MACHINE-ROOM-LESS FREIGHT AND SERVICE ELEVATOR

KONE TranSys™
TO MOVE FREIGHT, YOU NEED AN ELEVATOR THAT’S BUILT FOR FREIGHT

To move freight, you need an elevator that is designed specifically for moving freight. That means a powerful hoisting machine. Durability to cope with rough treatment. A smooth ride to handle fragile loads. Leveling accuracy for easy loading and unloading. Wide doors that maximize the usage of space in the car.

The powerful and high-performance KONE TranSys™ freight elevator solution is ideal for a multitude of demanding vertical freight transportation tasks in a variety of buildings: supermarkets, shopping malls, airports, warehouses, hospitals, hotels, industrial plants and offices.

The new KONE TranSys™ freight elevator brings all of the advantages of machine-room-less elevator technology to the higher range of freight elevators.
THE POWER TO LIFT 4000 KG

The KONE TranSys™ freight elevator solution is based on the KONE MonoSpace® platform. It incorporates the highly reliable and eco-efficient KONE EcoDisc® hoisting machine for exceptional power and performance. Moving up to 4000 kg is no problem for this workhorse. This powerful machine also reduces electricity consumption, compared with a conventional hydraulic drive.
OUTSTANDING POWER AND PERFORMANCE

EXCEPTIONALLY SPACE-EFFICIENT
The KONE TranSys™ freight elevator needs no machine-room at all. This means:
- Easier positioning of the elevator in the building
- Reduced building construction time and costs
- More efficient, safer elevator installation processes
- Up to 30m³ extra building space that can be used more profitably.

RELIABLE, HIGH PERFORMANCE
The KONE TranSys freight elevator solution provides reliable operation, outstanding traffic performance and a smooth ride. The ride quality is the result of the motor’s low rotational speeds. The V³F variable frequency drive prevents current peaks and ensures excellent stopping accuracy, making it easier and safer to load and unload.
NO OIL AND LOW ENERGY USAGE
The low friction, gearless construction of the KONE EcoDisc® hoist reduces wear, so it increases the reliability and durability of the machine. KONE EcoDisc is also compact and eco-efficient – it consumes half as much electricity as a conventional hydraulic machine. And no oil is required, reducing fire risk and environmental impact.

EASY LOADING AND UNLOADING
Powered by the gearless KONE EcoDisc machine, the KONE TranSys freight elevator solution features quiet operation, smooth running to protect fragile loads and ±5mm leveling accuracy to make loading and unloading easier.

WIDE LOAD RANGE
The KONE TranSys freight elevator solution is available in different car sizes to transport freight of various sizes and loads. With a maximum load capacity of 4000 kg, it can meet virtually every freight transportation requirement in a variety of building types.
The KONE TranSys™ cars and doors are built for the job. The car is finished in stainless or powder-painted steel, protected by buffer rails, and equipped with direct, fluorescent lighting. A second car operating panel is optional and combined with a 400 mm minimum floor-to-floor distance to suit the through-car application.

### MAIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity (kg)</td>
<td>1600, 2000, 2500, 3000, 3500, 4000</td>
</tr>
<tr>
<td>Speed (m/s)</td>
<td>Up to 1.0</td>
</tr>
<tr>
<td>Max. travel (m)</td>
<td>Up to 40</td>
</tr>
<tr>
<td>No. of floors</td>
<td>Up to 12</td>
</tr>
<tr>
<td>Control</td>
<td>Down or full collective</td>
</tr>
<tr>
<td>Group size</td>
<td>Simplex or duplex</td>
</tr>
<tr>
<td>Hoisting machine</td>
<td>Gearless KONE EcoDisc®</td>
</tr>
<tr>
<td>Doors</td>
<td>Automatic center opening</td>
</tr>
<tr>
<td>Car door height (cm)</td>
<td>2100, 2200, 2300, 2400</td>
</tr>
</tbody>
</table>
EXTRA-WIDE DOORS

The KONE TranSys™ elevator is equipped with full-width, center opening doors, which retract fully for the easy movement of passengers and goods. Further door area protection includes a curtain of light. The strong double skin door panels are finished in stainless, powder-painted steel or zinc coated steel.

