



PROJECT

Six-story, 1,000 Stall
Parking Garage

OWNER

Vanderbilt University
Medical Center
Nashville, Tennessee

ARCHITECT

Thomas, Miller &
Partners, LLC
Brentwood, Tennessee

MARKET SEGMENT

Health Care and
Higher Education

PROJECT COMPLETION

April 2008

PRODUCT SOLUTION

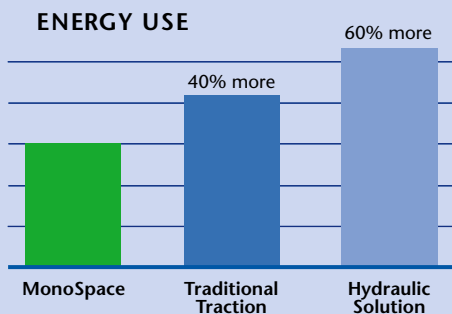
Three MonoSpace
elevators, with plans
to add one more in
the future



“We picked KONE because we felt that they had the technology that was in the top tier of the market and because their service team has a strong and long-term presence in Nashville.”

Ann McGauran, Architect/Project Manager, Vanderbilt University Medical Center

the savings



the challenge

- Install new elevators in a parking garage expansion project
- Accommodate for future vertical expansion
- Address lack of space for machine rooms
- Deliver an environmentally-friendly solution
- Work with structural limitations of existing garage

the KONE solution

- Install three MonoSpace elevators that can accommodate future construction of two additional floors
- Deliver up to 60 percent greater energy efficiency
- Provide Machine Room-Less technology
- Eliminate the need for hydraulic oil
- Provide guests and hospital staff with efficient, faster and safer rides

“The Machine Room-Less elevator was really the perfect solution for us based on the fact that we had an existing structure and the potential to add floors in the future.”

Ann McGauran, Architect/Project Manager, Vanderbilt University Medical Center



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the client's situation

When Vanderbilt University Medical Center needed to expand the size of its Central parking garage, it assessed its current parking needs, but also had to plan for future expansion. What would be constructed today needed to accommodate a future vertical expansion easily from both construction and cost perspectives. Vanderbilt's Space & Facility staff also needed the product to meet the structural limitations of the existing garage.

Hydraulic and traction elevator systems were not good candidates for the project, according to Project Architect Mike Leonard, because of their need for a machine room or penthouse, and a hydraulic elevator's height limitations. If not impossible, future expansion would be incredibly costly with one of these two alternatives. “We needed a system that could be extended vertically with minimal downtime or project rework,” he said. Leonard, however, was familiar with an Alabama elevator installation that featured a KONE elevator. Even though the Tennessee Elevator Safety Board had not yet approved this newer technology, Leonard made a call to KONE to see if someone could help.

the KONE achievement

KONE's MonoSpace elevator was the perfect solution for Vanderbilt's parking garage expansion. Its Machine Room-Less, gearless technology, guaranteed that future vertical expansion of the garage would be possible and would not require massive reconstruction. Environmentally, the MonoSpace reduces energy use by up to 60 percent compared to a hydraulic elevator, and eliminates the risk of water table contamination due to no underground drilling or use of hydraulic fluid. The MonoSpace also worked well with the structural limitations of the garage. The elevator's motor operates from inside the hoistway, so there was no need for a machine room or penthouse, eliminating overhead structural reactions.

Since the state of Tennessee had not yet approved this newer technology as other states had, Leonard asked KONE if it could provide the Tennessee Elevator Safety Board with documentation and specifications for the technology so they could receive approval for installation. KONE was able to provide the essential information so the decision to amend the codes could be made, and it was. The project was then approved to move forward.

“Installation of three elevators, one MRL on the north end and two hospital-sized cabs on the west with an opening for a third later, was completed in 2008,” said Leonard. In addition to potential future expansion cost savings, and environmental issues addressed, patients, visitors and hospital staff of the medical center now enjoy efficient, faster and safer rides.

the bottom line

KONE's eco-efficient™ line of elevators, including the MonoSpace elevator, offers economic, environmental and social benefits now and for the future because of its ability to accommodate vertical expansion. It also provides energy savings of up to 60 percent, eliminates environmental risks and provides a smooth, safe and quiet ride.

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