

Dedicated to People Flow™



FOR BETTER BUSINESS FLOW IN OFFICE BUILDINGS

KONE C-series elevators



KONE provides innovative and eco-efficient solutions for elevators, escalators and automatic building doors. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernization. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life-cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace® KONE MaxiSpace™, and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as the Trump Tower in Chicago, the 30 St Mary Axe building in London, the Schiphol Airport in Amsterdam and the Beijing National Grand Theatre in China.

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HIGHLIGHTS

Eco-efficient™ solutions

We have taken the eco-efficiency of office elevators to a whole new level to decrease the total cost of ownership and to minimize the environmental impact. Read more on page 6.

Design

New signalization, new ceilings and new energy-efficient lighting solutions give your elevator a whole new look. Read more on page 8.

Better People Flow™

KONE C-series elevators can be fitted with a host of options to increase performance and convenience. Read more on page 20.

KONE C-series elevator solutions

KONE C-series elevators meet the most diverse people flow requirements in office buildings. The KONE C-series simplifies your choice and speeds up the entire delivery process, from effective people flow planning, to attractive visual design, to options that fine-tune the complete elevator.

Fast choice. Fast elevators

It's not only the selection that's fast. The KONE C-series elevators run at up to 4 meters per second, making them ideal for commercial buildings up to 63 floors.

Eco- and space efficiency

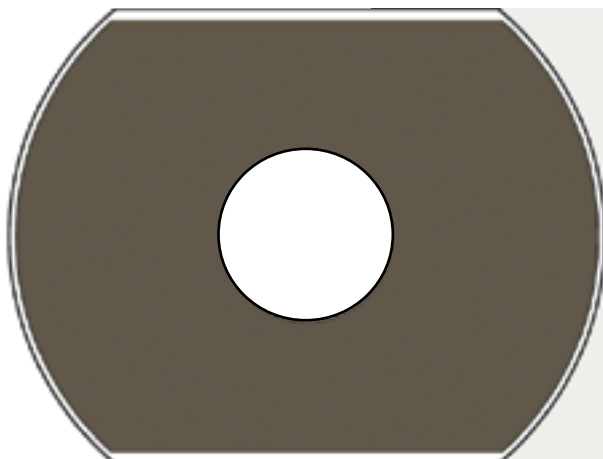
KONE C-series elevators are built on two hoisting platforms: the machine-room-less KONE MonoSpace® and the KONE MiniSpace™, with a small machine room. The heart of both platforms is the KONE EcoDisc®, which saves both space and energy.

KONE Design collection – a whole new look

The KONE Design collection is a global design concept that creates a harmonious set of elevator interiors that match any architectural context. Choose from the KONE Design collection, or mix and match the components to create countless design possibilities. With the Executive option you can choose your own materials for a perfect match with your lobby and landings.

Optimize the functionality

To optimize the functionality, the KONE C-series offers several options for energy-efficiency, accessibility, security and traffic handling.



A complete information package about KONE C-series elevators

On this CD you have all of the relevant information you need when specifying KONE C-series elevators. You can also download this information package at www.kone.xx/c_infopack

Choose your KONE office solution

It takes a lot of experience to make elevator selection this fast and flexible. Start with your building's specifications and people flow requirements to select the platform. Choose the interior design that creates the ideal ambiance for your building. Then select additional options to suit the specific requirements of your building.

Capacity

Step 1 The right office elevator solution is defined by your building specifications and transportation needs. These define the group size and elevator platform together with the capacity of the elevators.



Interior

Step 2 To meet the design standards of office buildings, KONE offers a wide range of KONE Design collection interiors to provide the best possible solution for any building or budget.



Options and accessories

Step 3 Options and accessories are used to optimize the system to support application-specific needs and maximize performance. You can refine the selection with accessory packs such as Accessibility, Eco-efficiency or Security.

The KONE C-series can be built to comply with the European standard EN81-70 relating to disabled access and can additionally be specified to comply with fire-related standards EN81-72 and EN81-73.





