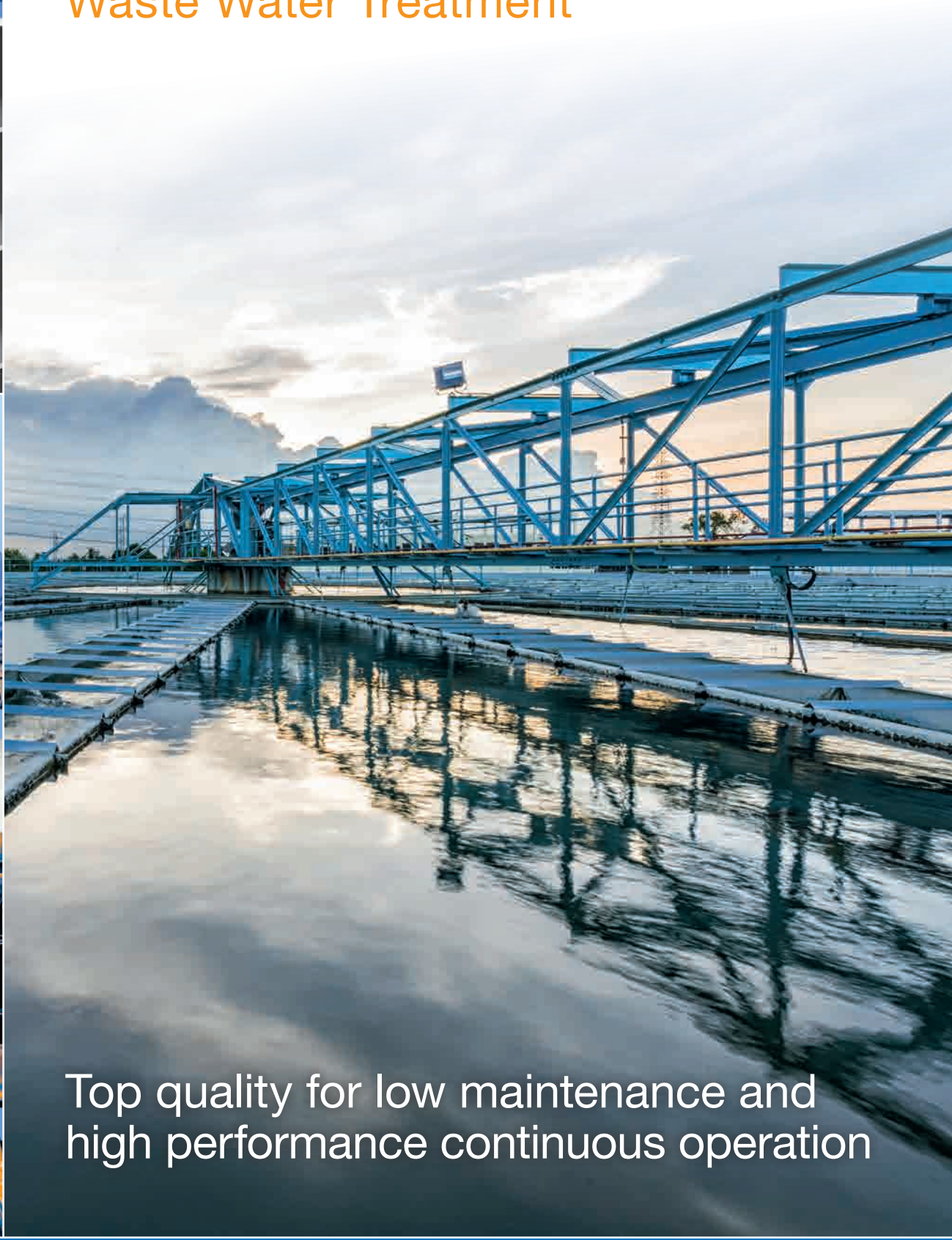
WANGEN PUMPEN

Conveyance Solutions for

Waste Water Treatment



Top quality for low maintenance and high performance continuous operation

Why choose pumps from WANGEN?

Headquarter building in Wangen

The name WANGEN PUMPEN originates from Wangen in the Allgäu region of Germany, which is the location of the company's head office and main production site. This is our home, in the most southerly part of Germany, where the three countries of Austria, Switzerland and Germany come together at Lake Constance.

