

*Dedicated to People Flow™*



KONE PEOPLE FLOW SOLUTIONS BOOSTING EFFICIENCY DURING CONSTRUCTION

# KONE construction time use solutions

# Getting workers and goods to the right place at the right time

One of the biggest logistical challenges during construction is getting workers and goods to the right place at the right time. With optimum planning, and the right combination of people flow solutions, builders can save hundreds of man-hours every day, and weeks or even months on every project.

KONE CTU solutions speed up the flow of people and materials during construction time. They increase productivity on the worksite due to their higher speed, bigger loads and safer transportation in all weather conditions.

## Save time every day, in every project

KONE construction time use (CTU) solutions - KONE CTU elevators, KONE JumpLifts and KONE Care CTU maintenance - save time in several ways:

- Workers spend less time waiting for exterior hoists and more time working
- Minimal disruption and safer working environment
- Working in all weather conditions
- Faster enclosing, finishing and handover

## KONE CONSTRUCTION TIME SOLUTIONS



***KONE construction time elevators** are the final elevators equipped with protective materials so they can be used during construction time. They operate at the same speed and load as the final elevators. When the building is finished the final signalization and interior are installed in the elevators.*



***The KONE JumpLift** is a self-climbing elevator that uses the building's permanent hoist way for construction time use. The Jumplift is available before the permanent machine room is ready. It has a temporary machine room that moves upward ('jumps') as the construction work progresses. Each jump can be carried out at times that suit other construction activities.*



***The KONE Care CTU maintenance solution** ensures the equipment's performance and safety, and decreases equipment downtime during construction time usage. KONE develops a unique maintenance plan for each project.*

***"The JumpLift System is a safer way for us to transport our equipment and workers during construction and the fitting-out phases. We can use it in any kind of weather too, which considerably improves the progress of the construction site."***

*- Mr. Herman Knoop Executive Vice President,  
Aannemings Maatschappij J.P. van Eesteren B.V.  
The Netherlands*

