



## Diaphragm pumps for hydraulic transport

Southern Peru Copper Corporation, Peru

### Mining & metallurgical applications for:

- Pipeline transportation
- Mining industry
- Mining processing industry
- Power industry

### Technical data:

- Pressure up to 30 MPa
- Delivery volume up to 1000 m<sup>3</sup>/h
- Drive power up to 2500 kW
- Temperature up to 220 °C

**Increased efficiency, performance and reliability is guaranteed!**

# Diaphragm pumps for hydraulic transport

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## Four Aker Wirth pumps for the Southern Peru Copper Corporation

In early 2007, Aker Wirth received an order for four slurry pumps for the Southern Peru Copper Corporation, one of the largest integrated copper producers in the world. The pumps are installed around the tailings disposal dams in Quebrada Honda in Toquepala, Peru.

The project processes 147 000 t/day of tailings from the Toquepala and Cuajone Mines with 54 % of solids. Two batteries of cyclones process the tailings to obtain 72 % solids at the underflow with a maximum of 15 % minus 200 mesh.

The tailings are placed in two tailing dams, Dique Principal and Dique Lateral, using Aker Wirth positive displacement pumps, distributed through spigots and compacted on the slope downstream.

Three Aker Wirth triplex piston diaphragm pumps type TPM 12" x 14" each pump 295 m<sup>3</sup>/h tailings at a discharge pressure of six MPa to the Dique Principal. One Aker Wirth triplex piston diaphragm pump type TPM 12" x 14" pumps 190 m<sup>3</sup>/h at a discharge pressure of eight MPa to the Dique Lateral. Three pumps are equipped with 700 kW motors and one with a 600 kW motor.

Engineering of this system was done by AMEC, located in Lima, Peru.

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