

# THE MACHINE- ROOM-LESS ELEVATOR

The background of the entire page is a photograph of a tall, modern apartment building. The building is constructed from light-colored bricks and features numerous windows and balconies. A prominent feature is a long, narrow, glass-enclosed elevator shaft that runs vertically through the center of the building, extending from the ground floor to the top. The sky is a clear, bright blue.

KONE E MonoSpace®

# ECONOMICAL AND EFFICIENT – KONE E MONOSPACE®

The KONE E MonoSpace® is an economical solution for providing reliable, efficient and comfortable transport between floors in residential buildings, up to eleven floors. Part of the KONE MonoSpace family, the KONE E MonoSpace elevator incorporates the core innovations that have made KONE the industry leader in eco-efficient elevator solutions. Clear specifications and a standardized offering make it easy to choose and install the solution that best fits the needs of your building.



The eco-efficient KONE EcoDisc hoisting system

## Pre-designed specifications to match your needs

The KONE E MonoSpace solution is offered with pre-designed options for car size and load. The available options are designed specifically to meet the typical needs of residential environments.

## Save energy with KONE eco-efficient technologies

The KONE E MonoSpace elevator is powered by the energy-efficient KONE EcoDisc® hoisting machine. It is also equipped with standby solutions that switch off the lighting and fan when the elevator is not in use.

## A smooth and quiet ride

The V3F variable-frequency drive along with the rigid car structure and its noise isolation, ensure a quiet, comfortable ride with smooth acceleration and

deceleration.

## Easy installation and maintenance

The KONE E MonoSpace has highly efficient scaffoldless installation methods that result in considerable cost savings for our customers and minimize disruptions to other construction work. Once the elevator is installed, KONE Care™ maintenance solutions help to keep your equipment running smoothly around the clock. KONE has a broad maintenance service supported by a global spare parts network.

## Certified for safety

All KONE manufacturing units are ISO 14001 certified and meet all elevator industry standards and requirements, including EN81-20.





# VISUAL OPTIONS

## Cost-effective design

With a selection of design components and materials to choose from, the KONE E MonoSpace® offers a cost-effective way to create a visually appealing elevator experience for the tenants in your building.

### Note:

Mirror is available in partial height/mid-width size, on rear wall only. Mirror can only be selected together with a handrail.

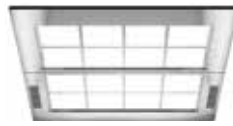
## CEILING



**LF10**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st  
PP10 White painted RAL9010



**LF12**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st



**CL70**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st



**CL71**  
Lighting: T5 fluorescent tubes  
Finishing: PP10 White painted RAL9010  
ST43 Silver brushed st st



**CL88**  
Lighting: LED spot  
Finishing: ST43 Silver brushed st st



**CL91**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st  
PP10 White painted RAL9010



**CL94**  
Lighting: T5 fluorescent tubes  
Finishing: PP10 White painted RAL9010  
ST43 Silver brushed st st



**CL95**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st



**CL103**  
Lighting: T5 fluorescent tubes  
Finishing: ST43 Silver brushed st st  
PP10 White painted RAL9010



**KONE E MonoSpace**

Ceiling: LF12, ST43  
Wall material: ST43 Silver brushed stainless steel  
Handrail: HR24R  
Flooring: D-6, Light Brown PVC

## SIGNALIZATION

Car operating panel (COP)



**KDS 50**  
Full height



**KSC 276**  
Full height

Handicap car operating panel



Keypad handicap car operating panel



Landing call station (LCI)



