

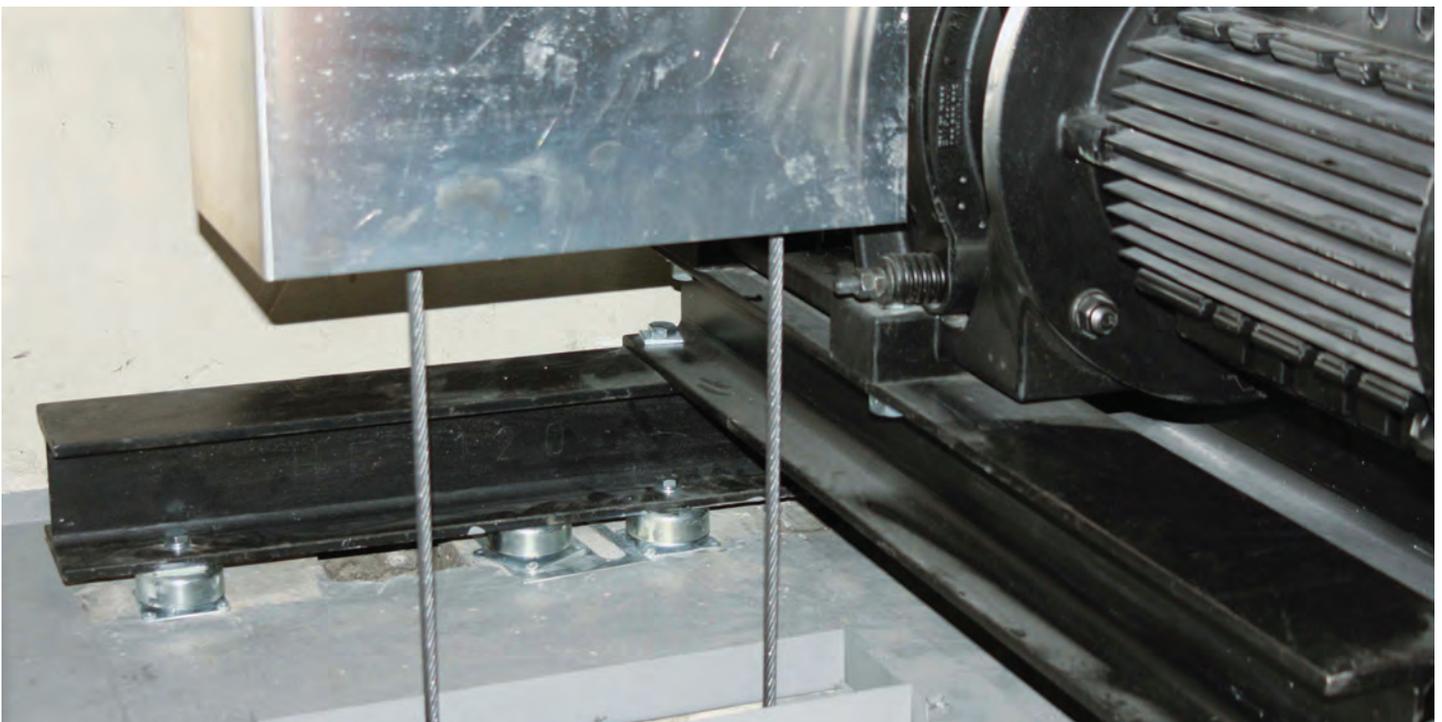
ACE Cup Mounts In Noisy Elevator Bring Peace And Quiet To Nearby Residents

Elevators are usually in service for several decades, so it's no wonder they have to be upgraded from time to time. When modernizing elevators, several factors have to be considered, including passenger comfort, handicap accessibility and motor noise. In a recent case example, a building elevator outfitted with a newer, larger motor was generating troublesome noise for nearby residents.

Here's how Cup Mounts from ACE Controls came to the rescue.

The Challenges Of An Upgraded Elevator. A+G pro GmbH specializes in elevators and building technology. In addition to installing new elevators, the company provides ongoing maintenance of existing elevators to ensure current safety standards are being met. As can be expected, many older elevators need to be modernized.

