



MACHINE-ROOM-LESS GOODS AND SERVICE LIFT

KONE MonoGoods™



Moving goods and heavy loads just got easier

To move goods and heavy loads, you need a lift that is designed specifically for that purpose:

- Fast and durable hoisting to cope with rough treatment
- A smooth ride to handle fragile loads
- Levelling accuracy for easy loading and unloading
- Full-width doors that maximise the usage of space in the car
- A selection of signalisation and interior designs for an easy match to the building's interior

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

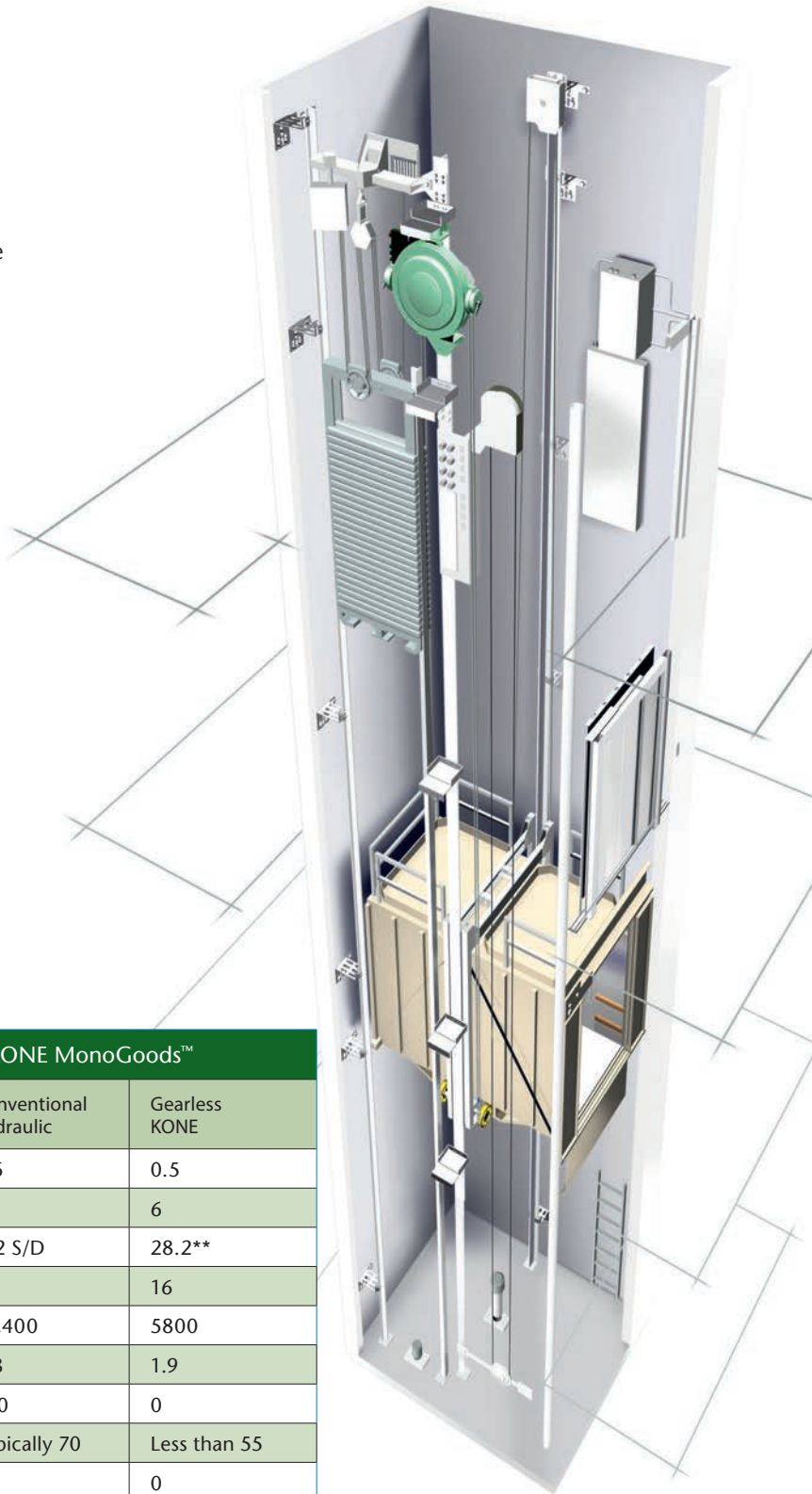
This lift is fully customisable and combines speed, power and premium quality designs.

