Your specialist for ROAD-RAIL VEHICLES

...we move ideas on track!
Hilton manufactures state of the art special vehicles based on the renowned Schörling technology on all chassis types depending on our customer’s preference. Our company is looking back on a long tradition and experience, which started in 1920 with the first Schörling rail cleaning vehicles. Over the years the product range has been extended with overhead line mounting vehicles, rail lubrication and grinding vehicles as well as tunnel rescue vehicles. In 2009 Schörling Brock was acquired by the Hilton group, which is now continuing the tradition and production of the famous Schörling road rail vehicles under the new company name Hilton Kommunal GmbH. Through this acquisition and the synergy effects within the Hilton group, Hilton is one of the market leaders for road-rail vehicles worldwide.

Our vehicles are build on chassis of renowned manufacturers such as Mercedes-Benz, MAN, Volvo, Iveco, Scania, etc. On this basis, we manufacture special superstructures and rail drive units, which are highly customized and individually tailored to ensure that each vehicle perfectly fulfils our customer’s requirements. In our production we use exclusively components of carefully selected and well known suppliers to guarantee the high quality level of our vehicles. The exceptional quality of our catenary vehicles, rail cleaning vehicles, rescue vehicles and our wide range of different rail drive units, is proven by the many customer references around the world who trust in our products and services.

The production of the road rail vehicles is executed from the early development phase until the final delivery by highly experienced professionals. In our production facilities in Gehrden (Germany) and Maastricht (the Netherlands), we manufacture from prototypes up to serial production of our standard vehicles, with state of the art manufacturing and testing machines according the lean production principle. The combination of modern production facilities and the extensive experience of our employees guarantee that our customers receive the most reliable and functional vehicles for their daily work on the track.
Hilton develops and builds what you need for your track maintenance and installation work. Individually customized vehicles for maintenance and installation of railway tracks, for tramlines, narrow gauge mountain railways or light rail city connections around the world. For each application, we offer the right vehicle tailored to the specific operational use. Thanks to our long experience, we understand our customer's requirements in detail and are able to deliver highly customized vehicles which offer maximum reliability at the same time. Due to our modular production method, we are able to configure your vehicle in no time according to your requirements. With hydrostatic or friction drive rail units, different cleaning aggregates, a wide range of platforms, self loading drum carriers, several crew cab and workshop options and many other modules, we offer a large pool of well approved standard modules which we use to design your vehicle. With numerous patents pending, we constantly develop new innovative solutions to further improve our products.

In order to comply with our high quality standards, we set up a quality management system which is approved according to DIN EN ISO 9001:2008. Additional certifications such as the welding certificate according to DIN EN ISO 3834-2 and DIN EN 15085-2 underline the high quality standard of our production.

Our service does not end with the delivery of our vehicles. From general maintenance and repairs up to modernization and complete refurbishing of your old Schörling vehicles, our service team is available for you 24 hours per day and 7 days per week. Our service team consists of 10 service technicians who are all fluent in English and who know each detail of the delivered vehicles. In our central warehouse in Gehrdan (Germany) we keep a constant stock of all wear and tear parts for all new as well as the old Schörling vehicles, so that most spare parts can be delivered within 24 hours. At the delivery of new vehicles, our service team also provides extensive training to the vehicle operators to ensure the correct handling of our machines. Besides we also arrange regular training and workshops for the technicians of our customers about trouble shooting and preventive maintenance. All together we offer a first class after sales service during the entire life time of our vehicles, which results in maximum reliability for all our products.
Overhead Line Mounting Vehicles

For the installation, inspection and maintenance of overhead lines, Hilton manufactures special vehicles with different superstructures and equipment based on the application field of the vehicle. Telescopic, articulated or scissor platforms, large workshop cabinets or equipment lockers… all kind of variations are possible.

Our modular production system includes a wide range of different platforms, different sizes of workshop cabinets, loading cranes, pantograph measuring devices, self loading drum carriers or interchangeable frames… the options are endless. Combinations of telescopic platforms and scissor platforms on the same vehicle are also possible. For tram and light rail vehicles we also offer GRP (=glass fibre reinforced polyester) driver cabins, workshop cabinets and equipment lockers which are 100% corrosion free and delivered with 10 years guarantee. Even 100% insulated GRP platforms are possible.