### SUPERIOR PERFORMANCE, COMPARED WITH CONVENTIONAL HYDRAULIC DRIVE

<table>
<thead>
<tr>
<th>Case example, Load 2000 kg/0.5 m/s</th>
<th>Conventional hydraulic</th>
<th>Gearless KONE Transys™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (m/s)</td>
<td>0.6</td>
<td>0.5</td>
</tr>
<tr>
<td>Motor power (kW)</td>
<td>28</td>
<td>6</td>
</tr>
<tr>
<td>Starting current (AMP)</td>
<td>112 S/D</td>
<td>18</td>
</tr>
<tr>
<td>Main fuse size (AMP)</td>
<td>63</td>
<td>16</td>
</tr>
<tr>
<td>Power consumption (kWh) &gt; 100,000 starts/year</td>
<td>10.400</td>
<td>5800</td>
</tr>
<tr>
<td>Thermal losses (kW)</td>
<td>5.8</td>
<td>1.9</td>
</tr>
<tr>
<td>Oil requirements (L)</td>
<td>240</td>
<td>0</td>
</tr>
<tr>
<td>Noise (dBA)*</td>
<td>Typically 70</td>
<td>Less than 55</td>
</tr>
<tr>
<td>Machine room (m²)</td>
<td>6</td>
<td>0</td>
</tr>
</tbody>
</table>

* Measured 1 m from machine.
A WIDE CHOICE OF DURABLE INTERIOR MATERIALS

CAR OPERATING PANEL (COP)

Full height COP
Brushed stainless steel faceplate
CEILINGS

Type: LF1
Finishing: PP10 White painted RAL 9010
Lighting: T5 fluorescent tubes

Type: CL88
Finishing: Silver brushed stainless steel (ST4)
Lighting: LED spot

Type: CL91
Finishing: Silver brushed stainless steel (ST4)
Lighting: T5 fluorescent tubes

Type: CL94
Finishing: Silver brushed stainless steel (ST4)
Lighting: T5 fluorescent tubes

CAR BUFFER RAILS

BR1
Steel

BR1
Wood

HANDRAIL

HR61
Round silver brushed

HR64
Bended silver brushed
- EN81-70 compliant
- AS1735.12 compliant
- G compliant