More hoisting power, lower energy consumption

The power to lift up to 5000kg
 The KONE MonoGoods™ lift solution is based on the machine- room-less KONE MonoSpace® platform. It incorporates the highly reliable and eco-efficient KONE EcoDisc® hoisting machine for exceptional power and performance.

This machine delivers more hoisting power with less energy:

- It consumes 70% less energy than a hydraulic drive
- Over the lifetime of the equipment, the energy savings can amount to more than the original cost of the lift
- No oil is required, reducing fire risk and environmental impact



A typical 2000 kg hydraulic lift versus KONE MonoGoods™

Load 2000kg	Conventional hydraulic	Gearless KONE
Speed (m/s)	0.6	0.5
Motor power (kW)	28	6
Starting current (A)	112 S/D	28.2**
Main fuse size (A)	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.

** Including lighting.

Outstanding power and performance

Exceptionally space-efficient

The KONE MonoGoods™ lift needs no machine-room at all. This means:

- Easier positioning of the lift in the building
- Reduced building construction time and costs
- More efficient, safer lift installation processes
- Up to 30m³ extra building space that can be used more profitably.

Reliable, high performance

The KONE MonoGoods lift solution provides reliable operation, outstanding traffic performance and a smooth ride at up to 1.6m/s. The ride quality is the result of the motor's low rotational speeds. The low friction, gearless construction of the KONE EcoDisc® hoist reduces wear, so it increases the reliability and durability of the machine.





Easy loading and unloading

Powered by the gearless KONE EcoDisc® machine, the KONE MonoGoods lift solution features quiet operation, smooth running to protect fragile loads and ± 5 mm leveling accuracy to make loading and unloading easier.

Wide load range

The KONE MonoGoods lift is available in different car sizes to transport goods and other heavy loads. With a maximum load capacity of 5000 kg, it can meet virtually every transportation requirement in a variety of building types.

Main specifications	
Load capacity	1000 - 5000 kg/13 - 66 persons
Speed	0.5 - 1.6 m/s
Max. travel	40 m up to 4000 kg, 23m up to 5000kg
No. of floors	12, also applicable for TTC
Persons	13 - 66
Group size	Max. 4/group
Hoisting machine	Gearless KONE EcoDisc®
Doors	Automatic centre opening
Car door height	up to 2400 cm
Code compliance	EU directive 95/16; EN81-1:1998 Optional EN81-70, EN81-73 and EN81-71



Durable design

The KONE MonoGoods™ cars 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.

With a wide selection of wall, floor and landing door materials, the lift can be seamlessly integrated into the building's interior.

Extra wide doors

The KONE MonoGoods lift is equipped with full-width, centre opening doors, which retract fully for the easy movement of passengers and goods. Further door area protection includes a curtain of light or 3D passenger detection. The strong double skin door panels are finished in stainless, powder-painted steel or zinc coated steel.





A multi-purpose lift

This fast yet powerful lift can even be used as a passenger lift in shopping centres and airports where large lift cars and fast speeds ensure uninterrupted people flow throughout the building.

KONE Vehicle™ lift

The KONE MonoGoods lift is even suitable for vehicle transportation from underground or rooftop car parks where space is at a premium.

