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RELIABLE PEOPLE FLOW[®] FOR DEMANDING TRANSIT ENVIRONMENTS

KONE TransitMaster™ 140 technical information

RELIABLE PEOPLE FLOW® FOR DEMANDING TRANSIT ENVIRONMENTS

The versatile KONE TransitMaster™ 140 is a public transportation escalator designed to enable the seamless flow of large number of passengers that need to be able to move quickly every day and every hour to reach their final destination.

Applications	Public transportation, mainly undergrounds & railway stations
Environment	Indoor, semioutdoor, outdoor
Vertical rise	up to 35 m
Inclination	27.3° / 30°
Group Arrangement	Single / Parallel
Step width	800 mm / 1000 mm
Speed	0.5 / 0.65 / 0.75 / Energy saving and maintenance speed
Truss deflection	1/1000 and 1/1500
Drive system type	Chain drive with helical gear TransVario chainless direct drive with planetary gear
Step chain type	Outside Roller 100 x 25 mm
Controller	KONE 501B PLC
Power supply	50Hz / 380V / 220V 50Hz / 400V / 230V 50Hz / 415V / 240V
Operation mode	Smart star-delta (only PLC) Standby speed Standby speed and/or automatic start/stop KONE Direction operation without inverter (only PLC)
Code compliance	EN115-1: 2008 +A1:2010 / EN115-1: 2017/GB16899-2011 / Singapore Code





