

Solutions

A Case for GPM



High-Head Up and Out: GPM high-head pump shoots 2,000 gallons per minute up 500 feet

Summary

- GPM's reputation for providing the world's toughest and most reliable pumps led an iron ore operation in northern Minnesota to GPM engineers. The customer's existing pit dewatering pumps were not reliable – being replaced every six to 12 months – so they turned to GPM to develop a solution specific to their application, with a lower total cost of ownership.
- The answer? A GPM-Eliminator™ high-head pump. Why replace a pump every six to 12 months when you can trust an expertly engineered and reliable pump from GPM? A GPM-Eliminator high-head pump lives up to its name, capable of pumping straight up at an incredible rate of 2,000 gallons per minute with a head of 500 feet

The Customer

The customer is an iron ore operation in northern Minnesota. Operating several open-pit taconite mines is crucial to their overall production, and replacing pumps once or twice a year was impacting their bottom line. They needed a reliable industrial pump application capable of removing water from an open mine pit at a depth of 485 feet. Dewatering is critical in keeping safe water levels in an iron ore pit, which at certain depths can be tricky to regulate or predict.

The Solution: GPM-Eliminator High-Head Pump

With more than 35 years of engineering and dewatering solutions, GPM assesses each situation and finds the most efficient way to fit the needs for the operation. GPM's expert engineering team developed the GPM-Eliminator high-head pump with a six-inch discharge powered by a 400HP engine. This tough pump can move water at 2,000 gallons per minute, with a head of 485 feet.

GPM engineered two, single-stage GPM-Eliminator high-head pumps, to replace three, two-stage pumps that were requiring replacement every six to 12 months. The investment in a GPM dewatering solution not only protects the customer's investments in mining equipment, but also ensures safety for its employees and decreases downtime.

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Dewatering is a critical step when considering mine pit maintenance and longevity. Dewatering involves regulating the water level within the pit and moving water out when needed. By regulating the water levels, dewatering:

- Allows access to mineral deposits that otherwise would be unreachable
- Extends the life and productivity of the mine pit
- Helps protect the company's investment in expensive mining equipment
- Helps ensure the safety of all people involved in the mining process

The pumps are nimble enough for any situation. In another case example, GPM pumps were submerged and required no external components, meaning the mine in operation could easily blast without moving its pumps, saving valuable time and money.

GPM Stands With You

GPM is the original engineer and equipment manufacturer of all its Eliminator products. It offers free consultations, and their team is on the job for any troubleshooting.

Compared to a typical dewatering approach using a vertical turbine pump, or an exterior horizontal pump, dewatering with a GPM solution is more:

- Reliable – Extended MTBF (Mean Time Between Failures) increases service life
- Flexible – GPM-Eliminator can be completely submerged, or barge-mounted
- Lower maintenance – Self-priming with no auxiliary equipment required; can handle solids in the water
- Cost-effective – Ultra-durability means lower maintenance requirements and fewer unexpected failures, which means a lower lifetime operating cost



For more information contact:

sales@gpmco.com

GPM, Inc.
4432 Venture Ave.
Duluth, MN 55811
218-722-9904
www.gpmco.com

**Need to replace a pump?
Have a pump problem – or want to prevent one?**

Contact GPM for an honest, no-obligation consultation.
