Schindler Modernization

Bringing new life to older elevators

Schindler

Schindler modernization solutions raise your existing elevators to a state-of-the-art level that fulfills the highest requirements. Ride comfort that leaves nothing to be desired, modern environmental and safety standards, high performance, individualized passenger traffic and an exciting design.

Customized solutions, individual attention

Our passion is to use our globally renowned competencies and products to supply you with the very best elevator modernization system. Whether it's a total modernization or phased approach, Schindler has the experience and products to bring your elevators up to their best performance.

Secure your investment
Confronted with the new buildings that are constantly coming onto the real-estate market, you must ensure that existing buildings can also keep pace in the competition for new tenants. For this to be possible, it is essential for your elevators to meet the latest quality standards and applicable codes.

Your exclusive benefit
The basic modernization concept is subdivided into separate individual steps with clear boundaries. This allows you to plan the scope of the modernization phases and their chronological sequence in advance, which suits your project schedule and your financial planning.

The phases may involve replacing systems such as the old control system with a new conventional or state-of-the-art destination-dispatch system, the obsolete drive system with the latest ecological technology, or the direct current motor with a more efficient AC motor, either now or in the next decade. You decide — we implement.

When green means saving and recovering energy

Reduction of the constant global growth in energy consumption is one of the biggest challenges confronting mankind today. Every day, we — as Schindler — transport more than 900 million people. So, for us, mobility is more than just our product. It is already closely linked to ecological considerations at the design stage.

Ecological performance
Schindler's policy is that all new products must have a better ecological performance than their predecessors. Only carefully selected materials are used in their manufacture. For example, the high-rise building components are largely made from recyclable materials. Recyclable metals, comprising various steel, iron and copper alloys, make up more than 85% of the total weight.

Energy-saving technology
Schindler can apply the use of innovative energy-saving technology that can markedly reduce the energy costs of a building's elevator system. For example, both our AC and DC drives are available with technology that can deliver significant energy savings. During light elevator loads on ascent or heavy loads on descent, the Power Factor 1 drive system can regenerate the energy back into the building's electric system where it can be used to power the lighting, air conditioning or other equipment. Since the drives generate less heat, additional energy savings are achieved through reductions in machine room cooling requirements.

As a global enterprise, Schindler supports a substantial research and development effort focused on bringing "greener" mobility innovations to the worldwide market.

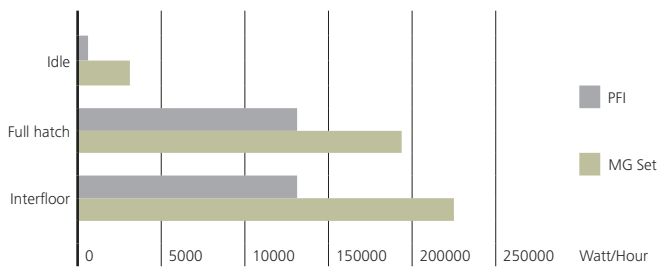
PFI saves energy up to 45% over MG technology
Energy savings example case study

Three controlled tests performed:

Test 1 = Power consumption when idle (simulate idle care for 0.5 hour)

Test 2 = Full hatch runs (simulate top to bottom runs for 1.25 hours)

Test 3 = 180 trips per hour (simulate interfloor traffic for 1.5 hours)

