

PIONEERS IN VERY LIGHT TRANSPORT

INSPIRING TOMORROW'S TRANSPORT

TDI is an award-winning innovative transportation solutions provider,
specialising in road and rail transport applications.

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ABOUT US

“We are pioneers in the design and delivery of sustainable, light weight mass transport solutions.”

TDI develop transport solutions that lead the transport industry in Very Light Rail (VLR) technology.

We are specialists in the design and innovation of cutting edge vehicles with the very latest technology in light-weighting (VLR), disruptive propulsion systems and zero-emissions battery hybrids. TDI work with local communities to develop e-commerce and enhanced connectivity while still maintaining a sustainable, cost-effective transport solution.

WHAT WE DO

Full 'turnkey' solutions provider



Design

- Market Research
- Human Factors
- Graphics
- CGI Animations
- Prototypes
- Interior Design



Engineering

- Production Engineering
- Production Design
- Mechanical Engineering
- Finite Element Analysis
- Crash Simulations
- Mock-ups & Prototypes



Project Delivery

- Feasibility Studies & Bid Support
- Full Manufacturing Services
- Project Management



Planning Support

- Terrain Analysis
- Capacity Analysis
- Integrated Route Planning
- Future Proofing

SUSTAINABILITY MISSION

“To reduce the environmental impact of public transport systems, provide sustainable cost-effective outcomes and educate future generations.”

Our transport solutions offer a range of enhanced benefits supporting decarbonisation which 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 solutions that make commuter journeys easier and reliable.

