



APPLICATION REPORT

Truck Equipment Service Company counts on Vibra-Might vibrators



“Vibra-Might pneumatic piston vibrators work with the truck’s power system to generate the force outputs that aids the flow of a vast number of grain products from a trailer, saving time and improving protection and convenience for truckers.”

-Chris Anderson, Parts Manager
Truck Equipment Service Company

APPLICATION ENVIRONMENT:

Truck/Transport Trailers



Truck Equipment Service Company

FEATURED PRODUCT:



Cleveland Vibrator Co.
Vibra-Might VMR
1125 and VMR 1200
Pneumatic Vibrators



- Pneumatic impact vibrators
- 1-piece, ductile cylindrical bodies
- Double diameter piston enables starts at any mounting angle with minimum air pressure and without the need for a return spring
- Rectangular enclosed base
- Single exhaust port with port protector prevents entry of dirt into the vibrator’s exhaust cavity

CHALLENGE

Lincoln, Nebraska based manufacturer Truck Equipment Service Company was established in 1968 with a clear focus on the manufacture and provision of quality truck trailers to grain haulers in the United States and Canada. For the convenience of their combination trailer and hopper trailer customers, the corporation offers a number of options for their standard models. To Truck Equipment Supply Company, that means providing parts or accessories that deliver superior results with every haul, whether shipments include sticky fish meal, corn gluten pellets or fertilizer. In the area of pneumatic vibrators, the organization wanted to bring a product to customers that they could depend on with every load.

SOLUTION

Vibra-Might VMR 1125 and VMR 1200 metallic impact pneumatic vibrators from Cleveland Vibrator Company were selected by Truck Equipment Service Company to offer as an option to truckers transporting heavy, hard to unload grains in their exclusive lightweight Cornhusker 800 hopper and combination trailers. Trailers with Vibra-Might vibrators installed on the knock rail work at any mounting angle, impact on their own rectangular base, and are maintenance free, saving trailer surface damages and valuable trucker time with unparalleled results.



Installed on hopper and combination trailers, Vibra-Might VMR vibrators are 99.99 percent reliable.



Vibra-Might VMR 1125 and VMR 1200 vibrators attach to trailer knock rails and generate 5,000 and 3,000 vibrations per minute, respectively.

CLEVELAND VIBRATOR COMPANY

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As reported by the United States Department of Agriculture (USDA), farmers in the U.S. produce more with the same or fewer resources than 50 years ago. With agricultural sector productivity in the U.S. rising at an annual rate of about 2 percent, and grains, oilseed and pulse crops accounting for 26 percent of all agricultural products sold in the United States in 2007, the demand on our nation's grain logistics chain remains constant.

Lincoln, Nebraska based Truck Equipment Service Company has supplied the agricultural industry with hopper trailers and combination trailers for more than 35 years. Grain haulers rely on the organization's equipment to take grains from farms or production sites to processing facilities or to elevators where the goods are accumulated and stored for bulk handling or shipment. According to Chris Anderson, Parts Manager for Truck Equipment Service Company, customers haul many types of granular solids. "Some of our truck trailer customers have goods that unload easily, and require little or no assistance," said Anderson. "Others deliver grains or related goods that may be susceptible to environmental conditions, or possess properties that make them difficult to unload such greasy, sticky fish meal."

Vibra-Might discharges the toughest truck trailer loads

"Grain haulers constantly face situations that can cost them time and dollars," commented Anderson. "When the freight does not always flow like it should, you need a vibrator on the truck trailer." Each granular solids product loading into the trailer will have its own traits, such as the temperature of the product, air temperature, humidity, length of a trip, moisture content of the product, and the receiving methods of the facility or elevator at the delivery destination. The same grain product can react different ways, depending on these factors.

