

Red Dot Design Award for AeroLiner3000

The Future of train Travel

The AeroLiner3000 train, presented as a world premiere at InnoTrans 2016 has been awarded the prestigious design award "Red Dot: Design Concept 2017". The Jury awarded the innovative design concept as a model for future trains. The architectural and design practice Andreas Vogler Studio designed and developed the first double-deck high-speed train for the UK loading gauge in cooperation with the German Aerospace Center (DLR) and built a demonstrator with the South German company GETA mBH.

AeroLiner3000 – A Double-Decker for Small Tunnels

AeroLiner3000 is a revolutionary double-decker train for Great Britain. With a gauge, considerably lower than on the continent, this option was so far not considered. The airline inspired design approach, the close collaboration with engineers from the beginning and the verification through a full-scale demonstrator led to a valid solution for the capacity crisis on the British railways. AeroLiner3000 allows for an increase in capacity by 30% without touching the infrastructure. This is not just a huge financial and logistic benefit, but also a way to preserve all the rich historical heritage of Victorian stations and bridges, allowing British railways to continue its successful growth. Through its higher capacity and lighter weight, there is less energy needed per person and carbon emissions become even more favourable.

Aerospace Thinking – From Space to Rail

"In aviation, lightweight is top priority" says the Munich-based Swiss architect Andreas Vogler. "With the AeroLiner3000 we show that lightweight construction can trigger a change in the world of rail vehicles." The engineering and design methods of aviation were transferred to the conception and design of the new train. This with impressive advantages: more seats, less weight, increased efficiency. The operating and maintenance costs are considerably reduced, as well as the CO2 emissions. A consciously aimed target, since the basic requirements of the train project oriented to improvement of the 4Cs: "Costs", "Capacity", "Carbon" and "Comfort". Andreas Vogler Studio is successfully working for years with transdisciplinary teams from the aerospace sector. For AeroLiner3000 the visionary Andreas Vogler has partnered from the beginning with the German Aerospace Center DLR, to use the findings of the project "Next Generation Train". This created a strong combination of skills.

Award Winning Design

For the proof of concept and ergonomic verification, Andreas Vogler Studio created a full scale demonstrator. However, in that process the full interior with all train-graded materials and surfaces was designed. The electronically dimmable windows are divided by very slim and elegant diagonal posts. The glare-free OLED illumination provide a comfortable atmosphere, which is supported by finely detailed geometries and materials with haptic qualities.

The RedDot jury was convinced by the classy travel ambience with elegant lines, neutral warm colours and selected materials the interior of AeroLiner3000 produces. Based on high-quality airline Design, the team of AV Studio has created a great comfort in a small space, without neglecting the most important aspects of architecture: the feeling of light and space. This creates an atmosphere that is very similar to traveling in a Business Jet. Lightness and an elegant look appears despite the necessary durability of the surface materials. The leather-fabric combination is used in premium and standard class. "The AeroLiner3000 however, shows that train passengers do not have to give up tasteful, quality interior design." says Andreas Vogler.

Red Dot Award – One of the most Prestigious Design Awards

Identifying good design since 1950, the Red Dot Design Award received more than 18,000 applications in 2016. Making the competition one of the biggest and most prestigious design awards worldwide. Today, the Red Dot Award for design concept has grown to be the largest and most recognised professional design competition for design concept, prototypes ready to launch products worldwide. As the industry benchmark, this competition becomes the foundation of the Red Dot Design Ranking, published by the Red Dot Institute. The Red Dot Award: Design Concept received 4,724 entries from 54 countries. The Red Dot Design Awarding Ceremony will be held on 18 October 2017 in Singapore.

<http://www.red-dot.sg/en/aeroliner3000/>

[This press release and corresponding images are available on our press site for download: \[www.andreasvogler.com/press-center\]\(http://www.andreasvogler.com/press-center\), password: Presse](#)

We appreciate your coverage and are available for any queries, please contact:

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Credits:

Design Team: Andreas Vogler Studio, www.andreasvogler.com

Andreas Vogler, Matteo Mazzero, Sylwia Pawlowska, Sebastian Wolf

Engineering: German Aerospace Center, Institute of Vehicle Concepts DLR, www.dlr.de
Dr. Joachim Winter, Dr. Jens Koenig

Consulting: Design and Project-Management, Robert Künzler, a|p|t design, München

Client: RSSB, UK

Renderings: ©Andreas Vogler Studio

Companies and products involved in demonstrator construction and outfit:

