

The smart choice

BENEFITS

- ▶ Machine room-less sleek architectural design
- ▶ Exceptionally quiet
- ▶ Smooth, reliable door system
- ▶ Smooth ride
- ▶ Energy efficient
- ▶ Regenerative drives (with duties ≥ 1150 kg)
- ▶ Expansive range of elegant quality finishes and fixtures
- ▶ Minimal interference with other building services
- ▶ Streamlined installation



Otis' Gen2™ Premier system is the elevator reimagined to its very core. The Gen2 combines the latest technologies and materials to achieve 21st century objectives: energy efficiency, environmental responsibility, passenger safety, increased usable space, time-saving installation and design flexibility.

FEATURES

Revolutionary Steel Reinforced Belts

The hallmark of the Gen2™ is its entirely original hoisting technology - lightweight, flexible reinforced steel belts, enveloped in a tough polyurethane jacket that improves traction and requires no lubrication.

These coated steel belts are quieter, 20 per cent lighter and have a life span two to three times longer than conventional ropes¹.

Yet their superior flexibility allows the belts to bend around smaller diameter sheaves, resulting in more efficient transfer of power from the machine to the car.

Flat belts also have more surface area at the point of contact, which significantly reduces noise and wear on the sheave.

Smooth and Quiet Ride

The system's features have been designed to produce a ride experience of ultimate smoothness. A digital closed-loop vector control ensures consistently smooth acceleration and deceleration.

The polyurethane-coated belts eliminate the metal-to-metal effect of conventional ropes against the sheave.

Smooth and Reliable Door System

The door operator's variable speed AC control is the ideal choice, combining smoothness and comfort. The digital variable frequency closed loop control provides superior performance and reliability over thousands of door opening and closing operations.

Compact and Energy-Efficient Gearless Machine

Thanks to the coated steel belts, the machine takes up only 30 per cent of the space of a conventional geared machine.

The low-inertia gearless machine with sealed-for-life bearings requires no additional oil or polluting lubricants, making it environmentally friendly to operate.

Reliability and efficiency is also enhanced by use of a maintenance-free disc brake. The Gen2 is one of the most efficient and cost-effective elevators to operate.

Clean and Efficient - A Range of Environmental Benefits

The Gen2 represents another step forward in Otis' commitment to develop environmentally-friendly products. The belts and the gearless machine - which has sealed-for-life bearings - require no oil or grease.

Synchronous permanent magnet machines with radial air gap are the most efficient motor type of gearless machine

Packaging is constructed of recyclable material. And the Gen2 manufacturing facility is ISO 14001 - certified for environmental production methods.

Regenerative drives

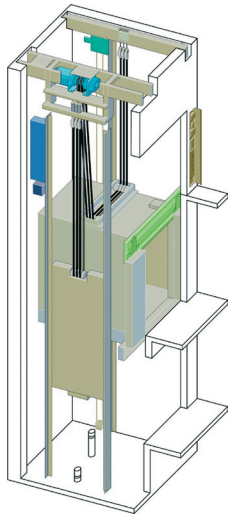
Regenerative drives² can be also installed to reduce overall energy demand by up to 70%. The Otis regenerative drive works by converting dissipated heat as energy and feed it back into the building internal electricity utility where it can be used by other applications connected to the same network. See 'Regenerative Drives' factsheet for more details.

Quality Finishes and Fixtures

The Gen2™ Premier features the Otis2000 fixture range as its standard option. Customers can choose from a wide range of quality fixtures and elevator finishes. Please see the 'Otis2000 Fixtures' and 'Gen2Aesthetics' fact sheets for more details. See your local Sales Consultant for more details.

1. Based on Otis highly accelerated life testing

2. Regenerative drive is standard with Gen2Premier duties ≥ 1150 kg.



RSR Plus™ Dispatcher

When a hall button is pushed in a multi-car group, Otis' Relative System Response Plus (RSR Plus™) dispatcher selects the most eligible car to answer a call. It achieves this by instantly analysing a set of parameters based on response-time estimates and ideal group-control practices. The RSR Plus dispatcher reduces passenger waiting times and maximises system performance.

REM®

The REM® system - Remote Elevator Monitoring - is the most advanced of its kind for ensuring reliability. Twenty-four hours a day, the REM system continuously monitors elevator functions - detecting deteriorating components and intermittent anomalies. It provides immediate, two-way voice communication between passengers and trained Otis personnel at the OtisLine® 24-hour customer care centre.

Controller with Variable Frequency Drive

Designed for up to a five-car group, this controller uses a new generation of printed circuit boards and software that provide optimal passenger response times. The digital, closed-loop variable frequency drive, with vector control technology, further increases system efficiency and accuracy. A digital speed encoder ensures accurate car speed and

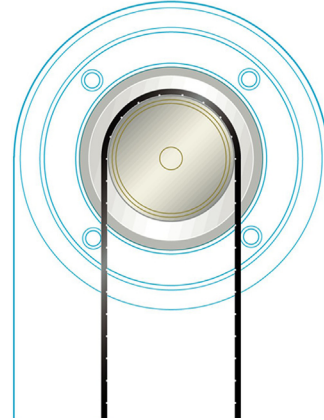
positioning. The overall result is improved system reliability and a smoother ride.

Streamlined and Efficient Installation

With all major components located inside the hoistway, the Gen2 system's streamlined installation process - standard throughout the Otis world - has minimal impact on building construction or other trades.

Safety Features

The machine's permanent magnet motor and variable frequency drive ensure extremely accurate floor levelling, independent of load. A door entrance protection immediately reopens the elevator door if an object is detected. If the car is stopped between floors, evacuation deterrents prevent passengers from exiting. Hoistway access detection prevents a lift car from operating in normal conditions after opening a lift lobby door. Emergency and inspection controls have been positioned at the landing points for swift, easy access.



Emergency and Inspection Controls

The compact, vandal-resistant Emergency and Inspection Controls cabinet is located at the lowest landing point of the Gen2. If building power fails, an Otis technician can gain control of the car from the Emergency and Inspection Controls Cabinet and guide it safely to the next landing. One panel contains all the functions needed for a trained technician to control and maintain the elevator - simply and quickly.

SPECIFICATIONS

Load capacity (kg)	630		800		1000		1150		1275		1350		1600		2000	
Passenger capacity	8		10		13		15		17		18		21		26	
Car Dimensions (mm)	Width	1100	1350	1600*	1100	1800	2000	1450	2000	1550	2000	1750	2350	1500		
	Depth	1400	1400	1400*	2100	1500	1400	2000	1550	2000	1750	2000	1700	2700		
Speed	1.0 m/s - 1.6 m/s															
Maximum rise	40 m (1.0 m/s) - 75 m (1.6 m/s)															
Maximum number of stops	14 (1.0 m/s) - 26 (1.6 m/s)															
Door Opening Width (mm)	800 / 900		900 / 1000		1000		1100		1000		1100		1100		1200 / 1300	

* Stretcher Capacity available, please add 520mm to the depth

Note: All through-car configurations are limited to a maximum of 14 hoistway entrances for duties 630-1000kg; 16 hoistway entrances for duties 1150-2000kg. Number of hoistway entrances per group not to exceed 105.