

THE CRESCENT® ELEVATOR MODERNIZATION PROJECT

MAGNETEK QUATTRO® DC ELEVATOR DRIVE



PROJECT The Crescent®, Dallas, Texas

CONSULTANT Barbre Consulting, Inc.

OEM Schindler Elevator Corporation

PRODUCT Quattro DC Elevator Drive

Challenge

- Replace an aging elevator system with a more energy efficient solution
- Reduce the amount of equipment required to run multiple elevators
- Implement sustainable operations to improve green building program scores and certifications
- Provide tenants with an upgraded ride quality

Solution

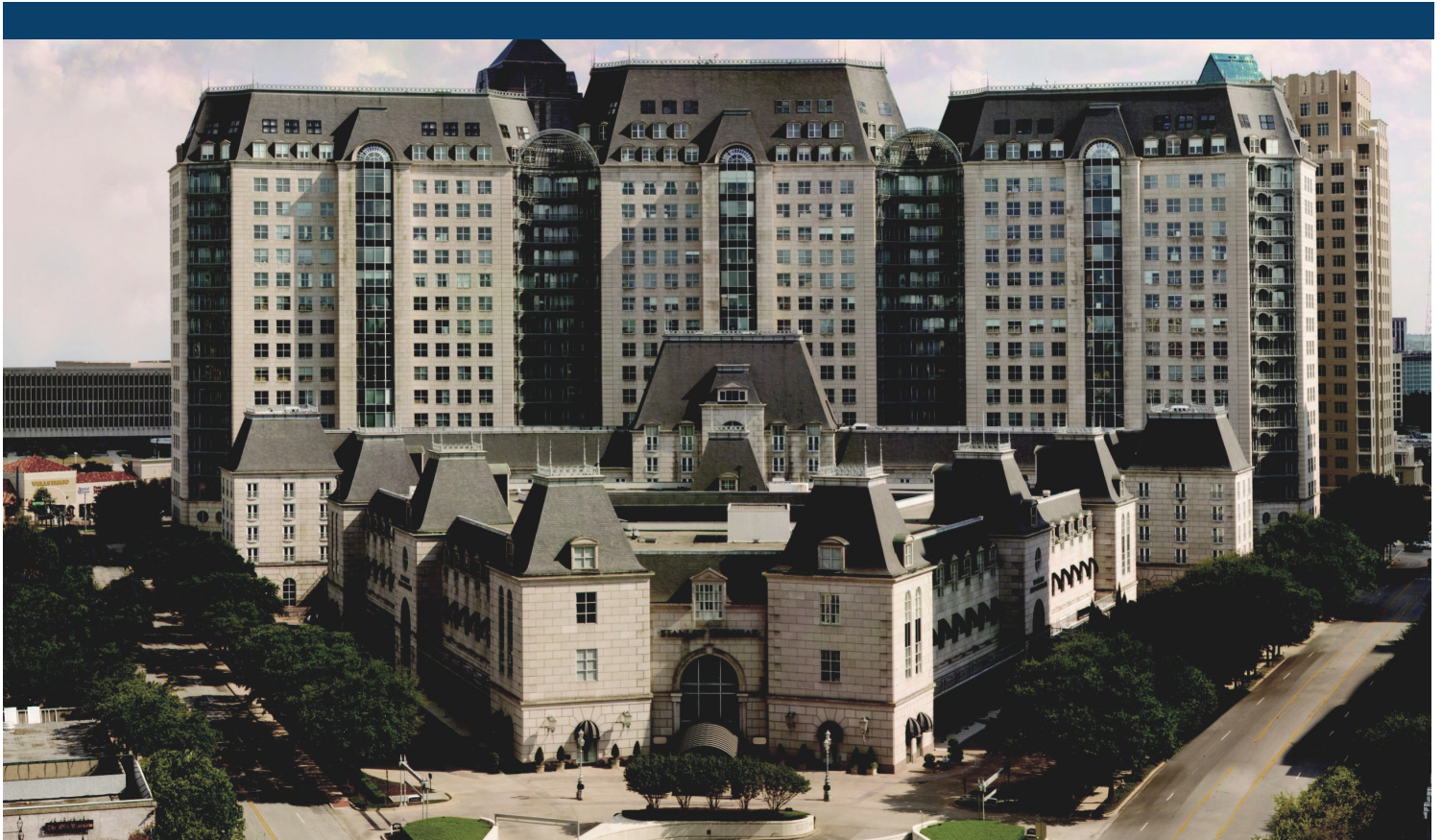
- Magnetek fitted three towers with 24 Quattro DC Drives
- Installed easily accessible drive cabinets with reduced heating and energy waste
- Enabled improved commendations for green initiatives from USGBC and EPA
- Enhanced floor-to-floor travel times and elevator reliability

Results

As Dallas' premiere Class A, multi-purpose business complex, The Crescent houses office spaces, hotel accommodations, restaurants, and retail shops. To effectively transport the large number of people that work in and visit The Crescent office building every day, a more energy efficient solution was required to replace an aging elevator system.

The Crescent chose to partner with Schindler Elevator Corporation and utilize its innovative Personal Occupant Requirement Terminal (PORT) elevator technology, an intelligent, two-way communication interface system designed to move occupants quickly and efficiently. Paired with Magnetek's 125, 150, and 200 Amp Quattro DC Elevator drives, this optimal solution improved energy savings and ride quality while simultaneously lowering installation costs.

Quattro drives consume the lowest energy possible, saving as much as 25% over DC-SCR drives and as much as 45% over Motor Generator (MG) sets through full regeneration power conversion. Clean utility side drive harmonics reduce heating in the electrical system and better utilize existing distributions of line equipment, preventing interference with other user apparatus. Precise, accurate controls provide smooth acceleration and deceleration, resulting in a superior ride quality.



By replacing original equipment with the latest evolution of Magnetek's line of technologically advanced, Energy Engineered® elevator drives, the building was able to eliminate the need for an add-on filter and reduce the number of required wired cabinets on site. Reduced equipment and simple controls permit elevators to produce more useful work rather than wasting heat in the electrical distribution system.

Rick Flusche, Operations Manager of The Crescent said, "The Quattro not only offers the opportunity for energy savings, but, coupled with Schindler's PORT technology, has greatly improved the overall performance of the elevators."

Committing to providing tenants with a more sustainable building, The Crescent office spaces updated their elevators to use power more efficiently, improve vertical transportation, and lower installation costs. In doing so, the building improved its LEED certification score from the U.S. Green Building Council (USGBC) and gained Energy Star points with the Environmental Protection Agency (EPA). A centerpiece for the Dallas office market, The Crescent utilized green solutions from Schindler and Magnetek to become a leader in today's and tomorrow's sustainability practices.

ENERGY SAVINGS CALCULATOR RIGHT ON THE MONEY!

Magnetek's Energy Savings Calculator can estimate the energy consumed by your elevator equipment and evaluate the efficiency of AC or DC motor and drive systems.

Use your results to qualify for utility energy rebates.

Calculate your savings with Magnetek's elevator-specific solutions at www.magnetek.com/Cal.



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