KEY SPECIFICATIONS



Vertical rise up to
35 m



Inclination
27.3° / 30°



Step width
800 / 1000 mm



Indoor / semi-outdoor
/ outdoor environment



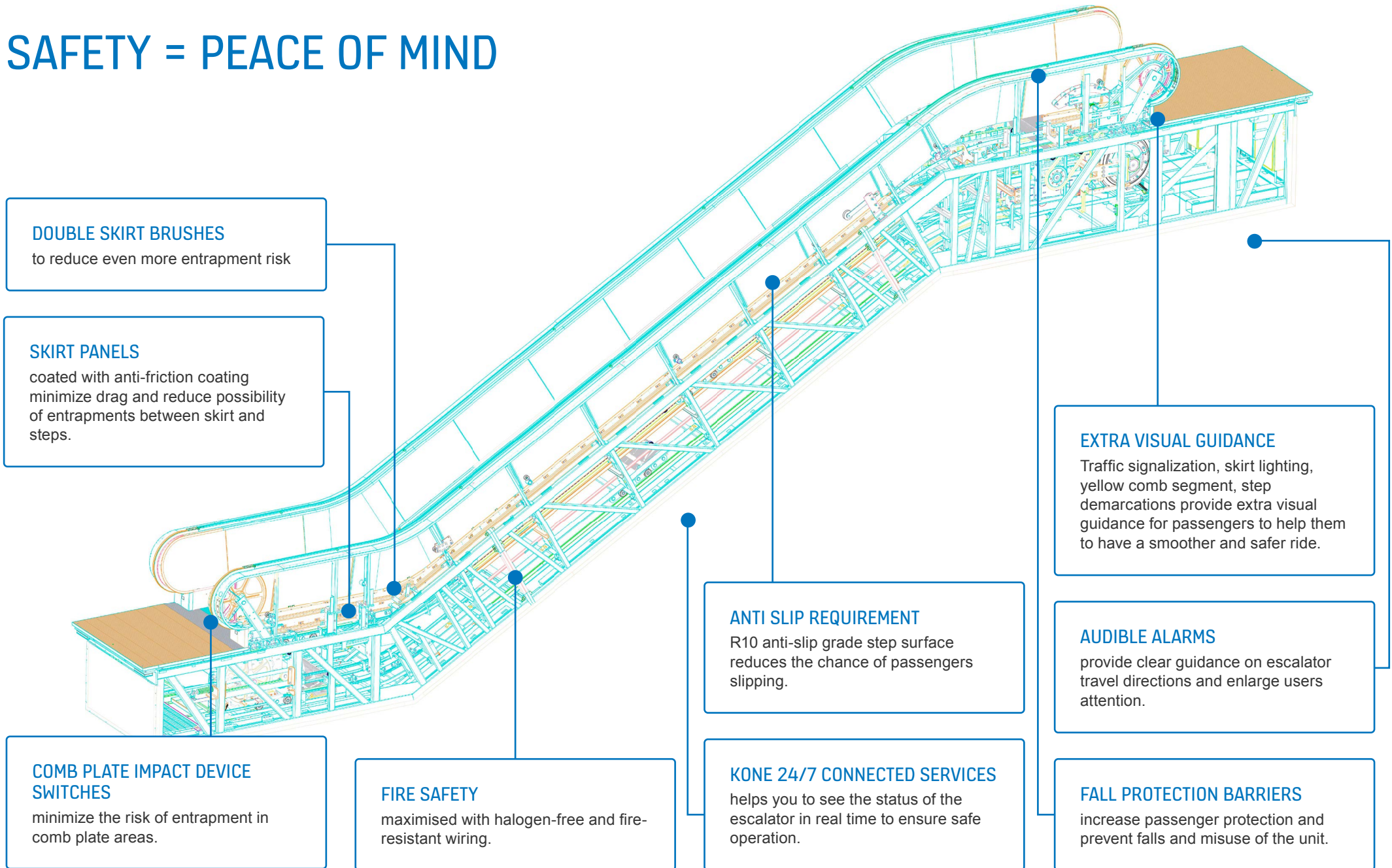
Speed
0.5 / 0.65 / 0.75 m/s



People Flow Capacity
up to 8200 people/h

Front Plate	Stainless steel
Balustrade	Safety Glass panels 10 mm Laminated safety glass 12 mm Inclined solid Balustrade height: 1000 mm / 1100 mm (only for Glass type)
Decking	Brushed satin stainless steel
Skirt	2 mm or 3 mm stainless steel with or without anti-friction coating 2 mm or 3 mm sheet steel with or without anti-friction coating
Access cover	Ribbed aluminum natural color Aluminum access cover with stainless steel surface Aluminum access cover with etched stainless steel
Steps	Silver painted aluminum (Grinded surface R10) Black painted aluminum (Grinded surface R10)
Step demarcation	Without Yellow painted on 3 sides and/or in the center (RAL1004) Yellow plastic insert on 3 sides (RAL 1023) Yellow plastic insert on 3 sides (RAL1023) and yellow painted demarcation in the center (RAL1004)
Comb segment	Aluminum Aluminum with yellow plastic inlay (RAL1023) Aluminum with yellow coating (RAL 1023)
Lighting	Without LED continuous white handrail lighting (only available for glass balustrade) LED continuous white skirt lighting LED static comb light white color, single or multiple LED traffic lights LED understep lighting (green) / LED understep lighting (green-red)

SAFETY = PEACE OF MIND



DOUBLE SKIRT BRUSHES

to reduce even more entrapment risk

SKIRT PANELS

coated with anti-friction coating minimize drag and reduce possibility of entrapments between skirt and steps.

COMB PLATE IMPACT DEVICE SWITCHES

minimize the risk of entrapment in comb plate areas.

FIRE SAFETY

maximised with halogen-free and fire-resistant wiring.

ANTI SLIP REQUIREMENT

R10 anti-slip grade step surface reduces the chance of passengers slipping.

KONE 24/7 CONNECTED SERVICES

helps you to see the status of the escalator in real time to ensure safe operation.

EXTRA VISUAL GUIDANCE

Traffic signalization, skirt lighting, yellow comb segment, step demarcations provide extra visual guidance for passengers to help them to have a smoother and safer ride.

AUDIBLE ALARMS

provide clear guidance on escalator travel directions and enlarge users attention.

FALL PROTECTION BARRIERS

increase passenger protection and prevent falls and misuse of the unit.

REDUCED ENVIRONMENTAL IMPACT

Installing an eco-efficient KONE escalator solution can help in achieving green building accreditations such as LEED or BREEAM certification.

KONE RECOGNIZED AS A TOP PERFORMER IN 2018 CDP CLIMATE CHANGE REPORTING

We are proud to once again be among the top performers in CDP climate change reporting with a score of A- for 2018

KONE has received an A or A- score for six consecutive years.

KONE RANKED AMONG THE TOP 100 MOST SUSTAINABLE COMPANIES IN THE WORLD

- KONE ranked 43rd in Corporate Knights' 2019 Global 100 Most Sustainable Corporations in the World
 - 2nd among its 443 global category peers in the "Machinery Manufacturing"
 - Only elevator and escalator industry company in the Top 100 ranking
- Top performer in environmental performance and social responsibility, such as employee retention and board gender diversity
- The Global 100 ranking is based on a rigorous analysis of 7,500 companies with revenues of over USD 1 billion

ECO-EFFICIENT ESCALATOR

KONE TransitMaster™ 140 has achieved A+++ energy performance certificate based on ISO standard.

4 WAYS TO MAKE YOUR ESCALATOR MORE ECO-EFFICIENT:

- High efficiency motors minimize energy consumption at full speed.
- Lubrication-free step chain means no oil, a cleaner escalator and environment, reduced fire hazard, simpler cleaning and easier maintenance.
- Long-lasting led lighting is up to 80% more efficient than fluorescent lighting and lasts up to 10 times longer.
- Eco-efficient operational modes save energy by slowing down or stopping the escalator completely when traffic is low. For example, when an escalator is empty, energy consumption is further reduced by slow stand-by speed and furthermore by stopping the escalator.

BREEAM CERTIFICATION

One credit can be achieved by fulfilling the following requirement:

Escalator is fitted with a passenger-sensing device for automated operation, so it operates in standby mode when there is no passenger demand

LEED CERTIFICATION

KONE solutions can also contribute to several LEED certification categories.