Made in Germany – used worldwide. Customers trust and rely on pumps made by WANGEN PUMPEN - clear confirmation of our commitment to quality as the basis for the long-term creation of value.

Since it was founded in 1969, WANGEN PUMPEN has continued to grow, expanding from its beginnings as a small family business into a medium-size company with a workforce of over 250 staff.

Thanks to our consistent focus on the requirements of the market and our customers, our pumps are highly regarded at regional, national and international level.

Our customers hold us in high esteem, motivating us to retain and improve on our company values every single day.

" My treatment plants use pumps from WANGEN because I value robust and reliable technology. "

Applications

The typical applications include the conveyance of:

- Raw water
- Thin slurry, surplus sludge and digested sludge
- Mechanically thickened sludge from the decanter, rotary screen or belt press
- Dewatered sewage sludge with a dry substance content of up to 45% from the chamber filter press, centrifuge, decanter or belt filter press
- Sludge from industrial waste water treatment processes, e.g. metal hydroxide sludge
- Aluminium and ferrous sulfate solutions
- Polymer solutions
- Lubricant, lime milk, liquid lime

Depending on the country and the applicable legislation, municipal and industrial waste water is cleaned in a number of different steps and stages. Each purification step generates sewage sludge in addition to purified water. This sludge is first thickened, dehydrated and finally, recovered. The slurry to be pumped is extremely abrasive and fibrous with a dry substance content of as much as 45%.

This places huge demands on the pumps in use. We offer a comprehensive program of robust and highly reliable pumps which satisfy this requirement. Special developments for the conveyance of highly dewatered sludge complement our range. In this way, we help you to keep your sewage treatment plant operating smoothly and maximize plant availability.

Conveyance of thin slurry: KL50S progressing cavity pump

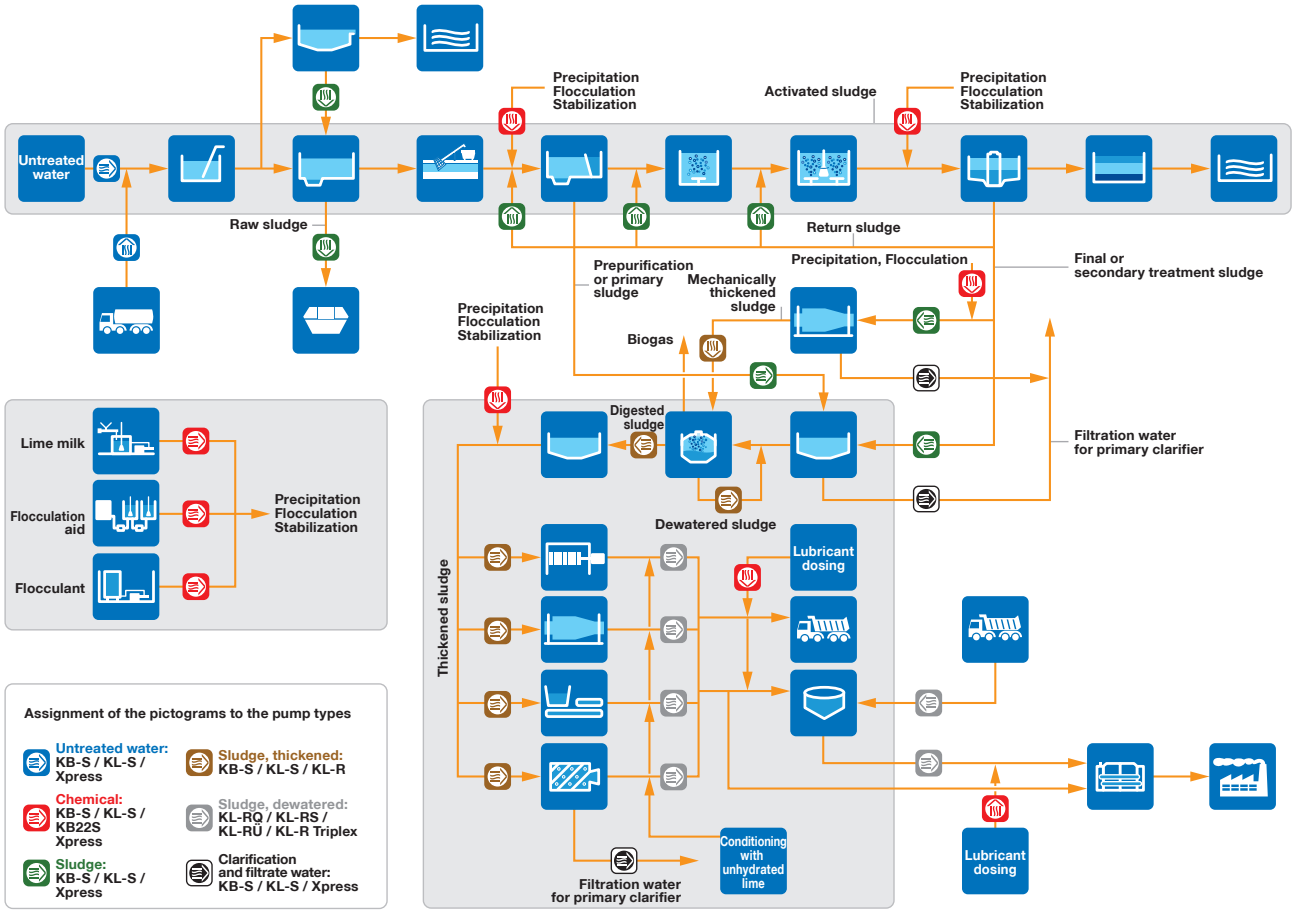
Conveyance of sludge from decanter to silo: KL65RÜ80.4 ESP with fill level monitoring