The KONE C5 is a cost-effective and reliable solution for low- to mid-rise office buildings with moderate traffic intensity. The KONE C7 is a mid-range model with lots of options so you can tailor it for your specific requirements. The KONE C9 offers luxurious designs and top performance to fulfill the most demanding requirements of aesthetics and functionality.

SYSTEM SPECIFICATION	C5	C7		C9	
Hoisting platform	KONE MonoSpace	KONE MonoSpace Special	KONE MiniSpace	KONE MonoSpace Special	KONE MiniSpace
Max speed (m/s)	1.6	2.5	4.0	2.5	4.0
Load (kg)	Up to 1000	Up to 2000		Up to 2000	
Car dimensions	Standard and flexible	Standard and flexible		Standard and flexible	
Number of stops	16	24	63	36	63
Car / landing doors	Mid duty	Mid duty		Mid duty and high duty	
Travel (m)	55	90	150	90	150
Group size	4	6	8	6	8
Max. number of starts / year	200 000	400 000		400 000	

KONE Eco-efficient™ solutions

How much can you save by selecting right?

KONE C-series elevators can reduce the total energy consumption of the elevator by as much as two-thirds or even more. For example, a KONE C-series elevator, with the KONE MiniSpace™ platform and the KONE EcoDisc® drive, uses a total of about 6900 kWh of electricity a year – about half as much as a DC gearless elevator and one-third as much as a geared AC elevator. With additional energy-saving features, this energy consumption can be reduced still further.

Regenerative drive

When the car is going down with a heavy load, it contains potential energy. The regenerative drive recovers this energy. It can save up to 25% of the energy consumed by a typical 14 person KONE MiniSpace elevator.

Put to sleep when not in use

In today's elevators, lights, signalization and ventilation can consume a considerable amount of electricity even when the elevator is not moving. KONE energy-efficient options supervise elevator usage and set the devices to sleep mode during inactive periods to minimize total energy consumption.

Eco-efficient car lighting

To save energy used for car lighting halogen lights have been replaced by LED spots. LED lights consume 80% less electricity than halogen lights and last up to 10 times longer. Modern fluorescent light technology is also available for KONE C-series elevators.

A green hoisting system

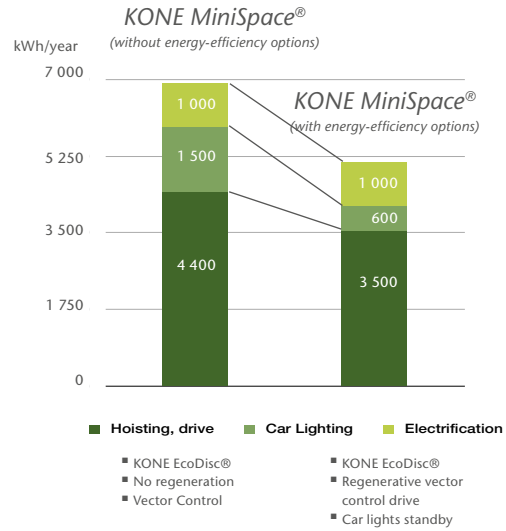
The KONE EcoDisc® hoisting machine made DC gearless and energy-hungry geared hoisting machines obsolete. The KONE EcoDisc® permanent magnet synchronous machine, together with a vector controlled drive system and regenerative options, provides the highest total efficiency and minimizes both mechanical and electrical losses.

KONE Polaris™ Destination Control System saves time and energy.

The KONE Polaris destination control system saves energy by optimizing traffic. It groups people traveling to the same floor and reduces the number of intermediate stops.



The high-performance KONE MiniSpace™ platform, with a small machine room, is also powered by the energy-efficient KONE EcoDisc® hoisting machine. It can be equipped with all of these eco-efficient options.



This chart shows the ultimate savings with car light stand by and regenerative drive.