Its main features include:

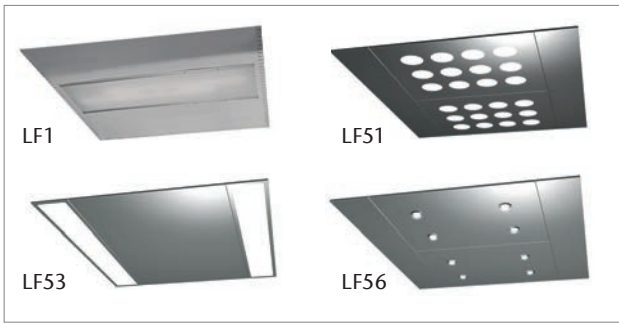
- Machine-room-less technology that allows for extra rooftop space
- Faster ride compared to hydraulic lifts
- Energy saving due to gearless hoisting technology
- Patented lightweight floor. Saves approx. 2000 kg in a typical 3000 x 6000 mm car compared to a conventional floor
- Full car width doors
- Easy lift call with a separate landing call station on a raised pedestal
- KONE 3D passenger detector opens the lift doors as you approach and keeps them open as you enter or exit.

KONE MonoGoods™ signalisation

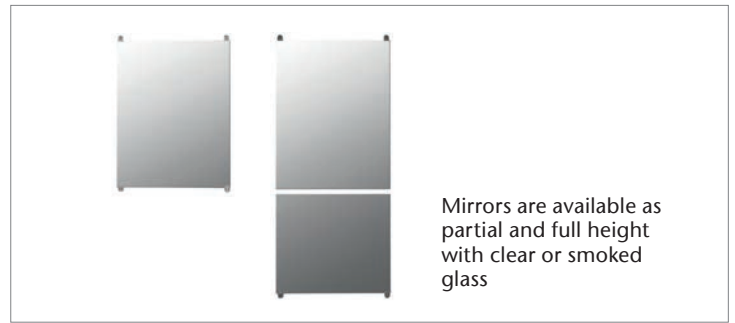
Select from a wide range of durable and user-friendly lift signalisation series

KSS 130	KSS 305	KSS 420	KSS 470	KSS 670
				
<p>Faceplate finishing: Scottish Quad, textured stainless steel and Asturias Satin brushed stainless steel</p> <p>Vandal resistant (EN81-71 compatible) and suitable for fire fighting lifts</p>	<p>Faceplate finishing: Coated metal (R1), Monterrey Silver</p>	<p>Faceplate finishing: Asturias Satin brushed stainless steel</p>	<p>Faceplate finishing: Asturias Satin brushed stainless steel</p>	<p>Faceplate finishing: Asturias Satin brushed stainless steel</p>

