

Covid Related Products and Services

Background

During the Covid19 pandemic a number of companies have swiftly turned their hand to designing and producing new products and services to support the fight against the virus. Some of these have been focussed on assistance to the NHS and the care sector for PPE whilst others have been business related products and rail specific products being brought to market.

This document provides a very brief overview of a number of these initiatives to demonstrate the agility and flexibility of Rail Forum Midlands members and the wider supply chain. It may be of use as a reference to colleagues within and beyond the industry.

PPE Related Activity

A number of companies have designed and manufactured items of PPE, mainly face shields/visors. These include: DB ESG, National Composites Centre, Ricardo, TRB Lightweight Structures, ViatorRail and University of Derby. In addition Datum Composites and Dyer Engineering manufactured parts and beds for the Nightingale Hospitals. CB Frost supplied material for seals in face visors and Solo Rail provided cutting services for specialist fabrics for the NHS.

Specific items of PPE that were designed include:

Morson

Design and production of specialist visors that allow someone with the wearer to be able to lip read. The visors do not require masks to be worn underneath them and are contoured to facilitate a clear view of the wearer.

EPS (UK)

Design and production of special face mask grips for those who have to wear them for long periods

New or Enhanced Products and Services

Acres Engineering

Produce a very wide range of social distancing cubicles, desk dividers etc suitable for numerous applications. This includes hand sanitiser stations, door opening mechanisms and fever cameras – see attached detailed brochure.

CoMech Metrology

FeverVision is a module which combines fever temperature detection with hand sanitisation to help ensure a safe environment for all personnel within a business. Each module features contactless body temperature measurement, a hand sanitiser unit, and a clear on-screen instruction video. The FeverVision modules have been developed with business' safety in mind. These work when the user is stood up to 70cm from the module. The user's body temperature is read with a high-resolution camera and a medical infrared sensor with an accuracy of 0.2 °C. Individual employees and visitors are monitored quickly with on-screen results, making them crucial for hygiene control. The modules are completely safe to use, as the body temperature reading process is completely contactless. The system's infrared camera accurately measures body temperature and provides a warning if the temperature is too high and indicates a fever. The clear instruction video features a progress bar that counts down 30 seconds, while the person standing in front of the screen can disinfect their hands thoroughly with the FeverVision hand sanitiser system.

High Motive

Stabilised Aqueous Ozone is a powerful, natural sanitised cleaning solution which can be used for any surface or area and is more powerful than chlorine. Yet if it is spilt on clothes or skin there are no adverse effects. The Lotus® Pro is a permanent fixture that is mounted onto the wall and connected to your power and water supply, enabling you to create Stabilised Aqueous Ozone whenever you need. At the push of a button, cold water is automatically added to the stabilisation module compartment, which changes the mineral composition of the water. It is this process that allows the aqueous ozone to stay stabilised for longer. The water is then passed through to the main Lotus® Pro unit, where Oxygen and volts of electricity is added, converting O₂ into O₃. This creates Stabilised Aqueous Ozone. The unit then dispenses the Stabilised Aqueous Ozone into mop buckets, floor scrubbers or spray bottles, providing you with a powerful sanitiser and cleaner for 4 or 24 hours, depending on your cartridge type. For the 4 hour cartridge type, it can produce 3000 litres of Stabilised Aqueous Ozone and for the 24 hour cartridge, it can produce 6000 litres. While in this stabilised form the composition becomes highly effective, clinging to dirt, grime and bacteria, killing up to 99.999% of harmful contaminants. While it works to kill harmful contaminants on contact, unlike Steri-7 XTRA, Stabilised Aqueous Ozone does not provide any barrier to contamination after the Ozone has worked to sterilise the surface. So, if someone contacts the surface after the fact, it will not be deemed sterilised and will need to have Stabilised Aqueous Ozone reapplied. Once the 4 or 24 hours are up, it simply reverts to normal tap water, and you can pour it away without any harm at all to the environment.

RDS Global

RDS Global's innovative Black Box™ has been tailored for use with the integration into sanitiser stations to provide details on the take-up of hand sanitiser, identify who has used it within an organisation, control entry to a business premises, and check people's temperature. The system is now so sophisticated that if an individual is running high on the temperature check there will be a recorded note, to not allow access for a minimum 14 days, and to raise an alert if the conditions are not followed. The unique patent pending solution from the firm, founded in 1997, aims to revolutionise the way industry functions and is capable of connecting different systems and controllers, and porting multiple data feeds into one place.

