

Assenta Rail

Driving Innovative Engineering Solutions Further

From setting new objectives, to understanding your industry's emerging needs, a new year presents a prime time to reflect on achievements, capitalise on opportunities and embrace change.

At Assenta Rail, we are proud to have developed a range of rail engineering solutions since our inception in 2001. Innovation thrives throughout our organisation, and we have developed cutting-edge products that will continue to play a dominant role in 2023.

Developing Innovative Central Door Locking (CDL) Solutions

As mandated by the Office of Rail and Road (ORR), all rail vehicles must now be fitted, and retrofitted with central door locking (CDL) solutions. Affecting primarily heritage railways and operators of historic trains on main lines, the ORR launched an industry-wide consultation on the application of the Railway Safety Regulations 1999 (RSR 99) to Mark 1-type and hinged-door rolling stock, when operated on railway infrastructure where line speed exceeds 40km/h.

RSR 99 was introduced to deal with safety risks, as highlighted by a series of accidents from trains passing signals at danger and collisions involving Mark 1 rolling stock. As a result, it is imperative that the industry implements reliable and efficient CDL solutions to achieve the above. This is where Assenta Rail comes in.

Over the past two years, we have collaborated with a diverse range of clients to deliver bespoke CDL services that can be adapted to different vehicle types. It was a

core part of our business in 2022, and looks poised to grow even further in 2023, honed, in part, through our close client collaboration and engagement with the ORR. We look forward to evolving this along with our other products this year.

Creating Products Fit for Change

Developing products that deliver positive change for our customers is crucial. We have developed controlled effluent tanks (CET), in essence, tanks for toilet waste, to support the rail industry in removing waste safely and hygienically. Historically, train carriage waste was deposited on the tracks. However, this is no longer permitted, thanks to the developing green agenda that is coming into play.

Our CET solution safely stores waste so that it can be transported and disposed of at the depot, post journey. The bespoke system can be adapted to suit different client needs.

Moving forward, all operators are legally required to employ this method. We are one of the few suppliers offering this solution, and also have experience of integrating the product in Europe.

Flange Lubricators

Assenta were approached by a client who had been experiencing significant wheel wear in the North of Scotland – a common occurrence for those operating P8 profiles. At the time, Network Rail were also in the process of changing the profile of the tracks in Scotland.

We were asked to find a solution that would eliminate the need for track changes. Assenta created a flange lubricating solution, where brackets were installed to lubricate the wheels to help them slide more easily and reduce erosion.

The design stage and fit of this process took some time to develop, and Assenta implemented a trial fit in January 2023 with two clients.

Given the radical changes the environment is undergoing due to climate change – e.g. the extremely dry summer we experienced in 2022 – this will no doubt become a key issue for operators, and something that many should seek to implement sooner rather than later.

Battery Boxes

Assenta was contacted by a client who was having trouble finding a manufacturer to supply a physical battery box, since it required an obsolete part. We were able to draw up the design and manufacture the product on their behalf. It was great to be able to offer a bespoke solution to a client in need, and we look forward to doing more of this in 2023.

Nurturing Growth

We established our depot in Hamilton, Scotland as a base for our operations in 2019. One of only two independents in Scotland, the depot has enabled us to bring our engineering offering in-house and provide an end-to-end turnkey service to our clients.

Since launching, we have experienced an increase in volume of business. As such, the focus for us in 2023 will be to increase capacity to support the evolving demand. We have plans to extend the depot to accommodate the increased workload, and look forward to unveiling this later in the year.

We are proud to be delivering for Scotland and working closely with clients both in Scotland and in the wider UK. We will also be looking to grow our team in tandem with the depot expansion.

It has been heartening to see the positive impact our products are having on our customers and the rail industry. We look forward to delivering more engineering solutions to our clients in 2023.

**For more information please contact
Lewis Rodger, Compliance Manager, Assenta Rail**

l.rodger@assenta-rail.co.uk

+44 (0)131-516-7110

assentarail.co.uk



CET Tank





DEDICATED TO
PROVIDING BESPOKE
RAIL SOLUTIONS

Assenta Rail

Our expertise covers a wide variety of vehicle types including passenger stock and freight wagons. With projects ranging from small modifications on individual vehicles to large fleet refurbishment and replacement.

As a certified Entity in Charge of Maintenance (ECM), we adhere to strict control processes and systems at all times in line with regulatory requirements.

Assenta Rail has an expansive range of depot facilities including: Paint Shop, Bogie Press, Vehicle Lifting Jacks, Overhead Crane and Workshop with Pits.

Specialists in:

- Heavy Maintenance
- Light and Running Maintenance
- Vehicle and Component Overhauls
- Modifications and Repairs
- Vehicle Painting
- Project Management
- Design and Consultancy



CONTACT US

EDINBURGH OFFICE:

SUITE 30 BONNINGTON BOND
2 ANDERSON PLACE, EH6 5NP
TEL: 0131 516 7110

HAMILTON LIGHT MAINTENANCE DEPOT

25 DALZIEL STREET
HAMILTON, ML3 9AT
TEL: 01698 207947