

## MACHINE-ROOM-LESS FREIGHT AND SERVICE ELEVATOR

KONE TranSys<sup>™</sup>

## 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<sup>™</sup> 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<sup>™</sup> 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

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The KONE TranSys<sup>™</sup> freight elevator solution is based on the KONE MonoSpace<sup>®</sup> platform. It incorporates the highly reliable and eco-efficient KONE EcoDisc<sup>®</sup> 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.

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## OUTSTANDING POWER AND PERFORMANCE

### **EXCEPTIONALLY SPACE-EFFICIENT**

The KONE TranSys<sup>™</sup> 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 30m<sup>3</sup> 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 V<sup>3</sup>F 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<sup>®</sup> 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.

# **SPECIAL DESIGN**

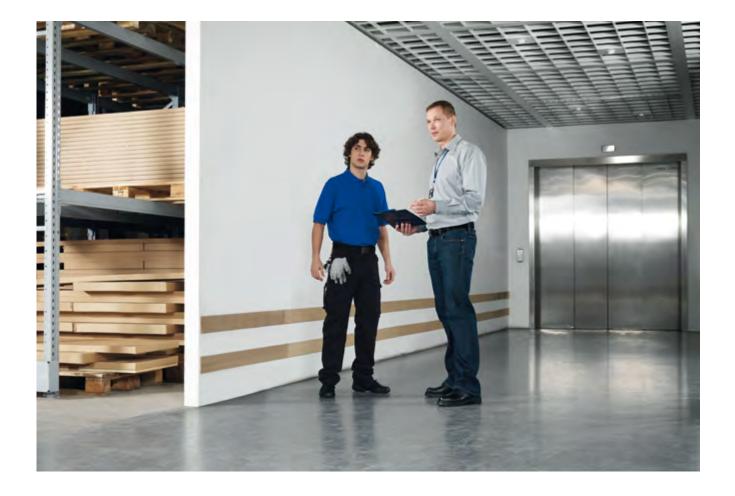
The KONE TranSys<sup>™</sup> cars and doors are built for the job. The car is finished in stainless or powder-painted steel, protected by buffer rails, and equipped with direct, fluorescent lighting. A second car operating panel is optional and combined with a 400 mm minimum floor-to-floor distance to suit the through-car application.



MAIN SPECIFICATIONS		
Load capacity (kg)	1600, 2000, 2500, 3000, 3500, 4000	
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<sup>™</sup> 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 (m²)	6	0	

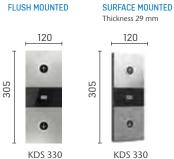
\* Measured 1 m from machine.

## CAR OPERATING PANEL (COP) HALL INDICATOR (HI)





### LANDING CALL STATION (LCS)





### HALL LANTERN (HL) FLUSH MOUNTED SURFACE MOUNTED Thickness 29 mm 120 120 243 243 KDS 330 KDS 330

## LANDING CALL STATION WITH INDICATOR (LCI)

SURFACE MOUNTED FLUSH MOUNTED Thickness 29 mm 120 120 0 365 365 KDS 330 KDS 330

### CEILINGS



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



Type: CL91 Finishing: Silver brushed stainless steel (ST4) Silver brushed stainless steel (ST43) PP10 White painted RAL 9010 Lighting: LED tubes

