



GEARING CHALLENGES: ELIMINATING GEARING MISALIGNMENT



CUSTOMER PROFILE: Rocky Mountain Area Brewery

ISSUE: Rigid mounting gearbox causing premature failure.

A brewery had critical issues with failing units on the can line. These units were rigid mounted, meaning you cannot move the gearbox motor. This creates stress on the gearing, output bearings, and seals. It can also fracture or break the conveyor shaft due to shaft runout. The gearbox must be able to move with the shaft or it will fail.

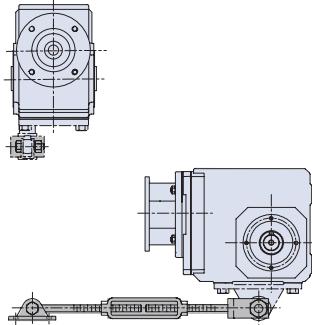
RESULT: Using STOBER enhances quality, improves reliability, and increases plant profits.

The customer agreed to torque arm mount the STOBER unit to allow the gearbox to float on the shaft. This new mounting configuration prevents premature failures and reduces shaft fatigue. The STOBER unit went on to run for over eight years.

TORQUE ARM MOUNTING OPTIONS

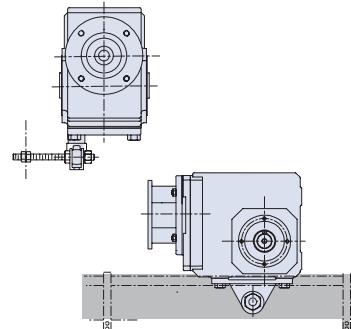
1: Torque Arm Bracket with Turnbuckle Torque Arm

This method uses a turnbuckle assembly that pivots from the torque arm bracket to mount to an acceptable location.



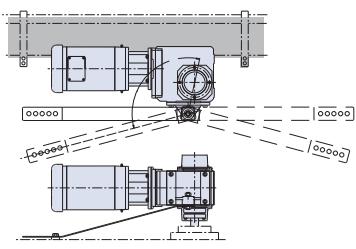
2: Torque Arm Bracket with Threaded Rod Torque Arm

This method uses a threaded rod through the torque arm bracket that is bolted to the machine frame.



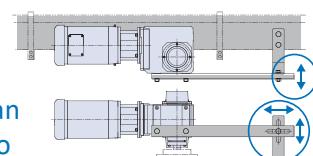
3: Torque Arm Bracket with Fabricated Steel Torque Arm

The torque arm bracket can be ordered with the right angle reducer and the torque arm fabricated from thin steel by the customer to mount in an acceptable location.



4: Fabricated Torque Arm

Using the mounting holes in the reducer housing, a torque arm can be fabricated to mount directly to the machinery. Notice that the fabrication must be 2 pieces with a slot in each piece to allow the connecting bolt to move in all directions.

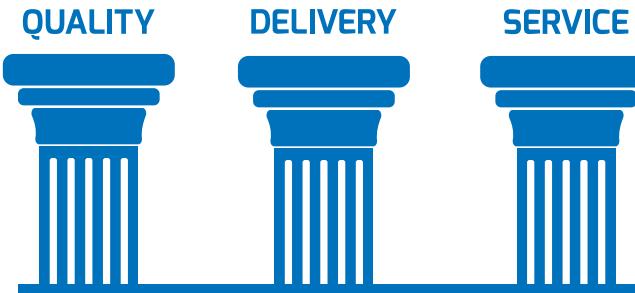




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