



Cyclone feed pumps, VASA 284-100, installed in the belt filter plant, FGD Plant Karlshamns Kraft AB, Sweden

### General purpose pump for tough applications

# Horizontal slurry pumps type VASA

#### Design

The shaft and bearing assembly unit is easily replaceable and is adjustable. In connection with the adjustable inlet liner it is possible to maintain optimum clearance on both sides of the impeller. The standard pump is equipped with a gland packed shaft seal and can easily be built with dynamical or mechanical seal.

#### Wear parts

The VASA pump is equipped with wear parts in soft wear resistant natural rubber or Chrome Iron (SHR), with a hardness of min. 550 HB. A range of different materials is also available such as, Chloroprene, EPDM rubber or Polyurethane. Stainless steel can be supplied for special applications. This selection, together with the various shaft sealing arrangements, makes it possible to adapt the pump for both abrasive and corrosive applications.

Wear parts in different materials are completely inter-changeable i.e. any combination of materials is possible.

Metso can also offer closed - semi-open - and Vortex Flow impellers for all VASA pumps of size 213-80 and above. The three smallest sizes are only available with semi-open impellers.

#### Installation

The overhead mounted adjustable motor base plate makes the installation very compact, requires a minimum of floor space and eliminates the need for special foundations.

#### Applications

The pumps are primarily designed for pumping abrasive slurries and thus their main applications are within the mineral processing industry for transport of solid particles in suspension. The different special material qualities for wear parts also make the pumps suitable for duties with a combination of corrosion and abrasion such as hydrometallurgical and some heavy chemical applications. The pumps also find many applications within the paper and pulp industry where they are used for pumping of clay, lime caustic sludge, scrubber water, reject pulp, transport of wood chips, etc. The pumps are also installed in various applications in the sugar industry.