

# PEMO PUMPS

## MINING & AGGREGATE APPLICATIONS



# ..... **PEMO PUMPS** Mining & Aggregate Applications

## MINING and AGGREGATE EXCAVATION



- Pemo Pumps are used extensively in these markets due to the wide variety of Models and Configurations. Pumps available for this application include Horizontal, Vertical and Submersible Designs.
- Pemo Pumps used for this application are designed specifically for abrasive and or acid/corrosive fluid applications and are available in a number of materials including Rubber Lined, Hardalloy PEMO (750-800HB), Stainless Steel and Hastelloy.
- Some Models can operate to a maximum pressure of 290 psi (20 bar).
- Some of the applications for PEMO pumps include, slurry transfer in ponds, hydrocyclone feed and yellowcake slurry transfer.

## SLURRY and SLUDGE TRANSFER APPLICATIONS



- Pemo pumps are used for transfer of slurries. The main Models for these applications are the Horizontal, Vertical and Submersible Models.
- The Horizontal Models of the AO/AB and AO/AB/DC series are the primary Pemo Models used to transfer concentrated slurries from thickeners to ponds or to filter press systems when there are high pressure losses due to long pumping distances. The side suction design reduces the maximum pressure on the seal to the fluid inlet pressure instead of the higher pump discharge pressure. This reduces maintenance on the seals greatly increasing the life of the seal and reliability of the pump.
- Some Models can operate up to 6613 gpm (1500 m<sup>3</sup>/h)
- Maximum head on some models can reach 492 ft (150 m/H<sub>2</sub>O)



### HYDROCYCLONE FEEDING APPLICATIONS



- Any of the PEMO pump Models can be used to transfer slurry to hydrocyclones for separation of sand and heavy particulates.
- Some Models can operate up to 6613 gpm (1500 m<sup>3</sup>/h).
- Standard pressures up to 44 psi (3 bar).
- Solution contact surfaces for the PEMO pumps used in this application are all rubber lined or made of Hardalloy PEMO (750-800HB).



### NEW TECHNOLOGY for HYDROCYCLONE FEED APPLICATIONS



- In 2008, Pemo upgraded the AUS series Vertical pumps to include larger and higher output models. These new models were promoted to many existing customers and were then tested verses a number of horizontal pumps that traditionally have been used to feed Hydrocyclones. Due to the seal-less design, open impeller and other features of the AUS Series Vertical pumps, the cost to operate these pumps verses horizontal pumps showed energy savings of 15-30% in most applications.
- The AUS Series pumps can be effectively used for this application if the suction is from buffer tanks that are maximum of 7' (2 m) in height.



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**PEMO PUMPS for WATER TREATMENT PLANTS**



Horizontal double stage PEMO pumps for filter press



Concentrated slurries by PEMO pumps in 2 x 2 meters filter press



Vertical PEMO pumps for transfer of slurries



AUS PEMO pump for Hydrocyclone feed application

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