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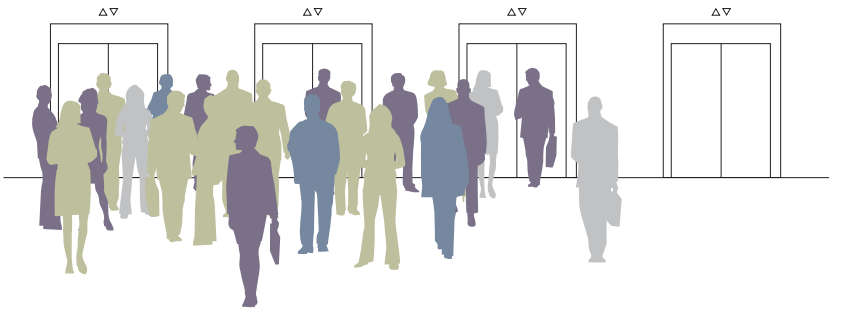
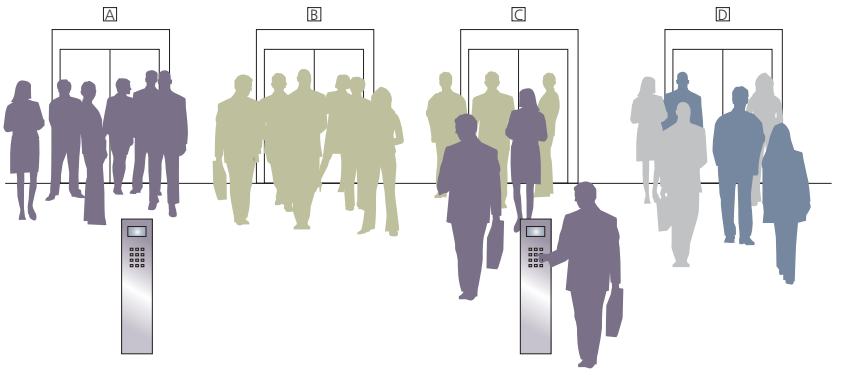
Schindler ID — the next generation destination dispatch

Conventional System



Destination Dispatch



Performance

Schindler ID is an effective, unique control system that is based on a simple principle: to transport passengers to their destinations faster, with less crowding, and with more comfort than in conventional elevator systems.

The highly sophisticated software controls a powerful logic program that systematically optimizes the traffic flow handled by the elevator. The system uses a cleverly designed algorithm to manage the complex traffic patterns that can change constantly during the day.

Access and individualization

Schindler ID allows the building to be subdivided into different zones with clearly defined access restrictions. The building manager can configure the access zones directly on-site by using the system software that is accessible on a central control station. The access restrictions are defined by individual rights, authorizations and requirements.

The terminals allow the configuration of individual needs for passengers and trips that require more room in the car, for instance, when transporting baggage or goods, shopping carts, hospital beds or hotel service carts.

While work is in progress, people keep moving … with Schindler Destination Interface

Modernization without disruption
Schindler has the experience to provide tailored solutions to any modernization project. Our unique Schindler Destination Interface (DI) modernization is capable of quickly improving a wide range of elevator performance requirements.

Schindler's Destination Interface is a product and a process that links Schindler destination dispatch technology directly to your existing elevator controller. Compatible with most brands of equipment, Schindler's Destination Interface can, with the "flip of a switch," convert your current system to the performance and efficiency improvements provided by destination dispatching.

Because it operates independently from underlying control systems, Schindler's Destination Interface is an ideal solution for older installations requiring more extensive modernization. As of result of the improved efficiency achieved with Schindler's Destination Interface, individual cars can be taken out of service for further modernization work while the remaining cars are fully operational. Passenger inconvenience is minimized.

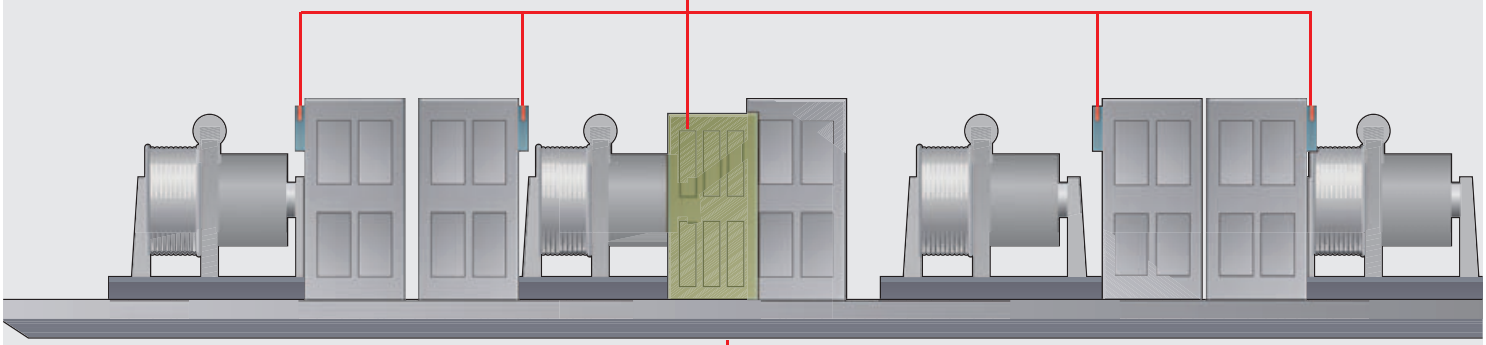
Destination Interface is available with Schindler ID and Schindler's newest, third-generation PORT Technology. Buildings around the world are experiencing the proven benefits of Schindler Destination Interface modernization.