KONE EcoDisc® regenerates electricity

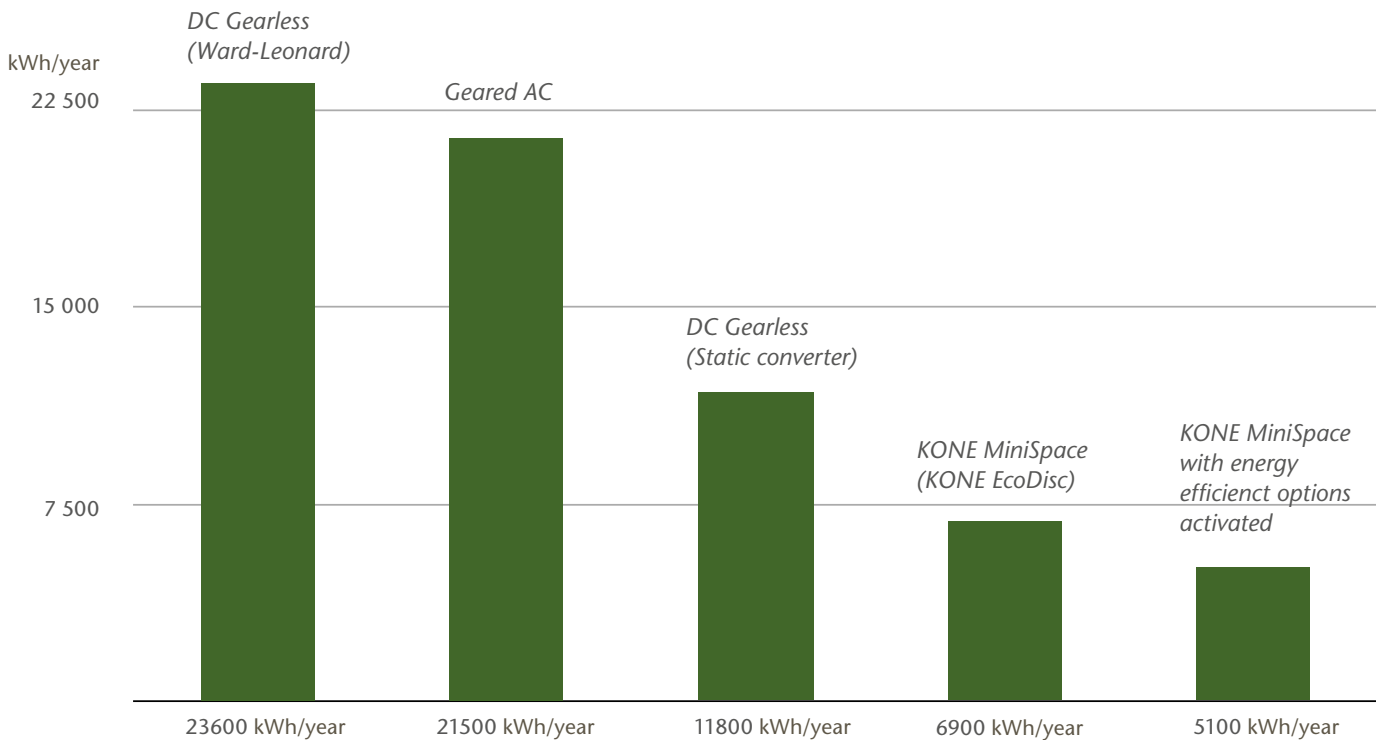
KONE EcoDisc®, together with a regenerative drive option, works as a generator when a heavy car is returned to ground floor or empty car going up. Instead of turning the braking energy to heat, the electricity is fed back to the network.

It's not only the motor that consumes electricity

The energy needed for lighting and hoisting can be reduced by using LED lights and regenerative drive options. The potential savings can amount from 600 to 1500 kWh using LED lights and standby operation.

Average Energy Consumption

This bar chart indicates how the KONE EcoDisc technology has revolutionized the energy efficiency of office elevators.



KONE Design collection – when every detail counts

A new user experience on the way to the office

For KONE, the goal is to create the best possible user experience. A smooth ride and reliable performance ensure the ideal people flow, while the car interior design creates a pleasing aesthetic experience for each passenger.

