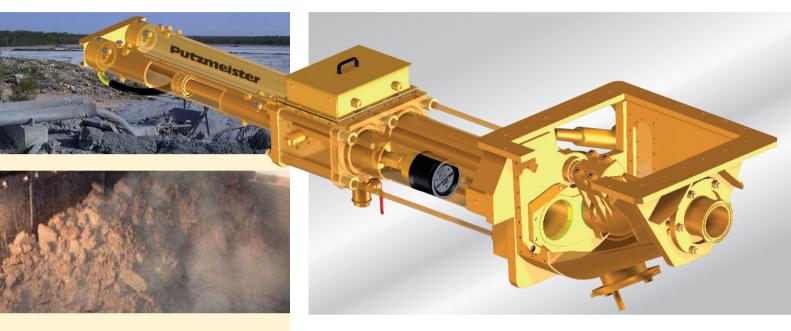
S-transfer tube technology

Simple – reliable – made for the toughest applications





Advantages of the S-transfer tube

- Reliable pump system
- Few moving parts
- Robust, tested and proved design
- Optimum flow arrangement
- Low wear, long service life
- Easy wear part replacement

KOS pumps are the first choice when it comes to maximum availability, easy maintenance and long service life

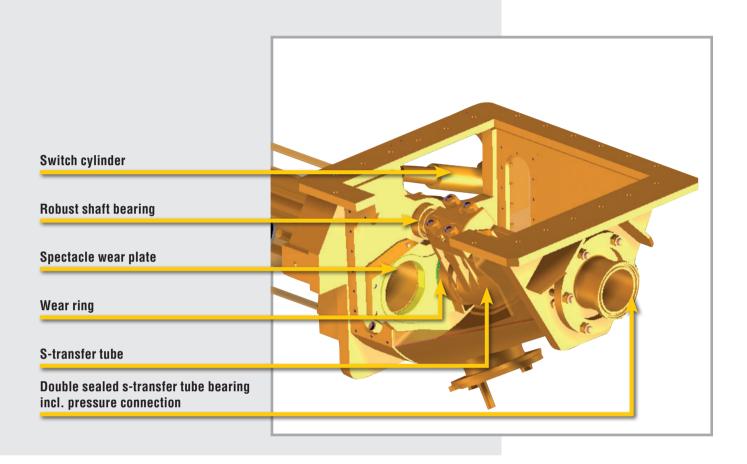
In the KOS series, the pressure outlet (connection of the delivery line) and the delivery cylinders are connected by an S-transfer tube. This enables a **freeflowing conveyance** of the material **without the use of valves**.

Foreign bodies up to 2/3 of the size of the discharge outlet can be conveyed without any issue.

The KOS pump is particularly suitable for conveying **highly viscous sludges** and other material with a **high content of foreign bodies**.



Decisive advantages of the S-transfer tube



Advantages at a glance

Reliable and powerful operation

- Large unrestricted passages, with no restricting contours in the material flow
- Conveying of foreign bodies up to 2/3 of the size of the discharge outlet
- Powerful, fast switchover thanks to robust hydraulic cylinders
- Simple, tried and tested design based on more than 50 years of experience
- Controlled conveying of material reduces energy costs

Low wear. low costs

- Automatic seal at the sealing point using a self-adjusting ring
- Fewer wear parts than other piston pump models
- The S-transfer tube has only one sliding sealing point
- Low spare part costs

■ Long service life

- Armoured wear parts
- Not sensitive to running dry
- Optimum utilization of wear parts thanks to the adjustability of the S-transfer tube
- Proven thousands of times in various applications
- S-transfer tube switching by two hydraulic cylinders outside the sludge hopper – contamination of hydraulic oil is not possible
- All moving parts are connected to the automatic grease lubrication system

Large unrestricted passages for optimum material flow

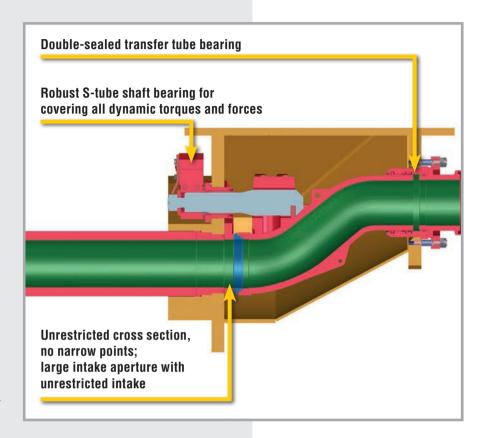
- The large unrestricted S-transfer tube cross section presents no problems for considerably large foreign bodies.
- Foreign bodies with a size of up to a maximum of 70% of the pressure connection diameter can be pumped.
- The S-tube system is extremely insensitive to foreign bodies

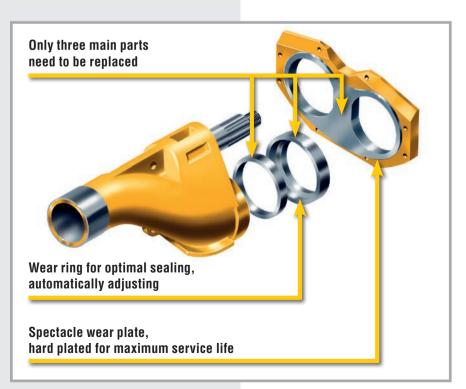
Automatic sealing function minimizes wear

- The wear ring is pressed against the spectacle wear plate by the delivery pressure. The sealing effect is automatically improved as delivery pressures increases.
- The S-transfer tube has only one sliding metallic sealing point.
- Armoured wear parts (hard plating) for maximum service life

Few wear parts reduce spare part costs

- Wear parts are easy to replace, resulting in short machine downtimes and increased availability.
- By re-adjusting the S-transfer tube, it is possible to fully utilize the wear parts to the limits of their life.





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The S-transfer tube – successfully in use worldwide

- Tested and proved system thanks to over 35 years of development. The potential of the S-transfer tube was not recognized by the competition – Putzmeister led it to success.
- Used thousands of times all over the world in a wide range of mobile and fixed industrial applications
- Delivery rates up to 400 m³/h
- Delivery pressures up to 150 bar for fixed industrial applications, up to 250 bar for concrete applications
- Drive outputs up to 1600 kW
- World records for high- and long-distance delivery systems
- The "standard" for materials which are difficult to pump, such as
 - Drained sewage sludges with a high proportion of foreign bodies
 - Oil sludges, coal sludges, paper sludges
 - Bio-waste from household waste
 - Recirculated material in biogas plants
 - Mineral wastes
 - Fly ashes and bottom ashes
 - Concrete, coarse concrete, salt concrete
 - And many more difficult types of high-density substances



S-transfer tube means power! Putzmeister concrete pumps are the world record holders at Burj Khalifa with a pumping height of 606 m!



Pumps with S-transfer tube are used in many applications and can handle the most difficult materials with ease:

Sewage sludge/ - Sewage plants municipal cake

Backfilling/tailings - Mining industry

Drill cuttings - Offshore/onshore industry

Paper sludge - Chemical industry



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