Planning Guide

KONE TranSys™ DX
Speed 0.5 - 1.6 m/s
Rated load 1600 - 5000 kg

www.kone.ae

Dedicated to
People Flow™

Configuring your elevator shaft

Configure your elevator to match your unique requirements. Please contact us directly if you have a challenge with the elevator shaft headroom or pit depth of your project. Please be aware what function your elevator is to perform, and contact us for any specialist applications to ensure all requirements are correctly covered.

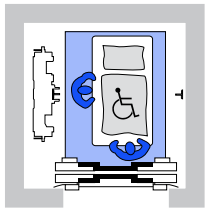
All dimensions conform with EN 81-20/50 and are in mm unless otherwise stated. All figures shown assume the elevator shaft wall is either concrete, masonry or blockwork with a minimum standard of thickness and strength. All information is for project planning purposes only. Please contact us for verified dimensions for your specific project. Subject to change without notice.

Technical specifications

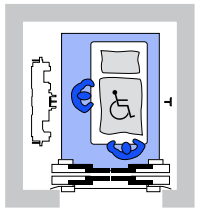
	KONE TranSys™ DX
Load (kg)	1600 / 1800 / 2000 / 2500 / 3000 / 3500 / 4000 / 4500 / 5000
Speed (m/s)	0.5 / 1.0 / higher speed on request
Max. floors	12
Max. travel	40 m (up to 2000 kg) / 23 m (up to 5000 kg)
Car type	Single and through-type car
Car dimensions	Standard / Flexible
Car height (mm)	2100 / 2200 / 2300 / 2400 / 2500 / 2600 / 2700 / 2800 / 2900 / 3000
Door type	Side / Centre
Door duty	High (KES 800)
Group size	4

Recommended bed passenger elevators

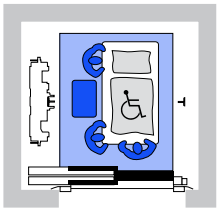
Specifications according to ISO 8100-30 / EN 15309



1.600 kg
Car size: 1.400 × 2.400 mm
Door width: 1.300 mm
Bed: 900 × 2.000 mm



2.000 kg
Car size: 1.500 × 2.700 mm
Door width: 1.300 mm
Bed: 1.000 × 2.300 mm



2.500 kg
Car size: 1.800 × 2.700 mm
Door width: 1.400 mm
Bed: 1.000 × 2.300 mm + medical device

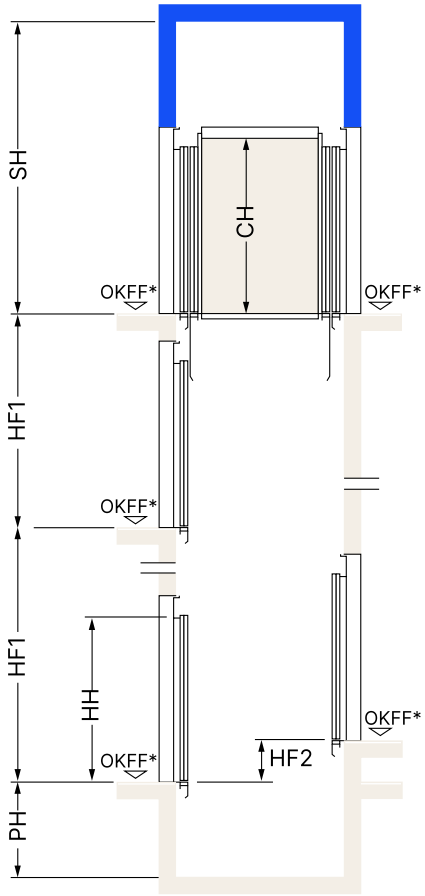
Vertical shaft dimensions

Floor to floor distance	
Same side [HF1]	**Opposite side [HF2]**
min. HH+600	min. 50

with standard headroom and pit height according to EN 81-20

Car height [CH]	Door height [HH]	Car height [CH]	Door height [HH]
Suspended ceiling CL80, CL96, C109		Integrated ceiling LF1	
2100	max 2000	2100	max 2100
2200	max 2100	2200	max 2200
2300	max 2200	2300	max 2300
2400	max 2300	2400	max 2400
2500	max 2400	2500	max 2500
2600	max 2500	2600	max 2600
2700	max 2600	2700	max 2700
–	–	2800 [1]	max 2800
–	–	2900 [1]	max 2900
–	–	3000 [1]	max 3000