There is more to this than mixing and matching the materials and components. The materials and components have to be first-class: energy-efficient lighting, innovative car operating panel and material combinations to match any type of architecture. KONE has enhanced the lighting level, met the accessibility codes, and fulfilled the environmental requirements. With these materials, KONE has created a harmonious whole where all of the parts work together. The end result is a positive user experience: aesthetically, functionally and emotionally.



LED light technology gives new possibilities for a visually pleasing look while saving energy. At the same time, it improves safety – LED lights last 10 times longer than halogen lights, so the lights are hardly ever burned out.



8 PERSONS
720000



Fast selection, unlimited choice

The KONE Design collection – you can go for the convenience of choosing from dozens of purpose-built car interiors. Or you can have the freedom to design a unique car décor with our Mix and Match, KONE Deco™ and Executive custom options.

KONE Design collection

These elegant interiors, with sophisticated design, colors, patterns and mood, have been designed by interior architects. They are an excellent and easy choice, to match the architecture of almost any building.

C9 The KONE C9 interiors fit the mood perfectly; they make you look good and feel good.



C9 metallic magic spring 0951



C9 metallic magic summer 0961



C9 metallic magic autumn 0971



C9 metallic magic winter 0981

C7 Cool, sleek, sophisticated, with details in glass and stainless steel. Pause for reflection on your way to the office.



C7 silver sound spring 0711



C7 silver sound summer 0721



C7 silver sound autumn 0731



C7 silver sound winter 0741

C5 Contemporary, smart casual. This is design that looks good on all occasions.



C5 silver sound spring 0511



C5 silver sound summer 0521



C5 silver sound autumn 0531



C5 silver sound winter 0541



C9 color cool wood veneer spring 0911



C9 color cool wood veneer summer 0921



C9 color cool wood veneer autumn 0931



C9 color cool wood veneer autumn 0941



C9 color cool glass spring 1011



C9 color cool glass summer 1021



C9 color cool glass autumn 1031



C9 color cool glass winter 1041



C7 metallic magic spring 0751



C7 metallic magic summer 0761



C7 metallic magic autumn 0771



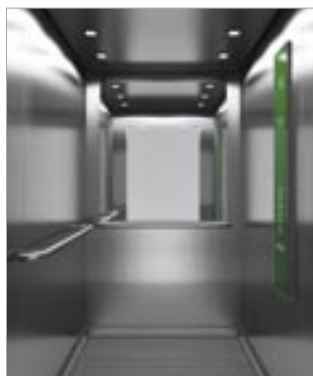
C7 metallic magic winter 0781



C5 metallic magic spring 0551



C5 metallic magic summer 0561



C5 metallic magic autumn 0571



C5 metallic magic winter 0581



C9

TO THE EXECUTIVE SUITE

The C9 interiors: cool, sleek, sophisticated, details in wood, glass and stainless steel. When you step in from the lobby, you're at the top of the line. Enjoy a moment of cool sophistication on your way to the executive suite in a mid- to high-rise head office.

The smart KONE C9 series can be equipped with KSS 570, KSS 670, KSS 970 and KONE Design signalization families.

KONE MonoSpace Special C9

Loads: all loads up to 2000 kg
Speed: up to 2.5 m/s
Max. travel: 90 m
Max. no. of stops: 36

KONE MiniSpace C9

Loads: all loads up to 2000 kg
Speed: up to 4.0 m/s
Max. travel: 150 m
Max. no. of stops: 63

The KONE C9 series interiors are for those who have arrived. Surround yourself with luxury, elegant LED lights, mirror polished and textured stainless steel walls, glass walls and stone floors.

The design lines for the KONE C9 series are Metallic Magic, Color Cool with wood veneer and Glass, within KONE Design collection.



