

Dedicated to People Flow™



KONE BED ELEVATORS FOR HOSPITALS

# KONE 3000 Bed Elevator



# Designed especially for hospitals

In modern healthcare facilities, elevators need to move patients and staff smoothly and safely. KONE offers a full range of specially developed bed elevators for optimum performance in the highly demanding environment of patient transportation. A wide range of car dimensions is available for the varying requirements of a modern hospital. KONE hospital bed elevators offer the following specific features:

**Specialized car design** – to accommodate the bed and medical equipment, with wide-opening doors and deep car size

**Smooth loading and unloading** – precise leveling for easy entry of wheelchairs, beds and patients

**Priority/emergency calls** – for immediate availability during emergency situations

**Quiet operation** – to prevent disturbance to patients in wards adjacent to the elevator shaft

**Hygiene** – easy-to-clean and durable wall and floor materials

**Indirect, non-glare lighting** – essential for the comfort of patients being transported in beds

**Clear signalization** – for easy access and use

**Environment-friendly and cost-effective** – no electromagnetic disturbance and optimize your investment throughout the lifetime of the equipment

# A full range of solutions for hospitals

KONE was the first company to introduce gearless hoisting technology – the KONE EcoDisc® machine. This technology has since become the standard for the industry, and KONE has moved ahead, gaining experience in supplying reliable gearless solutions for a full range of applications.

## **Compact building design**

KONE hospital bed elevators are available based on the machine-room-less KONE MonoSpace® platform or the KONE MiniSpace™ platform, with a small machine-room.

With the KONE MonoSpace® elevator, the powerful KONE EcoDisc® motor is located inside the elevator shaft, so there is no need for machine room, freeing up space for other uses. The KONE MiniSpace™ elevator solution needs only a small machine room, located above the shaft. This saves construction costs and optimizes building space.

## **Absolutely reliable**

The KONE EcoDisc® is the core technology for all KONE gearless elevators. It has only one moving part, the rotor, guaranteeing reliable operation year after year.

## **Smooth and safe**

Powered by EcoDisc®, KONE bed elevators are exceptionally smooth and quiet in heavy-duty operation. They employ sophisticated position-measuring techniques to map the elevator shaft together with all floor levels. This ensures highly accurate leveling, for safe and easy use. This is particularly important for elderly and disabled persons, and when loading beds and trolleys.

## **Energy-efficient**

The KONE EcoDisc® is much more efficient than a hydraulic unit and uses much less energy. The energy savings can represent a significant part of the annual cost of elevator operation.

Typical KONE EcoDisc® energy savings (with the same specifications):

- Up to 50% compared with AC geared units
- Up to 35% compared with AC gearless units

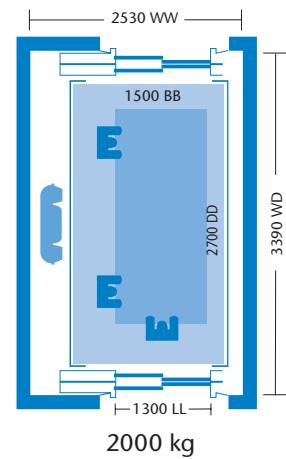
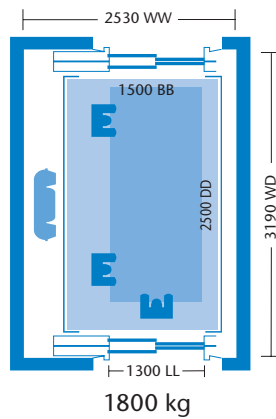
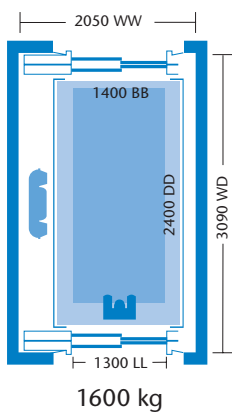
These impressive savings not only reduce the amount of energy consumed directly. They also reduce the size of the emergency power generators and fuses needed. Also there is less need for air-conditioning in the machine-room. The KONE EcoDisc® uses no oil, removing the potential risk of oil contamination and fire.

## **No electromagnetic disturbance**

Electromagnetic disturbance is critical in the hospital environment. KONE bed elevators fulfill the strictest requirements for electromagnetic compatibility: EN-12015 and EN-12016.



