

Dumbwaiter/Vertical transportation systems modernization: Increasing Safety and Avoiding Failure

Dumbwaiters and Cart Lifts are critical elements of modern-day, multi-story buildings. Users expect they will function as reliably as the sun comes up in the morning. Unfortunately these systems, just like any other mechanical component, eventually fail.

The failure of an old system exposes the owner to higher costs (expedited parts delivery, overtime labor), and extended downtime due to limited parts availability and the permitting and scheduling aspects of a modernization project.

Though a well-maintained system may last 20 or more years, eventually you will need to upgrade your important components or completely modernize your system. With careful planning, the modernization of your system can be a strategic capital investment instead of an emergency situation.

Modernization Considerations:

Safety

- Has your system arrived or passed its expected life (built in the 1980s or earlier)? Most systems that were built before 1980 have many safety systems missing, such as protection devices, redundancy circuits and lock monitoring capability.
- Does your current system meets current safety and fire codes?
- Does the dependability of your system and the consequence of failure pose an unacceptable safety as well as a liability risk?

Efficiency of Operations

- Have you seen an increase on the number and expense of service calls the past 12 months?
- Is the performance of your system intolerable? Will upkeeps or replacing components not lead to acceptable performance?
- Is your controller technology outdated? Upgrading from a **relay-logic** system to a **computerized** controller can decrease wait times by 10-15%.

Cost

- Will upgrading to a newer system significantly reduce your energy costs?
- Will the short-term costs to refurbish parts exceed the life cycle cost of complete replacement.

Obsolescence

- Is it getting difficult or expensive to find spare parts for your device? Or is it hard to find technicians who can properly repair and maintain it? **Obsolescence drives many modernization decisions, and it includes declining availability of replacement parts as well as availability of service talent. Service personnel who know how to maintain a previous generation's equipment may be fading away due to retirement.**

Some benefits of Modernization:

- Shorter travel times
- Anti-nuisance car-call cancellation
- Quieter operation
- **Increased reliability (fewer unscheduled service calls)**
- Lower energy use

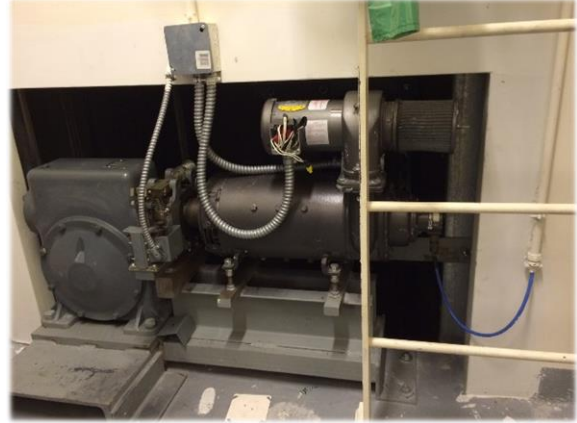
MATOT WILL BE YOUR TRUSTING PARTNER IN ANY UNIT MODERNIZATION PROJECT

The scope of renovation work that Matot can undertake in modernizing existing units entails:

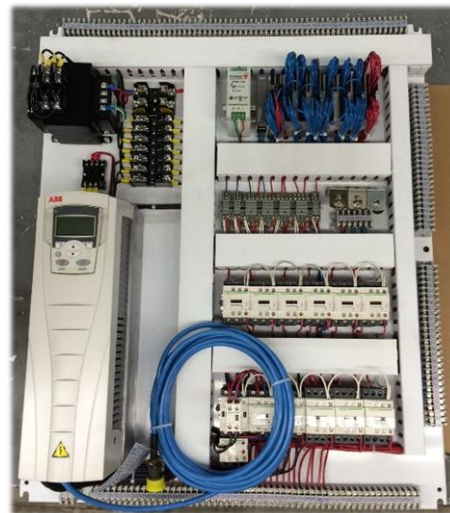
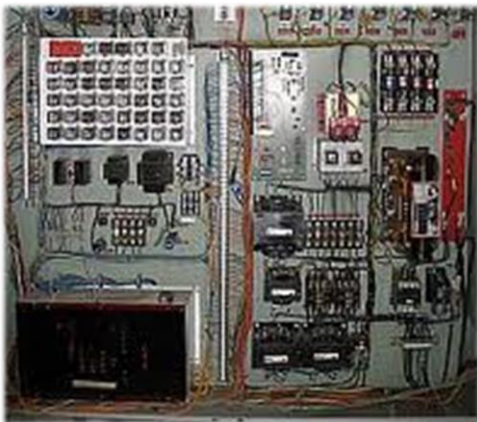
- Replace old controllers
- Replace MG sets and obsolete floor switches with modern PLC controllers
- Replace VVF drives and tape selectors.
- Replace old selective vertical conveyors with modern vertical material handling systems.
- Replace worn hoistway entrances.
- Renovate or replace power door/gate equipment.
- Restore material handling equipment to current code compliance.
- Change non-operating or obsolete automatic cart transfer systems to manual load systems or restore the transfer operation.

****Note: Contact us to help you with the planning of your next modernization project.**

MACHINE UPGRADING



CONTROL UPGRADING



CABIN UPGRADING



DOORS AND GATES UPGRADING

