

Record. Reference. Phenomenon of the century.

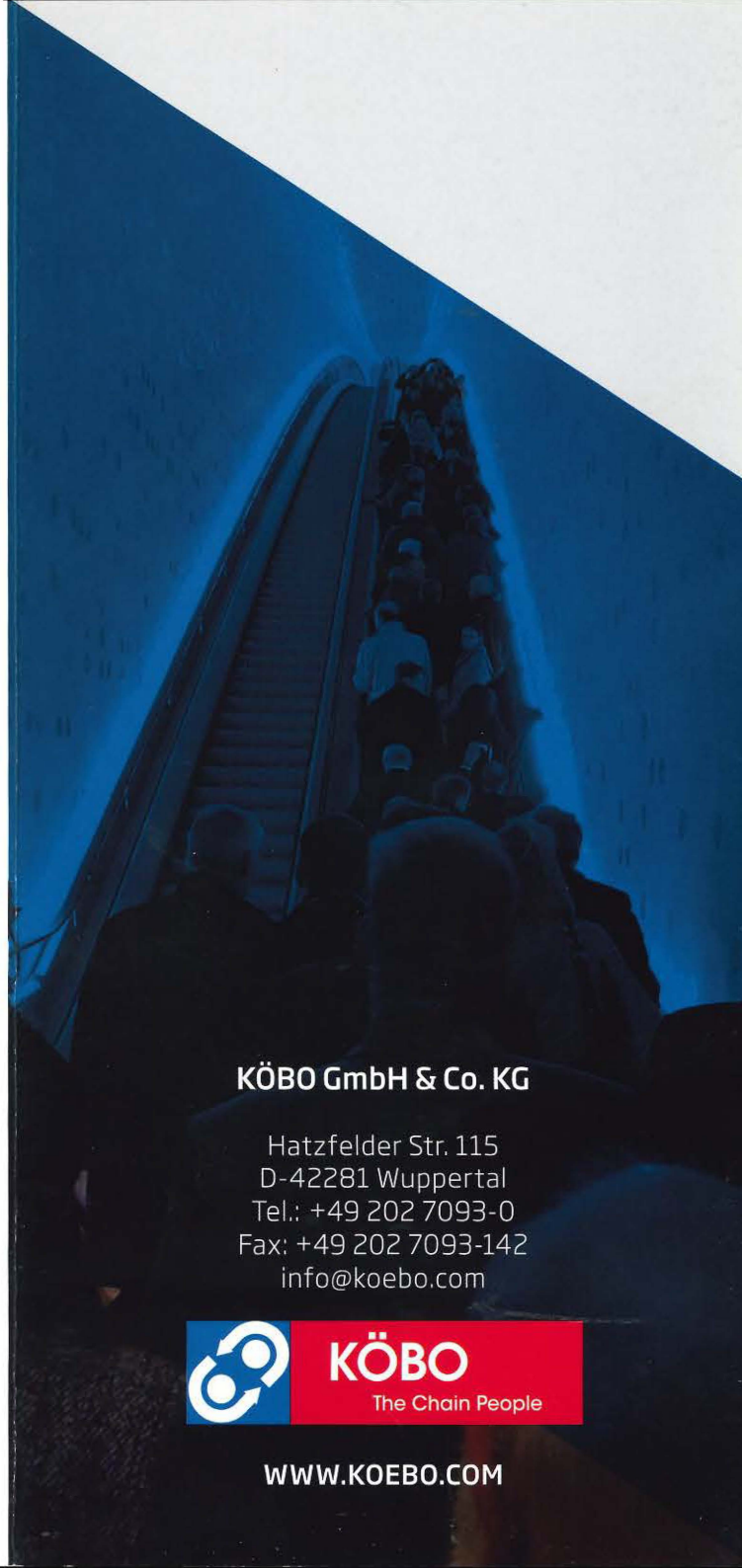
We have been contemplating and acting in a forward-thinking way towards the interests of our customers for over 120 years. We master major challenges by means of our experience and our confidence. In 2017 another internationally recognized reference project has been commissioned: Europe's longest escalator in Hamburg's Elbphilharmonie.

In co-operation with KONE, one of the world's largest providers of elevators and escalators, KÖBO Donghua realized the drive concept for the step band of the curved escalator: An innovative high tech system globally unprecedented.

