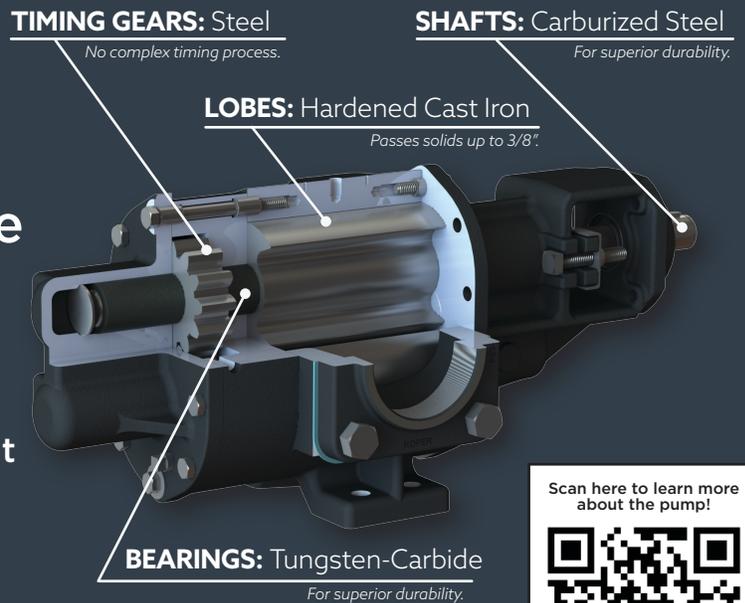




Game-Changing Pumping Solution for High-Solid Mastic in Road Maintenance Applications

OVERVIEW

A leading asphalt maintenance equipment manufacturer turned to Roper Pump Company with a challenge: find a reliable solution to pump high-solid mastic—an extremely viscous, aggregate-laden material—without relying on bulky, expensive auger systems.



THE CHALLENGE

Mastic is a dense, polymer-modified asphalt blend containing up to 30% aggregate by volume, with particles as large as 1/4". Its abrasive and non-flowing nature makes it difficult to move using traditional pumping technology. Most operations rely on gravity-fed or auger-based systems, which add cost, complexity, and design limitations.

THE SOLUTION

Roper Pump engineered a specialized pump solution featuring oversized internal cavities, lobe-style pumping elements, and wear-resistant hardened components. This innovative design handles the abrasive mix and passes the solids with ease, maintaining reliable flow while standing up to tough operating conditions.

THE RESULTS

The customer successfully eliminated their costly auger-fed system and implemented a simplified, pump-based approach to mastic transfer. The new setup enabled longer-distance material handling from the trailer, increasing flexibility and reducing labor and equipment costs.

Customer feedback:

"This pump is going to be a game-changer for the industry."

