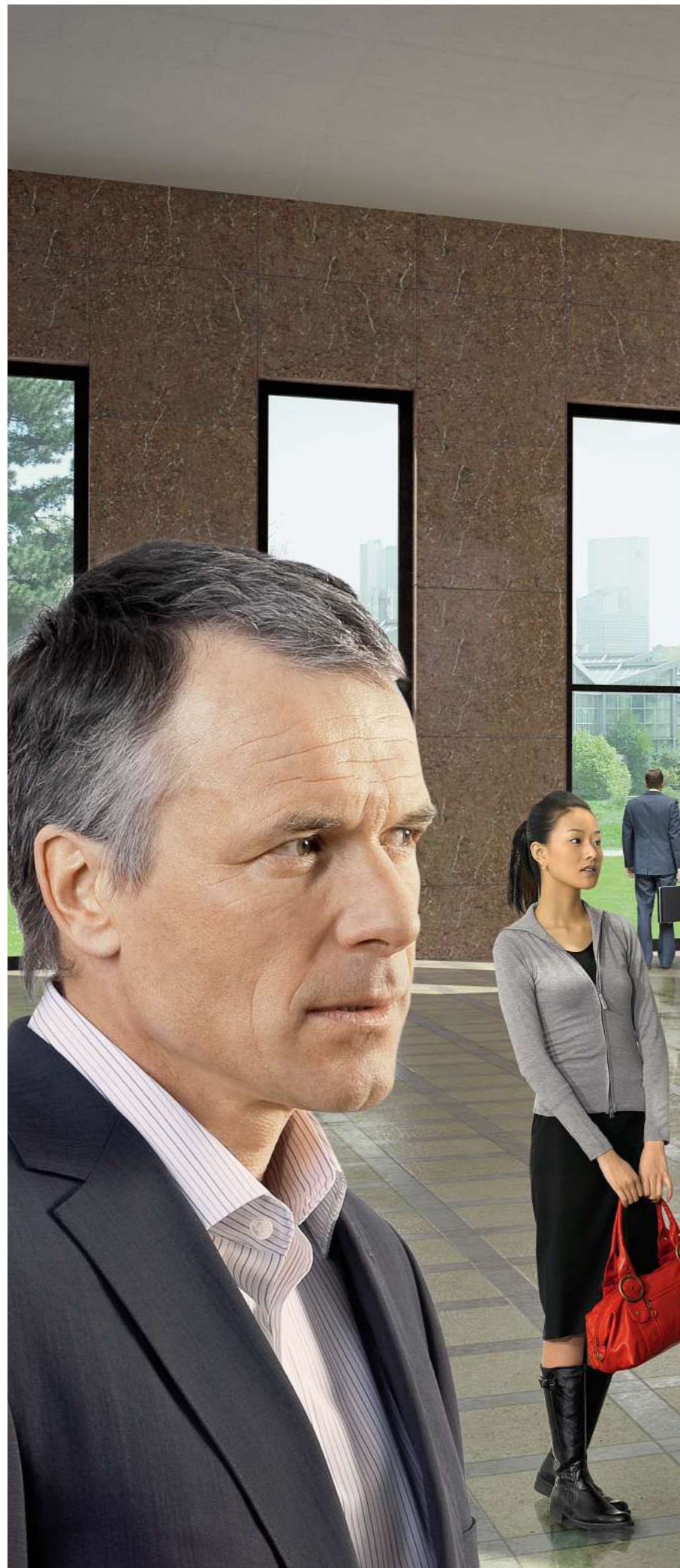




High-rise elevators  
Schindler modernization.



**Schindler**



# When the time is right. Start your modernization.

Capacity shortages, long waiting times, high energy consumption – time to think about modernizing the elevators. Regardless of whether you decide to have a complete replacement or a partial modernization, Schindler helps you develop a customized modernization concept for your high-rise elevators and supports you according to your needs.

State-of-the-art technology.  
We show you the way.