Main Constructor for Demonstrator: GETA mbH, Wangen, DE

Structural Analysis Demonstrator: IB-Reinecke, München, DE

Electrics: Stehle Elektroanlagen GmbH, Neukirch, DE

Dimmable Windows: Vision Systems, Brignais, FR

Illumination: OLEDWorks, Aachen, DE

Seats: RICA, Riihimäki, FI

Leather: Lantal Textiles AG, Langenthal, CH

Fabric: Kvadrat GmbH, Bad Homburg, DE

HPL: Abet GmbH, Herford, DE

Flooring: Forbo Flooring BV, Assendelft, NL

Graphical Films: Gapp Print, Wangen, DE

Andreas Vogler Studio

The Munich based architecture and design office AV Studio led by Swiss architect Andreas Vogler works on international projects for the society of today and the world of tomorrow. With experienced partners and an interdisciplinary team. Between the poles of the core competencies of architecture, art, design and aerospace AV Studio explores the potential of the future.

More about Andreas Vogler Studio and its projects: www.andreasvogler.com

Photos

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On request, we can provide you with further images available.



Red Dot Award ceremony in Singapore on 18 October 2017. From Left to right: Prof. Dr. Peter Zec, CEO of Red Dot, Tobias Buhman CEO of GETA mph, Andreas Vogler, Director Andreas Vogler Studio, Ken Koo, President of Red Dot Singapore.

Video - Youtube

<https://youtu.be/iui7POXBr7s>



AeroLiner3000 - with aerodynamics, elegance and efficiency into the future. The first modern double-decker train on British tracks, which are highly limited by their narrow gauge. Copyright : Andreas Vogler Studio



AeroLiner3000 - The double-deck high-speed train, designed by the architecture and design office Andreas Vogler Studio in collaboration with the German Aerospace Center (DLR) promises more passengers, less noise and lower CO2 emissions. Copyright : Andreas Vogler Studio



The Interior of the AeroLiner3000 - Elegant shapes, neutral warm colours and noble materials form a classy travel ambience. Copyright: Andreas Vogler Studio

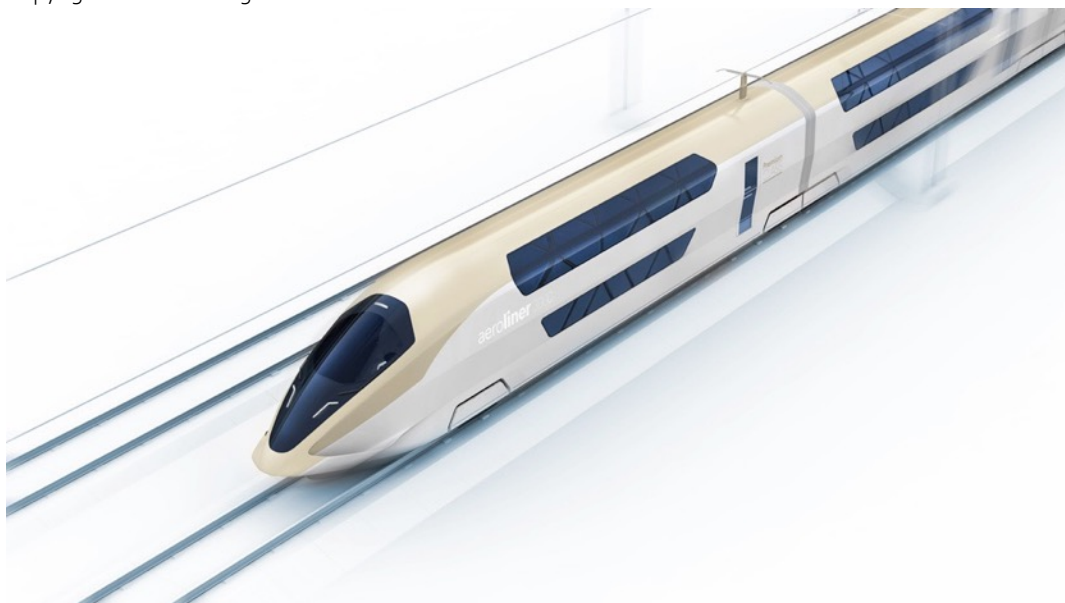


The Interior of the AeroLiner3000: A new lightweight construction allows large windows and a

two level layout of the train. Copyright : Andreas Vogler Studio



AeroLiner3000 – Interior view of the entrance.
Copyright : Andreas Vogler Studio



The new train generation AeroLiner3000 has premiere at InnoTrans 2016 in Berlin, world's largest trade fair focused on the rail transport industry, from 20 to 23 September 2016th, Hall 2.2, booth 405.
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AeroLiner3000 Full Elevation, Copyright : Andreas Vogler Studio