Conveyance of dewatered sewage sludge from decanter for drying: KL65R80.2 Triplex progressing cavity pump

Conveyance of dewatered sewage sludge: KL80RQ110.4+110.4 Progressing cavity pump

Sewage Treatment Plant with Processes and Pumps

WANGEN pumps in your Sewage Treatment Plant



Service and Spare Parts

All original WANGEN spare parts satisfy stringent requirements in terms of functionality and durability and are manufactured in strict compliance with the WANGEN quality standard. Spare parts such as rotor and stators are manufactured directly at our company. This guarantees first-class quality from the manufacturer and ensures the long service life of your pump.

We maintain a large warehouse of original WANGEN spare parts at our production facility, allowing us to supply spare parts which we have in stock all over the world within a few working days. This means we can help you to reduce system downtime and maximize the availability of your plant. Our Service team will be happy to help you.

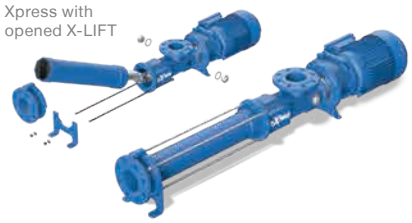
WANGEN PUMPEN

Our Solutions

Our pump series for waste water treatment are fitted with cardan joints with sleeve protection, making the pumps resistant to clogging and abrasion. The pump housing is flow-optimized, preventing the accumulation of deposited solids and keeping the pumps blockage-free. Large inspection ports.

Xpress self-priming pumps with X-Lift quick change system

For the conveyance of i.a. raw water, sludge, polymer solutions and lime milk. Substance content of up to 8%, flowrate up to 102 m^3/h, differential pressure up to 6 bar / 87.02 lbs.


Xpress with opened X-LIFT

KB22S

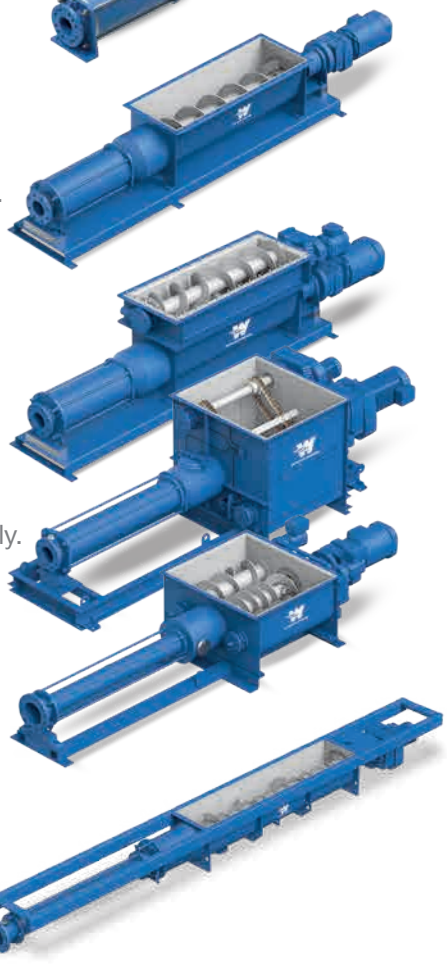
especially designed for dosing. Long-lasting, wear- and maintenance-free flexible joint, housing in cast iron. Dosing accuracy ± 1%.
Flow rate up to 4.000 l/h, differential pressure up to 16 bar / 232 psi.