Load	Headroom height [HH]		Pit depth	Pit depth with counterweight safety gear [PH] [3]
	Suspended ceiling CL80, CL96, C109	Integrated ceiling LF1		
1600	CH + 1750	CH + 1700	1250 – 2000	1750
1800 - 2000	CH + 1700	CH + 1700	1300 - 2000	1750
2500	4100 when CH≤ 2300	4100 when CH≤ 2400	1600 – 2200	2150
3000	CH+1800 when CH> 2300	CH+1700 when CH> 2400	1600 – 2200	2150
3500			1750 – 2200	2150
4000			1750 – 2200	2150
4500	Not available	CH+1900 (min. 4200)	2100 – 2500	2500
5000	Not available	CH+1900 (min. 4200)	2100 – 2500	2500



* Upper edge of finished floor

with low headroom according to EN 81-21 [4]

Speed (m/s)	Load (kg)	Headroom height (mm) [2]
0.5 - 1.0	1600	CH + 1550
	1800	CH + 1550
	2000	CH + 1550

with low pit according to EN 81-21 [4]

Speed (m/s)	Load (kg)	Pit depth (mm) [2]
0.5 - 1.0	1600	975 (min BB = 1250)
	1800	1050 (min BB = 1650)
	2000	1050 (min BB = 1650)

Legende

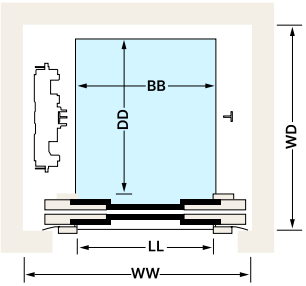
CH = Car height
HH = Door height
SH = Headroom height
PH = Pit depth

[1] Only available for loads 4000 - 5000 kg
[2] Dimensions calculated with LF1 ceiling. Other ceilings require higher headroom height
[3] Mandatory in case of accessible space below the shaft pit
[4] Please verify your national legislation if any national procedure is in place and prior approval is needed to use EN81-21 dimensions

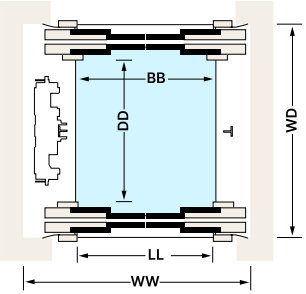
Configuration and dimensions

TranSys™ DX
KES 800 Centre opening doors
Door width = Car width

Single entrance car



Through-type car



[1] Firefighter elevators complying with EN 81-72 require larger shaft dimensions.

Bed elevators with a nominal load of 1600 kg or higher according to ISO 8100-30 / EN 85309

Accessibility elevators in compliance with EN 81-70:2021

We will be happy to advise you personally on your plans. You can either contact your consultant directly or complete the form on our website.

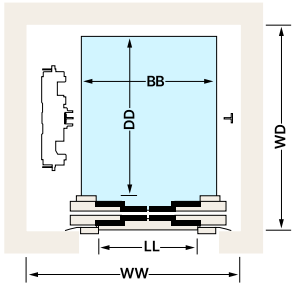
Persons / Rated load [kg]	Car width [BB]	Car depth [DD]	Door width [LL]	Speed [m/s]	Shaft width [1] [WW]	Shaft depth [WD] [1]	
						Single entrance car	Through-type car
21/1600	1400	2300	1400	0.5/1.0	2360	–	2990
	1400	2400	1400	0.5/1.0	2360	2850	–
24/1800	1400	2550	1400	0.5/1.0	2360	3000	3240
26/2000	1500	2550	1500	0.5/1.0	2485	–	3240
	1500	2600	1500	0.5/1.0	2485	3050	–
33/2500	1800	2550	1800	0.5/1.0	2860	–	3240
	1800	2650	1800	0.5/1.0	2860	3100	–
40/3000 ♿	2000	2650	2000	0.5/1.0	3250	–	3340
	2000	2750	2000	0.5/1.0	3250	3200	–
46/3500 ♿	2100	2900	2100	0.5/1.0	3330	–	3410
	2100	3000	2100	0.5/1.0	3330	3360	–
53/4000 ♿	2100	3300	2100	0.5/1.0	3330	–	3810
	2100	3400	2100	0.5/1.0	3330	3760	–
60/4500 ♿	2500	3100	2500	0.5/1.0	3725	3535	–
	2300	3300	2300	0.5/1.0	3495	3710	3910
66/5000 ♿	2600	3300	2600	0.5/1.0	3845	3710	–
	2400	3400	2400	0.5/1.0	3610	–	4010

All dimensions are in mm unless otherwise stated. Shaft dimensions include +/- 25 mm horizontal tolerance over total shaft height.
All information is for project planning purposes only. Subject to change without notice.

