

Atotonilco clarification plant in Mexico: 98 WANGEN pumps are operating at one of the world's largest clarification plants

The major waste water treatment project was completed in Mexico City, one of the world's largest cities. It includes a total of 98 WANGEN pumps, which have been running reliably since 2015. Its size and output are definitively two of the challenges facing this clarification plant. The Atotonilco clarification plant is responsible for the country's capital Mexico City and parts of the federal states of México and Hidalgo. This region has a population of around 21 million people and, as a result, the plant needs to have a very high output. Atotonilco is one of the ten largest clarification plants worldwide. WANGEN Pumpenfabrik progressing cavity pumps pump a massive volume of 50 m³/sec every day.

By comparison, Germany's largest clarification plant has four digestion towers, while Atotonilco boasts a total of 30 digestion towers.



Five different WANGEN pump models are used in the Mexican clarification plant. Their hard-wearing design and reliable construction for a long service life perfectly meet the above exacting requirements.

The self-priming pumps below are used at the Atotonilco clarification plant in Mexico:

- 24 x KL30S 68.0 for the metering of additives, for instance flocculants
- 4 x KL50S 92.0 for the metering of additives, for instance for lime and calcium
- 34 x KL65S 114.2 transfer pumps for transferring sludge into the fermenters
- 24 x KL80S 140.2 to pump sludge into the dewatering plant
- 12 x KL100S 140.3 to pump sludge into the dewatering plant

Self-priming pumps are an integral part of the WANGEN product range for waste water treatment and clarification technology.

In addition to these models, WANGEN Pumpenfabrik also supplies a comprehensive range of robustly constructed and extremely reliable progressing cavity pumps. The product range is rounded off by special developments for pumping highly dewatered sewage sludge.

Waste water treatment pump solutions: first-class quality for low-maintenance and fault-free continuous operation

Waste water is purified in multiple stages, and clarification sludge and purified water is produced at each stage. The clarification sludge is very abrasive and fibrous, with up to 45% dry matter content. Pumping this sludge places extremely high demands on the quality of the pumps used. WANGEN Pumpenfabrik offers extremely durable and reliable solutions for this to guarantee low-maintenance and fault-free continuous operation of the clarification plants. Key features to meet these requirements include the sleeve-protected cardan joint, which protects the pump from blockages and abrasion. The pump housings are also optimised in terms of flow, further preventing blockages, and the large inspection openings enable the interior of the pump to be easily cleaned.

Customers worldwide appreciate and have confidence in the above features and other benefits of WANGEN pumps.



Pumpenfabrik Wangen GmbH designs, develops, produces and markets pumps for the most diverse sectors and media at the company's headquarters in Wangen in the Allgäu region of Germany. The company's broad-based product range includes progressing cavity pumps, twin screw pumps, and modules that meet the quality standards demanded by customers and markets. WANGEN pumps perfectly meet customers' requirements worldwide. Since it was set up in 1969, the company has grown from being a small trade operation to become a mid-sized company that currently employs over 250 people.

www.wangen.com