

Dedicated to People Flow™



SMOOTH PEOPLE FLOW® FOR TRANSIT CENTERS

KONE TransitMaster™ 120



Your trusted escalator partner

With over 100 years of experience and a strong track record in safety, KONE is your trusted partner, dedicated to ensuring smooth and safe People Flow™ in today's highly demanding public environments. KONE's reliable escalator and autowalk solutions use proven technology and highly durable components designed to meet the heavy usage demands to infrastructure environments worldwide.

The KONE TransitMaster™ 120 escalator is designed specifically to meet the needs of environments with medium to high traffic flow and round-the-clock operation. These include railway and metro stations, as well as airports and other mass transit centres, where high reliability and long equipment lifetime are key requirements.

3 REASONS TO CHOOSE THE KONE TransitMaster™ 120

1 Best in class eco-efficiency options that cut the carbon footprint of your building and reduces operational costs

- The new KONE Direct Drive is up to 20% more energy efficient than conventional drive solutions.
- The new direct handrail drive saves energy and extends the lifetime of the handrail, reducing maintenance and operating costs.
- Smart operational modes and an all new inverter optimise energy consumption under different load conditions.



The KONE TransitMaster™ 120

- Vertical rise: Up to 15 meters
- Horizontal steps: 2, 3 or 4
- Inclination: 27.3°, 30°, 35°
- Step width: 800 mm, 1,000 mm
- Radius: 1.0/1.0, 1.5/1.0, 2.7/2.0
- Balustrade height: 1,000 mm, 1,100 mm
- Speed: 0.4 m/s with inverter, 0.5 m/s, 0.65 m/s, 0.75 m/s
- Step chain: Inside roller chains
- Operational environment: Indoor, semi-outdoor, full outdoor
- Duty cycle: 20-24 hours/day

2 Peace of mind with the latest safety technology options

- **Fiber-optic skirt monitoring** covers the entire length of the skirt, immediately stopping the escalator when an obstruction is detected between the skirt and steps.
- **New traffic signalisation solutions and audible alarms** provide clear guidance on escalator travel direction.

3 High quality, durable design for the best possible user experience

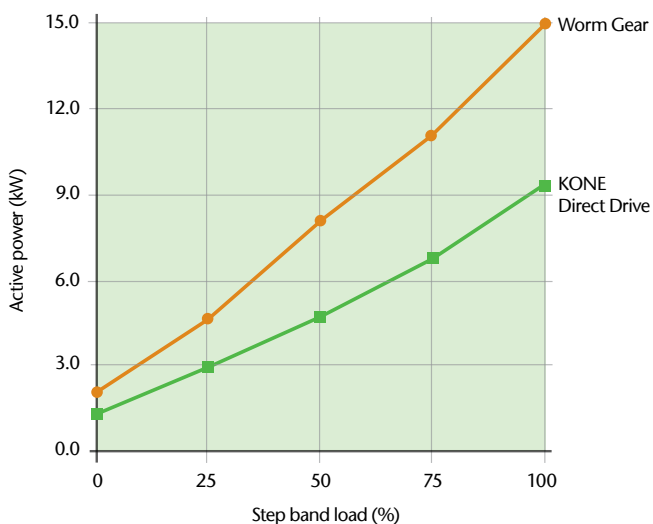
- **Innovative and attractive lighting solutions** that also improve passenger guidance and safety.
- **A wide range of design options** to create stunning visual effects and perfectly match your building's architecture.
- **High quality, durable component finishes** designed to withstand heavy traffic flow, and a harmonised look and feel throughout the KONE product portfolio.

Best-in-class eco-efficiency

THAT CUTS THE CARBON FOOTPRINT OF YOUR BUILDING

At KONE we have always been renowned for our revolutionary, reliable, and eco-efficient technology. The KONE TransitMaster 120™ is powered by the new KONE Direct Drive – the industry’s most energy efficient drive, which is up to 20% more efficient than conventional worm-gear solutions. Installing an eco-efficient KONE escalator solution can also help achieve green building accreditations such as LEED or BREEAM certification.

