

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 5000 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 5000 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 5000 kg, it can meet virtually every freight transportation requirement in a variety of building types.

SPECIAL DESIGN

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		
Load capacity (kg)	1600, 2000, 2500, 3000, 3500, 4000, 4500, 5000	
Speed (m/s)	Up to 1.0	
Max. travel (m)	Up to 40	
No. of floors	Up to 12	
Control	Down or full collective	
Group size	Simplex or duplex	
Hoisting machine	Gearless KONE EcoDisc®	
Doors	Automatic center opening	
Car door height (cm)	2100, 2200, 2300, 2400, 2500, 2600	
Code compliance	EN81-20, EN81-1:1998, EN81-70, GB7588-2003 and GOST 33984.1	

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		
Case example, Load 2000 kg/0.5 m/s	Conventional hydraulic	Gearless KONE Transys™
Speed (m/s)	0.6	0.5
Motor power (kW)	28	6
Starting current (AMP)	112 S/D	18
Main fuse size (AMP)	63	16
Power consumption (kWh) > 100,000 starts/year	10.400	5800
Thermal losses (kW)	5.8	1.9
Oil requirements (L)	240	0
Noise (dBA)*	Typically 70	Less than 55
Machine room (m ²)	6	0

* Measured 1 m from machine.

A WIDE CHOICE OF DURABLE INTERIOR MATERIALS

CAR OPERATING PANEL (COP)



HALL INDICATOR (HI)



HALL LANTERN (HL)



Full height COP Brushed stainless steel faceplate

LANDING CALL STATION WITH INDICATOR (LCI)



LANDING CALL STATION (LCS)



CEILINGS



CAR BUFFER RAILS

Type: **LF1** Finishing: PP10 White painted RAL 9010 Lighting: LED tubes



Type: CL88 Finishing: Silver brushed stainless steel (ST4) Silver brushed stainless steel (ST43) Lighting: LED spot

HANDRAIL



Finishing: Silver brushed stainless steel (ST4) Silver brushed stainless steel (ST43)

PP10 White painted RAL 9010

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

G compliant

Type: **CL91**

Lighting: LED tubes

FLOOR MATERIALS Rubber



RC7 Black Coin Pattern



FE-1 Tear Plate

WALL MATERIALS

Painted steel

BR1

Steel





BR1

Wood







ST43 Silver

Brushed stainless steel





TS2 Flemish Linen



PLANNING GUIDE





Shaft dimensions

DIMENSIONS IN HORIZONTAL SECTION WITHOUT FRONT WALL*					
Max. load (kg)	Car size (mm)	Car type	Shaft width (mm)	Shaft depth, nominal (mm)	Door width, nominal (mm)
1600	1400 x 2400	SEC	2350	2800	1400
1600	1400 x 2400	TTC	2350	2950	1400
2000	1500 x 2700	SEC	2500	3100	1500
2000	1500 x 2700	TTC	2500	3250	1500
2500	1800 x 2700	SEC	2900	3080	1800
2500	1800 x 2700	TTC	2900	3250	1800
3000	2000 x 2750	SEC	3285	3130	2000
3000	2000 x 2750	TTC	3285	3300	2000
3500	2100 x 3000	SEC	3360	3290	2100
3500	2100 x 3000	TTC	3360	3370	2100
4000	2100 x 3400	SEC	3360	3690	2100
4000	2100 x 3400	TTC	3360	3770	2100

DIMENSIONS IN VERTICAL SECTION			
Max. load (kg)	Car interior height (CH)	Pit depth (PH) nominal (mm)	Overhead (SH) nominal (mm)
1600/2000	2200	1450	3900
1600/2000	2300	1450	3900
1600/2000	2400	1450	3900
2500/3000	2200	1600	4100
2500/3000	2300	1600	4200
2500/3000	2400	1600	4300
3500/4000	2200	1800	4200
3500/4000	2300	1800	4200
3500/4000	2400	1750	4300

* 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

CONTROL SYSTEM FEATURES

1. SAFETY FEATURES			
Rescue an	d 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		
Precaution	is for special emergencies		
FID AO	Fire detection, whole building, alternative return floor, doors open		
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 e	mergency communication		
ABE C	Alarm bell under/top of car		
ABE M	Alarm bell at main floor		
ISE F	Five-way intercom system		
ISE N	ISE N Net intercom system		
Other safe	ty 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	
DCB I	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	O 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	
ССВ	Car Calls Backwards	
Traveling con	Traveling comfort, including ventilation and light	
OCL A	Operation of car light	
OCV A	OCV A Operation of car ventilation, automatic	
OCV AF	CV AF Operation of car ventilation, automatic, switch to turn off	
LWD	D Load Weighing Device	
CLS O	S O Car Light Supervision	

3. SECURI	TY FEATURES		
Anti-burgla	iry		
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		
4. CONTRO	DL FEATURES		
Adaptation	to building		
BMV R	Braking method of V ³ E-drive		
CLF C	Car light fuse and car light main switch		
MAFC	Main fuses control panel		
MASC	Main switch in control panel		
FCS L	Failure current switch, one phase for lighting		
ттс стѕ	Through type car		
Priority serv	vices 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 piority, all car calls/ one car call		
ATS C	Attendant service, using car call buttons as indicators		
Parking of f	ree 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 a	daptation to prevailing traffic		
IDP	Intensive down peak		
ITP	Intensive two way peak		
IUP	Intensive up peak		
BLF	Bypass load function		
5 INFORMATION FEATURES			
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		
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		

Black font: Standard built in features Blue font: Optional features

failure

Car call registered buzzer

Car position indicator in maintenance access panel

Start counter, number of starts, not loosing data in power

Traffic supervision display, with LEDs, in supervision room

Direction arrows in car

Car overload function Information in Maintenance Access Panel

Disturbance alarm

Lift link, alarm, mode signals

and voice alarm service

Lift link, alarm, position binary

Elevator Monitoring and command system

KONE China Remote Monitoring, data transmission

CRB C

DIA C

OLF C

CPI PS

SCN N

DAL GP

TSD ES

LIL AM

LIL AMB

KONE E-LINK™

CRM D/DV



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 managing the smooth flow of people and goods throughout buildings.

This makes us a reliable partner throughout the life cycle of buildings. 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 over 55,000 dedicated experts to serve you globally and locally.

KONE CORPORATION

Head office

Kartanontie 1 P.O. Box 8 FI-00331 Helsinki Finland Tel. +358 (0)204 751

Corporate offices

Keilasatama 3 P.O. Box 7 FI-02151 Espoo Finland Tel. +358 (0)204 751

www.kone.com

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