Ceiling



Mirrors



Wall material



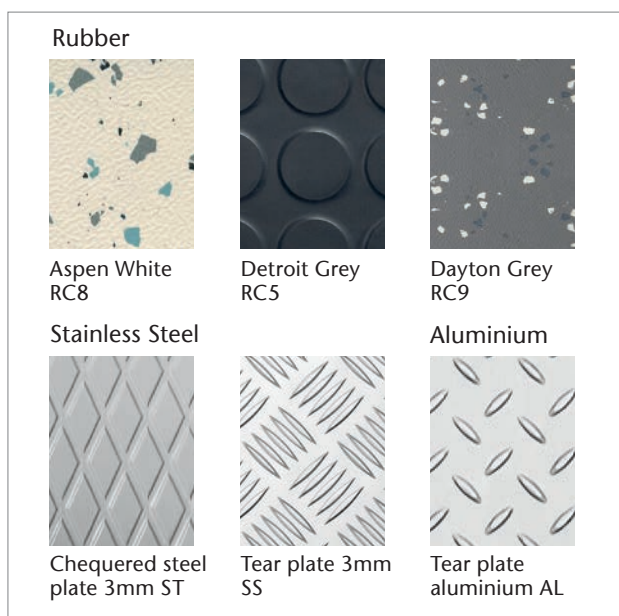
KES 600 / KES 800 door finishes



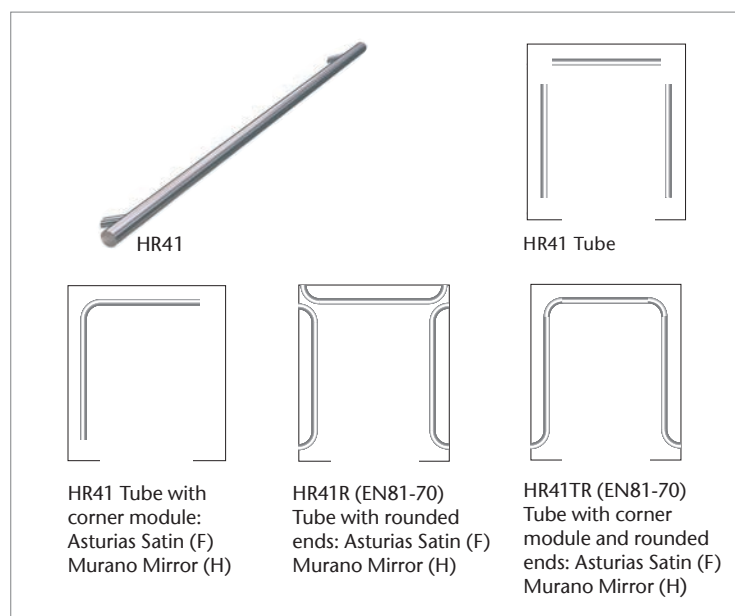
Car buffer rails



Floor material



Handrails

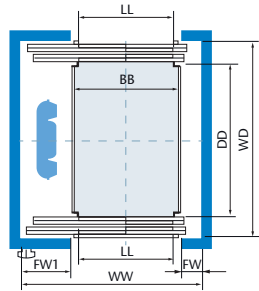
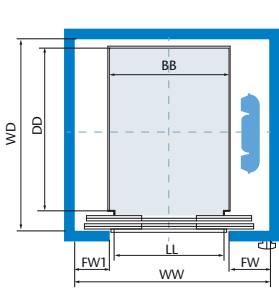


Planning data

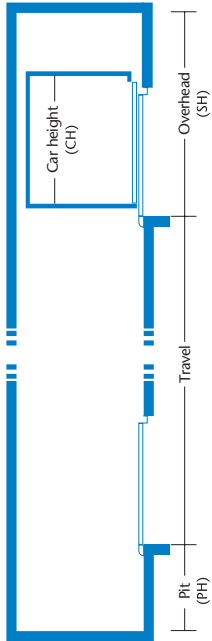
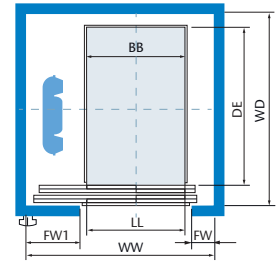
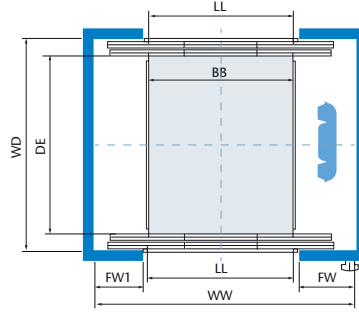
Car with front wall, door LL ≠ BB											
Car		Door				Shaft dimensions					
						2-panel Side opening doors **		4-panel centre opening doors **		6-panel centre opening doors	
Speed m/s	Person / Load	BB x DD	LL	Door type	Opening	WW	WD	WW	WD	WW	WD
0.5 - 1.0	17 / 1275	1200 x 2300	1100	Side	Single	2100	2750	-	-	-	-
		1200 x 2250	1100	Side	Through	2100	2870	-	-	-	-
0.5 - 1.0	21 / 1600	1400 x 2400	1300	Side	Single	2400	2850	-	-	-	-
		1400 x 2400	1300	Center	Single	-	-	2350	2850	-	-
		1400 x 2300	1300	Side	Through	2400	2920	-	-	-	-
		1400 x 2300	1300	Center	Through	-	-	2350	3000	-	-
0.5 - 1.0	24 / 1800	1400 x 2550	1400	Side	Single	2450	3100	-	-	-	-
		1400 x 2550	1400	Center	Single	-	-	2400	3100	-	-
		1400 x 2450	1400	Side	Through	-	-	-	-	-	-
		1400 x 2450	1400	Center	Through	-	-	-	-	-	-
0.5 - 1.0	26 / 2000	1500 x 2700	1300	Side	Single	2400	3150	-	-	-	-
		1500 x 2700	1300	Center	Single	-	-	2400	3150	-	-
		1500 x 2600	1300	Side	Through	2400	3220	-	-	-	-
		1500 x 2600	1300	Center	Through	-	-	2400	3300	-	-
0.5 - 1.0 1.6*	33 / 2500	1800 x 2650	1700	Center	Single	-	-	3000	3100	-	-
		1800 x 2550	1700	Center	Through	-	-	3000	3250	-	-
		1800 x 2700	1300	Side	Single	3000	3150	-	-	-	-
		1800 x 2700	1400	Side	Single	3000	3150	-	-	-	-
		1800 x 2600	1300	Side	Through	3000	3220	-	-	-	-
		1800 x 2600	1400	Side	Through	3000	3220	-	-	-	-
0.5 - 1.0 1.6*	40 / 3000	2000 x 2700	1800	Center	Single	-	-	3200	3150	-	-
		2000 x 2700	1800	Center	Through	-	-	3200	3400	-	-
0.5 - 1.0	46 / 3500	2100 x 3000	1800	Center	Single	-	-	3250	3450	-	-
		2100 x 2950	1800	Center	Through	-	-	3250	3650	-	-
0.5 - 1.0	53 / 4000	2100 x 3400	1800	Center	Single	-	-	3250	3850	-	-
		2100 x 3300	1800	Center	Through	-	-	3250	4000	-	-
*0.5 - 1.0	60 / 4500	2500 x 3100	2200	Center	Single	-	-	3650	3550	-	-
		2450 x 3100	2100	Center	Through	-	-	3600	3800	-	-
*0.5 - 1.0	66 / 5000	2500 x 3500	2200	Center	Single	-	-	3650	3950	3650	4050
		2400 x 3500	2100	Center	Through	-	-	3550	4200	3550	4400
*0.5 - 1.0	Vehicle lift 40/3000	2500 x 5500	2200	Center	Single	-	-	-	-	3700	6100
		2500 x 5500	2200	Center	Through	-	-	-	-	3700	6400
*0.5 - 1.0	Vehicle lift 53/4000	3000 x 6000	2700	Center	Single	-	-	-	-	4200	6600
		3000 x 6000	2700	Center	Through	-	-	-	-	4200	6900