Power in operation – KONE Direct Drive vs. Worm Gear



Energy measurements made at a Helsinki Metro station on November 23rd, 2011.



U.S. based business magazine Forbes has ranked KONE the 42nd most innovative company in the world. KONE is also the only elevator and escalator company that has made it to the top 50.

- 1 A more efficient drive**

The KONE-designed Direct Drive helps cut both operating costs and your building’s carbon footprint. By replacing the conventional worm gear with the KONE Direct Drive, mechanical losses have been minimised, reducing the drive’s energy consumption by up to 20%.
- 2 Direct handrail drive**

With KONE’s new direct handrail drive is up to 8% more energy efficient than conventional handrail friction drives, as well as being highly reliable and durable. Longer handrail lifetime, even under constant heavy traffic conditions, means less maintenance and lower operating costs.
- 3 All-new energy efficient inverter**

The renewed inverter ensures smooth speed regulation during standby operation and minimises energy consumption at full speed. This means even better escalator energy efficiency in transit centers with fluctuating traffic peaks.
- 4 Eco-efficient operational modes**

When an escalator is empty, energy consumption is reduced by KONE’s smart smart star-delta operation mode, which regulates the current needed for different types of load situations. In addition, optional eco-efficient operational modes save even more energy by slowing down or stopping the escalator completely when traffic is low.
- 5 Long-lasting LED lighting**

LED lighting is 80% more efficient than

KONE Direct Drive

The new KONE Direct Drive is the eco-efficient heart of the KONE TransitMaster 120™ escalator. As well as delivering best-in-class energy efficiency under variable traffic conditions, this innovative, reliable technology also improves passenger safety and makes maintenance safer and easier than ever before.



1 Smart, efficient power with reliable performance

- **Eco-efficient design**, with the motor directly connected to the main shaft by the gear, and low input power requirements.
- **Extra power for demanding people flow**, with the possibility to combine two drives to power the escalator step chain in heavy-traffic environments.

2 Simpler maintenance, minimises downtime, and longer equipment lifetime

- **Minimised downtime and efficient maintenance** thanks to the drive being located outside the step band, which means easier, faster access for service technicians and minimal downtime.
- **Fewer spare parts needed** because of the drive's simple configuration and chainless design.
- **No risk of oil on the step band** due to the external location of the drive, which eliminates the possibility of lubrication oil dripping onto the steps.

3 Increased safety

- **Chainless design** eliminates the risk of chain failure, further boosting reliability.
- **External drive location** means maintenance is safe and efficient, as there is no need to remove any steps.

Peace of mind

WITH THE LATEST SAFETY TECHNOLOGY

When you choose KONE, you choose peace of mind. Safety is the starting point for every KONE solution. All our escalators are designed to meet and exceed all applicable safety standards, codes, and regulations to ensure the highest levels of safety every step of the way – from planning and installation to maintenance and modernisation. In addition, we offer new and innovative features to ensure that KONE escalators are the benchmark whenever safety is concerned.

The KONE TransitMaster™ 120 has been designed to both maximise safety for passengers and make it easy to inspect the condition of the equipment, ensuring that it operates reliably and safely at all times, even under the most demanding traffic conditions.

Standards-compliant manufacturing

All KONE manufacturing facilities are ISO 9001 and ISO 14001 certified and meet all relevant escalator industry standards and requirements, for example EN115-1 for the European Union.