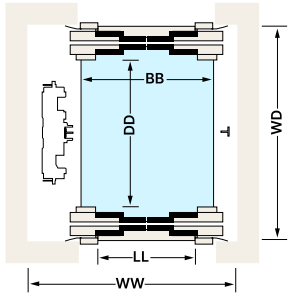
Configuration and dimensions

TranSys™ DX
KES 800 Centre opening doors
Door width < Car width

Single entrance car



Through-type car



Persons / Rated load [kg]	Car width [BB]	Car depth [DD]	Door width [LL]	Speed [m/s]	Shaft width [1] [WW]	Shaft depth [WD] [1]	
						Single entrance car	Through-type car
21/1600 🛏	1400	2400	1300	0.5/1.0	2285	2850	–
	1400	2300	1300	0.5/1.0	2285	–	2990
26/2000 🛏	1500	2700	1300	0.5/1.0	2335	3150	–
	1500	2600	1300	0.5/1.0	2335	–	3290
33/2500 🛏	1800	2650	1700	0.5/1.0	2785	3100	–
	1800	2550	1700	0.5/1.0	2785	–	3240
40/3000 ♿	2000	2700	1800	0.5/1.0	3100	3150	–
	2000	2700	1800	0.5/1.0	3100	–	3390
46/3500 ♿	2100	3000	1800	0.5/1.0	3145	3360	–
	2100	2900	1800	0.5/1.0	3145	–	3410
53/4000 ♿	2100	3400	1800	0.5/1.0	3145	3760	–
	2100	3300	1800	0.5/1.0	3145	–	3810
60/4500 ♿	2500	3100	2200	0.5/1.0	3630	3485	–
	2300	3300	2200	0.5/1.0	3530	–	3810
66/5000 ♿	2400	3500	2200	0.5/1.0	3580	3860	4010

[1] Firefighter elevators complying with EN 81-72 require larger shaft dimensions.

🛏 Bed elevators with a nominal load of 1600 kg or higher according to ISO 8100-30 / EN 85309

♿ Accessibility elevators in compliance with EN 81-70:2021

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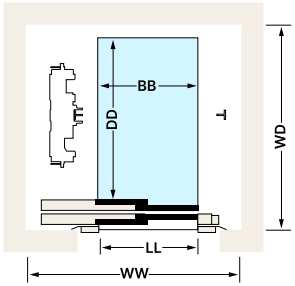
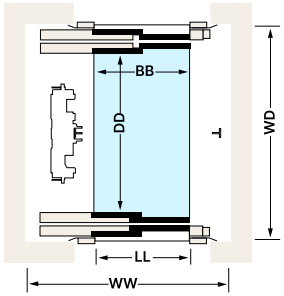
Configuration and dimensions

TranSys™ DX
KES 800 Side opening doors
Door width = Car width

Single entrance car



Through-type car



Persons / Rated load [kg]	Car width [BB]	Car depth [DD]	Door width [LL]	Speed [m/s]	Shaft width [1] [WW]	Shaft depth [WD] [1]	
						Single entrance car	Through-type car
21/1600 🛏	1400	2400	1400	0.5/1.0	2470	2850	–
	1400	2300	1400	0.5/1.0	2470	–	2990
24/1800 🛏	1400	2600	1400	0.5/1.0	2470	3050	–
	1400	2550	1400	0.5/1.0	2470	–	3240

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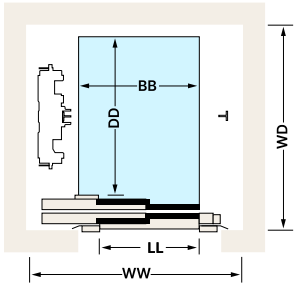
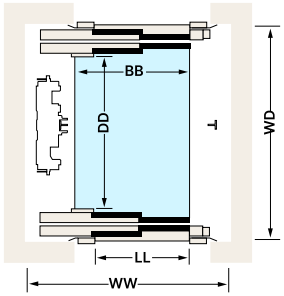
Configuration and dimensions

TranSys™ DX
KES 800 Side opening doors
Door width < Car width

Single entrance car



Through-type car



Persons / Rated load [kg]	Car width [BB]	Car depth [DD]	Door width [LL]	Speed [m/s]	Shaft width [1] [WW]	Shaft depth [WD] [1]	
						Single entrance car	Through-type car
21/1600 🛏	1400	2400	1300	0.5/1.0	2315	2810	–
	1400	2400	1300	0.5/1.0	2315	–	3010
26/2000 🛏	1500	2700	1300	0.5/1.0	2315	3110	–
	1500	2600	1300	0.5/1.0	2315	–	3210
33/2500 🛏	1800	2700	1300	0.5/1.0	2600	3110	–
	1800	2700	1400	0.5/1.0	2605	3110	–
	1800	2600	1300	0.5/1.0	2600	–	3210
	1800	2600	1400	0.5/1.0	2605	–	3210

[1] Firefighter elevators complying with EN 81-72 require larger shaft dimensions.

