REVOLUTION VLR

THE FUTURE IS VERY LIGHT RAIL

STARTING THE REVOLUTION

Revolution VLR is an innovative, first-of-a-kind project that utilises leading-edge technologies from the rail and other key sectors to provide a high-quality, affordable solution to facilitate growth of the UK railway, including line extensions and reopening's.

This revolutionary vehicle provides a unique blend of journey experience and ease of access. The lightweight composite bodyshell and hybrid, emission-free powerpacks reduce energy consumption and maximise operational cost effectiveness.

"Our mission is to help to facilitate the cost effective growth of the UK railway system, particularly through the use of line extensions and re-openings."

INDUSTRY EXPERTS

Revolution VLR is a consortium of highly skilled, innovative, forward looking companies and organisations dedicated to the development and implementation of next generation ‘very light rail’ vehicles and technologies.

The organisations which make up the Revolution VLR consortium are consortium leader TDI, RSSB, Eversholt Rail, WMG at the University of Warwick, RDM Group, Cummins, Prose AG and Transcal Engineering.

150

YEARS OF COMBINED EXPERIENCE

1,000

PROFESSIONALS ACROSS THE CONSORTIUM

75%

OVER 75% UK SUPPLY CHAIN CONTENT

SUSTAINABILITY

Revolution VLR solutions offer a range of enhanced opportunities, such as decarbonisation and will enable land owners, developers, construction companies, local authorities and other stakeholders to ensure the provision of innovative, environmentally friendly, safe, secure and sustainable transport that make journeys easier and reliable.

"Our mission is to reduce the environmental impact of public transport/rail systems, provide sustainable cost-effective outcomes and educate future generations."

INNOVATIVE DESIGN

The technologies incorporated in Revolution VLR ensure a cost effective, sustainable transport system. The bodyshell utilises a modular design approach with flush-bonded glazing and powered plug-sliding doors ensuring ease of access. This design approach facilitates reconfiguration to meet specific customer needs and provides multiple vehicle layout options.

VEHICLE FEATURES

CONSTRUCTION

- Composite bodyshell, recycled carbon fibre
- Spacious and high visibility driving cabs
- Modular vehicle assembly design approach
- Easy access through 4 single sliding plug doors

POWERPACK

- Efficient hybrid diesel-electric powertrain
- Zero-emissions operation in stations, also reducing noise levels
- Transferring state of the art automotive engine technology to a rail environment
- Lithium titanate battery packs for performance, safety and durability

PERFORMANCE

- Diesel electric battery hybrid propulsion system (Euro 6 compliant)
- Maximum speed of up to 60 mph
- High acceleration with regenerative braking
- Zero emissions up to 20mph in stations and built up areas

INTERIOR

- Comfortable contemporary interior design
- Seats 56 passengers, overall capacity of 120 passengers
- Wheelchair facility for persons of reduced mobility
- Air conditioned
- Personal device charging facilities

CONFIGURATIONS

- Multiple vehicle layout options
- Luggage / bicycle / ski / surfboard storage facilities

VEHICLE SPECIFICATION

PASSENGER CAPACITY	**56 seated passengers**
MAX SPEED	**60 mph**
PROPULSION SYSTEM	**Diesel electric hybrid battery system**
DIMENSIONS	**Length 18.5m, width 2.8m, height 3.8m**
ACCESS	**4 single leaf sliding plug doors**
DRIVE SYSTEMS	**Modal propulsion systems**

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