Car without front wall, door LL = BB											
Car		Door				Shaft dimensions**					
						2-panel Side opening doors **		4-panel centre opening doors **		6-panel centre opening doors	
Speed m/s	Person / Load	BB x DE	LL	Door type	Opening	WW	WD	WW	WD	WW	WD
0.5 - 1.0	13 / 1000	1300 x 1750	1300	Side	Single	2350	2250	-	-	-	-
		1300 x 1750	1300	Center	Single	-	-	2300	2250	-	-
		1100 x 2100	1100	Side	Through	2050	2650	-	-	-	-
0.5 - 1.0	21 / 1600	1400 x 2400	1400	Side	Single	2450	2800	-	-	-	-
		1400 x 2400	1400	Center	Single	-	-	2450	2800	-	-
		1400 x 2400	1400	Side	Through	2450	2950	-	-	-	-
0.5 - 1.0	24 / 1800	1400 x 2400	1400	Center	Through	-	-	2400	2950	-	-
		1400 x 2550	1400	Side	Single	2450	2950	-	-	-	-
		1400 x 2550	1400	Center	Single	-	-	2400	2950	-	-
0.5 - 1.0	26 / 2000	1400 x 2550	1400	Center	Single	-	-	2400	2950	-	-
		1400 x 2550	1400	Side	Through	2450	3100	-	-	-	-
		1400 x 2550	1400	Center	Through	-	-	2400	3100	-	-
0.5 - 1.0	33 / 2500	1500 x 2700	1500	Center	Single	-	-	2500	3100	-	-
		1500 x 2700	1500	Center	Through	-	-	2500	3250	-	-
0.5 - 1.0 1.6*	33 / 2500	1800 x 2700	1800	Center	Single	-	-	3050	3100	-	-
		1800 x 2700	1800	Center	Through	-	-	3050	3250	-	-
0.5 - 1.0 1.6*	40 / 3000	2000 x 2750	2000	Center	Single	-	-	3300	3150	-	-
		2000 x 2750	2000	Center	Through	-	-	3300	3300	-	-
0.5 - 1.0	46 / 3500	2100 x 3000	2100	Center	Single	-	-	3400	3400	-	-
		2100 x 3000	2100	Center	Through	-	-	3400	3550	-	-
0.5 - 1.0	53 / 4000	2100 x 3400	2100	Center	Single	-	-	3400	3800	-	-
		2100 x 3400	2100	Center	Through	-	-	3400	3950	-	-
		2100 x 3400	2100	Center	Through	-	-	3400	3950	-	-
*0.5 - 1.0	60 / 4500	2500 x 3100	2500	Center	Single	-	-	3900	3500	-	-
		2400 x 3300	2400	Center	Through	-	-	3750	3850	-	-
*0.5 - 1.0	66 / 5000	2500 x 3500	2500	Center	Single	-	-	3900	3900	3650	4000
		2400 x 3650	2400	Center	Through	-	-	3750	4200	3550	4400
*0.5 - 1.0	Vehicle lift 40/3000	2500 x 5575	2500	Center	Single	-	-	-	-	3700	6100
		2500 x 5650	2500	Center	Through	-	-	-	-	3700	6400
*0.5 - 1.0	Vehicle lift 53/4000	3000 x 6075	3000	Center	Single	-	-	-	-	4200	6600
		3000 x 6150	3000	Center	Through	-	-	-	-	4200	6900