**KDS 50**  
Simplex



**KDS 50**  
Duplex



**KSL 281**  
Duplex

**KSL 281**  
Simplex

## HANDRAILS



**HR31**  
Round aluminium tube with black plastic end caps



**HR34**  
Round curved aluminium tube with black plastic end caps



**HR61**  
Round silver brushed



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



**HR24R**  
Curved ends silver brushed

## CAR WALL AND DOOR MATERIALS

Painted steel



**PP10**  
Pure White



**PP18**  
Linen Brown



**PP20**  
Wool Gray



**PP22**  
Fresh Green

Metallic panted steel



**METP1\***  
Champagne



**METP2**  
Cosmo Red

Stainless steel



**ST4/ST43**  
Silver brushed

## FLOORING

PVC



**D-6**  
Light Brown



**D24**  
Moon White



**D25**  
Rocky Gray



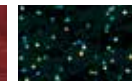
**D26**  
Lava Stone



**D27**  
Saturn Brown



**D29**  
Mars Red



**D30**  
Galaxy



**D31**  
Bamboo

Patterned PVC



**DG01**  
Brownly



**DG02**  
Chessboard



**DG03**  
Puzzle Soft



**DG04**  
Puzzle Bright

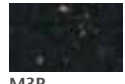


**DG05**  
Legno



**DG06**  
Blusher

Real stone



**M3R**  
Black Golden Sand

Artificial stone



**M5R**  
Pebble Gray

Rubber



**RC7**  
Black Coin Pattern

# FEATURES

## BUILT-IN

<b>MOP T</b>	Motor protection, thermistors with automatic reset
<b>PDD N</b>	Phase failure detection
<b>RDF RC</b>	Recall drive
<b>DTS</b>	Drive time supervision
<b>CDL O</b>	Car door limit switches, separate open limit
<b>EMR</b>	Emergency stop switch on car roof
<b>EMH O</b>	Emergency stop switch in well, one switch
<b>SGE</b>	Safety gear contact
<b>DOP</b>	Door opening prevention switch in controller
<b>TWS C</b>	Tension weight switch of overspeed governor, car
<b>EEC C</b>	Emergency exit contact in car
<b>OSS LC</b>	Out of service switch at landing, doors closed, lights off
<b>LCL</b>	Landing call registered light
<b>CCL</b>	Car call registered light
<b>OLF C</b>	Overload function, constant light
<b>DIA C</b>	Direction arrows in car
<b>CPI PS</b>	Car position indicator in controller, seven segment
<b>DZI N</b>	Door zone indication, no buzzer
<b>SCN N</b>	Start counter, number of starts, not losing data in power failure
<b>ACL B</b>	Accurate releveling, automatic both open and closed doors
<b>LCD</b>	Landing calls disconnect

<b>PAM C</b>	Parking at main floor, doors closed
<b>LPS VN</b>	Lift position synchronizing
<b>CEL S</b>	Car emergency lighting, separate light
<b>EBS S</b>	Emergency battery supply with supervision
<b>ABE C</b>	Alarm bell under/top of car
<b>ISE M</b>	Emergency intercom
<b>ISE F EAP</b>	Built in for CHN
<b>DOB OI</b>	Door open button, normally open contact
<b>DCB I</b>	Door close button
<b>NUD L</b>	Nudging service, by measuring load
<b>SRC RNC</b>	Safety ray in car, reope
<b>BOF</b>	Buttons to operate car doors for service purposes
<b>ACL C</b>	Accurate re-leveling, automatic, closed doors
<b>SPB BP</b>	Stuck button supervision, both calls, no service
<b>CCB</b>	Car calls backwards
<b>CLS O</b>	Car light supervision, parking doors open
<b>CCM A</b>	Car calls from machine room, all
<b>CDC</b>	Car door contact
<b>SED WSR</b>	Service drive, without limitations, car roof buttons with extra run button
<b>LOA MO</b>	Locking of automatic car doors, mechanical lock