 **70%**
UK SUPPLY CHAIN

 **30%**
RECYCLED MATERIALS



HISTORY OF VLR

Over 30 Years Experience | 135 Projects in 12 Countries



MINITRAM
1995-2003



AL HOOTA VLR
2008-10



VECTUS PRT
2005-13



KONYA VLR
2012-14



REVOLUTION VLR
2013-21

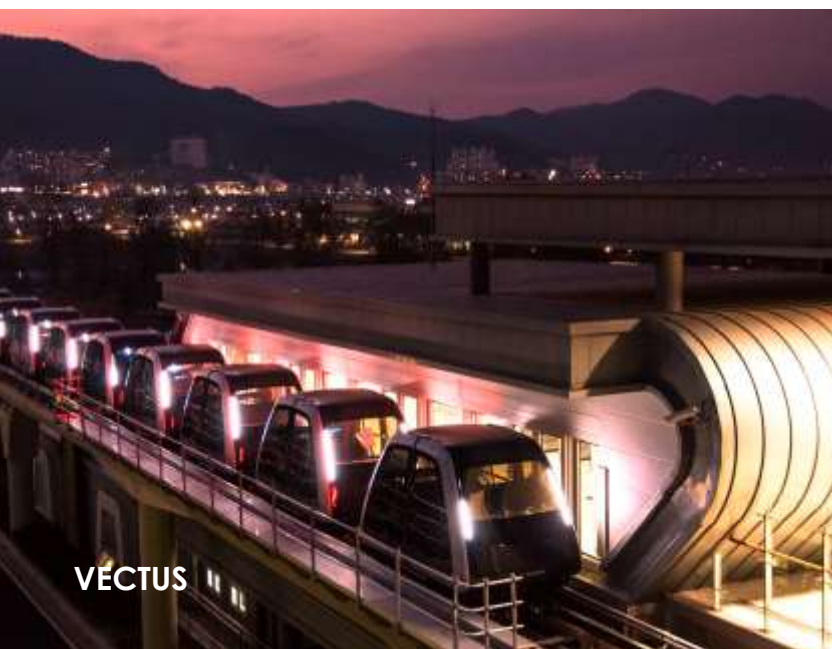
COVENTRY VLR
2016-22



CRRC



KONYA



VECTUS



COVENTRY VLR



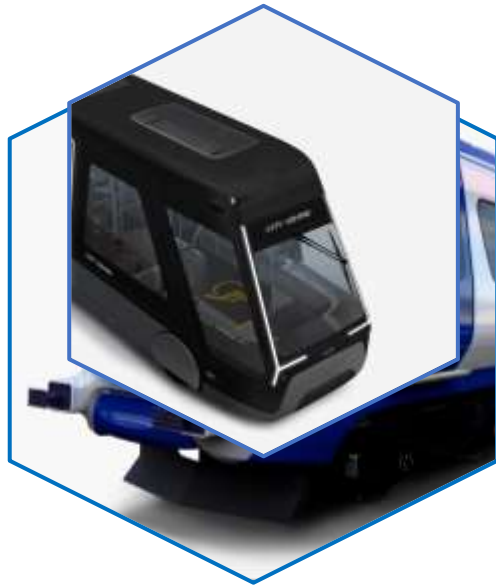
COVENTRY VLR

OUR VEHICLES

VERY LIGHT RAIL & ROAD VEHICLES

VEHICLE TYPES

Four platforms designed for segregated & semi-segregated environments



RVLr
Segregated



LYNC
Semi-Segregated



ORBIT
Semi-Segregated

VECTUS
Segregated



REVOLUTION VLR

Revolution VLR is the development of next generation, 'very light rail' technology. A key aim of the vehicle is to facilitate low-cost connectivity of regional and rural areas. Revolution VLR is fundamental to the provision of integrated and sustainable, short range public transport systems both now and in the future. A range of power units for the vehicle are available including diesel-hybrid or battery power source solutions.



LYNC

Lync is a state-of-the-art, light urban transit vehicle designed to connect outlying communities with towns, city centres, and their main transport hubs. Lync is a spacious, long distance, zero-emissions transport vehicle with excellent manoeuvrability for urban locations. It is lightweight, bi-directional and includes in service fast opportunity charging allowing 24/7 service.



ORBIT

Orbit is a uni-directional vehicle utilising an LTO battery power unit with autonomous capability for enclosed and semi-enclosed environments. This state-of-the-art, light urban transit vehicle was designed to operate in town/city centres, visitor attractions, airports, exhibition sites and park-and-ride applications and for “last mile” freight logistics operations.



VECTUS

Vectus is an intelligent, automated people mover which meets all the safety and operational standards required of a traditional rail-based transit system. Vectus can also provide the ‘last mile’ of transportation, for example, from a busy railway station, which might otherwise involve a taxi ride or a bus. Vectus is a cost-effective public-transit solution in comparison with monorail or alternative rail systems.

RAIL ECOSYSTEM

INNOVATIVE INFRASTRUCTURE SOLUTIONS



SMARTRAX

Intelligent Track System

SmarTrax is a TDI solution specifically designed to support very light transport. The design philosophy is based around the need to reduce infrastructure installation costs and provide intelligent track monitoring capability to manage wear and tear. It is quick to deploy and simple to maintain.



Optimsied for VLR



Cheaper than heavy gauge track



Leased asset class



Remote monitoring & simple maintenance



BATTERY-AS-A-SERVICE (Baas)

In-Service Charging

TDI has developed an in-service, lineside charging system which connects automatically to our vehicles allowing for fast charging capability during operation. *Battery-as-a-service*, allows TDI to offer maintenance programs to install and update different battery systems. This is a huge advantage as battery technology continues to evolve.



Improved duty cycle



Interchangeable battery chemistries



Tailored vehicle performance



Cost-effective maintenance



LOCAL MANUFACTURING CENTRE (LMC)

'Design Local, Deliver Local'

A major sustainable initiative for TDI is our Local Manufacturing Centre or LMC concept which allows the local deployment of vehicles. This concept will aid investment in several UK wide "local" economies, for both short and long term, futures.



Productivity



Local Economic Benefit



Environmental & Traffic Issues



De-carbonisation

THANK YOU

ANY QUESTIONS?

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