

GIW Slurry Pump Helps Alaska Mine

GIW Industries, the leader in the design, manufacture and application of heavy duty, centrifugal slurry pumps, recently helped improve efficiencies at the Kinross Fort Knox mine in Fairbanks, Alaska. The installation of a GIW MDX slurry pump nearly doubled the wear life of the pump wet ends and cut maintenance downtime in half.

Located within the Fairbanks mining district, one of the largest gold-producing areas in Alaska, the Kinross mine at Fort Knox operates year round, seven days a week, processing high-grade ore at a daily capacity of 45,000 tons per day. As a result, the Fort Knox mill requires its pumps to be up and running reliably. However, maintenance required on its previous slurry pumps meant stopping a portion of the production process for up to half a shift.

GIW's MDX slurry pumps have two critical improvements that extend the service life of the pump:

- Lower Specific Speed Design: A large-diameter impeller allows for slower pump operation that extends wet-end parts wear life, even under variable flow conditions.
- Slurry Diverter: This GIW-exclusive technology dramatically increases suction liner life by reducing particle recirculation between the impeller and liner.

These features combine to significantly extend the average service life of the pump while processing the same amount of ore. In addition, the MDX's Adjustable Suction Liner simplifies the process of making routine adjustments that are critical for extending pump service life. Pump adjustments can now be done without taking the pump out of operation. Fewer unscheduled outages and increased uptime has translated into more efficient production and greater profits.