WALL MATERIALS

Painted steel

PP18
Linen Brown

PP20
Wool Gray

Brushed stainless steel

ST4
Silver

ST43
Silver

Textured steel

T52
Flemish Linen

FLOOR MATERIALS

Rubber

RC7
Black Coin Pattern

Zinc coated steel

FE-1
Tear Plate
### DIMENSIONS IN HORIZONTAL SECTION WITHOUT FRONT WALL*

<table>
<thead>
<tr>
<th>Max. load (kg)</th>
<th>Car size (mm)</th>
<th>Car type</th>
<th>Shaft width (mm)</th>
<th>Shaft depth, nominal (mm)</th>
<th>Door width, nominal (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
<td>1400 x 2400</td>
<td>SEC</td>
<td>2350</td>
<td>2800</td>
<td>1400</td>
</tr>
<tr>
<td>1600</td>
<td>1400 x 2400</td>
<td>TTC</td>
<td>2350</td>
<td>2950</td>
<td>1400</td>
</tr>
<tr>
<td>2000</td>
<td>1500 x 2700</td>
<td>SEC</td>
<td>2500</td>
<td>3100</td>
<td>1500</td>
</tr>
<tr>
<td>2000</td>
<td>1500 x 2700</td>
<td>TTC</td>
<td>2500</td>
<td>3250</td>
<td>1500</td>
</tr>
<tr>
<td>2500</td>
<td>1800 x 2700</td>
<td>SEC</td>
<td>2900</td>
<td>3080</td>
<td>1800</td>
</tr>
<tr>
<td>2500</td>
<td>1800 x 2700</td>
<td>TTC</td>
<td>2900</td>
<td>3250</td>
<td>1800</td>
</tr>
<tr>
<td>3000</td>
<td>2000 x 2750</td>
<td>SEC</td>
<td>3285</td>
<td>3130</td>
<td>2000</td>
</tr>
<tr>
<td>3000</td>
<td>2000 x 2750</td>
<td>TTC</td>
<td>3285</td>
<td>3300</td>
<td>2000</td>
</tr>
<tr>
<td>3500</td>
<td>2100 x 3000</td>
<td>SEC</td>
<td>3360</td>
<td>3290</td>
<td>2100</td>
</tr>
<tr>
<td>3500</td>
<td>2100 x 3000</td>
<td>TTC</td>
<td>3360</td>
<td>3370</td>
<td>2100</td>
</tr>
<tr>
<td>4000</td>
<td>2100 x 3400</td>
<td>SEC</td>
<td>3360</td>
<td>3690</td>
<td>2100</td>
</tr>
<tr>
<td>4000</td>
<td>2100 x 3400</td>
<td>TTC</td>
<td>3360</td>
<td>3770</td>
<td>2100</td>
</tr>
</tbody>
</table>

* Car with front wall is also available as standard.

Correspondent dimensions are available in technical documentation for sales documents.

### Car types:
- TTC = Through Type Car (front and rear opening)
- SEC = Single Entrance Car

### DIMENSIONS IN VERTICAL SECTION

<table>
<thead>
<tr>
<th>Max. load (kg)</th>
<th>Car interior height (CH)</th>
<th>Pit depth (PH), nominal (mm)</th>
<th>Overhead (SH), nominal (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600/2000</td>
<td>2200</td>
<td>1450</td>
<td>3900</td>
</tr>
<tr>
<td>1600/2000</td>
<td>2300</td>
<td>1450</td>
<td>3900</td>
</tr>
<tr>
<td>1600/2000</td>
<td>2400</td>
<td>1450</td>
<td>3900</td>
</tr>
<tr>
<td>2500/3000</td>
<td>2200</td>
<td>1600</td>
<td>4100</td>
</tr>
<tr>
<td>2500/3000</td>
<td>2300</td>
<td>1600</td>
<td>4200</td>
</tr>
<tr>
<td>2500/3000</td>
<td>2400</td>
<td>1600</td>
<td>4300</td>
</tr>
<tr>
<td>3500/4000</td>
<td>2200</td>
<td>1800</td>
<td>4200</td>
</tr>
<tr>
<td>3500/4000</td>
<td>2300</td>
<td>1800</td>
<td>4200</td>
</tr>
<tr>
<td>3500/4000</td>
<td>2400</td>
<td>1750</td>
<td>4300</td>
</tr>
</tbody>
</table>
CONTROL SYSTEM FEATURES