Additional equipment such as work benches, shelves, cupboards, additional seats and even insulated staff rooms with microwave and fridge can be included.

Our special hydraulic leveling system keeps the platform always in horizontal position, even in situations with an extreme rail cant, which guarantees maximum safety.

For railway overhead line work, we also offer the “OMF special 3T long” platform with increased reach and working heights above 14m, which facilitates maintenance work at the top of catenary bars. On standard gauges all our platforms can be operated without outriggers, so that the traffic on the opposite track lane is not disturbed. Even for larger vehicles above 18t a standard railroad crossing provides sufficient space to place our vehicles on the rail due to the rotatable bogies at the rear side.
Based on the renowned Schörling technology, Hilton manufactures a wide range of different cleaning aggregates for rail cleaning, groove cleaning, gravel surface and point cleaning.

To clean the grooves of tram networks for example, we install scrapers, rotating groove brushes and a 1000 bar high pressure cleaning unit on our rail cleaning vehicles. The working area under the vehicle is always well protected to avoid water spray and noise in the surrounding area of the vehicle. With the wide range of specific cleaning units we are always able to combine the most efficient technologies for your special requirements.

All cleaning modules can be mounted as compact unit between the axles of the chassis. The combination of the groove cleaning unit with a surface suction unit allows to clean the entire track including the road bed. Special nozzles cause an air stream on the upper track bed, which resolves all dirt out of the gravel surface. All bigger dirt particles are absorbed but the gravel remains on the track bed. Thanks to the use of our new larger filters, the exhaust air is extremely clean which minimizes the discharged dust.
Hilton Kommunal is your specialist for road-rail rescue vehicles. These vehicles are used in case of emergency to transport the rerailing equipment and the rescue team and also for tunnel fire fighting. Hilton delivers custom made solutions which are designed for your individual rescue scenarios. We provide innovative equipment storage solutions which ensure ergonomic and safe handling of the rescue equipment. From a small Unimog with crewcab and box body up to modular vehicles with special railway hooklift systems, we deliver the complete range of road rail rescue vehicles. Besides the vehicles can be equipped with many options like loading cranes, hydraulic winches, liftgates, welding gerators and many others.

When you need the greatest safety you can get, there’s no room for compromise. In case of emergency every helper and every response team has to count on their equipment. That’s why we do everything we can to make sure each individual product bearing our name is excellent, without compromise. From development, materials and manufacturing all the way to the smallest details in finishing. With Hilton tunnel fire fighting vehicles you can bring your team fast and safe to the scene of fire. This guarantees rapid response time and maximum safety for tunnel operations.

Also for tunnel fire fighting we can offer innovative vehicles. The combination of Hilton road rail technology and the close cooperation with leading fire fighting equipment manufacturers results in highly effient tunnel fire engines.
We offer the right road-rail vehicle for every job. Based on the Mercedes-Benz Unimog chassis, we can offer all kind of solutions through the combination of our rail guidance systems and various Unimog equipment.

**Shunting vehicles with towing capacity up to 1000 t**
The Unimog is the ideal shunting vehicle for towing load up to 1000 t. A special wagon brake system provides fast and safe braking of the wagons. The vehicle can be connected with the Unimog via different coupling systems. The coupling systems are available with standard mechanical tow bars up to automatic systems with dampers and lifting equipment. Besides the vehicle can be configured with various options such as remote control, signalling systems, camera systems, etc.

**Multipurpose vehicles**
The Unimog can be used for many different applications. Hilton Kommunal offers winter service vehicles, track construction and maintenance vehicles, catenary vehicles and rescue vehicles. For each application we develop the right Unimog solution.
Drainage Vehicles

Hilton Kommunal delivers special road rail drainage vehicles in cooperation with leading manufacturers of drainage modules. The vehicles are able to perform flushing and vacuuming work simultaneously on track. The vehicles will are deployed to clear leaves and other materials from trackside catch pits which are used to ensure large volumes of rainwater can quickly run off the track to prevent flooding above the rail head.

Flushing
A high-pressure water hose with a sewer flushing nozzle is fed into the soiled sewer. The high-pressure water jet dislodges the dirt and flushes it to the gully hole. At the same time, the water jet pushes the hose further into the sewer.

