

# CASE STUDIES

## Rail & Truck Transport: 12VDC Vibrator Installation

Operator Safety and Comfort Increased While Increasing Productivity

### Introduction

This job story focuses on the benefits of using DC vibrators to prompt and maintain the flow of wet, sticky, or frozen bulk materials out of dump trucks for a Middle Atlantic states municipality. Truck vibrators provide power to improve the speed and efficiency of unloading dump trucks, concrete pumpers, ATV and tailgate spreader trucks, street sweepers, waste hauling trucks, slide-in and mounted spreaders, volumetric mixers, vacuum trucks, sanitation trucks, and other mobile equipment. The vibrators are lightweight, require minimal space, are easy-to-install, and can be powered using 12 VDC or 24 VDC, or by compressed air or hydraulics.



### Problem in more detail

This customer often relied on workers cleaning out truck beds using shovels or attempting to release stubborn loads with sudden start/stop actions to jar material loose. Neither of these methods was cost effective or safe. They not only shortened the life of a truck's powertrain components, but also presented a costly and dangerous lost-time-injury risk to workers.

### Solution

AIRMATIC Application Specialists recommended installing the correct size and frequency COUGAR® DC Truck Vibrator to the ideal mounting location on the truck body to solve the unloading problem. Each truck vibrator was equipped with COUGAR®'s wiring harness and cab-mounted push-button activation switch to maximize operator safety and convenience. The recommended vibrators can deliver up to 3,200 pounds of vibratory force through the truck body to improve the unloading of wet, sticky, fibrous, or frozen material. The vibrators are also sealed against harsh service environments that would hinder unloading using other techniques.

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## Conclusion

The ability to quickly and safely evacuate wet, sticky, fibrous or even completely frozen material not only increases productivity but also reduces vehicle maintenance. Many truck body manufacturers include a COUGAR® DC Vibrator as part of their OEM package, but if your fleet doesn't have them, our Application Specialists will help you choose the ideal COUGAR® model and the appropriate accessories to enable you to reduce turnaround time, make more runs per day, and increase operator safety and morale.

If you'd like to increase productivity and reduce maintenance at your operation, call us at AIRMATIC. We'll Handle It.