# The main benefits of KONE CTU solutions

## Less waiting

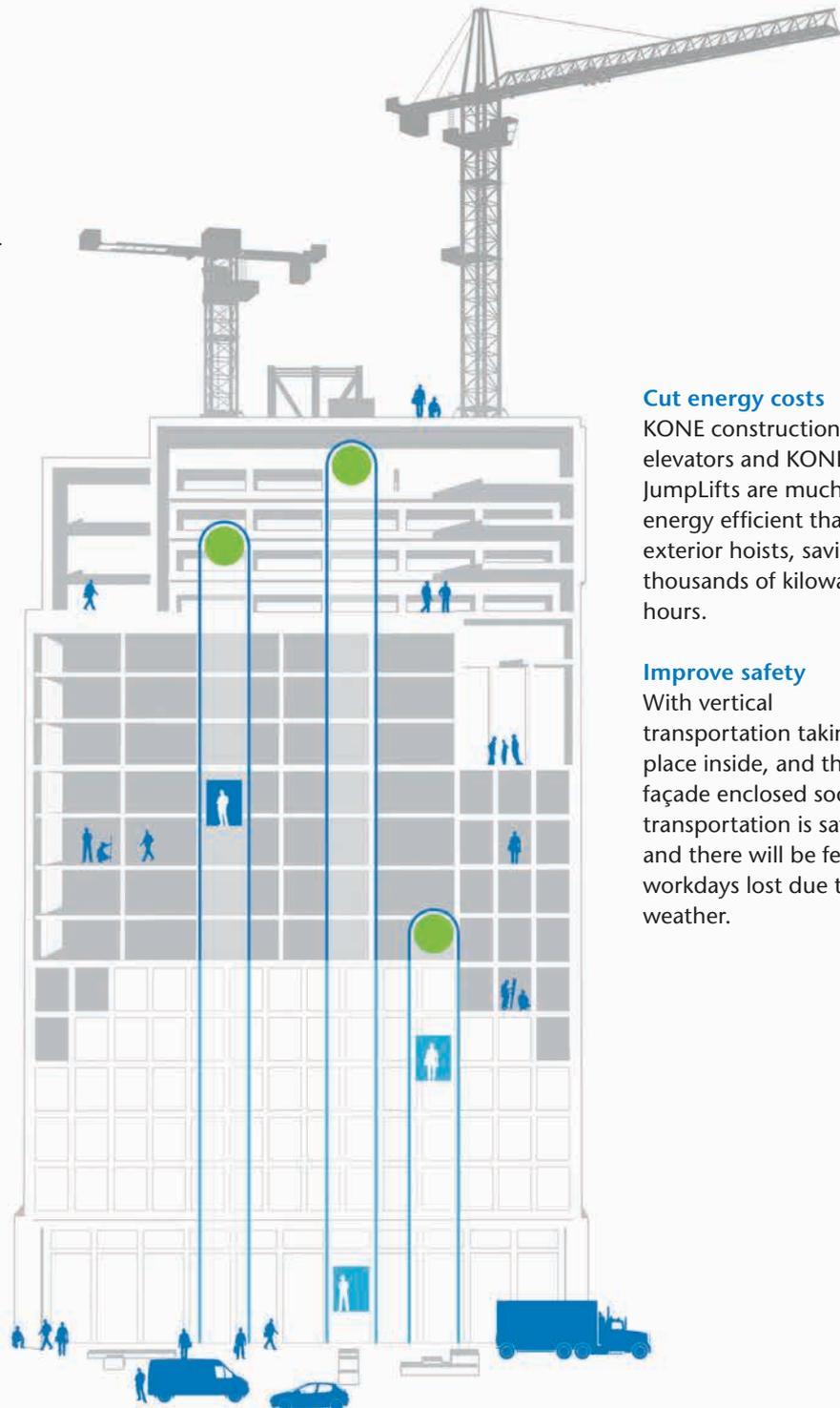
KONE construction time elevators and KONE JumpLifts travel faster than exterior hoists - up to 4 m/s for CTU elevators and 2.5 m/s for JumpLifts. So workers spend less time waiting and more time working.

## Optimize logistics

Lower floors can be enclosed while core construction is going on higher up. Project management can be optimized and construction can be speeded up.

## Reduce downtime

KONE Care CTU maintenance solutions make sure the elevators are operating optimally, every day, every shift.



## Cut energy costs

KONE construction time elevators and KONE JumpLifts are much more energy efficient than exterior hoists, saving thousands of kilowatt hours.

## Improve safety

With vertical transportation taking place inside, and the façade enclosed sooner, transportation is safer and there will be fewer workdays lost due to weather.

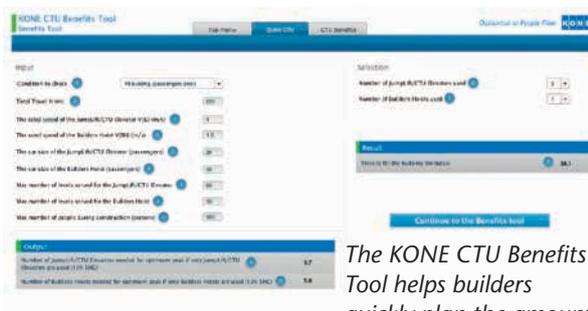
# Services for every stage of the construction process



## Planning

KONE site planning services ensure the optimum combination of solutions at each stage. KONE's certified project managers guarantee smooth coordination between all parties. The KONE project management team has been proven in projects worldwide.

The KONE CTU Benefits Tool helps builders quickly plan the amount of equipment they need. Enter the parameters to see the best combination of KONE CTU elevators, KONE JumpLifts and hoists for the project.



*The KONE CTU Benefits Tool helps builders quickly plan the amount of equipment they need.*



## Construction

As a result of KONE's unique scaffoldless, in-shaft installation method, installation of the KONE CTU elevators is faster, safer and more efficient.

