BROOKS BROOKS SPRAYING PUMPING FILTERING AND VALVES

ANOTHER PROBLEM SOLVED!

GORMAN-RUPP T10 PUMP IS THE SOLUTION FOR A ROLLING MILL'S PRODUCTIVITY CHALLENGE AND SAVES THEM $130K PER YEAR

STEEL MANUFACTURER | SCALE PIT PUMPING

GORMAN-RUPP T10 PROVIDES A 300% INCREASE IN EQUIPMENT LIFE

THE CHALLENGE

The customer is a bar rolling mill in Quebec who manufacturers special-grade and merchant bars, reinforcing steel (rebar) and various other semi-finished steel products. In order to minimize water consumption and resuse as much process water as possible in their manufacturing process, the customer sends all water back into a sump. The sump is separated by screens into various settling pits (basins) to prevent solids from being pumped back into the system (process). The customer's hardened metal pumps kept failing, causing significant downtime that reduced mill productivity. Additionally, the cost to replace the pumps was incredibly high (up to $35K).

THE SOLUTION

Our pump application expert realizing the need for a reliable, durable pump solution that could withstand highly abrasive fluids, offered a Gorman-Rupp T10 Series self-priming pump to replace their original pump. The T10 Series was built with a grey iron casing, and a two-component coating system was applied to all wetted parts for improved erosion-corrosion resistance. The ceramic-filled epoxy coating ensures more extended durability on all wearing parts to handle the high solid-loading slurry.

The customer rented the T10 unit for over a year without a single failure, making it a significantly better investment than the competitive pumps they were previously using. The competitor's pump lasted 3-8 months before failure, so with the Gorman-Rupp pump they saw a 300% increase in their equipment lifetime. Also, the customer would potentially spend between $35K-$140K/year on replacement pumps for the original pump, where the Gorman-Rupp T10 pump costs $35K all-in, but with the replaceable wear components, replacement parts and service costs are only around $10K/year. The final result was a 92% (or $130K) decrease in replacement costs per year.

THE RESULTS

- Increased Efficiency & Productivity
- Decreased Maintenance & Replacement Costs
- Increased Cost Savings

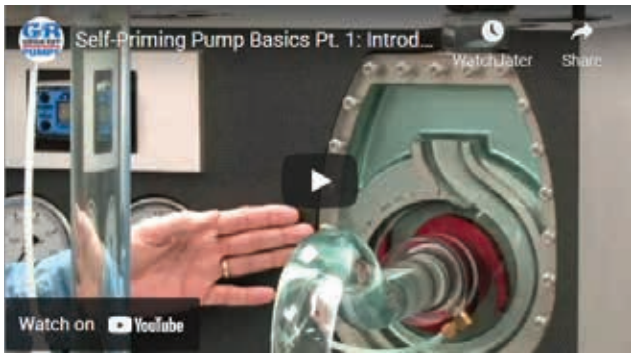
For more information on this solution or if you have a fluid handling challenge of your own - Contact a John Brooks Company Application Expert today!

TECHNOLOGY UTILIZED

Gorman-Rupp Super T Series - **Self-Priming Centrifugal Pump** - Model T10A60S-B
Gorman-Rupp Pumps are self-priming making them more efficient for intermittent pumping. Coating can be re-applied on all wetted parts and wear components are replaceable and easy to service reducing maintenance downtime.

- **Capacity**: 91 gal (344.4 L)
- **Flow**: 7-15 gpm (26.5 to 56.78 lpm)
- **Pressure**: 0-80 psi (0-5.51 bar)
- **Inlet Velocity**: 2 ft/sec (1.09 m/sec)
- **Motor**: 1 HP, 1725 rpm
- **Energy Efficiency**: 6 kWh - 23 kWh/month
- Adaptable 1¼" Discharge Connection
- Corrosion-Resistant HDPE Tank
- Stainless Steel Unilateral Valves Prevent Backflow

HOW SELF-PRIMING PUMPS WORK



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