



systems, now has a product range capable of handling load capacities from 4 to 35 m<sup>3</sup>. NTM has designed and built a 'single lift' system capable of loading four independent waste streams at the rear of the vehicle with its Quattro system.

The model range starts with the compact K-2K and higher capacity KG-2K models, which enable two waste streams to be collected from hard-to-reach areas. The split-tailgate of the KG-2K enables the collection of bins up to 660 litres on the largest 'split', with 370-litre bins on the smaller side. The K-2K is designed for 7–10-tonne gross weight chassis, while the larger KG-2K is designed for two axle chassis up to 18 tonnes and three axle chassis up to 26 tonnes gross weight.

For collection applications where the cross-contamination of waste streams is undesirable – for example with food waste – NTM offers the KGLS-2B/KG-2B models with two completely separate bodies and tailgates, thus making cross-contamination impossible. These units are available to fit 26-tonnes gross weight truck chassis.

The collection of organic – or 'green' – waste can present major problems as leachate discharge and other issues can present a challenge both to reliability and legality of units in operation. NTM offers a purpose-designed unit – the KGBH-2K which is designed with higher side-walls to help prevent spillage. Containers of 660 litres on the largest 'split' and 370 on the smallest split can be accommodated, although an option enabling 660-litre bins on both sides is also available.

In many markets, the use of one or two man side-loading units can be ideal as a way of reducing costs, or speeding up collections. NTM offers the OM-2K Automated Side Loader, which has the capability to fix onto and lift waste

containers from up to 2.4 metres from the actual truck, empty into the hopper and replace the container, without the driver having to leave the truck cab. Hopper compaction is by 'pendulum' principle, which has low life-cycle operating costs due to the small number of moving parts. Side-loaders can be specified on either two- or three-axle truck chassis and come in capacities of 14–24 m<sup>3</sup>.

In addition to this range of two-compartment waste collection systems, NTM can also provide a third, non-compacting compartment located behind the truck cab, to enable a third waste stream – such as glass cullet or cans – to be collected.

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### Going underground

A new generation of underground waste collection/storage system has been introduced by German-based Bauer GmbH. Marketed as Model GTR, the new system joins an existing range of above ground, semi-underground and completely underground products produced by this specialist manufacturer. Although the GTR is still in what the company considers to be phase one of its introduction, it has already attracted orders thanks to meeting all the demands of increased economy and environmental standards.

All that is visible above ground is a simple column and anti-slip pavement 'plateau'. The new system has been designed from the outset to be readily accessible by children and wheelchair users. The entire collecting chamber is located below the surface, keeping odours at a minimum.

An important safety feature is that while the galvanized metal inner container is raised for emptying, a patented, self-closing platform guarantees the safety of operatives or any passing member of the public.

The GTR has been designed to provide city authorities with the potential to install a high-capacity waste system that offers greater economies of scale – in that it requires less-frequent collection – without affecting the appearance of city centre areas where hygiene and an attractive appearance



are essential. Putting waste material underground has the added advantage of keeping the waste cool in hot weather, thus reducing odours, and dry in wet weather.

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### Weighing up the issues

As the waste industry develops from one where disposal costs money to a position where recycled waste materials actually have a market value, it's essential that the amount and weight of each fraction is known throughout the whole process.

Clearly, overweight trucks can attract legal penalties, but at the same time, the higher costs of fuel and even mileage toll charges by national governments, or city authorities, point to the need for all waste and recycled materials trucks to be loaded to the optimum payload figure – without being over legal limits.

PM On-Board – now known as Vishay PM Onboard – has been supplying accredited weighing systems for over 22 years and has been producing waste container weighing and billing ID systems since 1999. The company is BSI registered and is accredited by UK National Weights and Measures.

Vishay PM Onboard's BinWeigh system can be used for commercial billing to customers, or as an accurate guide for city authorities keen to implement a tailored collection service in each district – the bin identification capability can also provide accurate data about which districts produce the heaviest domestic waste, or which are the most efficient at recycling and segregating waste materials at source.

This enables city authorities to target effort – or educational information – to those areas that need special attention, without wasting resources across a whole city. Equally, the data provided by BinWeigh technology can be helpful in deciding on the size and make-up of a new collection fleet as trends in specific waste densities can be plotted. BinWeigh is incorporated into the binlifter system, while the software is compatible with other fleet management systems and driver friendly in use.

Vishay PM Onboard also manufactures the truck underbody-mounted WasteWeigh system. This features the 1155 digital indicator with in-built self diagnostic capability. Key elements include packer-plate shutdown with key-switch control, thus preventing overload at either gross weight or on individual axles.

This UK-based company has also introduced Van Weigh for use on smaller trucks and vans in the 7.5-tonne gross weight sector and below.

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### They have lift-off

US-based Perkins Manufacturing specializes in the production of binlifters, with a range of Tuckaway