## OPTION

<b>EEC S</b>	Emergency exit contact in shaft
<b>ABE M</b>	Alarm at main floor
<b>QCC</b>	Quick close from new car call
<b>DAL GP</b>	Disturbance alarm, general, potential free free
<b>LIL AM</b>	Lift link, alarm, mode signals
<b>LIL AMB</b>	Lift link, alarm, position binary
<b>TSD ES</b>	Traffic supervision display, with LEDs, in supervision room
<b>CTV I</b>	Camera in the car, interface only
<b>FCC R</b>	Two touch car call cancel
<b>KONE E-LINK™</b>	Elevator monitoring and command system
<b>KRM G</b>	KONE Remote Monitoring, GSM digital mobile network
<b>DIT LNP</b>	LAN cable inside travelling cable
<b>DIT OFS</b>	Optical fiber inside travelling cable
<b>FEB S</b>	Basement floor extension, separate buttons
<b>FET S</b>	Top floor extension, separate buttons
<b>PAD C</b>	Parking at pre-defined floor, doors closed
<b>EMH T</b>	Emergency stop switch in shaft pit, two switches
<b>ILA</b>	Immediate call allocation
<b>EAQ</b>	Earthquake operation with seismic switch
<b>EAQ</b>	Earthquake operation without seismic switch
<b>FPD AO</b>	Fire protection door
<b>LSH T</b>	Low smoke installation in shaft, traveling cable
<b>WSC O</b>	Water sensor contact, in pit
<b>SBM F</b>	Stand by mode
<b>FID BO</b>	Fire detection, whole building, doors open
<b>FID SO</b>	Fire detection, manual switch, doors open
<b>FRD</b>	Fireman's drive

<b>FID AO</b>	Fire detection, whole building, alternative return floor, doors open
<b>EBD A</b>	Emergency battery drive, automatic
<b>EPD MCF</b>	Emergency power drive, to main floor, doors closed, full service
<b>ISE N</b>	Multi-intercom system
<b>FCC C</b>	False car call cancel, by counting stops
<b>LCC</b>	Landing call cross coupling, time dependent
<b>OCL AF</b>	Operation of car light, automatic
<b>ATS C</b>	Attendant service, using car call buttons as indicators
<b>OSS COI</b>	Out of service switch in car, doors open, lights on, indication
<b>ACU F</b>	Lift announcer
<b>THD L</b>	Total harmonic distortion filtering for non MLB drive
<b>EPS S</b>	Emergency power sequencer, separate
<b>BMV MU</b>	Braking method, modulated line braking, resistor braking under special use
<b>LSC P</b>	Provision for loudspeaker in car
<b>LOC E</b>	Locking of car calls
<b>LOL E</b>	Locking of landing calls
<b>FRE</b>	Fast recall
<b>LSH A</b>	Low smoke installation in shaft, shaft and car wirings completely
<b>OCV AF</b>	Operation of car ventilation, automatic
<b>FPO A</b>	Full collective peel off, automatic
<b>CIC</b>	Corridor illumination control
<b>LOC E</b>	Locking of car calls
<b>CRB C</b>	Car call registered buzzer
<b>CNV N</b>	Convention feature, normal
<b>PRL LA/LO</b>	Priority at landing