KL-S Self-priming Pumps

For the conveyance of free-flowing liquid slurry, surplus sludge and mechanically thickened sludge with a dry substance content of up to 10%.
Flowrate up to 560 m^3/h, differential pressure up to 48 bar / 696.18 lbs

KL-R Hopper Feed Pumps

For conveyance of dewatered sewage sludge with max. 45% dry substance.
Flowrate up to 50 m^3/h, differential pressure up to 48 bar/ 696.18 lbs.



KL-RÜ, KL-RQ, KL-R Triplex, KL-RS
High-Capacity Hopper Feed Pumps

For the conveyance of dewatered sewage sludge with a high dry substance content up to 45%. Flowrate up to 50 m^3/h, differential pressure up to 48 bar / 696.18 lbs.

- KL-RÜ – the economical conveyance solution for a continuous sludge supply.
- KL-RQ and KL-R Triplex – with a large integrated buffer volume to pump a discontinuous sludge supply.
- KL-RS – for silo emptying.

Lubricant dosing device (not shown)

To reduce pipe pressure during conveyance of dewatered sewage sludge with a high dry substance content.

Extract of our

List of References

Chile

Thin slurry, 1.2% dry substance content

Plant	Municipal sewage treatment plant
Process	Conveyance of sludge to centrifuge
Product	Self-priming pump
Pump type	6 x KL65S125.0.
Flowrate	6 x 95 m^3/h
Differential pressure	3 bar / 43.51 lbs

Mexico

Raw sludge, 1-3% dry substance content

Plant	Municipal sewage treatment plant
Process	Conveyance of sludge to the thickener
Product	Progressing cavity pump
Pump type	8 x KL100S140.3
Flowrate	up to 8 x 110 m^3/h
Differential pressure	up to 11 bar / 159.54 lbs

USA

Dewatered sludge, 20% dry substance content

Plant	Municipal sewage treatment plant
Process	Conveyance from the sludge reception silo to the stack silo
Product	KLS eccentric pump with feed screw
Pump type	2 x KL80S101.3
Flowrate	up to 2 x 20 m^3/h
Differential pressure	up to 9 bar / 130.53 lbs

Extract of our

List of References

China

Dewatered sewage sludge, 20% dry substance content

Plant	Municipal sewage treatment plant
Process	Sewage sludge drying
Product	Hopper silo pump
Pump type	8 x KL80RS80.6
Flowrate	up to 8 x 5 m^3/h
Differential pressure	up to 24 bar / 348.09 lbs

Germany

Dewatered sewage sludge, 25% dry substance content

Plant	Municipal sewage treatment plant
Process	Sewage sludge drying
Product	Standard hopper feed pump
Pump type	2 x KL65R60.4 V4A
Flowrate	up to 2 x 1 m^3/h
Differential pressure	up to 24 bar / 348.09 lbs

Ireland

Dewatered sewage sludge, 20% dry substance content

Plant	Municipal sewage treatment plant
Process	Sludge drying
Product	Hopper feed pump with transverse feed
Pump type	KL80RQ90.4
Flowrate	up to 3,3 m^3/h
Differential pressure	up to 24 bar / 348.09 lbs

WANGEN PUMPEN

WANGEN PUMPEN is certified to:

ISO 9001 (Quality management)

ISO 14001 (Environmental management)

ISO 45001 (Occupational safety and health protection)

TÜV NORD CERT GmbH ISO 9001/14001/45001

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