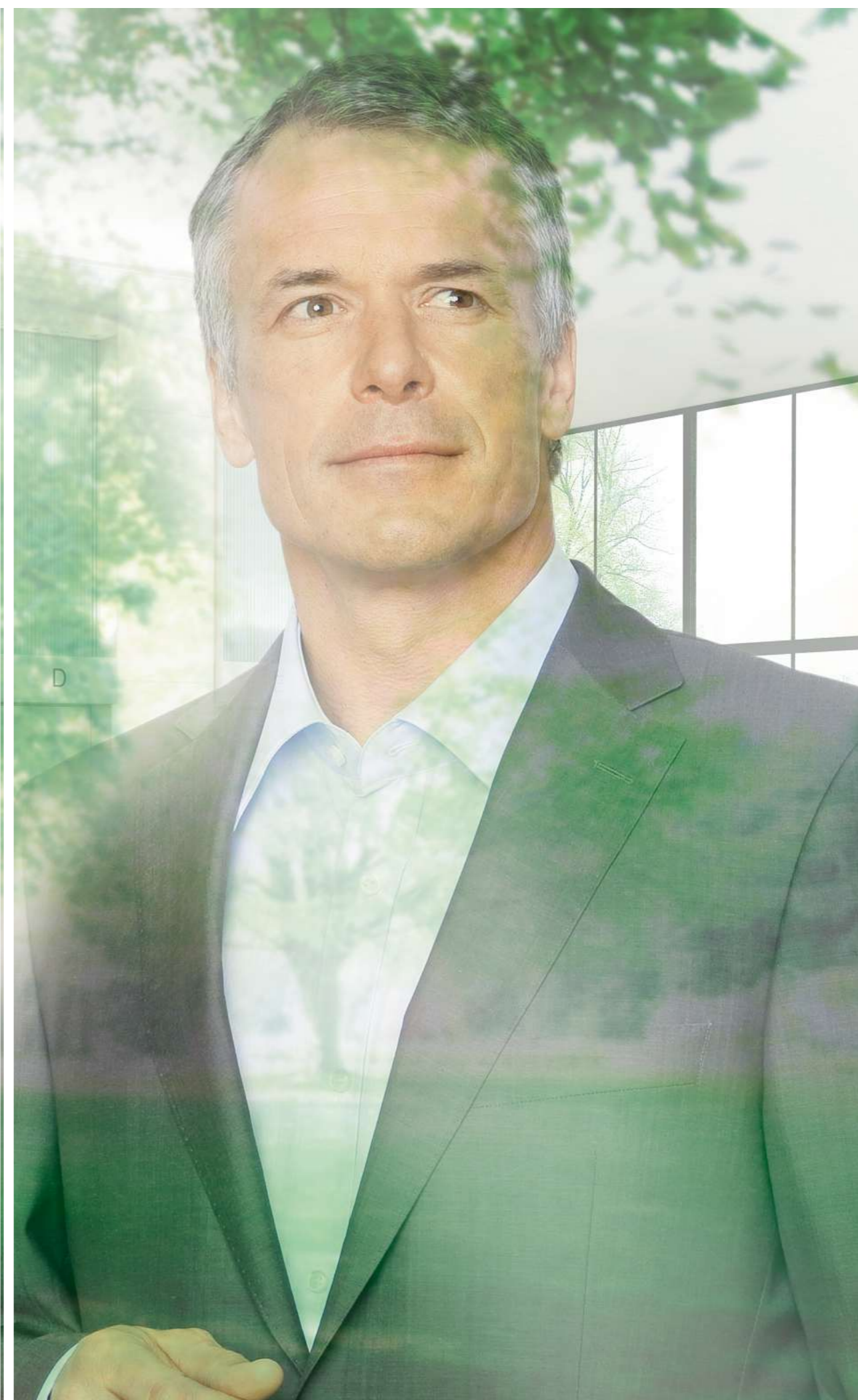


Schindler modernization solutions raise your existing high-rise elevators to a state-of-the-art level that fulfills the highest requirements. Ride comfort that leaves nothing to be desired, modern environmental and safety standards, high performance, individualized passenger traffic, and an exciting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



# Everybody talks green. We act green.

Mobility begins in the mind – so does ecology. At Schindler, all products and processes are carefully designed and analyzed with regard to ecological aspects. And not only that: We are also strongly committed to continuously further reducing the environmental burdens that result from our business activity. Optimize the life-cycle eco-balance of your building now.





