



# Electric Brakes for Elevator Modernization

Founded in 1905, The Hilliard Corporation has evolved from a single product business into a special applications engineering company serving customers worldwide. We offer a broad line of motion control products, starters for industrial engines, gas turbines, filter cartridges, oil filtration, and reclaiming equipment used in a variety of industries, all manufactured in Elmira, New York.

Hilliard offers its customers two styles of spring-applied, electromagnetically-released brakes that can be easily fitted to "A" frame elevator drives. These brakes are designed to apply when unintended travel of a car occurs. Hilliard offers a friction disc plate-style brake that attaches to the drive shaft of the sheave and a caliper-style disc brake that actuates on a disc attached to the sheave or shaft. These brakes are an alternative to a rope-grabbing brake when performing a modernization job which requires lifting, moving a drive or necessitates extra construction to the elevator. Hilliard offers particular models of these two styles of brakes that meet CSA approval.

## Friction Disc Plate-Style Brakes

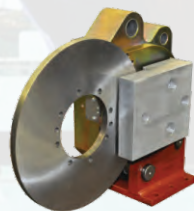
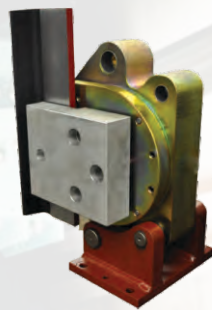
Designed for maximum flexibility and long, dependable service, our electric brake is electromagnetically-released when voltage is applied and spring-applied when current is interrupted.



## MK Caliper-Style Disc / Rail Brakes

Our powerful floating caliper design can be used on conventional disc or rail applications. The compact spring-applied design provides easy installation and maintenance. The spring force and air gap can be adjusted to match torque requirements.

The patented Hilliard MK Brake is designed for use on elevators, conveyors, cranes, or other devices requiring a spring-applied, electromagnetically-released brake. The brake incorporates an electromagnetic coil that uses a voltage dropping circuit to minimize current draw and heat when the brake is released.



## Modernization and Reduces Labor Cost

# Hilliard Brake Systems offers Portable CMM assessment for Modernization

## Portable Coordinate Measuring Machine **Capabilities & Applications**

### Precision and Accuracy

The portable CMM ensures precise measurements with high accuracy. This is crucial for industries where precision is paramount, such as elevator modernization.

### Versatility

The portable CMM is extremely versatile throughout the entire modernization process. Whether it's reverse engineering or alignment, the CMM can be used to satisfy a variety of customer requests.

### Portability

Unlike traditional CMM machines, the portable CMM offers unmatched portability, allowing precise measurements directly on the shop floor or in the field, eliminating the need for part transportation and minimizing downtime.

### Hands-on

Hilliard can access real-time measurement data instantly with the portable CMM in the field, ensuring immediate visibility and actionable insights directly from the field, enhancing efficiency and decision-making on site.

### Efficiency

Utilizing portable CMM data, engineers can expedite part delivery by swiftly translating precise measurements into actionable production parts, ensuring rapid turnaround times without sacrificing accuracy.

### Streamline installation with accurate data collection.

All Hilliard Products are Made in Elmira, NY



# Hilliard

*A World Leader in Motion Control & Filtration Technology*

### Shafts and Bearings

Measure shafts for alignment and bearing surfaces for precise fit. Obtain detailed CAD files of shaft and component dimensions.

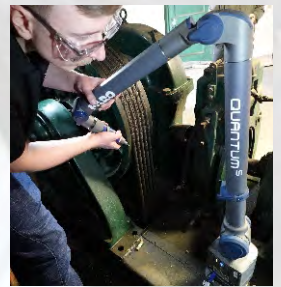
### Control Systems

Measure control panels and mounting brackets for proper alignment and installation.

### Motor and Drive Systems

Measure motor mounts and drive components for efficiency and reliability.

Measure motor mounts and drive components for efficiency and reliability. Using the portable CMM for these measurements ensures accurate data collection, which is crucial for both elevator modernization projects and new brake installations to meet safety standards and operational efficiency requirements. Quantify clearances: Measure dimensions to assess part fitments for elevator shaft installation and accurately determine constraints, such as a wall near the end of a brake shaft or a component in the intended installation area.



### The Hilliard Corporation

100 West Fourth Street

Elmira, New York

14902-1504 USA

P:607.733.7121

F:607.732.8979

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

[sales@hilliardcorp.com](mailto:sales@hilliardcorp.com)

EMB-1

Visit [www.hilliardcorp.com](http://www.hilliardcorp.com) for more information on all of our products.