**Remark:** Contact our KONE sales person for details.

# KONE E MONOSPACE®

## PLANNING DATA

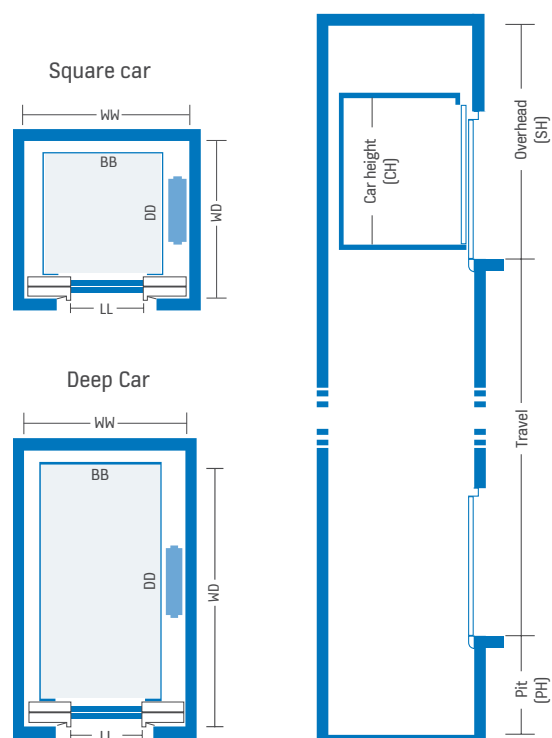
KONE E MONOSPACE BASIC DIMENSIONS									
Persons/ rated load [kg]	Car size BBxDD (mm)	Door type	Car type	LL (mm)	LR (mm)	WW (mm)		WD (mm)	
						NOM	MAX	NOM	MAX
4/320	900 x 1000	SO	SEC	700	900	1450	1750	1550	1950
5/400	950 x 1100	CO	SEC	800	1000	1750	1800	1480	1950
	950 x 1100	SO	SEC	700	900	1500	1800	1550	2050
	950 x 1100	SO	SEC	800	1000	1500	1800	1550	2050
6/450	1100 x 1150	CO	SEC	800	1000	1800	1950	1650	2000
	1100 x 1150	SO	SEC	800	1000	1650	1950	1700	2050
	1100 x 1200	CO	SEC	800	1000	1750	1850	1570	2130
	1100 x 1200	SO	SEC	800	1000	1550	1850	1700	2200
	1100 x 1200	SO	TTC	800	1000	1550	1850	1760	1760
6/480	950 x 1300	SO	SEC	700	900	1500	1800	1750	2300
	950 x 1300	SO	SEC	800	1000	1500	1800	1750	2300
	950 x 1300	SO	TTC	700	900	1500	1800	1860	1860
	950 x 1300	SO	TTC	800	1000	1500	1800	1860	1860
	1000 x 1250	CO	SEC	800	1000	1750	1850	1600	2180
	1000 x 1250	SO	SEC	800	1000	1550	1850	1700	2250
	1000 x 1250	SO	TTC	800	1000	1550	1850	1810	1810
	1000 x 1300	SO	SEC	700	900	1550	1850	1700	2230
	1000 x 1300	SO	SEC	800	1000	1550	1850	1700	2230
	1000 x 1300	SO	TTC	700	900	1550	1850	1860	1860
	1000 x 1300	SO	TTC	800	1000	1550	1850	1860	1860
	8/630	1100 x 1400	CO	SEC	800	1000	1800	1950	1700
1100 x 1400		CO	TTC	800	1000	1800	1950	1810	1810
1100 x 1400		CO	SEC	900	1100	2000	2170	1730	2350
1100 x 1400		CO	TTC	900	1100	2000	2170	1810	1810
1100 x 1400		SO	SEC	800	1000	1690	2030	1780	2420
1100 x 1400		SO	SEC	900	1100	1690	2030	1780	2420
10/800	1350 x 1400	CO	SEC	800	1000	1900	2220	1800	2330
	1350 x 1400	CO	TTC	800	1000	2060	2220	1810	1810
	1350 x 1400	SO	SEC	800	1000	1910	2280	1890	2420
	1350 x 1400	SO	SEC	900	1100	1910	2280	1890	2420
	1100 x 1650	CO	SEC	800	1000	1800	1970	2000	2580
	1100 x 1650	CO	SEC	900	1100	1950	1970	2000	2580
	1100 x 1650	CO	TTC	800	1000	1800	1970	2060	2060
	1100 x 1650	CO	TTC	900	1100	1950	1970	2060	2060
	1100 x 1650	SO	SEC	800	1000	1660	2030	2050	2670
	1100 x 1650	SO	SEC	900	1100	1660	2030	2050	2670
	1250 x 1500	CO	SEC	800	1000	1850	2120	1930	2430
	1250 x 1500	CO	SEC	900	1100	1950	2120	1930	2430
	1250 x 1500	CO	TTC	800	1000	1870	2120	1910	1910
	1250 x 1500	CO	TTC	900	1100	1970	2120	1910	1910
	1250 x 1500	SO	SEC	800	1000	1800	2120	2000	2400
	1250 x 1500	SO	SEC	900	1100	1800	2120	2000	2400
1250 x 1500	SO	TTC	800	1000	1820	2120	2060	2060	
1250 x 1500	SO	TTC	900	1100	1820	2120	2060	2060	
12/900	1400 x 1500	CO	TTC	900	1100	2225	2275	1960	1960
	1400 x 1500	CO	SEC	1000	1200	2200	2260	1980	2450
	1400 x 1500	SO	SEC	1000	1200	1950	2320	1990	2520
	1400 x 1500	CO	SEC	900	1100	2000	2270	1980	2360
	1400 x 1500	SO	SEC	900	1100	1950	2320	1990	2520

