

## Motion 4000 ACPM Mod Package

### Go Green! Save Big on Geared Machine Replacement Package

MCE and Imperial Electric have joined together to offer a green modernization solution — with a significant “family” discount — for 1:1 geared machine replacement applications.

Our **Go Green/Save Green** package features a Motion 4000 AC Traction Controller from MCE and a 525-LS ACPM machine from Imperial Electric. The combination of these highly efficient, state-of-the-art products will provide an extremely cost effective modernization solution for existing low speed 1:1 geared applications.

Saving money on quality products is always a bonus, but that’s just the beginning of the green benefits you receive with our Motion 4000 ACPM Mod Package. In tests where we replaced traditional, geared AC machines with gearless AC Permanent Magnet machines we found many significant environmental benefits, including the following:

- **Power consumption reduced 24%**  
(10.33 kWh per day vs. 13.50 kWh per day)
- **Heat impact reduced 17%**  
(34.2° C vs. 41.0° C)
- **Noise impact reduced 22%**  
(57.45 dB vs. 72.00 dB)

Combined with an optional regenerative drive on the Motion 4000, our family product solution can return regenerative power to the building utility system. This feature is just another benefit of the “green” design philosophy practiced by MCE and Imperial Electric.

Contact your MCE Sales Representative today to learn about our **Go Green/Save Green** modernization package.



[www.mceinc.com](http://www.mceinc.com)

800.444.7442  
916.463.9200

**MCE**  
**Motion Control Engineering®**  
A Kinetek Company®

The leader in non-proprietary controllers, technical services and repair solutions for elevator modernization.

  
**Imperial Electric®**  
A Kinetek Company®

# Motion 4000 ACPM Mod Package



**Motion 4000**

## Benefits

- Absolute position/distance feedback
- Low- and mid-rise applications
- Up to 450 fpm, 32 stops, simplex/duplex/groups to 6 cars
- No leveling magnets, slowdown, or emergency terminal switches needed
- Simple installation, adjustment, and maintenance
- Minimal traveler and hoistway cable wire counts; minimal compensation requirement
- Universal I/O with built-in protection

## Features

- Full distance feedback
- Serial COP (optional)
- Universal I/O (24 to 120V AC or DC)
- Serial PI and voice annunciation interface available
- Onboard event log
- Compatible with iMonitor, iReport, iLobby, BMS Link or IDS (upon request)

## Benefits

- AC permanent magnet machine
- Universal machine base for right- or left-hand installation
- The hardware package includes: bolts, nuts, and washers to connect ACPM machine to machine base, - to isolation pads, - to blocking beams. Sheave and rope guard connectors are also included.
- ACPM machine includes:
  - Drive sheave
  - Dual brake system - meets A17.1 requirements
  - Encoder
  - Machine base
  - Isolation pads
  - Blocking beams
  - Rope retainer
  - Sheave guard

## Features

- No rope brake required
- Green - no oil or lubricants
- Energy efficient
- Compact & easy to install
- Precise acceleration, deceleration, and contract speed control
- Low noise
- Cooler operation
- Easily disassembled
- 3830 pounds assembled for the 525-LS



**Imperial 525-LS**



**Imperial Electric®**

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## ACPM Product Offering

Machine	Capacity	Feet per minute (FPM) / Revolutions per minute (RPM)						
		100/19	200/38	250/48	300/57	350/67	400/76	450/86
478-LS*	1000	100/19	200/38	250/48	300/57	350/67	400/76	450/86
478-LS*	1500							
525-LS	2000	100/16	200/31	250/38	300/46	350/53	400/61	450/69
525-LS	2500							
525-LS	3000							

\*478-LS up to 20" drive sheave with 1/2" ropes only.

525-LS up to 25" drive sheave for 5/8" or 1/2" ropes.

Specifications at 45% counterweight. Consult MCE for other ratings.



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