## Step-by-step modernization. Customized solutions.

The Schindler modernization process takes place in several phases. Our experts perform a careful analysis of the existing high-rise building systems and prepare a modernization plan, which perfectly matches your requirements – step by step.

### **Secure your investment**

Confronted with the new buildings that are constantly coming onto the real-estate market, you must ensure that already existing buildings can also keep pace in the competition for new tenants. For this to be possible, it is essential for your elevators to fulfill 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 the old control system with the new Traffic Management System, or the obsolete drive system with the latest ecological technology, or the direct current machine either now or in the next decade. You decide – we implement.

# While work is in progress. People move without traffic jams.

Our passion is to use our globally renowned competencies and products to supply you with the very best elevator modernization system. Whether your existing elevators were made by Schindler or not, we have the products and know-how to bring them up to a state-of-the-art quality level.

## Modernization without disruption

No matter what your goals are, Schindler has the experience and the appropriate modernization solution. Unique in the elevator industry is the phased modernization with Schindler MOD Overlay. The modernization is subdivided into individual steps, without interrupting operation, and with minimal effects on the elevator users. Maximum performance – minimum inconvenience.

## MOD Overlay – the unique modernization platform

Schindler MOD Overlay noticeably increases the performance of an existing elevator group. Use of this innovative technology is also independent of the type of the underlying control system. This means that MOD Overlay with all its benefits can be installed in your existing system before the main part of the modernization work starts.

MOD Overlay immediately improves the entire system. Individual elevators of the elevator group can be isolated for the modernization work to be carried out – without reducing the performance of the overall system. After completion of each elevator modernization, the elevator is seamlessly reintegrated into the group and the next one can be isolated and upgraded. All of this happens without inconveniencing the passengers at any time.

Schindler MOD Overlay – its proven technology is already in use in many installations worldwide.



# When green means 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.

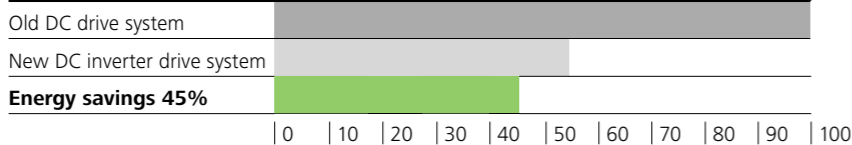
**Ecological performance**

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. So the high-rise building components are largely made from recyclable metals. Recyclable materials, comprising various steel, iron and copper alloys, make up more than 85% of the total weight.

**Energy saving technology**

Schindler components are downwardly compatible. They therefore allow the use of innovative, energy saving elevator technology. The energy costs of a building can be markedly and sustainably reduced. For both AC and DC drive systems, we use technology that allows energy to be returned to the power supply network. For us, this goes without saying. We see it as our contribution to improving environmental compatibility.

**Typical energy requirement of DC drive systems in % [kWh]**



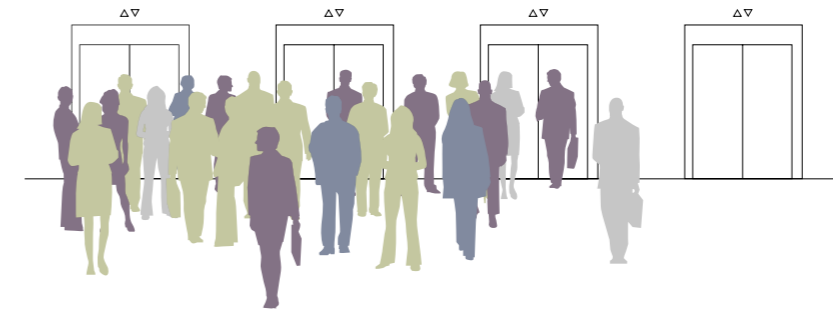
Note: Group of four elevators in which the recovered energy is used for the other elevators within the group.