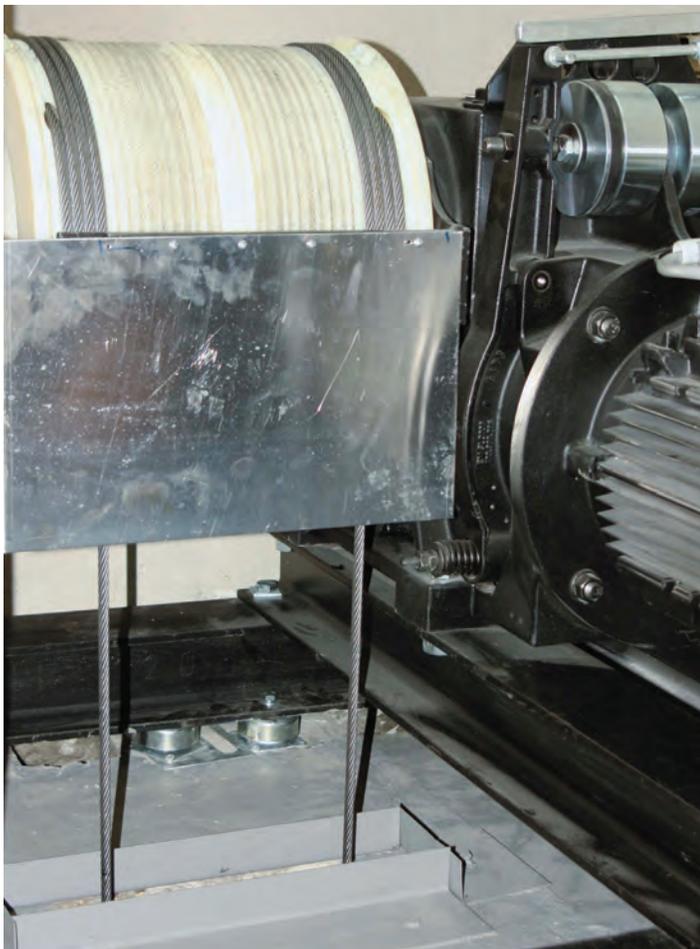
The company recently upgraded the elevator in one apartment building to be more wheelchair-accessible. Because it's difficult to make existing elevator shafts larger



ACE Cup Mounts protect machines and electronic systems from damaging impacts and vibrations.

without incurring significant costs, the company opted for a different route. “We removed the counterweight to enlarge the cabin, thus making it accessible to those in wheelchairs,” Hartmut Emmert, Managing Director of A+G pro GmbH, said.

While the solution worked, it also created a new set of challenges. Because the balance in the elevator was no longer being compensated by the counterweight, the company had to install a significantly larger motor. This new motor generated a lot of noise, which nearby residents could hear from their bedrooms. Not only that, but the noise level did not meet current industry standards.



After the elevator was outfitted with a newer, larger motor, the resulting noise disturbed the residents living nearby.



The Cup Mounts minimized the noise generated by the elevator—to the satisfaction of the nearby residents.

ACE Cup Mounts Reduce Motor Noise. Emmert needed an easy, effective and inexpensive solution to this noise problem. That’s where ACE came in.

For this application, ACE engineers selected their Cup Mount (CM) product family of rubber-metal isolators, which work by isolating the vibrations and impacts generated by machines and motors. These components are characterized by their robustness, compact size and customizable installation length. They can be tilted in the x, y and z axes and can be used for all loads, including shear, compression and tension, up to 750 kg. In addition, these Cup Mounts are rugged: they can withstand temperatures of -60° to 150°C, are resistant to UV radiation and can be coated in aluminium and stainless steel, if required.

Once the engineers installed the Cup Mounts in the elevator, all motor noise subsided. Not only did the elevator once again meet industry standards, but the nearby building residents could sleep soundly once again.

To learn more, please visit: www.acecontrols.com