Car with front wall, door LL ≠ BB



Car without front wall, door LL = BB



Vertical shaft arrangement for a single and a dual entrance car			
Speed m/s	Person / load kg	Min. headroom height (SH) mm	Min. pit height (PH) mm
0.5 - 1.0	13 / 1000	CH + 1600	1250
0.5 - 1.0	17 / 1275	CH + 1600	1250
0.5 - 1.0	21 / 1600	CH + 1600	1250
0.5 - 1.0	26 / 2000	CH + 1600	1250
0.5 - 1.0	33 / 2500	4100	1600
1.6	33 / 2500	4100	1700
0.5 - 1.0	40 / 3000	4100	1600
1.6	40 / 3000	4100	1700
0.5 - 1.0	46 / 3500	4100	1750
1.6	46 / 3500	4100	1750
0.5 - 1.0	53 / 4000	4100	1750
0.5 - 1.0	60 / 4500	4500	2100
0.5 - 1.0	66 / 5000	4500	2100
Vehicle lifts		4750	2400

- MAX PH = 2500 (A-process)
- Q ≤ 2000 kg PH = PH + 500 mm if safety gear on CWT side is request
- Q = 2500 kg PH = 2150 mm if safety gear on CWT side is request.
- Q > 2500 kg CWT safety gear only case by case

Control system features	
System features	Availability
KONE Remote Monitoring with GSM connection	○
EN81-71, Vandal resistant lifts, category 1	○
EN81-73, Behaviour of lifts in the event of fire	○
KONE E-link	○
Automatic evacuation to nearest landing (EBD A)	○
Eco-efficiency features	
Regenerative drive	○*
Fluorescent car lighting	●
Car light standby (OCL A)	○
Ventilation standby (OCV A)	○
Signalisation dimming	●
Drive standby	○*
Corridor illuminating control (CIC)	○
Accessibility features	
EN81-70, Accessibility to lifts for persons including persons with disability	○
Curtain of light (COL)	○
3D passenger detector	○
Lift announcer (ACU)	○
Door open with extended door time (DOE B)	○
Accurate leveling doors open (ACL/B)	○
Security features	
Locking of car calls (LOC)	○
Priority call in car (PRC)	○

* Please consult your KONE sales professional



KONE provides innovative and eco-efficient solutions for lifts, escalators, doors, loading bays and access. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernisation. 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™, KONE InnoTrack™ and KONE UniDrive™. You can experience these innovations in architectural landmarks such as 30 St. Mary Axe and Broadgate and 201 Bishopsgate buildings, BAA Terminal 5, Emirates Stadium, Brunel University, Citigroup, Jubilee Line and St. Georges Wharf.

KONE employs approximately 35,000 dedicated experts to serve you globally and locally in 50 countries.

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