FLEXIBILITY TO MATCH YOUR BUILDING REQUIREMENTS

KONE TransitMaster™ 140 is a public transportation escalator for the highest people flow and long, even continuous, operating hours. It is designed to enable the seamless flow of large number of passengers, fulfilling your requirements, from both technical and visual point of view.

Corrosion Packages

For extreme environments a full proposal of corrosion protection options are available. Long lasting escalators will allow your building to operate with high performance for extended period of time.

Flexible Features

KONE TransitMaster™ 140 escalators are designed to fit in all your buildings, with wide variety of options for different environments. KONE engineering capabilities will help you to fulfill your specifications in the best possible way.

Tailor-Made Possibilities

The renowned engineering and design capabilities are always available to realize the architectural vision with customized specifications for your premises.

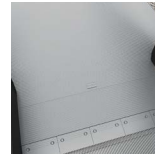
ACCESS COVERS



Aluminum access cover with stainless steel surface



Aluminum access cover with etched stainless steel surface



Natural ribbed aluminum

SKIRTING

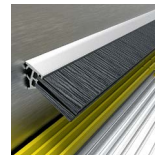
SKIRT BRUSH HOLDER



Black anodized aluminum

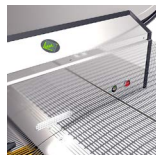


Clear anodized aluminum



Clear anodized aluminum, double brushes

SKIRT

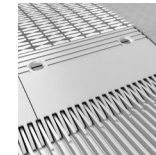


Brushed stainless steel skirt with clear anti-friction coating

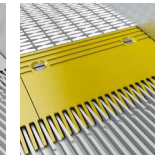


Sheet steel skirt with black anti-friction coating

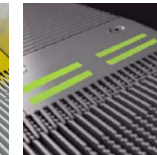
COMB



Aluminum comb segments



Aluminum comb with yellow coating



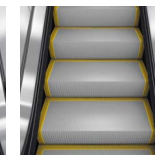
Aluminum comb with yellow plastic inlay (RAL1023)

STEPS

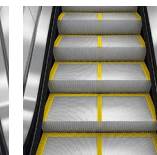
STEP DEMARICATION



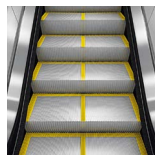
Yellow painted on 3 sides (RAL1004)



Yellow plastic insert on 3 sides (RAL 1023)



Yellow plastic insert on 3 sides (RAL1023) and yellow painted demarcation in the center (RAL1004)



Yellow painted on 3 sides and in the center (RAL1004)

STEP COLOR

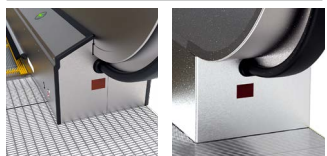


Silver painted



Black painted

FRONT PLATE



Satin polished stainless steel front plate for glass balustrade

Satin polished stainless steel front plate for solid balustrade

DISPLAY



Diagnostic display

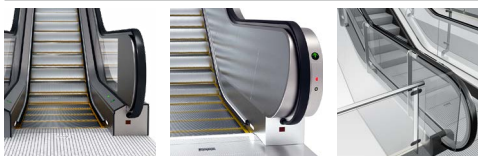
CLADDING



Hairline stainless steel

Mounting strip (for customer cladding)

BALUSTRADE

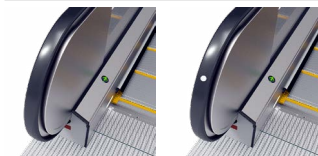


Clear glass balustrade panels

Brushed stainless steel solid inclined panels

Passenger fall protection barrier

HANDRAILS



Black

Black with white dots

DECKING



Brushed satin stainless steel

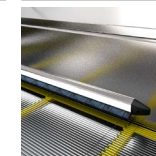
LIGHTING

LED HANDRAIL LIGHTING



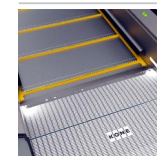
White

LED SKIRT LIGHTING

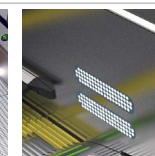


White

COMB LIGHTING

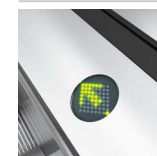


LED comb lighting (white)

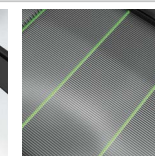


LED multiple comb lighting (white)

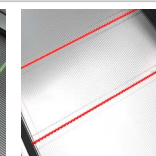
ADDITIONAL LIGHTING



LED traffic lights located in the decking



Under step demarcation lighting green



Under step demarcation lighting red

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®, KONE NanoSpace™ and KONE UltraRope®.

KONE employs close to 57,000 dedicated experts to serve you globally and locally.

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