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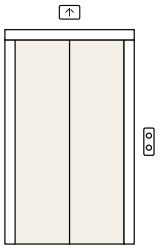
Door types and maintenance panel

The selection of elevator doors plays a crucial role in both performance and aesthetics. We provide door systems tailored to various needs and preferences.

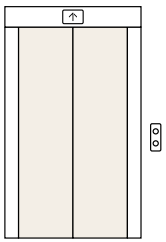
This planning guide includes shaft dimensions for the most common car dimensions with KES 800. If you have specific car dimensions in mind for your project, feel free to contact us.

Door type	Door duty
KES 800	Up to 800,000 starts per year

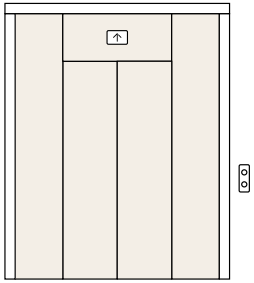
Technical specifications	
Door opening	Side / Centre opening
Door height [mm]	2000/2100/2200/2300/2400/2500/2600 /2700/2800/2900/3000
Door width [mm]	900/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/2000/2100/2200/2300/2400/2500/2600/2700/2800/2900



KES 800 with narrow frame (width 50 mm all-round)

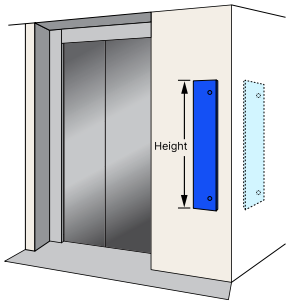


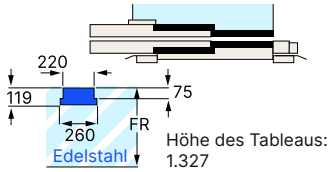
KES 800 with frame (120 mm side and 150 mm top)



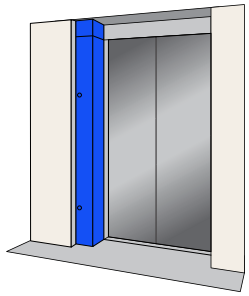
KES 800 with front door

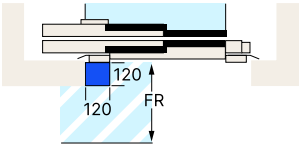
Wall-mounted maintenance panel





Door-mounted maintenance panel





Technical specifications

- Placement in the topmost floor. Option: Can be moved up to 18 m below the topmost floor
- Always located on the motor side
- Minimum 700 mm required for maintenance and 1 200 mm in public use areas
- Door-mounted panel only available for front door and frame door with minimum 120 mm width
- Wall-mounted panel also available on the side wall of the shaft

Consult your local KONE sales representative.
We will be happy to advise you personally. All dimensions are in mm unless otherwise stated. All information is for project planning purposes only. Subject to change without notice.

Successful planning with KONE

Whether you project involves a new build, conversion, modernization or operation, you can be assured of success with us as your partners. We not only advise you on finding and implementing solutions, but also help you with our expert knowledge of standards, safety and sustainability, as well as future-proofing.

Planning

SUSTAINABLE · FUTURE-PROOF · INDIVIDUAL

We can work with you to analyse the building requirements and your needs in order to find the best possible solution. We consider standards & regulations, energy efficiency, technology, digitalisation, comfort and your ideas regarding design and equipment.

Construction

SAFETY · TIME · COST

Our certified processes and quality criteria at every stage of installation mean you can rest assured of the compliance of your plans. Our unique installation method inside the shaft saves time and money and reduces the need to coordinate with other tradespeople.