We as one of the global leaders in the design and manufacture of escalator chains and step band drives are proud of being part of this unique project alongside KONE, and are very proud to have contributed toward this phenomenon in architectural artwork.

On that note we wish all visitors to the Elbphilharmonie a symphony of movement.

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The Chain People



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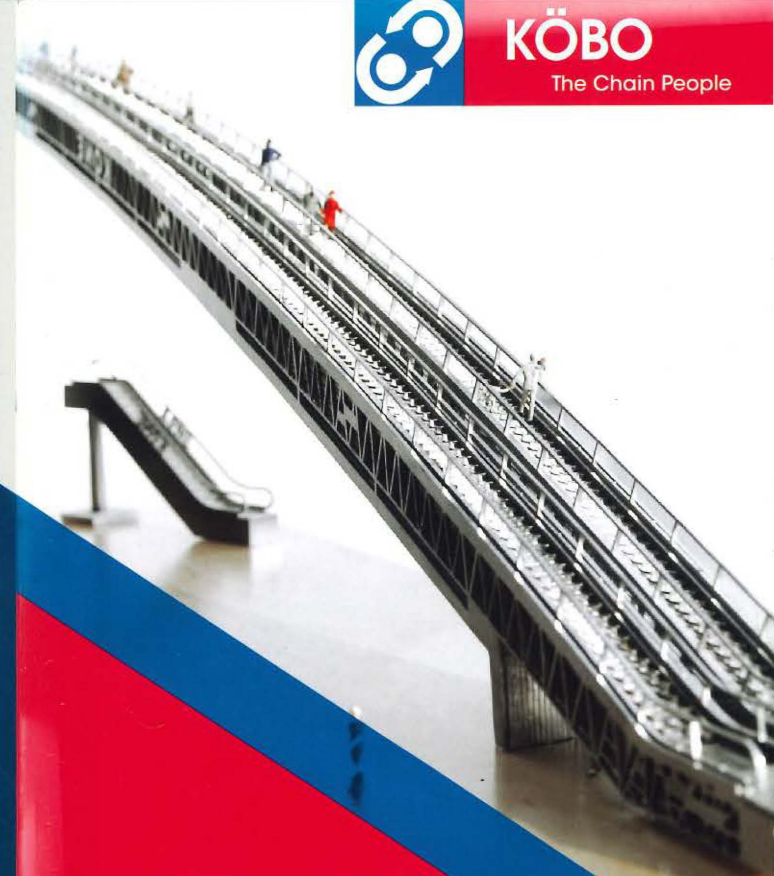
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The curved escalator of Hamburg's
Elbphilharmonie

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A UNIQUE CONSTRUCTION. A TWO AND A HALF MINUTE JOURNEY.

Many sections of the Elbphilharmonie have never been built like this before. This already can be seen and felt in the entrance hall. This is where the curved escalators start transporting the audience up to the "Plaza" at a height of 37m. From this central distribution level, there is access to the concert halls, hotel and the apartments, as well as the restaurants, cafes, bars and the convention center.



The first escalator section travels through a tube of more than 80m in length. 7,900 iridescent miniature glass panels and programmed light incidences, aesthetically turn this journey into an adventure, where there is no line of sight from one end of the escalator to the other. The intermediate level at a height of 30m in turn gives an impressive view onto Hamburg's piers.

TUBE:

Inclination of 26.5° declining to 8°

Radius of curve 210m

Journey time: 2.5 minutes

80.2m

Record for Germany and Western Europe.

The combination of length, vertical rise and curved shape involved huge efforts; the escalators had to overcome a height of 21.43m. By comparison: If they had the same inclination as standard escalators there would be a rise of 40m. On that account, all sectional drive systems, step chains, bases and controller units had to be custom made. Remarkably, many other components could be used from standard production parts.

FROM A MODEL TO A TEST, TO A PRESTIGIOUS PROJECT.

KONE, the executive company, appointed TÜV Rheinland as the attendant testing organization. With an eye to practicability a detailed model was created in advance. The team of engineering experts at KÖBO focused on the step band chains and the main components of the sectional drive systems – a technical master stroke and in no way inferior to the architecture of the Elbphilharmonie.



Supported by KONE

To whom we thank for the friendly support in
realizing this brochure.