



Conveyance Solutions for  
**Waste Water Treatment**

Top quality for low maintenance and  
high performance continuous operation

Who we are

## Why choose pumps from WANGEN?

Made in Germany – used worldwide.

Customers trust and rely on pumps made by WANGEN PUMPEN - with a 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 200 staff members.

Thanks to our consistent focus and success of the market and our customers, we expanded our operations with the opening of our North America Headquarters, Wangen America, in Wood Dale, IL.

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.”



Headquarter building in Wangen, Germany

## WANGEN pumps in your Sewage Treatment Plant

# 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 progressive cavity pump



Conveyance of sludge from decanter to silo: KL65RÜ80.4 Progressive cavity pump with fill level monitoring

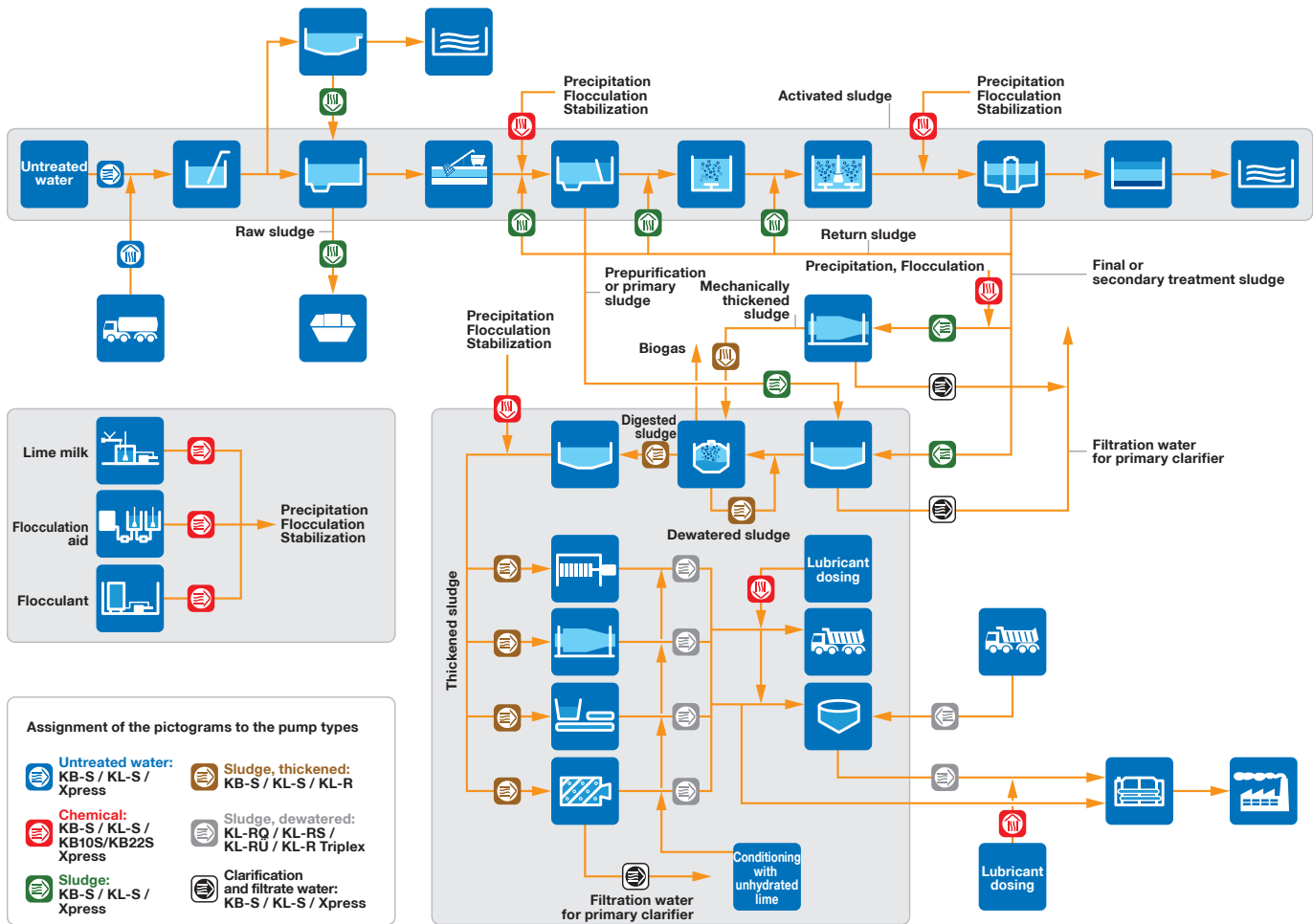


Conveyance of dewatered sewage sludge from decanter for drying: KL65R80.2 Triplex progressive cavity pump



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

# WANGEN pumps in your Sewage Treatment Plant



## Service and Spare Parts

All original WANGEN spare parts meet the strict requirements in terms of functionality and durability and are manufactured in strict compliance with the WANGEN quality standard. Spare parts such as rotors 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, which allows us to supply spare parts within a few working days all over the world. This means we can help you to reduce system downtime and maximize the availability of your plant. Our national service teams will be happy to assist you.

