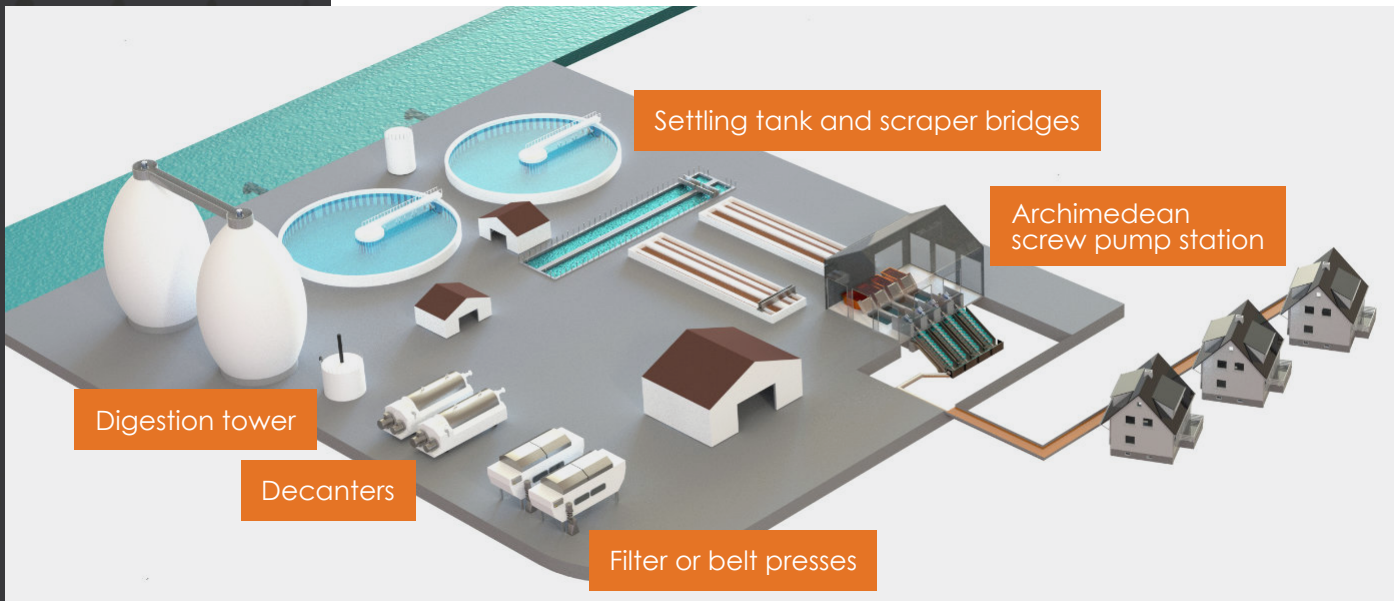
CHALLENGES

In wastewater treatment plants, many lubrication points are difficult to access and constantly exposed to moisture and aggressive substances. Manual lubrication is therefore time-consuming and often risky.

Typical challenges:

- Continuous operation in 24/7 mode – downtime costs time and money
- Moisture, splashing water, and harsh environmental conditions
- Corrosion due to chemical influences (e.g., foul gases)
- Hard-to-reach lubrication points, e.g., under grids or in shafts
- Strict requirements for occupational safety and maintenance efficiency

LUBRICATION POINTS



APPLICATION EXAMPLES AND REFERENCES

ARCHIMEDEAN SCREW PUMP STATION

Bearings and seals are exposed to moisture and wear. Centralized lubrication systems from WOERNER ensure reliable lubrication and smooth operation.

Advantages:

- Robust and reliable
- Pressure up to 350 bar
- Ideal for outdoor use



GMA Piston pump



GMF Piston pump



Lubrication solution for bearings exposed to water



In the pump house: GMA for bearing lubrication on the screw drive



Under weather protection hood: GMA for bearing lubrication on the screw drive

SETTLING TANK AND SCRAPER BRIDGES

For the bearings, drives, and guides of the scrapers, our lubrication systems provide reliable, demand-based lubrication – even during slow continuous operation.

Advantages:

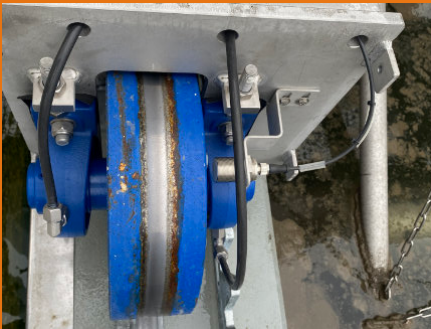
- Various configuration options
- With integrated control and monitoring functions possible



GMO Piston pump



GMF Piston pump



Lubrication of the scraper support roller



GMF pump in operation on the circular scraper

DIGESTION TOWER

For reliable lubrication in the ATEX area of the digester tower, our product solutions provide a safe and efficient solution specifically designed for explosion-hazardous zones.

Advantages:

- Maximum operational safety
- Robust and compact design
- Various ATEX classifications



GMF Piston pump



GMF on various digestion towers



CARTRIDGE SYSTEM Kx

The reusable cartridge system Kx ensures environmentally friendly and resource-saving lubricant handling.

Advantages:

- Kx cartridges available in different sizes
- Compatible with numerous WOERNER pumps
- Customized filling of any lubricant possible



Cartridge Kx for industrial applications



Cartridge Kx for ATEX applications



ATEX Kx cartridge on the digestion tower



Cartridge system Kx on water screw



Central lubrication pump with Kx for bearing lubrication

FILLING PUMP POWER FILL PRO

Powered by a cordless screwdriver, the eccentric screw pump fills centralized lubrication systems quickly and on the go – completely without electricity or compressed air.

Advantages:

- Flexible drive: Works with any standard cordless screwdriver
- High performance: Delivery volume up to 2 kg per minute
- Maximum mobility: Flexible and usable anywhere



Filling pump Power Fill Pro



WOERNER Power Fill Pro in industrial use



Fast and clean filling of central lubrication systems



Mobile solution for fast lubrication on the construction site

DECANTERS

Reliable lubrication of bearings, gears, and seals – even under continuous load and in harsh environments.

Advantages:

- Robust, reliable grease pumps
- High-precision oil-air units
- Customer-specific units tailored to your requirements
- Reliable sealing pressure units



GOK
Oil-air unit



GFZ
Gear pumps



Oil unit for offshore applications



Sealing pressure units



Unit with emergency running properties

FILTER PRESSES OR BELT PRESSES

Reliable cloth washing and post-press stations – perfectly tailored to your machine and technical requirements.

Advantages of filter presses:

- A wide variety of materials
- Customized surface protection
- Diverse manufacturing processes

Advantages of GMK on belt presses:

- Lubrication according to requirements
- Can be retrofitted as a plug & play version
- Compatible with all standard cartridge systems



GMK Piston pump



Lubricant applicators



Cloth washing and post-press stations



Lubrication system on belt press



WOERNER

Lubrication Experts since 1922

Together, we develop the right solution for your requirements –
innovative, efficient, and sustainable.

- Call us: **+49 9342 803-0**
- Visit us online: **www.woerner.de**
- Or write to us directly: **info@woerner.de**

EUGEN WOERNER GmbH & Co. KG

Hafenstraße 2
97877 Wertheim
Germany

Phone: +49 9342 803-0
E-mail: info@woerner.de
www.woerner.de



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