velino
The designer escalator for stylish interiors.

thyssenkrupp
Enjoy good looks and great technology.

Our velino escalator will enhance any building, no matter how elegant and impressive it is – shopping malls, convention centers or airports anywhere in the world. velino not only looks stunning, it operates to the highest technical standards. Outstanding safety features and innovative technologies come with a wide array of stylish design options to put this escalator in a class of its own.

**Extensive customization**
The sky’s the limit when it comes to the features and options you can select to design your one-of-a-kind velino. The impressive choice of high-quality materials and attractive colors allows you to make a striking statement and enhance your building’s overall appeal.

**Quality workmanship**
Beauty is in the detail. When we manufacture your velino, we pay close attention to the smallest details to ensure a picture-perfect finish to your project. And this quality workmanship makes a key difference in everyday use.

**Lower lifecycle costs**
In cost terms velino performs in a league of its own throughout its lifecycle. The step chain, drive and other major components are designed to last, thus reducing your operating costs and maximizing your escalator’s uptime.

**Compact dimensions**
A valuable asset in any commercial project, space needs to be maximized. As one of the most streamlined escalators on the market, velino will save building space and enable you to put the space you have to the best possible use.
Design your one-of-a-kind velino.

No two projects or installations are alike; each has its own character. And so does every velino. With endless design possibilities to choose from – outer cladding, decking, balustrade glass, handrail, etc. – you can customize your velino down to the very last detail. Our experts will be happy to advise you on creating an escalator that’s as unique as your project.

Balustrade glass
The balustrade’s 10 mm tempered safety glass is available in wide range of colors, including clear, aurore, bronze and dark gray.

Handrail
velino’s handrail has no visible joints. The cover is made either of black synthetic rubber or thermoplastic elastomers (TPE) in five standard colors and three special colors, as well as additional colors or laser-print branding on request.

Steps
The steps come in two standard configurations – silver or black with or without yellow demarcation lines. However, any other color is possible on request.

Lighting options
Diverse aesthetic, traffic and safety lighting possibilities, including truss, cladding and floor plate lighting options, enhance the escalator’s functionality and appearance. What’s more, all kinds of specific wishes can be fulfilled in designing your escalator lighting.

Comb segment
The comb segments are available in brushed aluminum and other finishes such as yellow powder-coated aluminum, which accentuates its visibility.

Skirt
The silver or black skirts are available with stainless steel or powder coated steel sheets with or without an aluminum lighting channel.

Front skirt with handrail inlet
Available in black plastic or stainless steel, the front skirt comes with our unique handrail inlet, eliminating the need for unsightly brushes or rubbers.

Inner and outer decking
Both the inner and outer decking are made of stainless steel or aluminum. The latter is available in numerous colors and finishes.

Balustrade
Two types of balustrade are available: a slim balustrade with no visible decking below the handrail or a robust balustrade with an aluminum or stainless-steel decking. Balustrades are available with or without lighting options.

Outer cladding
velino can also feature a unique and prestigious cladding concept with nearly invisible joints. The side and underside cladding are fastened with no visible screws or rivets. A variety of standard colors (from gold and copper to ultramarine) and finishes are available, with additional colors available on request.
Experience unrivalled quality.

velino isn’t just good to look at. Its underlying beauty is the stunning technology that ensures this escalator stands out from the crowd in terms of safety, comfort, efficiency and sustainability. The outstanding quality of velino technology brings long-term benefits in your everyday operations.

EN 1998 | 1090

Truss – purposeful design, soundly manufactured
Our high-quality trusses are intelligently designed to meet the highest standards and comply with code requirements.

Continuous welded
Oiltight escalator: The welded bottom plate eliminates the need for silicone sealing and prevents oil leaks, even after years of operation.

Smart manufacturing
No transverse reinforcement: Connected via crossbeams, the truss needs no strutting, preventing the accumulation of dust and reducing the fire load.

Reinforced truss
For higher rises a reinforced version of the truss is available so that the intermediate supports can be omitted. This enables full use to be made of the area under the escalator.

Precise guide rails
Even step run: The guide rails are precisely aligned using best-in-class adjustment jigs to achieve a perfectly even step run for the highest ride comfort.

Guiding rollers
Reliable step run: The steps are guided on the track through a nose profile to reduce wear and tear and noise emissions and enhance ride comfort.

Smooth run rails
Jolt-free step run: The rails enable a smooth transition of the step chain rollers from the guide rails to the step chain sprocket to enhance ride quality.

Guiding system – fit to purpose
Precise engineering and flawless manufacturing without wear parts on the steps, skirts or track profiles - key to ensuring lasting ride quality.

ISO 18738-2
Put safety first.

We know that safety is a top priority in your building. That’s why we put safety first in designing velino. Around 50 safety features and options mitigate the risk of incidents and injuries. Our portfolio includes an extensive range of motion safety devices and other important features to secure building interfaces. All this plays a key role in ensuring passenger safety day in, day out.