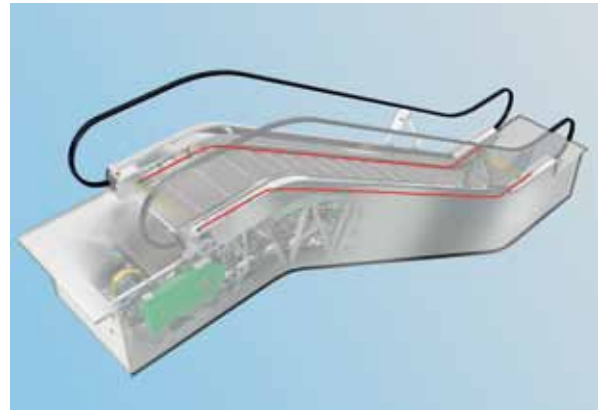


COMPREHENSIVE RANGE OF SAFETY OPTIONS



1 **Fiber-optic skirt monitoring**

This optical detection solution runs along the entire length of the escalator's skirt, immediately stopping the escalator when an obstruction is detected between the skirt and steps. The level of force needed to stop the escalator can also be adjusted based on your building's requirements.



Fiber-optic skirt monitoring

2 **KONE Direct Drive**

The KONE Direct Drive's chainless design eliminates the risk of chain failure, while the drive is located outside the step band for efficient and safe maintenance, and minimised downtime.

3 **Alarm for travel direction**

An alarm sounds if passengers enter an escalator in the wrong direction.

4 **Visual guidance**

Traffic signalisation, skirt lighting, yellow comb segment, and step demarcations provide extra visual guidance for passengers.

5 **Fall-prevention features**

A fall-protection barrier and extended balustrades provide additional passenger protection.

For a complete list of standard and optional safety features please contact your local KONE sales representative.

High quality, durable design

FOR THE BEST POSSIBLE USER EXPERIENCE

As well as being a key transportation method for infrastructure environments, escalators are an important part of a building's ambience and style, and can be an important source of lighting too. Well-planned design can make an escalator more than just a people flow solution by turning it into an eye-catching architectural element that provides a more pleasant experience for travellers.



1 Innovative and practical lighting solutions

KONE's new cladding, lighting solutions for signs and traffic lights provide the final touch to your escalator's visual design. Our traffic-light options – cube, road sign, and traffic pole – provide a simple, stylish approach to safety and passenger guidance, ensuring smooth people flow even during heavy traffic peaks.

2 Attention to detail and durable components

All of our escalator components are designed with great attention to detail. KONE escalators are equipped with attractive front plates, guards, and access covers – all with high quality, durable finishing. The design of KONE products is harmonised throughout our portfolio for a consistent look and feel in your building.

3 A wide range of design options

KONE's design offering consists of a wide range of innovative materials and features. The combination of unique textured and patterned cladding materials with novel lighting solutions creates a stunning visual effect and contributes to a more pleasant experience for travellers.

4 Tailor-made possibilities

KONE's renowned engineering and design capabilities are always available to help you realise your architectural vision with customised specifications for your premises.

New attractive guidance solutions that improve the safety of your escalator: ◆

- A. Traffic light pole
- B. Traffic light cube
- C. Balustrade light
- D. Traffic light road sign





Identifying the right escalator configuration for your People Flow™ needs

People flow varies immensely in each type of building. Understanding the people flow needs and requirements of your building will help you select the correct escalator configuration.

Escalators used for public transportation purposes need to meet the high usage demands typically linked with airports as well as metro and train stations. Each escalator is a complex combination of components and technical characteristics. Many of these characteristics – vertical rise, speed, step width, inclination, etc. – are available in various specifications. To ensure the reliability and availability of escalators over their lifetime, it is essential that each escalator's

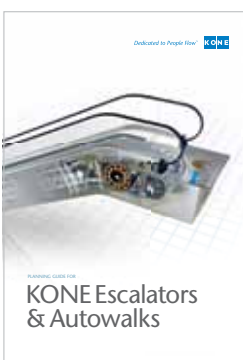
specification matches the people flow conditions and requirements of the building where they will be located.

In order to make the selection of equipment easier, we have standardised many of these characteristics into truss packages which meet the different people flow requirements for public transportation environments.

