



## Collaborative to the core

At VolkerWessels UK, we are proud of the wide range of engineering and construction expertise that our businesses can offer. Alongside our core capabilities, a number of our businesses deliver specialist services, either supporting our core business by offering integrated and often niche, in-house solutions for our clients, or by providing a direct, bespoke, specialist service. Collaboration between our businesses is key to our success and enables us to offer added value on our projects.



VolkerLaser

### VolkerLaser

VolkerLaser specialises in the waterproofing, strengthening and repair of concrete and steel structures and buildings, supported by temporary works solutions, jacking, bearing replacement and innovative access solutions.

A key focus of the business is the repair of highways - for example, VolkerLaser's work on the M5 Oldbury viaduct was the largest concrete repair contract undertaken in Europe. The business also delivers a range of services to refurbish and revitalise car parks, including structural repairs, deck waterproofing and coatings, complemented by a full refurbishment package.

2019 saw VolkerLaser introduce new temporary works capabilities, access systems and products to its offering. These include the Fast Beam parapet access system; the V Deck™ under-deck system; and the Acotec limpet cofferdam for repair works in the marine environment, in conjunction with Humidur, a one coat paint system (see Innovation section p12 for more detail).

### PJ Davidson

P J Davidson (PJD) is the UK's leading slipform concrete contractor. Operating primarily on highways and tunnel projects, the business also deliver concrete pavements, both slipform and handlay. In addition PJD has a unique capability in the UK market to slipform tunnel inverts and walkways, facilitating significant programme savings.

Davidson's Concrete Barrier (DCB) is PJD's exclusively developed, CE marked highway barrier system. This offers the benefits of a reduced cross-sectional area compared to conventional concrete barrier, as well as the flexibility to adapt the design to suit specific project conditions. With four of its own Concrete Batching Plants, the business also has the ability to self-deliver on a 24/7 basis, completing even large and complex projects efficiently and to a very high specification.



PJ Davidson

“At VolkerWessels UK, we have the in-house capability to collaborate and deliver a wide and integrated range of niche, specialist solutions to supplement our core service, and offer our clients added value.”

Alan Robertson  
CEO  
VolkerWessels UK

#### SPECIALIST BUSINESSES

- VolkerBrooks
- VolkerGround Engineering
- VolkerHighways
- VolkerInfra
- VolkerLaser

- VolkerRail
  - VolkerTrenchless Solutions
  - VolkerSmart Technologies
- P J DAVIDSON (UK) LTD**



VolkerInfra



VolkerTrenchless Solutions

## VolkerStevin Specialist businesses

### VolkerGround Engineering

Marking its 50th anniversary in 2020, VolkerGround Engineering provides driven and in-situ steel and concrete piling, geotechnical services and foundation engineering solutions. The business offers a unique pre-construction service enabling it to develop bespoke, optimised solutions to suit specific client requirements, setting it apart from other contractors.

VolkerGround Engineering is experienced across numerous sectors, including flood defence, highways, rail, aviation and in London basements. Key projects in 2019 included supporting the VolkerFitzpatrick joint venture at Luton DART and VolkerStevin (as part of VBA) on the Mytholmroyd Flood Alleviation Scheme.



VolkerBrooks

### VolkerBrooks

VolkerBrooks is a specialist service provider of site accommodation, Linkflote pontoons and marine plant, offering a

range of solutions for hire and sale. Owing the largest for-hire stock of Linkflote modular pontoons in the UK, the system is versatile, road transportable and easily handled, providing an effective and economical solution to meet the most varied of needs.

VolkerBrooks' bespoke temporary and permanent site accommodation offering provides a 'one stop shop' turnkey service which includes installation, full groundworks and engineering support, security, fencing and hoarding, temporary works design, cleaning services, as well as full facilities management and maintenance.

### VolkerTrenchless Solutions

VolkerTrenchless Solutions (VTS) is a joint venture between VolkerStevin and Visser & Smit Hanab which are both part of VolkerWessels.

The business specialises in horizontal directional drilling (HDD), offering an unrivalled team of in-house experts capable of executing the largest and most complex HDD projects using its comprehensive fleet of drilling rigs. HDD offers a trenchless method of installing pipelines or cables along routes where conventional open cut is not possible, such as under roads, railways, rivers, environmentally sensitive areas, long sea outfalls and shore approaches. During 2019, VTS worked along a 40km cable route, delivering power to the onshore substation from the East Anglia 1 offshore windfarm.

### VolkerInfra

VolkerInfra is our specialist extra high voltage (EHV) underground cable installation contractor, providing customers with optimal design solutions for cable systems up to and including 400kV. Its

focus is on underground cabling works within substations, across land pipeline installations for offshore and onshore wind farms, and between country interconnectors.

VolkerInfra currently has two flagship projects across the UK at the Moray East and Hornsea Two offshore windfarms.

## VolkerHighways traffic management

VolkerHighways' traffic management division supports both internal and external clients, and is operated from two locations in the south east. Accredited for both high and low speed, the business has its own fleet of vehicles and temporary traffic signals, and in-house CAD capability, for the production of traffic management plans.

### Surfacing

Originally set up to support VolkerHighways' own term maintenance business, its surfacing business covers major roads, Local Authority highways, car parks, and footpaths, for both public and private sector clients including work for all VolkerWessels UK operating businesses.

### Lighting

VolkerHighways provides a wide variety of street lighting and electrical services as part of its integrated highways delivery offer. Its services include the design, installation and maintenance of street lighting systems, including mass LED upgrades, and the associated Central Management and Control Systems (CMS), as well as architectural and feature lighting.



Traffic management

## VolkerSmart Technologies

VolkerSmart Technologies installs and maintains much of the physical infrastructure required for a Smart City - one that uses linked technology and data to provide an efficient and interactive public service. This includes communications infrastructure, sensors, data platforms, analytical software and personal apps. The business also installs air quality sensors, variable message signs and traffic cameras. VolkerSmart Technologies is accredited as an Independent Connection Provider, (ICP) and can deliver metered and unmetered electrical connections to premises and also to the highway network.



VolkerSmart Technologies

Electric vehicle charging point installation is a key and growing service offered by VolkerSmart Technologies, working directly for public and private clients, and with manufacturers.

The UK Government is promoting high speed broadband to the home, together with 5G. VolkerSmart Technologies is well placed in this sector, thanks to its existing expertise, gained from the recent growth in the telecommunications sector, with 5G networks, and a particular focus on broadband. VolkerSmart Technologies has delivered large scale installations for CityFibre in Ipswich, with whom the business is developing a strategic relationship. Read more about this project on p42.

## VolkerRail Specialist Businesses

VolkerRail offers solutions serving both the heavy and light rail sectors. Its major projects division specialises in complex, multi-discipline, design and build projects, where the integration of rail systems is critical.

The business' permanent way teams are experienced in the renewal of all track forms in use across the UK, and are the market leader in tram systems renewals. VolkerRail is a sector specialist in overhead line electrification, HV and LV power distribution installations, and its in-house design capability allows the signalling and telecoms division to deliver design and build projects to all market sectors and infrastructure owners.

VolkerRail has a significant plant fleet and the business is a market leader in the supply and operation of rail mounted cranes, tampers and road rail vehicles. It has recently enhanced its offering to the rail industry with the formation of its piling and ground improvement business which can offer an integrated service both within rail, and for the wider infrastructure sector.



VolkerRail Specialist Businesses