

Lovejoy® Presents Rock Solid Solutions For Granite Construction

In the high desert of Arizona where dust devils swirl suddenly through the landscape, another sort of problem was concerning the plant superintendent at the Swan Road Aggregate and Hot Mix Facility in Tucson, a branch of Granite Construction Company. This busy site churns out a wide variety of aggregate products such as crushed stone, sand, and gravel. Loss of production was becoming an issue as they were experiencing frequent and costly breakdowns on a Tabor® single-deck shaker screen.

Frequent V-belt failure was the culprit and resulted in costly downtime. The conventional motorbase they were using could not handle the heavy loads, which applied stress on the V-belts, bearings, and sheaves. Specifically, V-belts were slipping, rolling over, and breaking under the severe stress. Sheaves also were failing due to wear and tear from the sides of displaced belts rubbing.

Juan Jose Guerrero, the plant superintendent, was replacing these V-belts and sheaves three times a month, to the tune of \$240 for parts and an additional \$500 per month minimum in lost time and labor. That does not take into account the damage done when downtime during a critical production cycle could possibly cause a late delivery.



ROSTA MB 50 x 200 Motorbase

The area Sales Engineer for Lovejoy, Inc. -- the country's leading company dedicated to the design and production of couplings and engineered power-transmission solutions -- met with Mr. Guerrero to assess the situation. What Lovejoy recommended was replacement of their shaker's failure-prone motorbase with a Lovejoy® ROSTA® MB 50 x 200

motorbase. This would keep a proper tension on the V-belts during start-up and under high-load conditions. Unlike a conventional motorbase, the Lovejoy ROSTA MB 50



ROSTA MB 50 x 200 on a Tabor®

x 200 utilizes an elastomeric torsion element as a pivot mount. This unique design allows the Lovejoy ROSTA MB 50 x 200 motorbase to continuously compensate for normal V-belt wear. This also eliminates V-belt slippage and rollover -- problems that Granite Construction was experiencing with their conventional motorbase.

Since installation, this equipment has proven itself useful with no more downtime due to belt or sheave failure on this machine. The ROSTA motorbase paid for itself in just two months. Additional savings are achieved for the customer each month that he doesn't have to replace any failed parts.

Lovejoy offered Granite Construction a 90-day money back satisfaction guarantee. However, the customer was so pleased with the Lovejoy solution that he ordered three more Lovejoy ROSTA MB 50 x 200 motorbases within the next 30 days for other applications.

The ROSTA motorbase helped this Granite Construction Company eliminate downtime, save on labor, and save money each month by improving the efficiency and profitability of its operations.