

Casting a glance into future mobility: thyssenkrupp shows ropeless MULTI at the German Pavilion of EXPO 2020 Dubai

- thyssenkrupp Elevator's MULTI has been selected as a lighthouse innovation for the German Pavilion at EXPO 2020 in Dubai
- The visitors will experience MULTI and its contribution to urban mobility

When EXPO 2020 opens its doors in Dubai in a year and a half, the world's first ropeless elevator for skyscrapers will feature prominently. The innovative and pioneering system from thyssenkrupp Elevator was selected as one of the lighthouse projects to be presented in the German Pavilion, called CAMPUS GERMANY, by the German Federal Ministry for Economic Affairs and Energy. From October 2020 to April 2021, more than 190 countries will seize the opportunity and present their most innovative technologies at the World Expo.

"Dubai is both a significant global business hub and a tourist destination. It's a city that provides a platform for new inventions, attracting people and businesses from around the world. MULTI will support this aim, demonstrating to those at EXPO 2020 precisely how technology can support the growth of urban mobility. We have for our customers the most comprehensive urban mobility portfolio in the global elevator industry", says Peter Walker, CEO at thyssenkrupp Elevator.

The revolution in elevator construction that MULTI provides changes the way people move inside buildings, unlocking completely new perspectives for architects, planners and operators. Its capabilities and technical characteristics are game-changers for the industry. MULTI was unveiled to the public in June 2017 at thyssenkrupp's 800-foot, state-of-the-art test tower in Rottweil, Germany. The solution requires fewer and smaller shafts than conventional elevators and can decrease a building's elevator footprint by up to 50-percent. This is particularly important considering current elevator-escalator footprints can occupy up to 40-percent of a high-rise building's floor space.

MULTI promises no less than a revolution in the elevator industry. By employing linear motors for each individual cabin, no ropes are needed at all. MULTI can move vertically as well as horizontally, and even moves on inclines. Instead of one cabin per shaft, MULTI offers multiple cabins operating in a loop. This results in a 50-percent higher transport capacity, as well as reduced waiting times for passengers.

MULTI creates unlimited new design possibilities and building efficiencies for the cities of tomorrow. It removes height limitations and can be used for skybridges to shuttle from one



building to another. It can be also used to open up new directions of travel in underground transport hubs.

July 11, 2019
Page 2/3

MULTI moves with a top speed of five to six m/s and requires dramatically lower peak power – as much as a 70-percent reduction when compared to conventional elevator systems. This allows for better management of a building's energy needs and reduces investment costs in the power supply infrastructure. All these characteristics make MULTI the optimal solution for high-rise buildings over 300m in height.



At the German Pavilion during EXPO 2020, the innovative MULTI showcase will be presented using digital and real elements, to demonstrate tomorrow's people transportation within and between buildings, giving a glimpse of what future urban mobility could look like.



Within the future urban mobility concept presented by the EXPO, MULTI will demonstrate how various transportation solutions, from underground logistics to air taxis, can be interconnected with the ropeless elevator. Skybridges powered by horizontally-moving MULTI will support lifting passenger transportation to a whole new level.



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On behalf of the Federal Ministry for Economic Affairs and Energy, Koelnmesse GmbH is responsible for the organisation and operation of the German Pavilion at EXPO 2020. Concept, planning and realisation of the German Pavilion are the responsibility of the 'Arbeitsgemeinschaft Deutscher Pavillon EXPO 2020 Dubai', consisting of the two companies: 'facts and fiction GmbH' (Cologne) and 'NUSSLI Adunic AG' (Hüttwilen, Switzerland). *facts and fiction* is responsible for the content concept, as well as the exhibition and media design, while NUSLI Adunic is responsible for the structural execution. CAMPUS GERMANY will cover an area of 4,600 sqm, with numerous innovations related to the EXPO topic of sustainability. Beyond the Future Energy Lab and Biodiversity Lab, there will also be a Future City Lab. The cities of tomorrow need adequate mobility solutions – that's where thyssenkrupp Elevator and MULTI come into play.

Press images can be downloaded [here](#) (credits: thyssenkrupp Elevator).

Press Contact

Dr. Jasmin Fischer

Head of Media Relations

thyssenkrupp Elevator AG

Tel: +49 201 844-563054

E-Mail: jasmin.fischer@thyssenkrupp.com

Web: www.thyssenkrupp-elevator.com

People shaping cities blog: www.urban-hub.com

Company blog: www.engineered.thyssenkrupp.com

About us:**thyssenkrupp Elevator**

thyssenkrupp Elevator brings together the Group's global activities in passenger transportation systems. With sales of €7.6 billion in fiscal 2017/2018 and customers in 150 countries, thyssenkrupp Elevator built its position as one of the world's leading elevator companies from scratch in a mere 40 years' time applying thyssenkrupp unique engineering capabilities. With more than 50,000 highly skilled employees, the company offers smart and innovative products and services designed to meet customers' individual requirements. The portfolio includes passenger and freight elevators, escalators and moving walks, passenger boarding bridges, stair and platform lifts as well as tailored service solutions for all products. Over 1,000 locations around the world provide an extensive sales and service network to guarantee closeness to customers.

thyssenkrupp

thyssenkrupp is a technology group with traditional strengths in materials. Over 160,000 employees in 78 countries work with passion and technological know-how to develop high-quality products and intelligent industrial processes and services for sustainable progress. Their skills and commitment are the basis of our success. In fiscal year 2017/2018 thyssenkrupp generated sales of €42.7 billion.

Together with our customers we develop competitive solutions for future challenges in their respective industries. With our engineering expertise we enable our customers to gain an edge in the global market and manufacture innovative products in a cost- and resource-friendly way. Our technologies and innovations are the key to meeting diverse customer and market requirements around the world, growing on the markets of the future, and generating strong and stable earnings, cash flows and value growth.

