

H-POWER^{SL}

Elevator modernization for DMC controllers





DMC elevators: an aging workhorse

From 1985 to 2000, the DMC was the most popular hydraulic elevator system for passengers in North America, and more than 80,000 units are still in service. This iconic elevator system has been appreciated for its engineering quality, reliability, passenger safety and long product life.

When introduced, the DMC was the first elevator to use microprocessors and solid-state devices for the work of the electro-mechanical relay systems. This enhanced digital system captured all call allocations, door control, speed sensing information, and car position indications then processed it through a single computer network.

The result was legendary reliability, consistency and reduced wear and tear.

Time to upgrade to current technology

DMC controllers have been the hydraulic elevator industry standard, but they've become difficult to adapt to technologies upgrading modern buildings, including security systems.

Because of their older design, obtaining DMC replacement components is also becoming difficult. This can result in increased elevator downtime, higher maintenance costs and tenant frustration.

To ensure these elevators continue operating into the future, we're offering the H-Power SL modernization package. With this package, your hydraulic elevator will achieve high performance, reliability, safety and code compliance along with a new look and feel.

DMC elevator challenges to overcome:

- Slower microprocessing speeds
- Reduced storage capacity
- Inability to provide comprehensive data for our MAX preemptive digital maintenance solution
- Difficulties connecting to building security systems

The time has come for DMC controllers to make way for today's digital technology improvements. As the original equipment manufacturer (OEM) for the DMC, TK Elevator is best suited to modernize this system.



Before

After

The Impulse fixtures on DMC elevators are replaced with Traditional fixtures as part of the H-Power SL modernization.

H-Power SL modernization

With more than 30 performance-optimizing features, we replace your DMC system’s most critical components. This streamlined modernization package can be completed in fewer hours than standard modernizations — sometimes over a long weekend.

Once completed, you’ll feel and see the difference the first time you step into your elevator.

H-Power SL package overview:

1 TAC series controller

Our digital controller offers increased reliability, reduced wiring and optimized efficiency through its 32-bit microprocessor. It also includes:

- **Battery lowering unit**
Prevents entrapments and provides supplemental power to the controller in a power outage. It moves the elevator to a predetermined floor and lets the passengers out. Then it shuts the elevator down. This unit eliminates the need for a costly power generator. Other options are available.
- **Solid state starter**
Minimizes power surges and provides smooth, quiet and reliable motor operation. Across-the-line starting is also available for single phase applications.
- **Elevator positioning encoder**
Communicates the elevator’s location. This helps promote a safe and level landing for passengers when boarding and exiting.
- **Non-proprietary user-interface tool**
Provides unrestricted access for on-board adjusting and troubleshooting, keeping troubleshooting calls short.

▪ MAX

Provides real-time, cloud-based predictive maintenance, which increases your elevator’s uptime.

2 Universal door operator

Faulty doors are the elevator industry’s most frequent service call. This new technology improves door reliability and provides quick and smooth door operation.

3 Latest fixture package

Our stainless steel fixture line includes car operating panels, hall fixtures and car riding lanterns that improve elevator appearance and functionality. Fixtures are also easy to install, do not damage the walls and are in full compliance with U.S. and Canadian fire service codes.

4 Wiring package

Our cable and hoistway wiring system communicates with multiple devices through a single wire using advanced CAN-BUS technology. It helps provide safer and more efficient elevator operations and maintenance.

H-Power SL technical specifications

| | |
|--------------|---|
| Openings | Front and rear (selective) |
| Stops | Up to eight |
| Power supply | 200–208V, 220–240V, 460–480V, 575–600V, 50/60 Hz AC, 60 HP |
| Speeds | Up to 200 fpm (1.02 m/s) |
| Capacity | 1200 to 5000 lbs. (544 to 2268 kg) Cars in group can have different capacities |
| Travel | Up to 60’-0” (18288 mm) |



Ask your TK Elevator representative about our Advantage Packages, designed to make the modernization process as quick and convenient as possible for you and your tenants.

Available fixture upgrades:



Traditional push button with white illumination (blue or red available)



Vandal-resistant, flat, California-compliant push button in stainless steel with red illumination (white and blue also available)



Vandal-resistant, convex stainless steel push button with illuminating blue halo (white and red also available)




Vandal-resistant, concave, California-compliant push button in stainless steel with illuminating red jewel center (white and blue also available)



- A** Car operating panel
- B** Push button options
- C** Terminal and intermediate hall station, fire service and appendix H / O signage
- D** Horizontal hall lantern (arrows)
- E** Vertical hall lantern (arrows)
- F** Combo hall lantern / position indicator

MAX PREVENTS ELEVATOR DOWNTIME.





With an H-Power SL modernization, you'll get MAX. It's our cloud-based predictive maintenance solution

Like a 24/7 digital partner, MAX continuously collects data about your elevator's components and systems, and sends it to the cloud. The data is analyzed, and algorithms determine when your elevator will require maintenance from our technicians.

We call this predictive maintenance. It's revolutionary and can reduce your elevator downtime by up to 50 percent.

In the near future, we'll also be introducing digital subscription packages that let you use MAX to enhance your elevator service agreement and better manage your building.



TK Elevator Corporation
788 Circle 75 Parkway SE
Suite 500
Atlanta, GA 30339
P: +1 844 427 5461
www.tkelevator.com/us

TK Elevator (Canada) Limited
2075 Kennedy Rd., Suite 600,
Scarborough, ON M1T 3V3
P: 416 291 2000
www.tkelevator.com/ca



All illustrations and specifications are based on information in effect at time of publication approval.
TK Elevator reserves the right to change specifications or design and to discontinue items without prior notice or obligation.
© 2024 TK Elevator Corporation. © 2024 TK Elevator (Canada) Limited. CA License #C11-651371 | 27057-1 | H-Power SL mod brochure