Putzmeister Solid Pumps GmbH applied Technology

Putzmeister technology provides municipalities and industry with advantages in conveying various diffcult sludges and slurries.





de-wrapping of expired food



Solids pumps KOS 1050 in sewage works ProRheno (Basel, Switzerland)



Three huge piston pumps KOS 25100 und 25200 are pumping silt out of the sea for arising an artifical island in front of the japanese coast line



Co-incineration of sewage sludge in the coal-fuelled power station Zolling (Germany) solids pump KOS 2180



Two tailings pumps HSP 25100 at the Bulyanhulu goldmine (Tanzania)

Components – custom made for perfect Operation



Hydraulic Power Unit for a HSP 25100 SP

ponents such as the free flow 1000 kW.

hydraulic drive, electrical and hydraulic controls and fully hywith infinitely variable capacity or diesel hydraulic drives are ofcontrol, high-tech hydraulic com - fered ranging from 5 kW to over

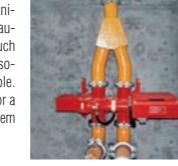


Local control panel at the wastewater treatment plant Gulpocheon South Korea

Accessories – designed for Slurry, Paste and Cake



The total Putzmeister package includes high pressure coupling systems, gate valves, mechanical or electronic pressure gauges, cleaning pigs and much ries are robust and reliable Please contact Putzmeister for a custom engineered pump system solutions from experience.



ZX 150 IP line in an incinerator plant

Putzmeister Headquarter in Aichtal – **Good Ideas become successful Products**



Putzmeister Aichtal



KOS at the test bench in Aichtal

World headquarter in Aichtal – and manufacturing team turn the seven km south of the Stuttgart ideas into a solution – a pump Airport, also the corporate center system to solve our customer's for two additional manufacturing problem. Putzmeister works with facilities, 4 branch offices and the customer every step of the wholly owned subsidiaries, do- way including aftermarket tech mestic and abroad.

Our customer's high solids pum-service. ping problems create Putzmeister's "better ideas".

gineers and world class design pumping problems.

nical support, spare parts and

Please contact Putzmeister to get our better ideas and worldwide Our experienced application en- resource working to solve your

Putzmeister Solid Pumps GmbH for Industrial Applications



The KOS series

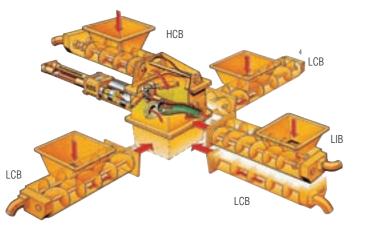
Solid Pumps without Valves with Transfer Tube Control

In the KOS series the intake and A wide range of application-spedelivery cylinders are connected cific components and functions by an S transfer tube. This means are available from Putzmeister. that material can be pumped straight through without inter- **Features and advantages** ruptions or mechanical obstacles. No valves of any kind are For conveying coarse sludused. Foreign bodies within the material can therefore be conveyed without any problem up to Low maintenance and wear a maximum particle size of 2/3 of the delivery pipeline diametre. Less suction resistance due

The KOS pump is particularly suitable for conveying highly viscous sludges and other material with a high proportion of coarse solids. The KOS series finds its principle application with those materials which prements, such as dewatered sludges which contain solids, oil sludges, high-viscosity solids and so on.

- ges or slurries with a high grain-size content
- due to fewer moving parts
- to high-volume unrestricted infeed of material
- Hvdraulic circuit will always remain separate from material being pumped, even in the event of poor mainten-
- Delivery rates up to 400 m³/h
- Delivery pressures up to





LIB Low Inline Booster HCB High Cross Booster LCB Low Cross Booster

The HSP series

Valve Pumps



The HSP series is used with **Features and advantages** paste-like and highly viscous material with a low content of foreign bodies and small particle sizes (< 15 mm).

Precise sealing of the valves means that extremely high pumping pressures can be achieved The principle behind the design of the hydraulic and pumping pistons is the same as in the Putzmeister KOS and KOV series. This ensures the maximum reli-

ability and availability.

- Switchover without shorting No backflow at high pressures
- More effective with materia containing a high proportion
- Delivery pressures up to 150 bar



- sludges or slurries
- Easy to install damping tanks
- Outputs up to 350 m³/h

The KOV series

Solid Pumps with Ball Valves



The KOV series is characterized **Features and advantages** by its straightforward design and high reliability. The suction and For conveying fine-grained delivery cylinders are connected by indirectly operated balls.

material such as mortar or ben-

tonite, even when they contain

foreign bodies up to 10 mm in

size. Pumping pressures up to

90 bar and an output of as much

- Simple design A minimum of moving parts
- The fact that no actively driven Very easy to maintain
 - Outputs up to 60 m³/h
- expensive pump with the maxi- Delivery pressures up to mum availability. No problems arise with pumping paste-like

The EKO series is designed for **Features and advantages**

The EKO series

the most extreme pumping tasks.

that extremely dry material

The open filling hoppers mean

which may also contain a high

proportion of foreign bodies, can

pumped, such as highly dewa-

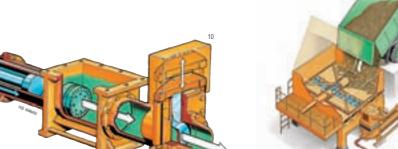
tered paper sludges, are thrust

by the hydraulically driven pis-

ton into the delivery line.

Single-Piston Pump

- For conveying large-sized and coarse foreign bodies
- For conveying extremely stiff
- Crown version pumping and cutting in one stroke
- Simple design
- Delivery pressures up to 60
- Cutting force up to 80 t
- Outputs up to 14 m³/h



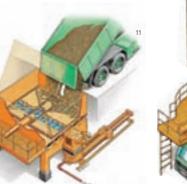
System Engineering

Receiving, Conditioning, Pumping

Putzmeister silos have been designed especially for highly dewatered and highly viscous sludges.

Pump and silo working in perfect harmony: Since both pump and silo come from the same manufacturer, the customer enjoys important benefits.

Features and advantages

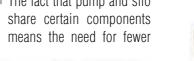


spares and also simplifies maintenance work

The customer is not troubled with sub-system interfacing problems.



- The shared silo discharge and pump feeding auger reduces costs and increases availability
- The perfect matching o pump and silo results in an Receiving bunker with double rectangular optimized overall concept.
- The fact that pump and silo share certain components





sliding frames and pump charging

Putzmeister Solid Pumps GmbH in various Applications







Putzmeister

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