TERBERG TECHNIEK IS PART OF THE TERBERG GROUP AND SPECIALISES IN VEHICLE MODIFICATION, MINING VEHICLES, DRIVE SHAFTS, CONTAINER SYSTEM, REPAIRS AND SERVICING

Terberg Techniek has branches in IJsselstein, Baarlo and Hoogeveen.
At Terberg Techniek, we constantly ask ourselves: what do you need? What does it need to do and what is it for? We specialise in customer-focused vehicle modifications and solutions. Our top priority is listening to the customer. Our purpose is to provide objective advice. Our commitment is to be there around the clock and to ultimately deliver results.

We are determined to fulfill our mission by continuing to invest in engineering, improving business processes and optimising our expertise. Terberg Techniek has years of experience in assembling and modifying all types of standard and specialist vehicles. The expertise we have acquired is hugely important. Terberg Techniek also boasts an in-house engineering department, where seasoned engineers work with state-of-the-art 3D CAD software to fulfill our customers’ specific transport needs.

OUR PRODUCTS AND SERVICES
Terberg Techniek is a service and knowledge centre for transport equipment, with a particular focus on container and construction vehicles.

- Chassis modification
- Truck modification
  - Additional axles
  - Wide-spread conversion
  - X-Track (hydraulic wheel drive)
- Mining
- Truck mounted cranes
- Hook lift systems
- Cable systems
- Chain systems
- Adjustable underrun protection
- Straightening (damage repair)
- Re-alignment
- Drive shaft servicing
- APKs (legally-required periodic inspections)
- Premium servicing

SPECIALISTS IN CUSTOMER-FOCUSED VEHICLE MODIFICATIONS AND SOLUTIONS
Terberg Techniek has traditionally specialised in chassis lengthening and shortening. Where required, we modify powertrains, re-position air systems, hydraulics or electrics, and shift components as necessary. In addition, we can perform the following modifications: wide-spread installation of driven tandem axles, hydrostatically driven front axles (X-Track), the installation of an additional steered Volvo pusher or tag axle, and more.

**TERBERG TECHNIEK MODULAR AXLE CONFIGURATION SYSTEM**

One of our core products is the Terberg Techniek Modular Axle Configuration System (TTMAC), a conversion package to install an additional steered pusher and/or tag axle on Volvo trucks. The system provides electrohydraulic steering and allows the axles to be lifted. Thanks to its modular construction, a wide range of configurations are available.

The TTMAC range offers a choice of axles, in both pusher and tag types:

- Volvo 9 or 10-tonne, steered pusher axle
- Volvo 10-tonne, steered tag axle
- SISU 11.5-tonne driven, steered pusher axle

The Volvo axle is provided with lift function as standard. When the vehicle is loaded, the axle automatically lowers. An air dump function is available as an option to assist with traction. The steering system is controlled using Terberg software and a combination of Terberg and Volvo components. The steering geometry, based on the vehicle configuration, can be adjusted in the software, providing a high degree of freedom in positioning the axle on the vehicle. The axle is steered only when necessary, i.e. not when in the lifted position.

Finally, Terberg Techniek not only fits axles, but also helps to prepare the vehicle for a specific configuration, and ensures any approvals required are obtained for the modifications.

The construction, steering and wheel suspension are completely integrated into the vehicle. TTMAC is used across the world.

**WIDESPRREAD TANDEM AXLE ASSEMBLY**

Do you require higher load capacities whilst retaining the same number of axles? Terberg Techniek has the answer. We simply re-position the rear driven axle of a tandem axle. The axle spacing is extended from 1,370 to 1,820 mm and the rear axle is made steerable. With a wide-spread assembly, GVW can be increased by 4 tonnes, and comply with relevant legislation.

The following types are available:
- 6x4 T-ride: GVW increased from 29 to 33 tonnes
- 6x4 T-ride: GVW increased from 29 to 33 tonnes
- 6x6: GVW increased from 29 to 33 tonnes
- 8x6: GVW increased from 37 to 41 tonnes

Both tandem driven axle types have hydraulic suspension. Steering and height adjustment are controlled by the Terberg SBC (single-board computer). The automatic height adjustment ensures that the chassis is at driving height at vehicle speeds above 5 km/h.
Terberg X-Track provides increased drive-away traction and consists of a hydraulic wheel drive mounted on a standard Volvo front axle. The system provides front-wheel drive at speeds of up to 20 km/h. The system is designed for heavy-duty use and can be installed on new vehicles or retrofitted. The benefit of hydraulic wheel drive is enhanced grip on the road, while the cab remains easy to access.

Terberg X-Track is activated with a switch on the dashboard and automatically disengages at speeds above 20 km/h. The system is driven by the engine PTO. X-Track can also be fitted on almost all axle configurations, in combination with Volvo’s I-shift, Volvo Powertronic or manual transmission. X-Track can be used with leaf and air suspension systems, and disc and drum brakes. The original braking system and steering geometry are not affected.
TERBERG TECHNIEK OFFERS UNIQUE VEHICLES FOR THE MINING INDUSTRY, BASED ON VOLVO FMX AND FH TRUCKS. WITH A GCW OF UP TO 175 TONNES AND A GVW OF 100 TONNES, THESE TRUCKS ARE UTILISED ALL OVER THE WORLD.
CABLE SYSTEMS  
Terberg Techniek’s cable systems can be used on any type of vehicle. The system features a sophisticated freewheel and low-maintenance hydraulic steering, making it indispensable for container handling operations.

Benefits include:
• Low height increase
• Ultra low empty weight
• Easy container transfer to trailer
• High tonnages
• Long load length
• Fully meets the Machinery Directive and is CE-marked

SERVICE AND MAINTENANCE

STRAIGHTENING AND ALIGNMENT
Terberg Techniek’s branches in IJsselstein, Hoogeveen and Baarlo are fully equipped to straighten and align truck chassis, trailers and semi-trailers. State-of-the-art equipment is combined with traditional craftsmanship. Terberg Techniek uses Bee-Line and Josam equipment and specialises in straightening truck, trailer and semi-trailer chassis and other structures.

For straightening we use hydraulic cylinders that exert up to 60 tonnes of pressure on the chassis. We also use an induction unit, which heats the steel and aluminium locally for a few seconds. This makes the straightening process more efficient, whilst retaining the strength of the chassis.

Once a chassis has been straightened, the vehicle is aligned. Terberg Techniek employs Truckaligner 2 aligning equipment. Alignment essential following damage repair. Additionally, carrying out annual inspections and aligning when necessary saves fuel and prevents unnecessary tyre wear.

DRIVE SHAFTS
Terberg Techniek has a highly skilled balancing department. This department represents a true jewel in the crown and has become the premier place to have your drive shaft lengthened, shortened, inspected, and of course balanced.
The law currently stipulates that a container may not protrude more than 600 mm over the underrun protection. Terberg Techniek has developed an adjustable underrun protection (with electrical, mechanical or hydraulic drive) with a maximum extension of 850 mm. These underrun guards are officially approved by the European Union.

Our branches in Baarlo and Hoogeveen provide maintenance and APKs (legally required periodic inspections) for commercial vehicles and trailers of any manufacturer. Our Hoogeveen location is also an official service dealer of Renault Trucks. With highly trained professionals and an extremely well-equipped workshop, we will be sure to keep you on the road. Our branches have extended opening hours. We are also able to provide courtesy vehicles.

INSPECTIONS:
• APK
• STEK
• ADReM
• Tail lifts

DEALERSHIPS
• VDL container systems
• Brofill cab filtration systems
• Klopstoeckle transport cooling
• AMCO Veba truck loader cranes

MAINTENANCE

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