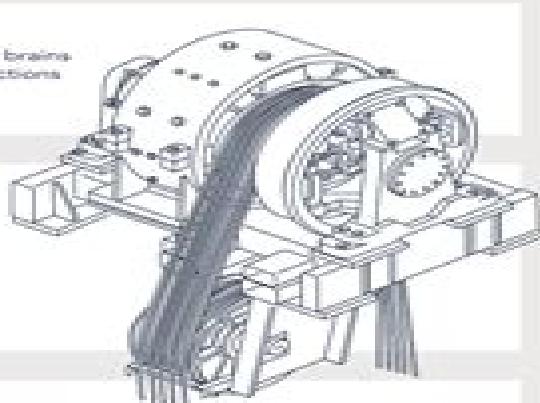


The Elevator Safety Chain

OTIS

1 The Controller

Microprocessor-based controllers are the brain of the system, controlling all elevator functions based on data received from multiple subsystems, components and sensors.



2 The Machine

The gearless machine consists of a motor, traction sheave and brake. The sheave drives the cables attached to the elevator car and counterweights. In a geared traction machine, the drive sheave is an integral part of the motor.

3 The Brakes

Modern elevators use friction brakes: a pair of shoes that apply equal and opposite pressure to a drum, pulley or disc mounted on the motor shaft. Springs apply the brake shoes to the pulley and are lifted electrically. If power is lost, the brake applies.



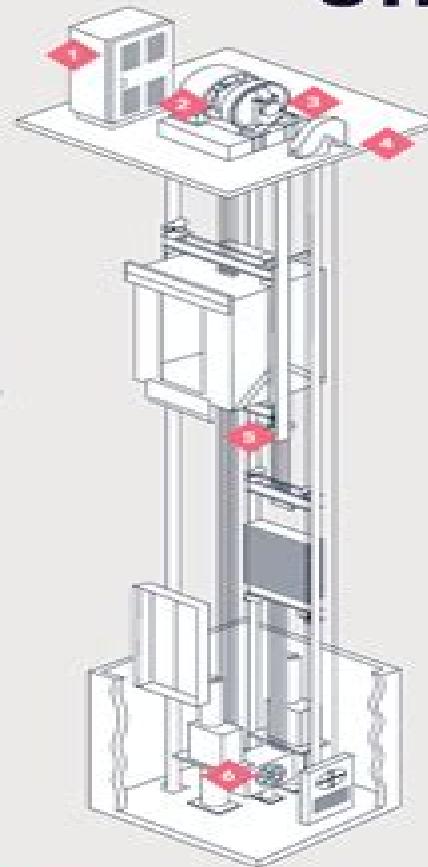
EXTERNAL DRUM



INTERNAL DRUM



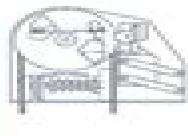
DISC TYPE



4 Governors

Governors

The governor continuously monitors car speed. If the car exceeds its maximum rated speed, flyweights inside the governor spring outward, causing the governor to initiate actions: first engaging the machine brake, then engaging the car safeties.



5 Safeties

Located on the elevator car itself, the safeties grab the hoistway rails when activated.



6 Buffer

Positioned at the bottom of the hoistway, buffers can absorb and dissipate the energy of a descending elevator.



Otis Elevator Safety Manual

Robert M. Hettema

Otis Elevator Safety Manual:

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,1927 **Manual** New York Society of Architects,1926 Materials Handling Handbook Raymond A. Kulweic,1991-01-16

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Energy-related Environment and Safety Research for FY 1977 United States Department of Energy. Environmental Impacts Division,1978 **Safety** ,1949 **Inventory of Federal Energy-related Environment and Safety Research for ...**

,1978 Best's Safety Maintenance Directory ,1964 **Maintenance Engineering Handbook** Lindley R. Higgins,Lester Coridon Morrow,1977 Generations of engineers and managers have turned to this popular handbook for expert guidance on maintenance for all types of facilities including industrial plants power generating stations refineries schools hospitals and office buildings Now revised and updated with 40% new material the Fifth Edition offers you detailed information on every aspect of maintenance engineering from new technical advances to maintaining the latest machinery You ll find practical advice from 55 specialists on the organization and management of the maintenance function establishing costs and controls maintenance of plant facilities sanitation and housekeeping maintenance of mechanical and electrical equipment and maintenance of service equipment The Fifth Edition also discusses new ways of using computers to manage maintenance procedures for machinery physical plant and fixed support service and presents all new material on lubrication instruments and vibration and chemical corrosion control and cleaning Whether you re a plant engineer facilities manager or maintenance engineer this updated handbook will give you the on the job information and skills needed to solve virtually any maintenance problem **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1954 Includes Part 1A Number 1 Books January June and Part 1B Number 1 Pamphlets Serials and Contributions to Periodicals January

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