C9 color cool glass winter 1041

C9 color cool glass autumn 1031 (left)

CEILING

Type: Iris Tranquilla (LF56)
Material: Asturias Satin (F) stainless steel
Light type: LED

WALL COMBINATION (GC3)

1. Asturias Satin (F) stainless steel
2. Berlin Glaze (GW3) glass
Glass wall frames: Asturias Satin (F) stainless steel
3. Murano Mirror (H)
mirror polished stainless steel

FLOOR

Diorite Black (SF2) composite stone

CAR OPERATING PANEL

KSC D40 full height COP
Solid color: Ivory Black

HANDRAIL

HR41R stainless steel (F) rounded ends

SKIRTING

Asturias Satin (F) stainless steel



C7

SMART AND AMBITIOUS

These interiors are at home in a mid-rise office building. Smart and efficient, they are designed for people with ambition: people who are on their way up.

For the KONE C7 series elevators you have a choice of KSS 570, KSS 670, KSS 970 and KONE Design signalization families..

KONE MonoSpace Special C7

Loads: up to 2000 kg
Speed: up to 2.5
Max. travel: 90 m
Max. no. of stops: 24

KONE MiniSpace C7

Loads: up to 2000 kg
Speed: up to 4.0 m/s
Max. travel: 150 m
Max. no. of stops: 63

These KONE C7 series provide cool ambiance on your way to the top, with stylish lights, mirror polished and patterned stainless steel, laminate walls, and smart vinyl floors.

Within the KONE C7 series, there are two design lines, Metallic Magic and Silver Sound, within KONE Design collection.



C7 silver sound spring 0711

CEILING

Type: Iris Tranquilla (LF56)
Material: Painted metal, white RAL9010
Light type: LED (round)

WALLS

1. Asturias Satin (F) stainless steel
2. Lucido Snow (L72) laminate
3. Partial width, full height glass mirror

FLOOR

Cubic Cream (VF3) vinyl

CAR OPERATING PANEL

KSC D42 full height COP
Solid color: Snow White

HANDRAIL

HR41R stainless steel (F) rounded ends

SKIRTING

Asturias Satin (F) stainless steel



C5

EFFICIENT AND BUSINESS-LIKE

These C5 interiors are designed for low- to mid-rise office buildings: efficient and business-like. These are cost-effective solutions that offer a wide variety of designs and materials.

The KONE C5 series elevators are available with KSS 470, KSS 570 and KONE Design signalization systems.

KONE MonoSpace C5

Loads: up to 1000 kg

Speed: up to 1.6 m/s

Max. travel: 55 m

Max. no. of stops: 16

The KONE C5 series are designed to look good, day in, day out, with contemporary vinyl floors, durable stainless steel and laminate walls.

Within the KONE C5 series, there are two design lines, Metallic Magic and Silver Sound, within KONE Design collection.



C5 metallic magic 0581

CEILING

Type: LF98

Material: Asturias Satin (F) stainless steel

Light type: LED (rectangular)

WALLS

1. Asturias Satin (F) stainless steel

2. Partial height glass mirror

FLOOR

Philadelphia Zinc (VF5) vinyl

CAR OPERATING PANEL

KSC D23 partial height COP

Pattern: Raster

Color: Sapphire Blue

HANDRAIL

HR53 stainless steel (F) rounded ends

SKIRTING

Asturias Satin (F) stainless steel

Executive

KONE Executive rises to the top floor in sophistication and performance. White marble in the lobby floor? Walnut paneling in the executive suite? Design a unique elevator interior to match the décor of your building. Choose the material and we'll build an elevator.



*KONE MonoSpace
Special Executive
Loads: up to 2000 kg
Speed: up to 2.5 m/s
Max. travel: 90 m
Max. no. of stops: 36*



21

Mix & Match

If you can't find exactly what you're looking for from our KONE Design collection interiors, you can replace elements with alternatives from the range. Select ceilings, walls, doors, mirrors, and other accessories. There are thousands of possible combinations.



KONE MiniSpace Executive
Loads: up to 2000 kg
Speed: up to 4.0 m/s
Max. travel: 150 m
Max. no. of stops: 63

Special ACCESSORY PACKAGES



Eco-efficiency features

KONE is a pioneer in regenerative systems, which can recover 90% of the braking energy back into the network. Over the lifetime of the elevator, the energy savings can be considerable. LED lights last much longer than halogen lights and can be combined with standby lighting and ventilation to further increase energy savings.