Load	1600 kg, 1800 kg, 2000 kg
Speed	1.0 m/s, 1.6 m/s, 1.75 m/s, *2.0 m/s
Platform	MonoSpace®, MiniSpace™
Hoisting technology	KONE EcoDisc® gearless technology
Car dimensions (mm)	1400 × 2400 × 2400 (1600 kg), 1500 × 2500 × 2400 (1800 kg), 1500 × 2700 × 2400 (2000 kg)
Door entrance (mm)	1300 × 2100 (2S) (SEC, TTC)
Car type	*SEC, TTC





# Safe, comfortable, easy to clean

The deep car and wide car door make it easy to accommodate beds, wheelchairs and hospital equipment. The stainless steel car wall is easy to clean and durable against scratches and bumps.

## **Deep car with handrails**

The handrail is made of stainless steel. Its rounded design is safe and comfortable. (optional)

## **Deep car with handrail and buffer rails**

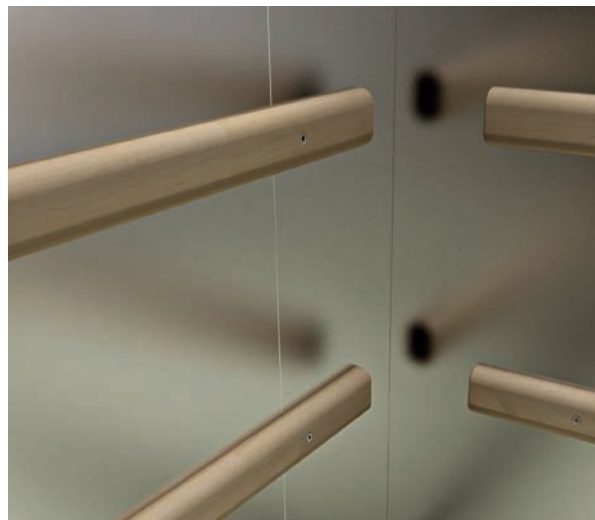
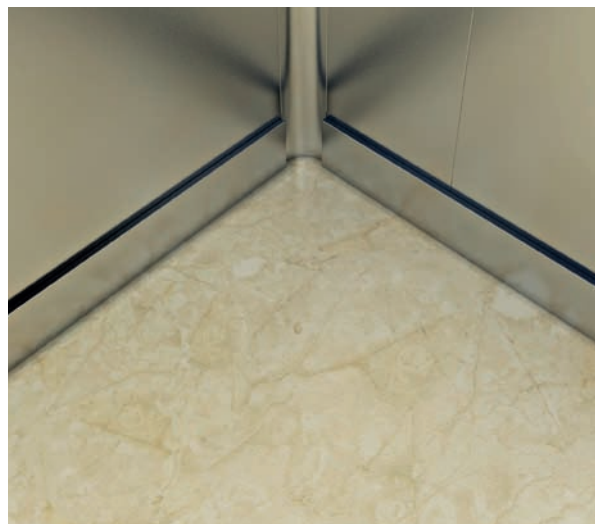
The solid wood buffer rail protects the car wall from bumps by beds and medical equipment. (optional)

## **Ceiling**

Soft illumination prevents disturbance to the patient on the bed

## **Flexible combination**

- 3 walls with handrails (here the handrail partly acts as a buffer rail ) or buffer rails.
- 1 handrail on the side wall, with 2 buffer rails on the other car walls – based on the customers' preference.





## Visual and functional design

A curtain of light enhances user safety and comfort during loading and unloading.

In addition to the normal right-angle wall joint, KONE also offers round-cornered cars especially for the hospital environment, where hygiene is the first consideration. KONE's round-corner design is much easier to clean than a right-angle joint.

In addition to single entrance cars (SEC), KONE hospital bed elevators are also available with the through type car (TTC) option. This gives greater

freedom when arranging the different departments in your building.

Two floor materials are available, both offering excellent durability. For details please refer to the decoration sheets.



# Signalization

KONE signalization packages are available for bed elevators. KDS50 is the standard; KDS300 is optional. The Car Operating Panel includes all interfaces needed by the user:

- Call buttons
- Special functions buttons and keys (e.g. alarm, ATS, HEL)
- Floor position indicator
- Informative messages (e.g. priority calls)

Car Operating Panel with Braille is available as an option.

## **Door hold button**

This extends the opening time, for example while patients in wheelchairs enter or exit the elevator car.

## **HEL (Hospital Emergency Landing)**

This is for the highest priority level. When it is activated by authorized users, it overrides all other calls to make the car immediately available during urgent situations.