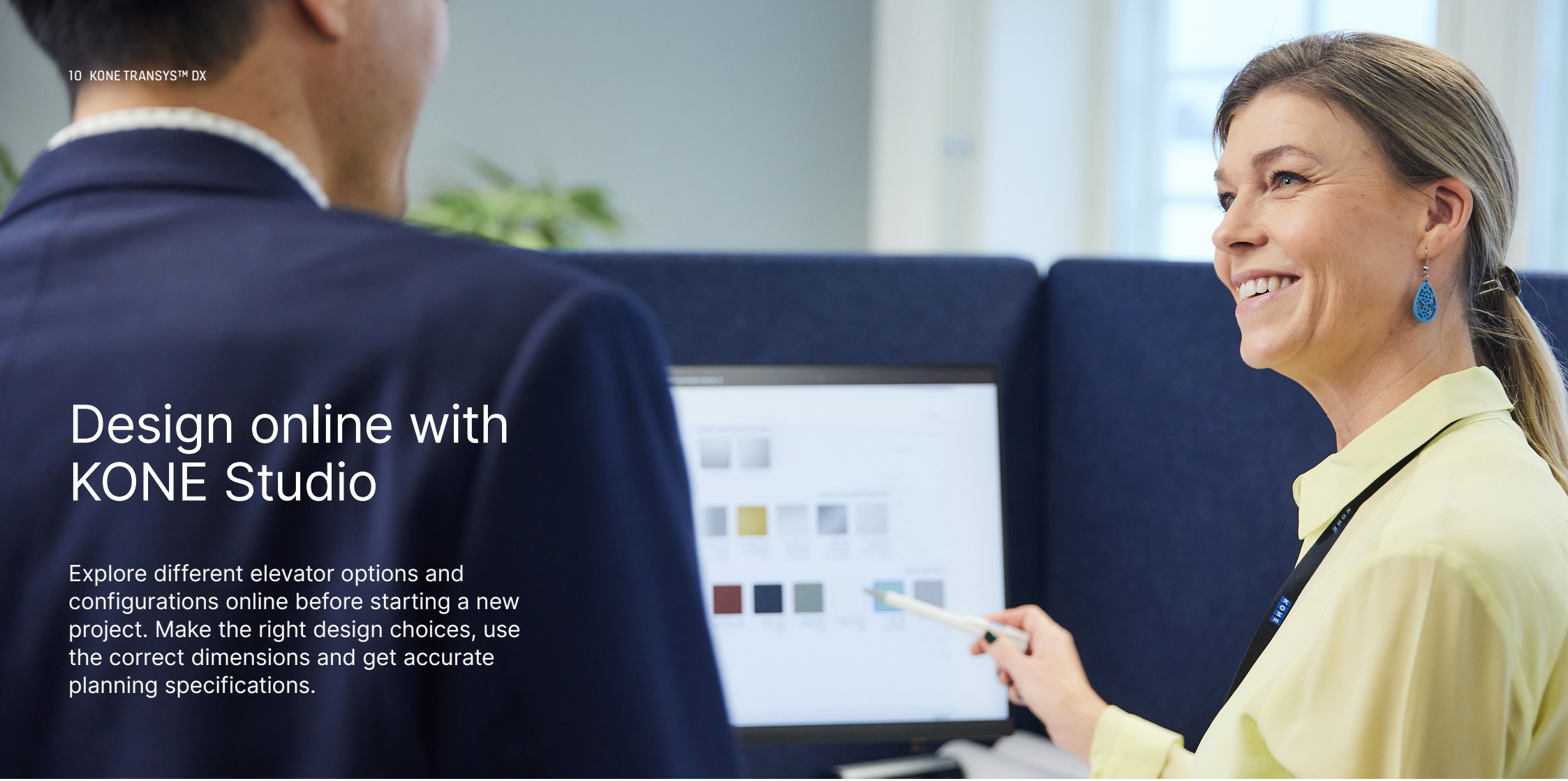
Operation

AVAILABILITY · ACCESSIBILITY · EXPERTISE

We can assist with the commissioning and operation of the systems. Our services are modular in structure and can be used digitally. We guarantee availability and safety and can be reached 24 hours a day / 365 days a year.

KONE Studio

Get all the technical data you need in one easy-to-use tool, including downloadable CAD and BIM models, as well as detailed elevator specifications.



Design online with KONE Studio

Explore different elevator options and configurations online before starting a new project. Make the right design choices, use the correct dimensions and get accurate planning specifications.

Design with 3D visuals

Find the look you love with a simple, easy-to-use and free online design tool.

Use exact building specifications

Optimize planning with accurate and always up-to-date product data.

Save project details

Test and finalize your custom designs, then make changes later if needed.

Export CAD and BIM drawings

Identify potential issues and plan ahead to avoid surprises during construction.

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 building life cycle. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE 24/7 Connected Services and KONE UltraRope®. KONE employs over 60,000 dedicated experts to serve you globally and locally.

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www.kone.ae

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Dedicated to People Flow™