The KONE Care CTU maintenance solution ensures optimum availability throughout the project, ensuring the equipment's performance and safety, and decreasing downtime. The requirements of every construction site are unique, so KONE develops a unique maintenance plan for each project.



## KONE PLANNING SERVICES

- Site planning
- Project management
- KONE CTU Benefits Tool

## KONE CONSTRUCTION SERVICES

- Shaft and elevator installation
- Project management
- Site safety
- KONE Care CTU maintenance

About 150 KONE elevators and 10 KONE escalators are installed in the Marine Bay Sands residential towers in Singapore. Of these, 9 KONE CTU elevators and 13 KONE JumpLifts were used during construction.



### Finishing

With all vertical transportation taking place inside the building, exterior hoists can be removed and lower floors can be enclosed and finished sooner.

After completion of the project, KONE CTU elevators are quickly converted into the building's permanent elevators. Protective materials are removed and the final signalization, interiors and landing materials are installed. With the KONE JumpLift, changing to the permanent elevator is a straightforward matter of installing the final machinery and finishing the surfaces of the car, doors and signalization.

### Handover

KONE ensures that your equipment will be in perfect condition at handover. The KONE Care CTU maintenance technicians perform the final inspection, and then the permanent KONE Care maintenance team takes over.

KONE personnel meet with the builder's representatives to go through the documentation and practices that will help keep the equipment in perfect condition. Once the equipment has been installed, the KONE ride quality experts evaluate the performance, ensuring that all requirements have been met.



*KONE CTU elevators are quickly converted into the building's permanent elevators.*



*KONE handover services ensure smooth people flow in the building already on day one.*

### KONE FINISHING SERVICES

- Finishing services
- KONE Care CTU maintenance

### KONE HANDOVER SERVICES

- Safety and performance inspection
- Authority coordination
- Handover service
- KONE Care maintenance

# Our experience reduces your risk

KONE construction time solutions have been proven in hundreds of projects worldwide. KONE invented the JumpLift, and we have a proven track record with it on projects worldwide. Over the years KONE has continued to improve its CTU products, making them faster, more reliable, and able to serve higher buildings.



**The MET, Bangkok, Thailand**

Total elevators: 23, of which 3 KONE JumpLifts and 2 KONE CTU elevators were used during construction.



**Frankfurter Welle, Frankfurt**

Total elevators: 36, of which 7 KONE CTU elevators were used during construction.



**Northbridge, Brisbane Australia**

Total elevators: 18, of which 1 KONE JumpLift and 3 KONE CTU elevators were used during construction.



**Rui Hong Xin Cheng project, Shanghai**

Total elevators: 4. 4 KONE JumpLifts were used during construction.

A tall, modern skyscraper with a distinctive blue and gold facade and a pointed top, set against a clear blue sky. The building is the Princess Tower in Dubai, UAE.

CASE: PRINCESS TOWER, DUBAI, UAE

## Keeping construction on schedule.

Exterior hoists are an important part of the transportation solution on a construction site. However, there are risks associated with them, since they are slow and are known to break down frequently. In high winds the cables may get twisted and put the unit out of order. The solution is to use exterior hoists in combination with KONE JumpLifts.

The 414-meter Princess Tower, when complete, will contain thirteen KONE elevators. During construction, the site is equipped with two KONE JumpLift™ solutions. This solution improves logistics, productivity and people flow. The KONE JumpLifts are safer, since they are inside the building, and they can operate in any weather. They also help the contractor keep to the schedule. The KONE JumpLifts at the Princess Tower have been operating reliably, with minimum disruption.

### FAST FACTS

Segment: **Residential**

Construction year: **July 2011**

Number of JumpLifts: **2**

Number of elevators in ready-made building: **13**



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<sup>®</sup>, KONE NanoSpace<sup>™</sup> and KONE UltraRope<sup>®</sup>.

KONE employs close to 50,000 dedicated experts to serve you globally and locally.

**KONE Corporation**  
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