# Full availability is the top priority

In a hospital or clinic, full-time elevator availability is vital. There must be no delays and no break-downs when transporting a patient.

KONE technology has proven to be highly reliable and, when equipped with an emergency battery drive, it minimizes the risk of entrapment.

## **KONE Care™ maintenance**

KONE Care offers various maintenance packages to suit all requirements and installations, from a single building to a large hospital complex. These services cover all technologies, regardless of age, brand or complexity. KONE Care Premium is the performance level contract package, suitable for hospitals, where maximum availability is required. Immediate call out notification guarantees a high level of service with immediate response to service requests.

## **KONE Customer Care Center™**

Whenever you need help, KONE Customer Care Center professionals are just one call away, day or night, 365 days a year. With a state-of-the-art communication network, our service professionals can immediately dispatch the nearest service technician to the site to carry out corrective actions.

## **KONE business network nationwide**

Our nationwide network is built up with 30 branches and over 100 service depots. Regardless of the location of your equipment, we are never far away. Besides professional technicians, all our branches are backed by a proven logistics system covering strong technical support and spare parts.

## **Skilled and dedicated professionals**

The KONE technician is a professional, who is able to provide the best preventive maintenance on any type of equipment – including other manufacturers'. Furthermore, using KONE troubleshooting methods, he can quickly identify the cause of the technical failure and fix it.

KONE works alongside you throughout the lifetime of your elevators to ensure that your hospital or clinic is served with fully functioning elevators around the clock.

## Dimension in Vertical Section

### KONE Bed Elevator (KONE MiniSpace™)

Persons/ Load (kg)	Car interior height (mm)	Door height (mm)	Floor Door cutout height (mm)	V = 1.0 m/s		V = 1.6 m/s		V = 1.75 m/s		V = 2.0 m/s	
				Pit depth PH (mm)	Overhead SH (mm)	Pit depth PH (mm)	Overhead SH (mm)	Pit depth PH (mm)	Overhead SH (mm)	Pit depth PH (mm)	Overhead SH (mm)
21/1600	2400	2100	2180	1550	4300	1650	4350	1800	4400	1800	4400
24/1800	2400	2100	2180	1550	4300	1650	4350	1800	4400	1800	4400
26/2000	2400	2100	2180	1550	4300	1650	4350	1800	4400	1800	4400

### KONE Bed Elevator (KONE MonoSpace®)

21/1600	2400	2100	2180	1700	3950	1700	4000	1900	4200	2000	4400
24/1800	2400	2100	2180	1700	3950	1850	4000	2050	4200	2050	4400
26/2000	2400	2100	2180	1700	3950	1900	4000	2050	4200	2050	4400

## Dimension in Horizontal Section

### KONE Bed Elevator (KONE MiniSpace™)

Persons/ load (kg)	Car size BB×DD (mm)	Car Type	LL (mm)	LR (mm)	FW1 (mm)		FW2 (mm)		Well size WW×WD (mm)	
					min	max	min	max	min	max
21/1600	1400×2400	SEC	1300	1500	650	695	200	610	2350×2850	2805×3500
21/1600	1400×2400	TTC	1300	1500	650	695	200	610	2350×3090	2805×3090
24/1800	1500×2500	SEC	1300	1500	680	780	170	600	2350×2945	2880×3720
24/1800	1500×2500	TTC	1300	1500	680	780	170	600	2350×3190	2880×3190
26/2000	1500×2700	SEC	1300	1500	680	780	170	600	2350×3145	2880×3920
26/2000	1500×2700	TTC	1300	1500	680	780	170	600	2350×3390	2880×3390

### KONE Bed Elevator (KONE MonoSpace®)

21/1600	1400×2400	SEC	1300	1500	170	610	635	640	2300×2850	2750×3200
21/1600	1400×2400	TTC	1300	1500	170	610	635	640	2300×3090	2750×3090
24/1800	1500×2500	SEC	1300	1500	170	625	614	744	2295×2945	2858×3720
24/1800	1500×2500	TTC	1300	1500	170	625	614	744	2295×3190	2858×3190
26/2000	1500×2700	SEC	1300	1500	170	610	650	740	2300×3150	2850×3500
26/2000	1500×2700	TTC	1300	1500	170	610	650	740	2300×3390	2850×3390



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.

KONE employs over 30,000 dedicated experts to serve you globally and locally in 49 countries.

KONE Corporation  
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