Fujitec Royal Superdyne

Royal Superdyne Motor Circuit Repair & Replacement Package

Fujitec's Royal Superdyne Motor Circuit Repair & Replacement package is a proactive approach to problem-solving. This is an innovative alternative to having to endure a full tear-out modernization. Fujitec is the only elevator manufacturer in the industry that is capable of handling this type of job.

The Royal Superdyne Motor Circuit Repair & Replacement package includes:

- Motor control upgrade and replacement
- Dual motor-winding operation upgrade and replacement
- New advanced inverter elevator duty motor

What's retained?

- Controller cabinets
- Motion and operation controls
- Logic and safety circuits

What's new?

- Control drive interface circuit
- AC Motor
- Inverter

All designed by Fujitec, the original OEM. This replacement has been thoroughly tested and implemented on operating elevators and has achieved results of improved overall efficiency and performance that will not break the bank.





How do you know you need this type of repair?

- The original controller robust design together with proper maintenance means many years of equipment value remain in the controllers and wiring system.
- During elevator acceleration and leveling, very high levels of current are drawn from the AC line due to the nature of the original motor control technology of about 30 years ago.
- The motors are showing signs of wear.

How it works.

- Retain existing controller cabinets.
- Minimum additional external wiring required.
- Repair the controllers by replacing the variable voltage electronics with a modern, state-of-the-art variable voltage variable frequency AC drive system.
- Provide new factory pre-built interface circuits and install in the original controller cabinet.
- Supply a new inverter duty motor and encoder.
- The drive system components are equivalent to those used today in the Fujitec product line.

We truly value safety.

Guaranteed Fujitec OEM Design Integrity

- This is an OEM product upgrade jointly designed by Fujitec engineers in the U.S. and Japan.
- We have thoroughly vetted the interface circuit for safety of the elevator control system.
- We will upgrade the control circuit in order to reduce the maximum out-of-level condition with the doors open (less chance of tripping hazard).

Making our competition green with envy.

No other elevator manufacturer can do this type of repair and replacement. Only Fujitec. The results:

- A 50% reduction in power consumption per elevator (The energy required to operate the elevator system is reduced due to a more efficient motor and drive).
- Increased efficiency of the controller drive system results in longevity of the controller and motor.
- Less building energy is required.
- A 30% reduction in audible noise.
- Substantial reduction in motor room audible noise due to decreased peak current levels.
- Decrease in heat dissipation from motor (by 30%), which allows the motor room HVAC cooling requirements to decrease.

Benefits - what's in it for me?

- Extend the life of the original installation. Realize the maximum value of the elevator control system.
- Minimal inconvenience for tenants versus a complete tear-out modernization.
- Fast turn-around time [we focus on the essentials and get the job done quickly and efficiently!].
- Receive the benefits of current technology motor control and upgrade to new inverter duty motors.
- Greatly improve energy efficiency of motor drive system.
- Eliminate worry of extended out-of-service time while waiting for repaired motors.
- Fujitec design integrity, safety and OEM service!

our solution saves you time and money

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case study

Block 5 Seattle, Washington

Scope

- Three Royal Superdyne cars at: 350 fpm at 3000 lbs, 9 stops, 26 kw motors
- 24-year-old equipment
- New motors were provided as part of the repair work

Performance results

- Power consumption was reduced by 50%
- An overall 70% reduction in main power line peak current
- Over 30% reduction in audible noise
- Motor surface temperature reduced by 30%
- Improved job site reliability
- Enhanced ride quality
- Improved stopping accuracy

proven results

power consumption reduced by 50%



process

jobsite work sequence

1.

The first elevator will be out-of-service approximately two weeks.

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Then, the new inverter duty motor will be installed and then the complete final adjustment will be made.

2.

Next, the replacement components will be installed in the controller and confirmed for the effect of the drive conversion on the existing motors. Finally, the inspector will review and approve (IF NECESSARY).

**Remaining cars out-of-service interval is approximately one week each.

serving you across the continent

Fujitec North America, a leading manufacturer of elevator, elevator and moving walk systems, began its operations in 1977 and now includes about 20 sales and service offices throughout the United States and Canada. Its parent company, Fujitec Co., Ltd, was founded in Osaka, Japan in 1948. Fujitec's worldwide organization includes 11 manufacturing facilities, four research & development centers and numerous sales offices located all around the world.

Fujitec North America Locations:

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Chicago	Dayton	New York	Tampa	

Fujitec America, Inc. Certified Maintenance Provider: Centric Elevator Corporation (Denver, Portland, Phoenix)

> For further information regarding Fujitec's Royal Superdyne Package or any other products, please contact:

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Superdyne Repair & Replacement Package

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