KONE E MONOSPACE BASIC DIMENSIONS									
Persons/ rated load (kg)	Car size BBxDD (mm)	Door type	Car type	LL (mm)	LR (mm)	WW (mm)		WD (mm)	
						NOM	MAX	NOM	MAX
13/1000	1100 x 2100	CO	SEC	900	1100	2000	2170	2400	3030
	1100 x 2100	CO	TTC	900	1100	2000	2170	2510	2510
	1100 x 2100	SO	SEC	800	1000	1660	1970	2480	3120
	1100 x 2100	SO	SEC	900	1100	1700	2070	2480	3120
	1100 x 2100	SO	SEC	1000	1200	1800	2070	2480	3120
	1300 x 1800	CO	SEC	900	1100	1950	2200	2080	2750
	1300 x 1800	CO	SEC	1000	1200	2150	2285	2080	2750
	1300 x 1800	SO	SEC	900	1100	1900	2200	2160	2800
	1300 x 1800	SO	SEC	1000	1200	1900	2200	2160	2800
	1400 x 1600	CO	SEC	900	1100	2000	2270	1950	2520
	1400 x 1600	CO	TTC	900	1100	2000	2270	2010	2010
	1400 x 1600	CO	SEC	1000	1200	2150	2260	1950	2520
	1400 x 1600	CO	TTC	1000	1200	2150	2260	2010	2010
	1400 x 1600	SO	SEC	900	1100	1950	2270	2030	2620
	1400 x 1600	SO	SEC	800	1000	1950	2270	2030	2620
	1500 x 1600	CO	SEC	900	1100	2050	2370	1990	2520
	1500 x 1600	CO	SEC	1000	1200	2150	2370	1990	2520
	1500 x 1600	SO	SEC	900	1100	2050	2370	2060	2620
	1500 x 1600	SO	SEC	1000	1200	2050	2370	2060	2620
	1600 x 1400	CO	SEC	900	1100	2150	2470	1850	2370
	1600 x 1400	CO	SEC	1000	1200	2150	2470	1850	2370
	1600 x 1400	SO	SEC	900	1100	2150	2520	1930	2420
	1600 x 1400	SO	SEC	1000	1200	2150	2520	1930	2420
	1600 x 1500	CO	SEC	900	1100	2150	2470	1940	2470
1600 x 1500	CO	SEC	1000	1200	2150	2470	1940	2470	
1600 x 1500	SO	SEC	900	1100	2150	2520	2030	2520	
1600 x 1500	SO	SEC	1000	1200	2150	2520	2030	2520	

OVERHEAD AND PIT DIMENSIONS					
Speed (m/s)	Car height, CH (mm)	Minimum headroom height, SH <sup>1)</sup> (mm)	Maximum headroom height, SH (mm)	Minimum pit height, PH (mm)	Maximum pit height, PH (mm)
1.0	2100 – 2400	CH + 1380	5000	1150	1650
1.6	2100 – 2400	CH + 1570	5000	1300	2500
1.75	2100 – 2400	CH + 1620	5000	1350	2500

Note:  
<sup>1)</sup> - SH in the table above, is based on 700 mm balustrade height and on 70 mm ceiling height.  
 - In cases where 1100 mm balustrade is used, please add 400 mm to the SH height.  
 - When the ceiling height exceeds 70 mm, SH value is to be added accordingly.

Speed	1.0 m/s, 1.6 m/s, 1.75 m/s
Load	320, 400, 450, 480, 630, 800, 900, 1000 kg
Max. stops	16 (1.0 m/s), 18 (1.6 m/s), 28 (1.75 m/s)
Max. travel	45 (1.0 m/s), 55 (1.6 m/s), 75 (1.75 m/s)
Car height (CH)	2100, 2200, 2300, 2400 mm





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 52,000 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](http://www.kone.com)