Post modernization

Machine room

Schindler ID
main controller

Schindler's Destination Interface added
to existing elevator controller



Lobby and intermediate floors

LON bus

Schindler ID pedestal terminal

Schindler ID surface-mounted terminals

Elevator cars

Inside car
door jamb indicator
connected

Existing car operating panel covered

Building management system

Card
reader

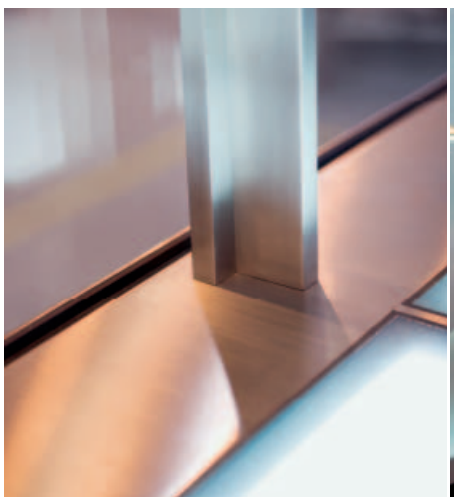
From outstanding impressions to fascinating designs

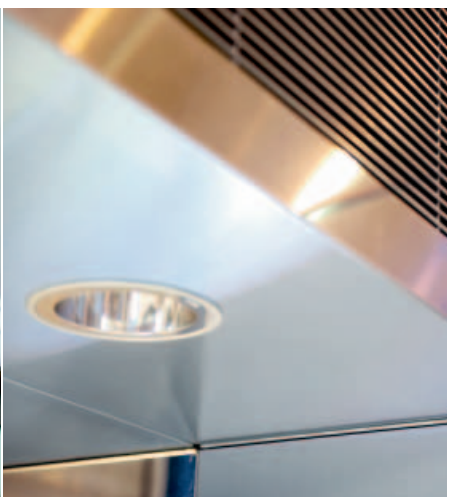
Elevators are conspicuous architectural elements. The feeling of modern design and attractive materials adds to the pleasure of the ride. Elegant ambiance puts passengers at ease and leaves positive impressions.

State-of-the-art technology and up-to-the-minute design
Modernization by Schindler turns your elevators into architectural gems. All Schindler operating and display elements are characterized by a clear, modern design. The very latest materials and technologies are used in our keypads and touch screens. Stylish elements can also be used for in-car information. A choice of coating technologies allows individual parts to be matched to the architectural environment of the building and its elevators.

Unrestrained creative freedom
With a Schindler modernization, all design options are open to you. The operating and display elements, cars, doors and door frames can all be adapted to your individual design wishes.

Create your own elevator design — we will be delighted to implement it for you.