Without a vibrator, a grain hauler first must travel a great distance to their destination and then rely completely on their own physical strength to climb up atop the trailer, pull back the top tarp cover, and either get in and out of the trailer to coax the grain out of it or take a hammer to the trailer to create an impact that in turn causes movement of granular product. Loads may include powdery meat and blood meal, feather meal and many other feed or fertilizer products. Exposure to some of these contents can be harmful to truckers without protective gear to keep their eyes and lungs safe. "For customers with those challenging heavy grain hauls, we offer the Vibra-Might VMR 1125 or the VMR 1200 vibrator with our trailers," explained Anderson. "Vibra-Might pneumatic piston vibrators work with the truck's power system to generate the force outputs that aids the flow of a vast number of grain products from a trailer, saving time and improving protection and convenience for truckers."



Vibra-Might VMR 1125 and VMR 1200 one-piece metallic impact vibrators are installed on Truck Equipment Service Company trailers for their consistent, maintenance free performance properties.

The Vibra-Might vibrator enables simple, economical installation. It attaches to the trailer rail, consumes little air and impacts against its own rectangular base, eliminating the potential for trailer surface damages. The Vibra-Might VMR 1125 has a 1-1/4" (3.2 cm) piston diameter and maximum frequency of 5,000 vibrations per minute (60 psig 4.1 bar). The Vibra-Might 1200 has a 2" (5.1 cm) piston diameter and maximum frequency of 3,000 vibrations per minute (60 psig 4.1 bar). "The Vibra-Might model type installed on trailers depends on the needs of the truckers and the types of loads they have," added Anderson. "Trailers may include two or more vibrators, particularly when there are two chutes or spouts."

Vibra-Might vibrators are 99.99 percent reliable

Transportation and handling charges are an important component in agricultural pricing and the returns received by producers. Grain haulers taking loads to processing plants have to be mindful of their delivery time, especially where processing plants may close by 2:00 p.m. or 3:00 p.m. and a long line of trailers may be waiting ahead of them to unload. Vibra-Might VMR vibrators are ready to go at all times, enabling starts at any mounting angle with minimum air pressure, and without a piston return spring. These one-piece models feature rugged, ductile cylindrical housings that are lighter in weight than competitive models, making the products ideal for use with grain hauling and additional applications. Equipment like the Cornhusker 800, a Truck Equipment Service Company exclusive trailer design, boasts lightweight aluminum construction that keeps weight down for both fuel economy and the weight for the overall load. The Vibra-Might models, the VMR 1125 at 6 lbs. (2.7 kg) and VMR 1200 at 14 lbs. (6.4 kg), add little weight to the freight.

The Vibra-Might products require little to no maintenance. An enclosed base and a single exhaust port with a port protector prevents the entrance of dirt or contaminants into the exhaust cavity and prolongs product life. "Vibra-Might vibrators work," stated Anderson, "Out of 1,000 Vibra-Might vibrators there have only been two that were returned. Vibra-Might VMR vibrators are very reliable." Prior to utilizing Vibra-Might products, the company employed a different brand which did not have a high success rate. Through H.S. Nagy, a Cleveland Vibrator Company supplier, Truck Equipment Service Company was introduced to Vibra-Might products and has counted on them since 2006. "Let me tell you, when vibrators on trailers do not work, truckers will definitely tell you about it," added Anderson.

About Cleveland Vibrator Company

Since 1923 Cleveland Vibrator Company has been designing, manufacturing and supplying vibratory products and offering services to meet material handling needs. Our diverse products and knowledge ranges from the precise challenges of fine powder screening to the most rugged equipment feeder and conveyor applications. In addition to our breadth of capabilities, we differentiate ourselves with a unique focus on quality, integrity and customer service that has made us a partner with more than 15,000 organizations around the world throughout our 88 year history. Our comprehensive line of industrial vibrators includes unique air-piston vibrators, rotary electric vibrators, electromagnetic vibrators, turbine vibrators and ball vibrators used for bins, hoppers, railcars, foundry applications; rollover and core machine vibrators and more – in many sizes and varieties. Cleveland Vibrator fabricated products include air and electric powered vibratory feeders, screeners, ultrasonic screeners, conveyors and tables for light, medium, and heavy duty industrial applications.