## **CAR BUFFER RAILS**







HR61 Round silver brushed

Available for Car door and Landing door



HR64 Bended silver brushed EN81-70 compliant
A\$1735.12 compliant

G compliant

### **FLOOR MATERIALS**

Rubber



RC7 Black Coin Pattern

#### Zinc coated steel



FE-1 Tear Plate

WALL MATERIALS

Painted steel



Linen Brown

Brushed stainless steel









A (AISI316) Acid proof

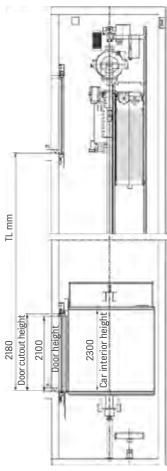
Textured steel

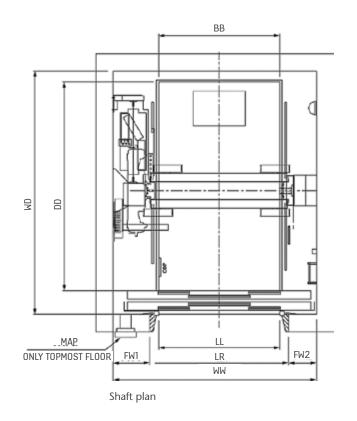
**ST4** Silver

**ST43** Silver

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## **PLANNING GUIDE**





Shaft dimensions

DII	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. SAFET	Y FEATURES	
Rescue and failure detection		
COD	Correction drive feature	
МОР ТС	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	ns 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	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.	PASSE	NGER CO	MFORT	FEATURES
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Entering a	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	Reopen by landing call		
Protection ag	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	nfort, 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. 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		
BMV R	Braking method of V <sup>3</sup> F-drive	
CLF C	Car light fuse and car light main switch	
MAFC	Main fuses control panel	
MASC	Main switch in control panel	
FCSL	Failure current switch, one phase for lighting	
	Through type car	
	vices and service modes for special use	
DOE B	Door open with extended time	
	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 adaptation to prevailing traffic		
IDP	Intensive down peak	
ITP	Intensive two way peak	
IUP	Intensive up peak	
BLF	Bypass load function	
5. INFURM	ATION FEATURES	
In Commentance		
	to passengers at landing	
CPI EO/LO	to passengers at landing Car position indicator at entrance floor/landings, dot matrix	
CPI EO/LO GOL ETD	<b>to passengers at landing</b> Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing	
CPI EO/LO GOL ETD LCL	t to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light	
CPI EO/LO GOL ETD LCL LAL DB	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR	
CPI EO/LO GOL ETD LCL LAL DB Informatior	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix	
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CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C	to passengers at landing         Car position indicator at entrance floor/landings, dot matrix         Acoustic device for arrival, at landing         Landing call registered light         Lanterns at landing, at deceleration points, switch on if no DIR         to passengers in car         Interface, loudspeaker with interface for announcement device         Car call registered light         Car call registered buzzer         Direction arrows in car         Car overload function	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car	
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CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C Information CPI PS	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car Car overload function in Maintenance Access Panel Car position indicator in maintenance access panel Start counter, number of starts, not loosing data in power	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C Information CPI PS SCN N	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car Car overload function in Maintenance Access Panel Car position indicator in maintenance access panel Start counter, number of starts, not loosing data in power failure	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C Information CPI PS SCN N DAL GP	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car Car overload function in Maintenance Access Panel Car position indicator in maintenance access panel Start counter, number of starts, not loosing data in power failure Disturbance alarm	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C Information CPI PS SCN N DAL GP TSD ES	to passengers at landingCar position indicator at entrance floor/landings, dot matrixAcoustic device for arrival, at landingLanding call registered lightLanterns at landing, at deceleration points, switch on if no DIRto passengers in carInterface, loudspeaker with interface for announcement deviceCar call registered lightCar position indicator in car, dot matrixCar call registered buzzerDirection arrows in carCar overload functionin Maintenance Access PanelCar position indicator in maintenance access panelStart counter, number of starts, not loosing data in power failureDisturbance alarmTraffic supervision display, with LEDs, in supervision room	
CPI EO/LO GOL ETD LCL LAL DB Information ACU F CCL CPI CO CRB C DIA C OLF C Information CPI PS SCN N DAL GP TSD ES LIL AM	to passengers at landing Car position indicator at entrance floor/landings, dot matrix Acoustic device for arrival, at landing Landing call registered light Lanterns at landing, at deceleration points, switch on if no DIR to passengers in car Interface, loudspeaker with interface for announcement device Car call registered light Car position indicator in car, dot matrix Car call registered buzzer Direction arrows in car Car overload function in Maintenance Access Panel Car position indicator in maintenance access panel Start counter, number of starts, not loosing data in power failure Disturbance alarm Traffic supervision display, with LEDs, in supervision room Lift link, alarm, mode signals	

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





## Contact us to discuss your project needs.

## Our engineers and sales consultants are always available to answer questions and provide speedy quotations no matter the job.

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