1. SAFETY FEATURES
   - Rescue and failure detection
   - COD: Correction drive feature
   - MOP TC: Motor Protection
   - PDD N: Phase failure detection
   - RDF RC: Recall drive, drive buttons up and down, extra run button to enable
   - EEC C: Emergency exit contact in car
   - DTS: Drive time supervision
   - LOA M: Locking of automatic car door, mechanical lock
   - DZI N: Door zone indication, no buzzer
   - Precautions for special emergencies
     - FID BO: Fire detection, whole building, doors open
     - FID SO: Fire detection, manual switch, doors open
     - FRD: Fireman’s drive
   - Operation during stand-by power and recovery from power break
     - EBD A: Emergency battery drive, automatic
     - LPS TN: Elevator position synchronising, terminal floor, nominal speed
     - CEL S: Car emergency light, separate light
     - EBS S: Emergency battery supply with supervision
     - EPD MCF: Emergency power drive, to main floor, doors closed, full service
   - Means of emergency communication
     - ABE C: Alarm bell under/top of car
     - ABE M: Alarm bell at main floor
     - ISE F: Five-way intercom system
     - ISE N: Net intercom system
   - Other safety features and maintenance
     - BOF: Buttons to operate car doors for service purposes
     - CCM A: Car calls from machine room, all floors, also landing calls
     - CDC: Car door contact
     - CDL O: Car door limit switches, separate open limit
     - DOP: Door opening prevention switch in Maintenance Access Panel
     - EMH O: Emergency stop switch in well, one switch
     - EMR: Emergency stop switch on car roof
     - OSG C: Overspeed governor
     - OST T: Overspeed governor test
     - SED WSR: Service Drive, without limitations, car roof buttons with extra run buttons
     - SGE: Safety gear contact
     - TWS C: Tension weight switch of overspeed governor, car
     - LCD: Landing calls disconnect

2. PASSENGER COMFORT FEATURES
   - Entering and exiting
     - ACL B: Accurate Relevelling, Doors Open
     - NUD S: Nudging Service, shortened time by counting stops
     - DCB: Door close button
     - DCD: Door close button with indicator
     - DOB O: Door open button, normally open
     - DOB OI: Door open button with indicator
     - QCC: Quick close from new car call
     - SRC RNC: Curtain of light
     - REO O: Reopen by landing call
   - Protection against inconvenience caused by misuse
     - FCC: False Car Call Cancelling
     - LCC: Landing Call Cross Coupling
     - SPB BP: Stuck push button supervision
     - CCB: Car Calls Backwards
   - Traveling comfort, including ventilation and light
     - OCL A: Operation of car light
     - OCV A: Operation of car ventilation, automatic
     - OCV AF: Operation of car ventilation, automatic, switch to turn off
     - LWD: Load Weighing Device
     - CLS O: Car Light Supervision

3. SECURITY FEATURES
   - Anti-burglary
     - LOC E: Locking of car calls, reopen devices inoperative in closed doors, mechanically
     - LOC O: Locking of car calls, reopen devices operate normally
     - LOL E: Locking of landing calls, reopen devices inoperative in closed doors, mechanically
     - LOL O: Locking of landing calls, reopen devices operate normally
     - FRE: Fast recall
   - Means of emergency communication
     - ABE C: Alarm bell under/top of car
     - ABE M: Alarm bell at main floor
     - ISE F: Five-way intercom system
     - ISE N: Net intercom system
   - Other safety features and maintenance
     - BOF: Buttons to operate car doors for service purposes
     - CCM A: Car calls from machine room, all floors, also landing calls
     - CDC: Car door contact
     - CDL O: Car door limit switches, separate open limit
     - DOP: Door opening prevention switch in Maintenance Access Panel
     - EMH O: Emergency stop switch in well, one switch
     - EMR: Emergency stop switch on car roof
     - OSG C: Overspeed governor
     - OST T: Overspeed governor test
     - SED WSR: Service Drive, without limitations, car roof buttons with extra run buttons
     - SGE: Safety gear contact
     - TWS C: Tension weight switch of overspeed governor, car
     - LCD: Landing calls disconnect