Step/pallet width	Nominal speed		
	0.50 m/s	0.65 m/s	0.75 m/s
mm			
600	3,600 persons/h	4,400 persons / h	4,900 persons / h
800	4,800 persons / h	5,900 persons / h	6,600 persons / h
1000	6,000 persons / h	7,300 persons / h	8,200 persons / h

Theoretical escalator movement capacity according to EN 115.

KONE solutions for public transportation		
0.5 m/s	0.65 m/s	0.75 m/s
30° inclination with 1.0/1.0 radius 35° inclination with 1.0/1.0 radius		
30° inclination with 1.5/1.0 radius		
30° inclination with 2.7/2.0 radius 27.3° inclination with 2.7/2.0 radius		



For additional information on how to calculate traffic capacity for escalators as well as a detailed look at how to plan the escalators in your building, take a look at KONE's escalator and autowalk planning guide.

Supporting you every step of the way

Choose a partner with over a century of experience in delivering pioneering escalator solutions for demanding infrastructure environments around the world. Get expert advice from professionals and enjoy the peace of mind that comes with comprehensive support. KONE is with you every step of the way – from planning and design, through installation and maintenance, to modernisation – for the entire life cycle of your building.

1 Expert design and planning services

- Expert planning advice helps you specify the optimal solution for your building.
- Easy-to-use online design tools save you time and effort during the design process by allowing you to create CAD drawings and 3D BIM models.
- Energy consumption calculations available for every individual escalator solution.

2 Safe and efficient installation

- Highly efficient installation methods result in considerable cost savings for our customers and minimise disruption to other construction work.
- Strict quality criteria for each phase of installation ensure that it's right the first time, every time.
- Continuous training, site audits, safety passports, and proven methods ensure maximum site safety.
- Eco-efficient installation processes maximise waste recycling.

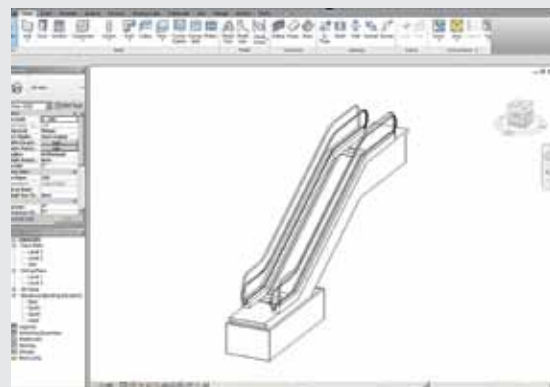
3 Quality assurance and professional maintenance

- KONE's own reliability laboratory tests and approves every component used in our escalator solutions, ensuring maximum reliability.
- Our global spares center stocks over 150,000 parts and offers 24-hour delivery for the most commonly requested parts, helping you minimise downtime by ensuring repairs can be carried out as quickly as possible.
- Preventive KONE Care® maintenance solutions – including a comprehensive new online service-reporting system – make it easier to monitor and budget for escalator maintenance.

WORLD-CLASS DESIGN TOOLS

KONE Escalator Toolbox – including BIM models

- With the KONE Escalator Toolbox you can create a detailed equipment specification online and customised CAD drawings for preliminary planning.
- KONE Building Information Modeling (BIM) models make it easier and quicker for architects to prepare digital escalator designs. Included in the Escalator Toolbox, these models are compatible with most common project documentation systems and include the latest KONE escalator specifications. Once your design is ready, you can send the specifications directly to a KONE sales representative for tendering and/or ordering.



The KONE Escalator Toolbox is available online at <http://koneglobal.hostctb.com/>



KONE provides innovative and eco-efficient solutions for elevators, escalators and automatic building doors. 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™, and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as Capital City in Moscow, Hongqiao Transport Hub in Shanghai, North LaSalle in Chicago and Tour First in Paris.

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

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