### Escalator safety features from thyssenkrupp.

#### Motion safety
- Operational brake on the motor
- Aux. brake on the motor or mainshaft 1,2)
- Step up-thrust device
- Comb plate switch horizontal
- Comb plate switch vertical
- Emergency stop button in front skirt
- Emergency stop button on inner decking
- Emergency stop at handrail level 1,2)
- Emergency stop button on pedestals 1,2)
- Handrail inlet with flap system
- Skirt micro switches

#### Component protection
- 30 mA FI protection
- Full motor protection
- Phase sequence relay
- Brake function monitoring
- Brake wear monitoring
- Step-chain tensioning switch
- Cover plate open contacts
- Drive chain monitoring 1)
- Handrail/broken device/derailment detection
- Missing step monitoring
- Motor speed monitoring
- Handrail speed monitoring
- Step ramp guard
- Earthquake lock
- Wire protection in truss

#### Proactive safety
- Fire alarm shutdown switch
- Anti-climbing device 1)
- Intermediate balustrade 2)
- 1,350 mm balustrade
- Comb plate-lighting
- Fall protection 1)
- Protecting gratings
- Skirt brushes or rubber deflectors
- Step gap lighting
- Bi-colour traffic lights in inner decking
- Bi-colour traffic lights in front of cover plates
- Yellow comb segments
- Step demarcation lines

#### Building interfaces
- Bollards
- Sprinklers
- Deflectors, e.g. for ceilings
- Deflectors at the handrail newel

#### Unit safety
Our wide range of safety options can help increase the operative safety of your escalator.

#### Barrier plates
Handrail and newel deflectors: Protect people from being pulled along by the moving handrail.

#### Fall protection
Safety curtains beside the balustrade: Prevent people from falling over the balustrade.

#### Deflectors and access restrictions
Diverse solutions for securing building interfaces: Diminish the risk of becoming trapped at ceiling openings, for example.
LED lighting
All the velino lights are LEDs, which cuts energy consumption by up to 90% compared to conventional lighting methods.

Star-delta operation
This optional device makes up to 15% energy savings possible when no passengers are on the escalator. After velino is switched on, the motor stays at a third of its nominal power and only switches to full power when a passenger passes the light barrier in the skirt.

Intermittent operation
In the absence of any passengers on the step band, velino comes to a smooth stop after a defined period of time. This intermittent operation function reduces power consumption by up to 95% and lowers your electricity bill.

Energy efficiency controller*
The energy efficiency controller measures the respective load on the steps and adjusts the motor voltage accordingly to ensure optimal energy consumption at constant speed. This feature makes up to 20% energy savings possible during daily operations.

Smart frequency converter*
If velino has not been running for some time, the smart frequency converter switches to slow speed. It also recognizes partial load conditions to enable up to 60% energy savings. Moreover, the smart version regenerates energy that can be fed into the public grid – a clear advantage.

* depending on local availability

**ISO 25745-3**

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Sustainability is now a hot topic in building design – not least due to the effects of man-made climate change. Minimizing your building’s CO₂ emissions is one way you can contribute to a more sustainable future. Although an escalator consumes very little energy in a building, we are constantly striving to improve our escalators’ sustainability record, as velino’s energy-saving features prove.
Technical data.

30° configuration / Side elevation

- 2 flat steps
- 3 flat steps

Plan view

End support / 30° and 35° configuration

Plan view

35° configuration / Side elevation

- 2 flat steps
- 3 flat steps

Plan view

Basic parameters

- Travel speed: 0.5 m/s | 0.65 m/s
- Max. travel height: 15 m
- Number of horizontal transition steps: 2 | 3 | 4
- Transition radii top/bottom: 1,050 mm | 1,050 mm
- Balustrade height: 900 mm | 1,000 mm | 1,100 mm
- Nominal step width: 600 mm | 800 mm | 1,000 mm
- Inclination: 27.3° | 30° | 35°

Climatic conditions

- Operating environment:
  - Indoors
  - Outdoors, sheltered
- Temperature:
  - +12° C to +35° C
  - +2° C to +43° C
- Relative humidity:
  - Max. 75%
  - Max. 90%
- Weather influence:
  - None
  - Indirect
- Dust influence:
  - High
  - Medium
- Salt, grit or sand influence:
  - Low
  - Medium

Hosting point

Intermediate support

Power supply

E1, E2, E3 extension
thyssenkrupp moves people – the future of urban mobility.

In 40 short years, we’ve become one of the world’s leading elevator companies with unique engineering capabilities, offering next-generation solutions like MULTI, the ropeless elevator, ACCEL, an accelerated people mover, and MAX, a cloud-based predictive maintenance service. Whether building a new state-of-the-art system or optimizing and modernizing existing ones, our solutions deliver crucial energy and time efficiencies, helping to address the challenges of urbanization and transform cities into the best places to live.

Customers in 150 countries
Over 900 sales and service locations
Sales of over € 7.5 billion
50,000+ employees

A trusted partner
We support our customers throughout their project lifecycle, from the design to the end-of-life phase. Every step of the way, we strive to fully understand their needs and consistently deliver the safest, highest quality passenger transportation solutions, maintenance and modernization packages.

Through our internal technical support function, ITS (International Technical Services), thyssenkrupp trains its service technicians in a multibrand portfolio, enabling them to successfully service more than 1.2 million units under maintenance.

thyssenkrupp – the diversified industrial group
engineering tomorrow together – three words that describe who we are, what we do, and how we do it. Driven by global megatrends such as urbanization and the need for efficient use of environmental resources, our global community of more than 156,000 colleagues works together with our customers to harness our engineering expertise and strive for technological and business solutions that satisfy the demand for “more” in a “better” way.

Find out more: www.thyssenkrupp.com
thyssenkrupp is not liable for the safety of escalators operated by its customers. Responsibility for compliance with local safety regulations, e.g., relating to building interfaces, lies solely in the hands of the customer, who is also responsible for ensuring that an escalator is properly maintained in accordance with the manufacturer’s requirements. Individual details given in this publication are guaranteed only if confirmed expressly in writing and in each respective case.