TBM Rail

TBM Rail provide a range of cleaning services for the industry. Specifically:
Disinfection fogging service – an immediate need for train, tram, bus and lorry fleets was to keep carriages and driver cabs sanitised. A quick wipe with standard cloths was not enough. TBM worked to incorporate disinfection solutions with corded and battery-operated fogging machines. This allows coating of all surfaces within enclosed spaces with a solution that kills bacteria and viruses. The offering to transport operators was soon extended to schools, offices and shops to help them prepare for the easing of lockdown restrictions.
Hand sanitisers – one of the train operators customers asked for the development of a robust dispenser that could be installed inside carriages. This was done in partnership with an existing supplier of internal fittings and washroom equipment. It comes with a sensor that lets users dispense hand sanitiser without having to touch any equipment.
Temperature checking tablets – another new addition was the offer to install temperature checking tablets in office and depot reception areas. This allows businesses to check staff and customers for one of the obvious symptoms of Covid-19. Part of a range of solutions to give peace of mind to those working in shared, busy areas.
Grab poles with antimicrobial additives – something that TBM have offered for some time, the coronavirus pandemic has focused minds and encouraged fleet operators to think about materials that can be used for new vehicles and carriage refurbishments.
CET tank assessments – with upwards of 90% of carriages parked up at depots during the lockdown peak, passenger toilets and storage tanks have remained unused. The potential for stagnant fluids, smells and infection presented a risk to staff and passengers. CET tanks

and pipes can also seize up if left unused and untested for long periods. TBM ramped up their FREE assessment offer to highlight the importance of scheduled maintenance of tanks to ensure that passenger facilities are safe, hygienic and available when they are needed.

Tenbroeke

TenBroeke Co Ltd is the sole agent in the rail and transport industry for Pathogen Prevention Ltd – a Health Technology specialist in UV-C solutions that kill bacteria, micro-organisms, coronaviruses and deadly pathogens in the air, on surfaces and in liquids. The chemical-free technology is proven to kill 99.99% of pathogens and creates hygienically clean environments:

- Air disinfection with UV-C significantly eliminates the bacteria count
- Covers the air supply, recirculated air in air ducts, air handling units in rolling stock, offices, control rooms, staff welfare facilities, canteens, stations, retail outlets, lifts, equipment rooms and other enclosed spaces
- Sterilises surfaces in food retail outlets, escalator handrails, offices and any room
- Manufactured in Switzerland to high quality regulations and standards achieving CE accreditation, FDA approval for use in the USA using ISO 9001 and 14001 management processes
- Registered on the UK Government's Coronavirus (Covid-19) response key suppliers list maintained by the Crown Commercial Service
- Currently deployed in the pharmaceutical, manufacturing and food processing industries together with hospital operating theatres – all areas where the elimination of viruses and bacteria is critical

Tenbroeke provide advisory services to design a tailor-made solution for each client's environment and oversee the supply installation and maintenance of the UV-C equipment.

WorkWallet

Digital Health and Safety platform incorporating a virus alert system developed to help businesses inform staff quickly about any Covid19 detection on sites and in the workforce. Managers and employees are instantly and easily notified if Covid-19 has been reported within the business, it also shows who has been working in close proximity to them recently so they can follow government guidelines as quickly as possible.

The platform also incorporates remote induction including rapid updates as guidance changes and an Access Control module which allows non-contact access to sites, it has some pretty impressive technology such as face ID to check if you are wearing a mask and social distancing management.

Zipabout

Zipabout's [Passenger Connect](#) app enables all users of National Rail Enquiries to receive real-time personalised travel updates across Messenger, with an upcoming rollout on WhatsApp and SMS. Zipabout is working with UK Government on the rollout of [Passenger Connect](#), advising travellers if disruption and overcrowding will affect their journey. The service will also provide alternative travel options: helping people maintain social distancing as they continue to make essential journeys.

Wider H&S and Consultancy Services

A number of consultancies are offering 'new' Covid related services – a couple of examples of these are on the attached fliers/pdf documents.