

## Wire Rope Isolators Replace Rubber Cushions in Automotive Foundry Application

### Enidine Wire Technology Application

By: Tom Verderber, Spectrum Industrial Products

### Product Overview

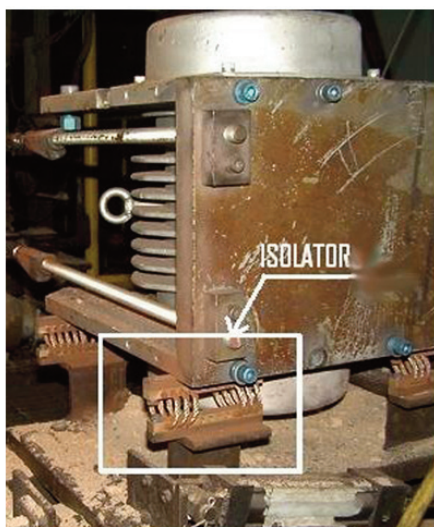
An automobile manufacturing foundry located in Cleveland, Ohio was searching for a solution to a unique application problem. The problem was premature failure of rubber isolator mounts on a critical sand mixer. Spectrum Industrial Products proposed ITT Enidine Inc. Wire Rope Isolators (WRI) to solve the problem.

### Product Solution

In preparation for the casting operation of engine blocks, sand is loaded into a mixer and mixed into the desired consistency. The mixers are typically located on the second or third floor of the plant and often times the mixing procedure would send vibrations through the floor to the lower levels. To prevent this disturbance, the mixers were isolated using spring isolators. This solution did not provide the isolation required. The customer then used the elastomeric (rubber) isolators that were provided by the mixer manufacturer, but they wore out often and had to be replaced monthly. ITT Enidine Inc. suggested installing WRI because the steel cabled isolators would last much longer than the elastomeric isolators. After fine-tuning the WRI in the application, the maintenance required to change the elastomeric isolators was reduced from every 2-3 weeks to minimal maintenance in over 9 months.



4.2 and 2 Core Line Isolators



*Black Belt Project started by engineer, And Getsy.*

The isolators previously made of rubber broke quite often. These steel loop isolators were tried on 4.6 Core then the 2 Core line. The time between replacement is now measured in months and the quality of the mixing has also improved greatly. The installation of these isolators then required redesigning of the flapper arms to compensate for the changed position of the motor.

### Application Opportunity

The manufacturer is very pleased with the results recorded after implementing the ITT Enidine Inc. WRI. The customer was impressed with product life or Wire Rope vs. Rubber Cushions. Since implementing the new isolators, there have not been any failures in the equipment. The manufacturer has put these isolators on several different casting lines and Spectrum Industrial has taken advantage of numerous opportunities to replace competitor's shock absorbers with ITT Enidine Inc. products throughout the plant. The customer will continue to implement the ITT Enidine Inc. products in other facility casting lines, as well as consider using ITT Enidine Inc. products in other applications.