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.
Understanding the flow of people and goods in hospitals

In hospitals the elevators are in constant use through day and night, every day of the week. A sudden increase in elevator service may occur during lunch time or visiting hours. These and even extreme conditions such as a possible evacuation of the building need to be analyzed and simulated during the planning phase.

![Graph showing elevator usage](image)

elevator start / hour in a 15 floor hospital building.

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

Smooth entry & exit – 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, durable wall and floor materials

Clear signalization – for easy access and use

Environmental friendly and cost-effective – KONE Bed elevators equipped with the energy efficient KONE EcoDisc® – hoisting machine are 50-70% more efficient than elevators that uses conventional traction technology. This helps in optimizing your investment throughout the lifetime of the equipment.

Safety and Comfort – From advance door sensors using curtain of light to ensure safe door movement to smooth acceleration, deceleration and stop using advanced vector control variable frequency drives, safety and comfort of patients and passengers is the driving spirit of design.
Eco-efficient™ Solutions

The cost of owning an elevator is made up of three components: the purchase price, the cost of maintenance, and the running costs. Thanks to their dependability and energy-efficiency, KONE elevators significantly reduce the total cost of ownership.

KONE has constantly been the forerunner in developing the most energy efficient elevator hoisting technology in the industry, as can be seen from the graph on this page. Our permanent magnet synchronous gearless hoisting solution reduces the requirement of back up power generators which is a major consideration in a medical facility where 24/7 operation is critical.

KONE Regenerative solution
With drives capable of regeneration KONE solutions save an additional 20 to 35% of energy consumed by recovering the energy created when the elevator is moved. This will be significant for heavier and larger cars.

Typical Savings In Energy Consumption

![Graph showing energy consumption savings](image)

Typical power consumption for 1000kg and 1800kg bed elevators, 1m/s speed and travel of 8 floors and approximately 200,000 starts/year
Visual options

Ceilings

CT002 (Painted Steel)

CT004 (Stainless Steel with LEDs)

Walls

Stainless Steel

SS Hairline
Quadcheck
Canvas
Vandalproof

Painted Steel
Casablanca White
Silver Grey

Buffer rail

Rubber

Floors

Chequered Plate

Steel Tear plate 6 mm
Aluminium Tear plate 2 mm
Stainless Steel Tear plate 2 mm

Stone
Jet Black Granite (BQ)

PVC
Dark Grey Marble Pattern (PDGM)
Signalizations

Landing signalization

KDS 50

- LCI 30 - Simplex (7 segment / Dotmatrix)
- LCI 50 - Duplex (7 segment / Dotmatrix)
- HI 50 (7 segment / Dotmatrix)

* Button type: KDS 30 round surface mounted, Red
* Full Collective uses two buttons & Down collective uses single button
* KDS 50 usage limited to simplex and duplex

KDS 300

- LCI 300 - Simplex (7 segment / Dotmatrix)
- LCI 300 - Duplex (7 segment / Dotmatrix)
- HI 300 (7 segment / Dotmatrix)

* Default colour for signalization is red. Yellow and white options are available for KDS300 series.

Car signalization

LCS 50

KDS 50 COP
Partial height

LCS 300

KDS 300 COP
Partial height

Mono LCD Indicator

CI 300
(7 segment / Dotmatrix)

KDS 300 COP
Full height

Specials

Full Colour Display
**Car and shaft dimensions**

### Minimum & Maximum Values for Shaft Size

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Rated Speed (m/s)</th>
<th>Number of persons</th>
<th>Rated load (Kg)</th>
<th>Car internal dimensions (mm)</th>
<th>Clear opening (mm)</th>
<th>Holistway internal dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BB</td>
<td>DD</td>
<td>LL</td>
</tr>
<tr>
<td>BT10</td>
<td>1.0 &amp; 1.6</td>
<td>15</td>
<td>1020</td>
<td>1000</td>
<td>2400</td>
<td></td>
</tr>
<tr>
<td>BT14</td>
<td>1.0 &amp; 1.6</td>
<td>20</td>
<td>1360</td>
<td>1300</td>
<td>2400</td>
<td></td>
</tr>
<tr>
<td>BT18</td>
<td>1.0 &amp; 1.6</td>
<td>26</td>
<td>1768</td>
<td>1600</td>
<td>2400</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- Separator channel can be provided if shaft exceeds maximum dimension.
- All dimensions include +/- 25mm tolerance per wall, thus the absolute minimum shaft width and depths are 50mm smaller & the absolute maximum shaft width and depth are 50mm larger.
- Same dimensions are applicable for both RH and LH doors.
- The doors are side-opening. According to the shaft size maximum door width can be chosen from the table to facilitate movement of stretcher and beds.

**Maximum travel distance 60 m & 1.0, 1.6 m/s (Gearless); Single entrance cars; Side opening doors.**

### Headroom Height and Pit Depth**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Rated load (Kg)</th>
<th>Rated speed (m/s)</th>
<th>Headroom height SH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Min*</td>
</tr>
<tr>
<td>BT10</td>
<td>1020</td>
<td>1</td>
<td>CH+1650</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.6</td>
<td>CH+1775</td>
</tr>
<tr>
<td>BT14</td>
<td>1360</td>
<td>1</td>
<td>CH+2050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.6</td>
<td>CH+2150</td>
</tr>
<tr>
<td>BT18</td>
<td>1768</td>
<td>1</td>
<td>CH+2050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.6</td>
<td>CH+2150</td>
</tr>
</tbody>
</table>

**Note:**
- Typically bed elevators can be planned to accommodate an attendant and a stretcher or a bed or a bed with a trolley. Based on the need, the right size of the car has to be chosen.
- Where wheel chairs are used and there is a need to turn the wheel chair inside the elevator car, a minimum width of 1525 mm is recommended.

**HEADING HEIGHT AND PIT DEPTH**

<table>
<thead>
<tr>
<th>Car Height (CH)</th>
<th>2200, 2300, 2400mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Height (HH)</td>
<td>2000, 2100mm</td>
</tr>
<tr>
<td>Minimum machine room clear height (MH)</td>
<td>2300mm</td>
</tr>
</tbody>
</table>

---

* For West Bengal Minimum dimensions are higher
** Pit depth required is 1500 mm
Service: for the lifetime of your building

KONE serves you throughout the lifecycle of the equipment. KONE provides maintenance already during building construction, when KONE construction time elevators speed up the movement of workers and goods on the site. With preventive maintenance KONE serves to keep the equipment running ensuring smooth People Flow™ everyday. Throughout the equipment lifetime KONE evaluates the equipment condition and proposes repair and modernization when needed.

Available
24 hours a day, 7 days a week

KONE Customer Care Center™
18004254666 /
18004254254

Modernization

Full replacement

Maintenance

KONE serves you already during design and construction of the building. After handover, KONE Care keeps your elevators, running reliably for decades. If your equipment requires an upgrade, KONE can provide modernization or replacement solutions - for the lifetime of your building.
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 Fortis Healthcare India Ltd in Mohali, Safee Hospital in Mumbai, Guwahati Medical College Hospital in Guwahati, The National Heart Centre in Singapore, The St. Olav’s Hospital in Norway and The Children’s Hospital of Illinois (OSF) in USA.

KONE employs approximately 34,000 dedicated experts to serve you globally and locally in over 50 countries.

KONE Elevator India Private Limited
Registered Office and Factory
50, Vanagaram Road, Ayanambakkam
Chennai - 600 095. India
Tel. No. +91 44 26533901 - 04
Fax No. +91 44 26533912
Service Number:
18004254666 /18004254254
Contact person:
Tel. No:

Visit us at www.KONE.com