4. CONTROL FEATURES
   - Adaptation to building
     - BMV R: Braking method of V/F-drive
     - CLF C: Car light fuse and car light main switch
     - MAF C: Main fuses control panel
     - MAS C: Main switch in control panel
     - FCS L: Failure current switch, one phase for lighting
     - TFC GST: Through type car
   - Priority services and service modes for special use
     - DOE B: Door open with extended time
     - OSS COI: Out of service switch in car, doors open, lights on, indication
     - OSS LC: Out of service switch at landing, doors closed, lights off
     - PRC K: Priority operation
     - PRL LA/LO: Priority at landings, low priority, all car calls/ one car call
     - ATS C: Attendant service, using car call buttons as indicators
   - Parking of free cars
     - PAD C: Parking at pre-defined floor, doors closed
     - PAM C: Parking at main floor, doors closed
     - PAS C: Parking at secondary floor, doors closed
   - Real-time adaptation to prevailing traffic
     - IDP: Intensive down peak
     - ITP: Intensive two way peak
     - IUP: Intensive up peak
     - BLF: Bypass load function
   - Information to passengers at landing
     - CPI EO/LO: Car position indicator at entrance floor/landings, dot matrix
     - GOL ETD: Acoustic device for arrival, at landing
     - LCL: Landing call registered light
     - LAL DB: Lanterns at landing, at deceleration points, switch on if no DIR

5. INFORMATION FEATURES
   - Information to passengers in car
     - ACU F: Interface, loudspeaker with interface for announcement device
     - CCL: Car call registered light
     - CPI CO: Car position indicator in car, dot matrix
     - CRB C: Car call registered buzzer
     - DIA C: Direction arrows in car
     - OLF C: Car overload function
   - Information in Maintenance Access Panel
     - CPI PS: Car position indicator in maintenance access panel
     - SCN N: Start counter, number of starts, not loosing data in power failure
     - DAL GP: Disturbance alarm
     - TSD ES: Traffic supervision display, with LEDs, in supervision room
     - LIL AM: Lift link, alarm, mode signals
     - LIL ABM: Lift link, alarm, position binary
     - KONE E-LINK™: Elevator Monitoring and command system

Black font: Standard built in features
Blue font: Optional features
KONE provides innovative and eco-efficient solutions for elevators, escalators, automatic building doors and the systems that integrate them with today's intelligent buildings.

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 NanoSpace™ and KONE UltraRope®.

KONE employs close to 50,000 dedicated experts to serve you globally and locally.

KONE OFFICES IN SOUTH EAST ASIA

Indonesia - PT. KONE Indo Elevator
Jakarta (main office) +61 21 6570 3990
Bali +62 361 895 7806
Bandung +62 22 8606 0804
Makassar +62 411 466 2780
Surabaya +62 31 855 6383
Yogyakarta +62 274 284 0089

www.kone.co.id

Malaysia - KONE Elevator (M) Sdn Bhd
Kuala Lumpur (main office) +603 7494 7500
Johor Bahru +607 559 0885
Penang +604 656 3222
Sabah +6015 4818 9128

www.kone.my

Philippines - KPI Elevators, Inc.
Makati City (main office) +632 811 2929
Cebu +63 32 233 5790

www.kone.ph

Singapore - KONE Pte Ltd
Singapore +65 6424 6246

www.kone.sg

Thailand - KONE Public Company Limited
Bangkok +66 2784 6500

www.kone.co.th

Vietnam - KONE Vietnam LLC
Ho Chi Minh (main office) +84 8 3997 5373
Hanoi +84 4 3974 9445

www.kone.vn

DISTRIBUTORS IN SOUTH EAST ASIA

Brunei
Yusoki Sdn Bhd +673 2790037

Cambodia
Comin Khmere +855 23 885 640

Laos
Comin Asia +856 30 777 4777

Myanmar
Octagon Automobile & Machinery Services Co., Ltd +95 9 8631438

Sarawak (Malaysia)
Elebest Engineering Sdn Bhd +60 82 365836

KONE Corporation
www.kone.com

This publication is for general informational purposes only and we reserve the right at any time to alter the product design and specifications. No statement in this publication shall be construed as a warranty or condition, express or implied, as to any product, its fitness for any particular purpose, merchantability, quality or representation of the terms of any purchase agreement. Minor differences between printed and actual colors may exist. KONE MonoSpace®, KONE EcoDisc™, KONE Care® and People Flow® are registered trademarks of KONE Corporation. Copyright © 2014 KONE Corporation.