

# KONE MONOSPACE® FLEX ELEVATORS RESTORE SERENITY TO COASTAL LIVING

The Cypress Bend VI Condominium in Pompano Beach, Florida, promises a serene setting for relaxed tropical living. Aging elevators serving residents in the nine-story building, however, delivered a different reality.

“We were getting complaints from residents about the old and noisy hydraulic equipment,” says Doug McDonald, Licensed Community Assn. Manager, Cypress Bend Condominium VI Assn., “especially from residents who lived near the elevator shafts and mechanical rooms.” Further compounding the frustration was the prospect of regular equipment breakdowns. At more than 30 years old, the elevators were well past their useful life.

Had the project been a hydraulic modernization, the prospect of cylinder replacement and redrilling – an undertaking both costly and time-consuming – represented a sizeable risk. The project’s location near a body of water, making cylinder replacement vulnerable to seepage, was also a risk. The gamble was too great: Building management instead selected the KONE gearless traction alternative.

Created for new and existing buildings, the KONE MonoSpace® Flex machine room-less elevator is perfectly suited to Cypress Bend’s needs. Combining KONE’s proven eco-efficient technology with ride comfort and design innovations, KONE MonoSpace® Flex is a flexible elevator solution for low- to mid-rise buildings.

## LESS DISRUPTION; MORE INNOVATION

Because the KONE MonoSpace® Flex solution allowed retention of existing Cypress Bend elevator entrances, disruption during installation was minimal. “I expected a lot of noise during the demolition phase,” McDonald says. “It’s actually been much less disruptive than what I expected.”

The building’s existing hoistways could accommodate elevators bigger than those being replaced, while still seamlessly interfacing with existing hoistway dimensions. Fully stretcher compliant, the KONE MonoSpace® Flex cabs have a 3,000-lb. weight limit (the hydraulic units had a 2,500-lb. limit) with a 9-ft. interior height (compared to 8 feet on the hydraulic units).

The KONE MonoSpace® Flex solution also includes versatile design innovations for elevator cab interiors, replacing 33-year-old wood shell cabs. Updated as part of the modernization, Cypress Bend cabs now convey an elegant, contemporary ambiance.



## THE CHALLENGE:

- Condominium residents were increasingly frustrated by hydraulic elevator reliability and noise
- Hydraulic modernization would require 68-foot cylinder replacement with risk of hole collapse
- Hydraulic power unit replacement would require custom (and costly) dry power units – units that are both very loud and produce considerable heat

## SOLUTION:

- The KONE MonoSpace® Flex solution eliminates potential hassles (cylinder replacement and risk of redrilling) of hydraulic modernization
- KONE MonoSpace® Flex provides new steel cab shells and allows retention of existing entrances, minimizing disruption
- Environmentally friendly KONE gearless traction elevators deliver improved ride quality with faster floor-to-floor travel
- KONE MonoSpace® Flex provides redundant safety with dual braking to prevent unintended movement, an overspeed governor and safety, battery backup lowering and other features not available on hydraulic elevators

## FAST FACTS:

### CYPRESS BEND VI, POMPANO BEACH, FLORIDA

- Property: Nine-story condominium building in a four-building complex occupied by 450 residents

## KONE SOLUTIONS:

- Seven KONE gearless traction elevators
- Turnkey project, including all general contractor work

“A modernized hydraulic elevator is a compromise solution that retains some built-in obsolescence,” notes KONE Project Manager Dan Scaravelli. “Full replacement with KONE MonoSpace® Flex traction elevators give older buildings completely new, modern gearless elevators with the benefits of today’s technology, redundant safety, easily available spare parts and high energy efficiency. These full-replacement projects are also easier to manage, with more predictable downtimes and outcomes.”

## COMPLETELY TRANSFORMED RIDE QUALITY

If hydraulic elevators are known for anything, it’s their poor ride quality. By the time an aging hydraulic unit reaches a building’s top floor, the ride is inevitably marked by vibration and rattling. The KONE gearless traction elevator is a game changer, smoothing out the ride and lowering the volume to a barely perceptible purr.

At Cypress Bend, the KONE MonoSpace® Flex solution has completely transformed ride quality. “The new elevators are much smoother and much quieter,” McDonald says. “It’s like getting a new car: It rides better, it sounds better and the aesthetics are great. We’re getting a lot of positive comments from residents.”

The gearless traction elevators’ faster floor-to-floor speeds also mean less waiting and a superior experience for residents.

## THE VALUE OF PROVEN ECO-EFFICIENT TECHNOLOGY

Defined by innovation, the KONE MonoSpace® Flex solution does more with less. Driven by a 9 hp motor (instead of the 50 hp motor used on Cypress Bend’s previous hydraulic elevators), KONE MonoSpace® Flex elevators are extremely energy-efficient. The KONE energy calculation tool shows potential energy savings of up to 73 percent\*\*.

Dated hydraulic elevators actually waste most of the energy they put into the system, rejecting it as heat, which must then be pumped out of the machine room by an air-conditioning system. Compare that with KONE’s regenerative drive technology, which recovers unused energy and returns it to the building’s electrical systems. In a typical mid-rise building application, that can amount to a 40 percent reduction in energy consumption.

For residents of Cypress Bend VI Condominium, KONE MonoSpace® Flex elevators provide an optimized experience and an environmentally friendly solution. “I would absolutely recommend KONE MonoSpace® Flex elevators for the other buildings at Cypress Bend,” McDonald says.

\*\*Disclaimer: The results of the EnerCal energy calculation tool are based on the typical energy consumption of KONE products. The results are KONE’s best estimates of the annual energy consumption, but the real-life values may vary depending on the actual installation.

## ABOUT KONE

At KONE, our mission is to improve the flow of urban life. As a global leader in the elevator and escalator industry, KONE provides elevators, escalators and automatic building doors, as well as solutions for maintenance and modernization to add value to buildings throughout their life cycle. Through more effective People Flow®, we make people’s journeys safe, convenient and reliable, in taller, smarter buildings. In 2020, KONE had annual sales of EUR 9.9 billion, and at the end of the year over 60,000 employees. KONE class B shares are listed on the Nasdaq Helsinki Ltd. in Finland.