Welcome
to Schindler
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ULTIMATE
BUILDING
DESIGN

Adaptable, cost-effective performance enhancements

Schindler Miconic® TX traction elevator control modernization

Miconic® TX delivers unbeatable traffic handling in mid- and high-rise buildings with groups of up to 8 cars. It is ideally suited to residential buildings, offices and hotels. Miconic TX employs a very refined algorithm, and its "cost of service" strategy minimizes both waiting and travel time for all passengers. Miconic TX is available with a broad range of custom-tailored enhancements, including Schindler LobbyVision®, which permits the owner to place cars in or out of service, select secure floors and define regular printouts of elevator performance data. Miconic TX can also be provided with Variodyn® ACVF or solid-state SCR DC drives. A Miconic TX upgrade can provide:

– Very low average waiting times
– High system redundancy, so the group control still functions if one car is switched out
– Smooth changeover between normal traffic mode and up or down peak
– Adaptive distribution of free cars
– Adjustable full-load bypass
– Anti-nuisance car-call cancellation
– Superior ride comfort resulting from a fully digital interface with the drive
– Retention of older car and hall fixtures
– Schindler Remote Monitoring™ (SRM).

Schindler Miconic® HXpress hydraulic elevator control modernization

The Schindler Miconic® HXpress hydraulic control system modernization lets you bring all the advantages of microprocessor technology to your older hydraulic elevators. By replacing key components of your elevators with all-new, state-of-the-art systems, the Schindler Miconic HXpress modernization can actually make your elevators perform even better than when they were new — which can help increase tenant satisfaction. With a Schindler Miconic HXpress modernization, you can expect:

– Enhanced ride quality
– Quieter operation
– More efficient dispatching for shorter wait times
– More consistent car leveling for improved safety
– Increased reliability
– Fewer unscheduled service calls
– More advanced optional features.

Opening doors to improved performance

Door operation enhancements
Proper door operation is essential to maintaining elevator passenger satisfaction and safety. Schindler has a number of solutions to help ensure that your elevator doors perform smoothly, reliably and safely.

Schindler Varidor 50A door operators
The Varidor 50A has been developed to address the critical door operation function. The Varidor 50A door operator is a linear belt design that is optimized for modernization. It offers smooth, quiet performance provided through a digital, closed-loop servo control. As an added benefit, the Schindler V50A is a complete package, including new door tracks and hangers as well as new door panels.

Schindler IDD door upgrade kit
Schindler also offers an upgrade kit to the existing door operator. This can be a more cost-effective approach than a full door operator replacement. If major mechanical components are still in good working condition, the Schindler IDD door operator upgrade kit can be applied to transform an older, limited-performance door control technology into a modern, reliable, digital closed-loop door operator system.

Safer and more efficient operation
Either of these solutions mean your upgraded door operators will:
- Open and close car doors at precise and consistent speeds
- Control the "stack" effect resulting from strong air currents in elevator hoistways
- Close doors smoothly and safely with code-compliant force adjusted to the door's weight.

Ever greener

Keeping the environment in mind
Schindler can help owners, architects and construction managers by:

- Providing detailed information when registering for U.S. Green Building Council's LEED® certification programs
- Working hand-in-hand to meet applicable LEED requirements
- Helping reduce a building's on-site energy consumption and the carbon footprint.

Our sustainability initiatives can help extend the life of your older equipment through the integration of newer technologies. Examples include our industry-leading destination-dispatch system and regenerative drive technology that can help you achieve notable improvements in traffic handling and reductions in energy consumption.

For any questions related to Schindler's environmental initiatives or for specific project LEED certification, your Schindler Environmental Affairs Department and LEED Certified Professionals are available to support you.

LEED is a registered trademark of the U.S. Green Building Council.

Buy America
Schindler Elevator Corporation is proud to be able to offer products that meet the Buy America standards. With elevator and component manufacturing in Gettysburg, Pennsylvania, and escalator, escalator steps and moving walk manufacturing in Clinton, North Carolina, Schindler is one of the few elevator companies with most of its manufacturing facilities remaining in the United States. In addition to being produced by American workers, Schindler products are manufactured in ISO 14001:2004 and ISO 9001:2000 certified plants.

For further information, including location of the Schindler office nearest you, please visit:
www.us.schindler.com

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Schindler is a member organization of the U.S. Green Building Council.

Schindler has received renewal to ISO 14001:2004 and ISO 9001:2000 certificates.

Schindler prints with vegetable-based ink on paper containing post-consumer waste fiber.

Mixed Sources
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