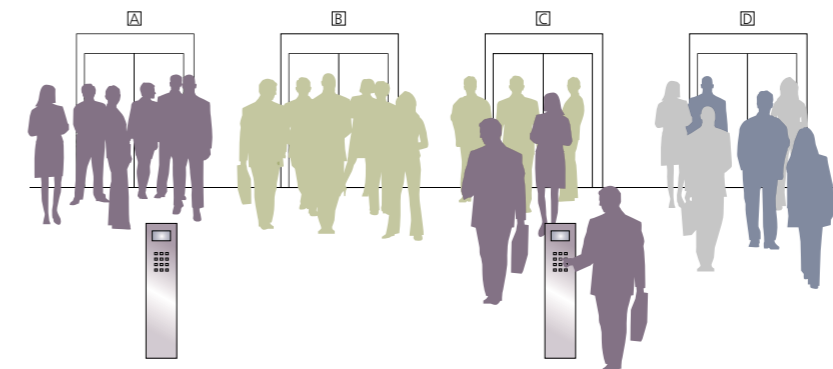


# Traffic Management. Another step ahead.

Conventional System



Traffic Management System



### Performance

Schindler Traffic Management System is an effective, unique control system which is based on a simple basic principle: To transport passengers to their destinations faster, less crowded, 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 which can constantly change during the day.

### Access and individualization

Our Traffic Management System 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. To do so, he uses 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.



# 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 high-rise elevators into an architectural gem. All Schindler operating and display elements are characterized by a clear, modern design. The very latest materials and technologies are used in our keypads, glass panels, and touch screens. Contemporarily styled 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 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 shall be delighted to implement it for you.



# Renewed. For future generations.

Let the Schindler modernization experts support and guide you safely through the project. You will receive competent, all-round advice on the optimal procedure and timing for modernizing your elevators. The Schindler modernization team has the technical know-how and years of experience that it needs to find the best solution for you and your building. We know your elevator system and can therefore

propose the most suitable approach to the project: Exchange of individual components or accessories, package solutions, or a complete replacement. Modernize your elevators with Schindler und make your building an icon of the city again.

Schindler modernization – with us as your partner you are another step ahead.



**Jardine House, Hong Kong, China**

Office building, height: 179 m

Replacement of existing third party installation

- New Schindler products:
- MOD Overlay
  - Controller incl. fixtures and indicators
  - Door drive
  - DC frequency converter
  - DC gearless machine retained



**Millenia Tower, Singapore, Singapore**

Office building, height: 223 m

Modernization of existing Schindler installation

- New Schindler products:
- MOD Overlay on existing controller (interfacing to third party security system)
  - Fixtures and indicators
  - Door drive
  - Card reader system
  - DC gearless machine retained



**Parque Reforma, Mexico City, Mexico**

Office building, height: 91 m

Modernization of existing Schindler installation

- New Schindler products:
- Miconic 10 Overlay on existing controller
  - DC gearless machine retained

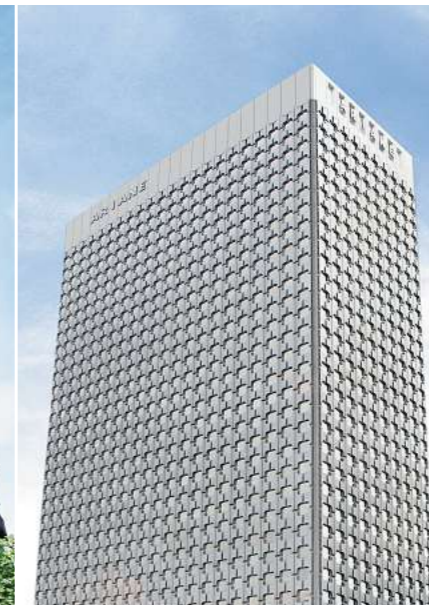


**60 Margaret Street, Sydney, Australia**

Office building, height: 140 m

Replacement of existing third party installation

- New Schindler products:
- MOD Overlay
  - Controller incl. fixtures and indicators
  - DC frequency converter
  - DC gearless machine retained



**Tour Ariane, Paris, France**

Office building, height: 151 m

Replacement of existing third party installation

- New Schindler products:
- MOD Overlay
  - Controller incl. fixtures and indicators
  - Card reader system
  - AC gearless machine



**ABSA Tower, Pretoria, South Africa**

Office building, height: 132 m

Modernization of existing Schindler installation

- New Schindler products:
- Controller incl. fixtures and indicators
  - AC gearless machine

A partnership  
which takes you to the top.

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