Vacuuming
The material flushed into the gully hole is extracted by means of a vacuum system. Solids and water are thus conveyed by the suction hose into the sludge tank.

Rail drive system
The rail drive system is of key importance for these heavy vehicles, in order to realize a balanced weight distribution, maximum traction and short brake distances on track. Thanks to our long term cooperation with leading manufacturers of drainage modules, we have gained a lot of experience in this special application and are able to provide the best possible rail drive system to get your drainage vehicles on track.
Hilton manufactures rail drive units for all types of vehicles. From simple trailers up to heavy trucks with 4 axles, we offer a wide range of rail drive units which have been approved by the German railways and many other railway companies around the world.

Our rail drive units can be mounted on all chassis of renowned manufacturers such as Mercedes-Benz, MAN, Volvo, Iveco, Scania, etc. For 18 t vehicles we offer a trolley between the axles of the chassis with hydrostatic or friction drive as well as a system with 2 separate linkage axles behind the axles of the chassis. Besides a combination with a bogie on the rear side is also possible. The hydrostatic drive works with individual wheel actuation through internal gearing and hydro-motors with ABS and ASR on each wheel. The friction drive system presses down the rear axle of the chassis with pneumatical cylinders, which enables the traction of the chassis on the rail through the rubber tires which drive the guidance trolley.

For vehicles up to 50t, we offer a solution with 2 bogies. The bogie on the rear side can be manually rotated 2x90°, so that the vehicle can be easily placed on the rail even on short railroad crossings. All rail drive units adapt on the curve radius, so that it is possible to drive the smallest curve radius. Most rail drive units are mounted on overhead line or rail cleaning vehicles, but we also manufacture special rail drive units for bridge inspection vehicles, fire fighting vehicles and excavators, for example. For each vehicle type we can deliver the ideal rail drive unit for railway or tram operation on different gauges. Even systems with variable gauge through hydraulic or manual adjustment are possible.

**Overview of the Hilton Rail Drive Units (Schörling System)**

- Friction drive trolley (18t)
- Hydrostatic drive trolley (18t)
- 2 linkage rail drive axles (18t)
- Linkage/bogie combination (18t)
- Bogie/bogie combination (up to 50t)
Our service offers:

- 24 hours on-site service 7 days per week
- 24 hours spare parts service for all common spare parts worldwide
- Maintenance, repair and overhaul
- Isolation measurement for catenary vehicles
- Stability tests, brake tests, etc.

Besides our own service team, we have a large service network around the world in cooperation with our local dealers. The technical staff of our local dealers is regularly trained and certified by Hilton in order to guarantee fast and excellent local service for your vehicles on-site.

Vehicle approval and certification

The approval and certification of each vehicle is of fundamental importance in all our projects. Every project is managed by our internal approval and certification division from the first day. This ensures that our vehicles fulfil all local requirements to be approved by the local tram, railway or metro authorities. Thanks to our long export experience, we already have certificates for our vehicles in most countries around the world. This helps us to approve and certify new vehicles in the shortest possible time after delivery. All our engineering designs are made with modern software like Autocad Inventor 3D and Ansys for finite element analysis. This guarantees perfection in every little detail from the very beginning of each project.

Besides our ISO9001:2008 quality management system, all our welding activities are certified according EN ISO 3834-2 and EN 15085-2. All our vehicles are build according the European standard for road-rail vehicles EN 15746. The control systems of our aerial platforms and rail drive systems are certified according EN 13849 with safety level Pl D. With these control systems Hilton road-rail vehicles offer the most advanced and safe control systems on the market.

Our vehicle service to you

Year after year new vehicles leave our plants to do their duty around the world in the tough everyday routin. Their assignments involve the utmost in responsibility; they always have to provide a maximum of reliability and safety, even under extreme conditions. We're committed to this responsibility as long as our vehicles are at work for you. Our customer service is your primary contact for advice, guidance and support. Our specialists take over all the tasks that are necessary for ongoing operations. Our responsibility doesn't end with the sale. We see ourselves as partners of our customers. And that's why we're here for you the same way you have to be ready for action: 24 hours a day, 365 days a year.
We manufacture our vehicles based on your individual requirements with a combination of different modules in order to deliver a vehicle which is customized to your special application. Different rail drive units and a wide range of different superstructures are possible for all our road rail vehicles.

Please call us for more information.