## WANGEN Pumps

# Our Solutions

All of our 7 series pumps for wastewater 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 also facilitate cleaning of the pump interior.

### 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 14.79 gal/min, differential pressure up to 6 bar / 87.02 lbs.

### 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 2466 gal/min, 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 220 gal/min, differential pressure up to 48 bar/ 696.18 lbs.

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

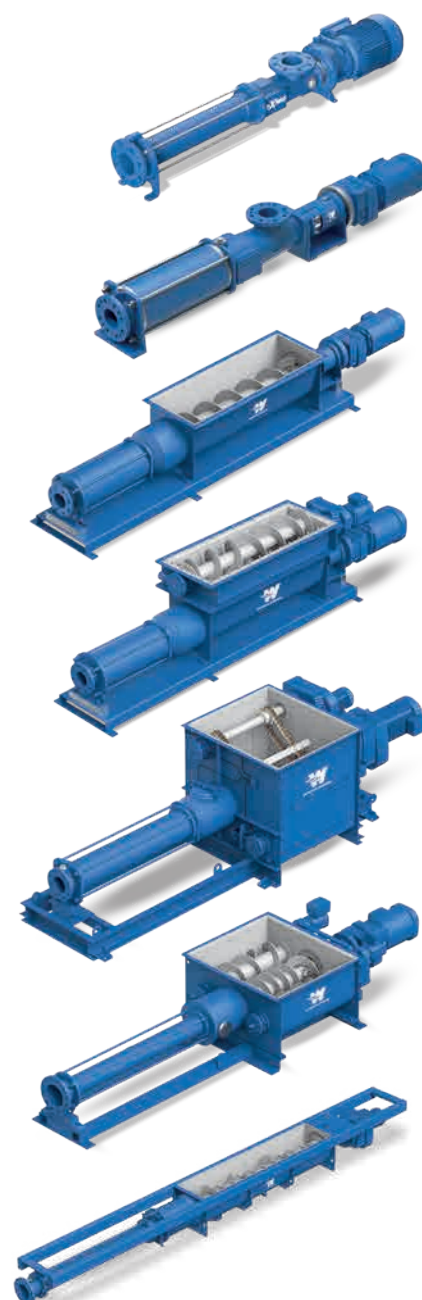
For the conveyance of dewatered sewage sludge with a high dry substance content up to 45%.

Flowrate up to 220 gal/min, differential pressure up to 48 bar / 696.18 lbs.

- KL-RÜ – The economical conveyance solution for a continuous sludge supply.
- KL-RQ und 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.



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## 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 418.3 gal/min
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 KLS
Product	Progressing cavity pump
Pump type	8 x KL100S140.3
Flowrate	up to 8 x 484.3 gal/min
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 88 gal/min
Differential pressure	up to 9 bar / 130.53 lbs



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## 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 22 gal/min
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 4.4 gal/min
Differential pressure	up to 24 bar / 348.09 lbs

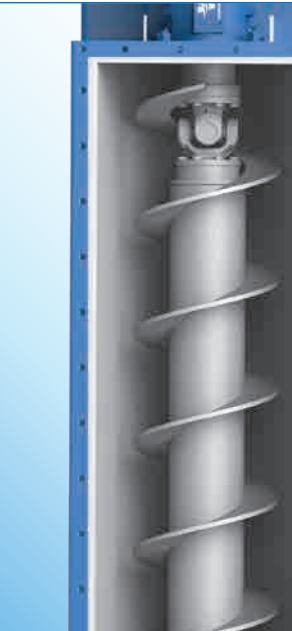
### Ireland

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 14.5 gal/min
Differential pressure	up to 24 bar / 348.09 lbs





**Quality and Environmentally committed**


WANGEN PUMPEN is ISO 9001 and ISO 14001 certified.



*Represented by:*

**KGGO  
Group Ltd.**

*"The Benefit of Experience"*

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