

# The rise of a supertall

Soaring to a height of more than one kilometer, Kingdom Tower will be the tallest building in the world when completed in 2018. The glittering centerpiece in Jeddah, Saudi Arabia, will house offices, a hotel and serviced apartments, luxury condominiums, and the world's highest observation deck.

The process for a project of this scale requires the input of dozens of people working in various units. And it is through remarkable team effort that Kingdom Tower will be equipped with state-of-the-art KONE solutions.

## Global resources, local assets

Tapping into extensive global resources, KONE played a strong role in early design talks," says **Tarek Elnaggar**, who was head of KONE's Major Projects Business when it won the Kingdom Tower order. "Experts from all over the world collaborated at a high level, winning the developer's confidence in the process. We made it our business to know every detail of the project inside and out."

That thoroughness was complemented by full involvement of the local team. Members of that group have extensive experience in large projects in Saudi Arabia, creating a distinct advantage. KONE also took care to communicate fully with all stakeholders of the project, not just the customer.

"Through an outstanding relationship, we gained good insight at every stage about the real focus areas and needs," explains **Haytham Halaseh**, Managing Director of KONE Saudi Arabia.

## Future-proof technologies

For a building with such unprecedented height, KONE will deliver uniquely advanced technology: the world's fastest and highest double-deck elevators and the latest People Flow Intelligence solutions. The double-deck elevators will travel at more than 10 meters per second, and at 660 meters, the elevator rise will be the world's highest.

Hoisting will be provided by the revolutionary KONE UltraRope™, a new high-rise elevator technology that is set to break industry limits and enable future elevator travel heights of up to one kilometer – twice the distance currently feasible. KONE UltraRope technology eliminates the disadvantages of conventional steel rope and opens up a world of possibilities in high-rise building design.

Kingdom Tower will be equipped with 57 KONE elevators, all with tailor-designed car interiors and landing doors. Intelligent building solutions will include the KONE Polaris™ Destination Control System, KONE InfoScreen displays and the KONE E-Link™ monitoring system.

"We have been highly impressed with KONE's innovative solutions for high-rise buildings," says **Mounib Hammoud**, CEO of Jeddah Economic Company. "This is another cornerstone for a development of this magnitude and we look forward to creating this landmark building in all standards."



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## SUMMARY

### Challenge

- To provide an innovative solution for fast vertical transportation in the world's tallest building once completed
- To provide a premium people flow solution for a high-profile building, featuring a full range of intelligent solutions

### Solution

- Strong collaboration between global resources and experienced local experts
- Revolutionary new elevator rope technology that will enable a 660 meters elevator rise
- Industry-leading technology that delivers a smooth experience, including the KONE Polaris™ Destination Control System, KONE InfoScreen displays and the KONE E-Link™ monitoring system

## FAST FACTS

### Kingdom Tower

- Year of completion: 2018
- Construction area: 530,000 sqm
- Total gross floor area: 258,000 sqm
- Height: over 1 km
- Apartments: 530
- Hotel rooms: 200
- Maximum elevator speed: above 10 m/s
- Building owner: Jeddah Economic Company
- Developer: Jeddah Economic Company
- Architect: Adrian Smith and Gordon Gill Architecture
- Contractor: Saudi Bin Laden Group
- Construction supervisor: Dar Al Handasa
- Project management: E.C. Harris / Mace JV

### KONE Solutions

- 29 KONE MiniSpace™ elevators
- 21 KONE MonoSpace® elevators
- 7 KONE DoubleDeck elevators
- 8 KONE TravelMaster™ 110 escalators
- KONE UltraRope™ technology
- KONE Polaris™ Destination Control System
- KONE InfoScreen displays
- KONE E-Link™ monitoring system
- KONE Care™ Maintenance Service

