

The Elevator Safety Chain

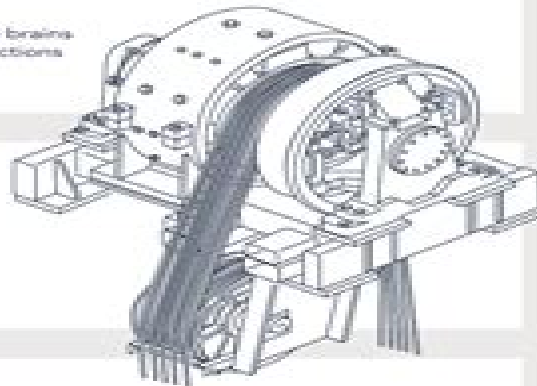
OTIS

1 The Controller

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

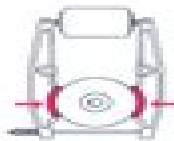
2 The Machine

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

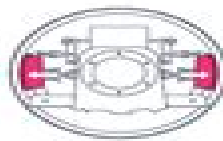


3 The Brakes

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

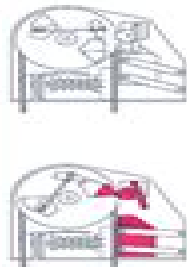


INTERNAL DRUM



DISC TYPE

4



Governors

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 action: first engaging the machine brake, then engaging the car safeties.

5

Safeties

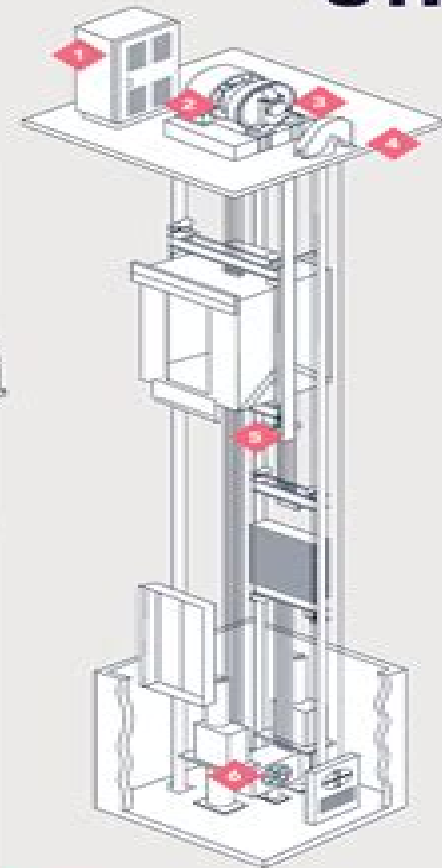
Located on the elevator car itself, the safeties grab the hoistway rails when activated.



6

Buffer

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



Otis Elevator Safety Manual

Ying Liu



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Encyclopaedia of Occupational Health and Safety Jeanne Mager Stellman, 1998 A Practical Guide to the Occupational Safety and Health Act Walter B. Connolly, Jr., Donald R. Crowell, II, 2017-11-28 A Practical Guide to Equal Employment Opportunity a comprehensive two volume set is the only EEO compliance manual you ll ever need **Manual** ,1927

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Safety Engineering ,1950 Occupational Safety & Health Cases Bureau of National Affairs (Arlington, Va.), 2005

Urban Transportation Abstracts ,1986

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sportklettern olympia 2020 in tokiro lacruX - Jan 25 2023

web tokiro 2020 geschichte von sportklettern was ist klettern das klettern ist eine moderne sportart die aus dem traditionellen felsklettern hervorgegangen ist es gibt drei

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web sie kriechen sie klettern und einige können sogar schwimmen tararlar tırmanırklar hatta bazıları yüzebilir der aufstieg wird immer brauner und bald klettern wir auf felsen

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web jul 26 2021 kletterer startet 2020 in tokiro alex megos löst olympia ticket klettern ist in tokiro 2021 erstmals bei den olympischen sommerspielen im programm eigens für

umfrage unter kletterern jährliche ausgaben 2020 statista - Jul 19 2022

web feb 22 2019 indoor climbing ist ein großer wachstumsmarkt das zeigen interne zahlen die auf ispo munich 2019 erstmals vorgestellt wurden für die künftige vermarktung des

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web Ücretsiz langenscheidt almanca türkçe sözlükte klettern teriminin çevirisi örnekler eşanlımlılar ve telaffuzla birlikte

video ergebnisse deutsche meisterschaft klettern - Feb 23 2023

web nov 21 2020 vom 21 bis 29 november findet die kletter europameisterschaft in moskau statt das besondere an diesem event auf einen herren und eine dame wartet noch ein

klettern bei olympia in tokiro alle infos alpin de - Dec 24 2022

web feb 17 2020 zu den verschiedenen kletterdisziplinen die nun auch teil der olympischen spiele sind gehören speed klettern lead klettern und bouldern somit hat das

klettern im fokus olympia 2020 climbing plus - Sep 20 2022

web dec 1 2020 hallenklettern der einstieg in die welt der vertikalen in der halle wird an griffen und strukturen aus kunststoff geklettert oder gebouldert mixed mixedklettern

olympische sommerspiele 2020 sportklettern olympische - May 29 2023

web das klettern feierte in tokiro 2020 sein fesselndes olympisches debüt mit einem kombinierten wettkampf aus speed boulder und lead klettern bei den

klettereuropameisterschaft 2020 infos und live stream - Nov 22 2022

web apr 28 2019 bei den olympischen spielen 2020 in tokiu werden erstmals kletterer dabei sein doch diese entscheidung hat in der szene nicht nur begeisterung hervorgerufen