Accessibility features

These features ensure that the elevator meets the requirements of the EN81-70 standard, "Accessibility for lifts for persons, including persons with disability." The curtain of light door safety device immediately stops and re-opens closing elevator doors.



Traffic Boosting features

Traffic Boosting features such as the bypass load function, curtain of light and advance door opening enhance elevator and door operation during heavy traffic conditions.



Security features

These features increase the security of the elevator passengers and occupants of the building. This includes locking of car calls and landing calls, preventing unauthorized use and access to locked floors.



Better people flow and PASSENGER CONVENIENCE

KONE Polaris™

The KONE Polaris destination control system increases capacity, reduces passenger waiting times, and adapts quickly to changing traffic conditions. It increases the handling capacity of an elevator group in a high-rise building by 20 to 100% for incoming traffic during peak periods – but this is not at the expense of passenger comfort. On the contrary, car loads are low, and passenger comfort is high, compared to elevator groups using a conventional control system. The KONE Polaris system was pioneered by KONE for the demanding traffic needs of office buildings.



Complete management of YOUR ELEVATORS AND ESCALATORS

KONE E-Link™

KONE E-Link is a central management tool designed to provide the optimum reliability and efficiency of the elevators and escalators in a single building or in a building complex such as a shopping center or airport. KONE E-Link traffic displays and reports provide an accurate view of the transportation demand, traffic performance, and availability of elevator capacity – all on one screen. This information helps you ensure that the elevators deliver the best possible performance at all times. With KONE E-Link it is also possible to shut off the elevators at times when they are not in use, thus saving energy.

System features	C5	C7	C9
KONE Polaris Destination Control System	○ (Hybrid)	○	○
KONE Remote Monitoring with GSM connection	○	○	○
EN81-72 Fire fighters lifts	○	○	○
EN81-73 Behaviour of lifts in the event of fire	○	○	○

Car interior design	C5	C7	C9
KONE Design Collection (number of available car interiors)	8	8	12
Mix & Match car interior materials (inc. local flooring)	○	○	○
KONE Nature Inspired Design	○	○	○
Glass doors	○	○	○
KONE Deco	○	○	○

Eco-efficiency features	C5	C7	C9
Fluorescent / LED lighting	●	●	●
Car light standby (OCL A)	●	●	●
Ventilation standby (OCV A)	○	○	○
Signalization dimming	●	●	●
Drive standby	●		
Corridor illuminating control (CIC)	○	○	○
Regenerative drive	○*)	○*) ○ ●**)	○*) ○ ●**)

Accessibility features	C5	C7	C9
EN81-70 Accessibility to lifts for persons including persons with disability	○	○	○
Car interior design according to EN81-70	●	●	○
Curtain of light (COL)	●	●	●
Lift announcer (ACU)	○	○	○
Door open with extended door time (DOE B)	○	○	○

Security features	C5	C7	C9
Locking of car calls (LOC)	○	○	○
Locking of landing calls (LOL)	○	○	○
Fast recall (FRE)		○	○
Compulsory stopping at main floor (CSM)	○	○	○
Priority call in car (PRC)	○	○	○

Traffic boosting features	C5	C7	C9
Advance door opening (ADO)	●	●	●
Curtain of light (COL)	●	●	●
Nudging operation (NUD)	○	●	●
Bypass load function (BLF)	●	●	●
Adaptation to traffic peaks (IDP/ITP/IUP)	●	●	●
Door closed button (DCB)	●	●	●
Quick closing from new car call (QCC)	○	○	○

● Built-in

○ Option available

*) Please consult your KONE sales professional for proper specifications

***) Built in at 3.5 and 4 m/s

References



Moorhouse, London, UK

Number of floors: 19
Number of elevators: 15
Construction completed: 2004



Five Boats, Duisburg, Germany

Number of floors: 8
Number of elevators: 5
Construction completed: 2004



Torre Mare Nostrum, Barcelona, Spain

Number of floors: 24
Number of elevators: 19
Construction completed: 2005

Local references



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