



IFAT 2014 MAN stand showcases best application-specific solutions for vehicles for municipal use

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Five specialised vehicles in new Euro 6 version

At IFAT 2014, the world's leading trade fair for the water, sewage, waste, and raw material industry, MAN will present a wide range of practical solutions from May 5–9, 2014, in Munich. These will be compliant with the applicable Euro 6 emission standard, which has been in force since the beginning of 2014. For special tasks in waste disposal, road maintenance, and winter road maintenance, municipalities and contractors need reliable and economical vehicles. To achieve this, bodies specific to the industry as well as attachment devices and MAN's chassis have to work closely together. MAN offers customised chassis with environmentally-friendly drive technologies.

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Efficiency in operation and vehicle maintenance begins for the entrepreneur and operator with the choice of tailor-made vehicle/body combinations: It offers an extensive program of 7.49–44 tons in the TGL, TGM, TGS, and TGX truck series. For markets outside Europe, mainly in Asia and Africa, MAN's sturdy chassis ranges TGS WW and CLA come into play.

MAN TGM HydroHybrid

One of the highlights at the MAN stand is a three-axle MAN TGM with hydraulic hybrid drive system. The system is known as hydrostatic regenerative braking (HRB), and is especially suitable for refuse collection vehicles due to the more frequent braking and pull-away on their routes. Based on several years of experience, the hybrid system has been developed and optimised for ease of use. The result is an environmentally-friendly drive concept, which, in addition to fuel economy, contributes to a considerable reduction in brake wear. In field trials, operators reported an increase in efficiency of around 15 percent.

The other four exhibits stand out for their good body-mounting ability, a feature for which MAN has long been renowned. MAN has solved the challenge of the increase in space taken up by the exhaust cleaning system

MAN Group is a leading European industrial player in the transport engineering sector, generating annual revenue of some € 15.7 bn (2013). MAN is a supplier of trucks, buses, diesel engines, turbo-machinery and special transmissions and has around 53,500 employees worldwide. MAN business units all figure amongst the leaders in their given markets.



needed for Euro 6 in such a way that no restrictions are placed on body manufacturers and users of municipal vehicles. In addition, manufacturers can also fit side attachments on the chassis frame – for example, for a side-loader refuse collection vehicle or a winter service vehicle with side-mounted snow plough. Frames largely free of mounted units can also be secured directly from the manufacturer, e.g. for a sweeper. The same applies to the clearance required by sweepers beneath and to the sides of the chassis frame.

MAN TGM now in Euro 6

One of the exhibits at the MAN stand will be the MAN TGM 18.290 sweeper chassis. The right-hand drive version with an industry-specific C cab runs on the larger 22.5-inch tyres in order to offer ground clearance for accessories, such as sweeper brushes and vacuum chutes on and under the frame. New features include the modified position of the Euro 6 exhaust gas components behind the cab (the so-called Euro 6 sweeper package), and the MAN TipMatic automated gearbox combined with hydrostatic drive.

The hydraulic system is powered via a geared auxiliary drive. It supplies the functions of the body with energy. The oil motor integrated into the drive train also moves the vehicle and thus ensures very low speeds for special sweeping actions of 0.9 km/hour.

The MAN TGS as a side loader for refuse collection duty

The vehicle MAN TGS 26,360 to be presented at IFAT 2014 is designed for efficient work flow in waste disposal. The right-hand drive, three-axle air-sprung chassis is prepared for attachment of a side loader. In this collection system, the tipping device with its hydraulic arms for lifting the container is located on the right-hand installation space at the side of the chassis. This means that components which would normally be fitted in that area when using a standard chassis with Euro 6 exhaust system, have to be moved elsewhere. In close cooperation between MAN and body manufacturers, a solution was found that allows for the space that the tipping requires.

The collection round with side loaders also requires many stops and go's in a very short distance. This challenge triggers a new shift pattern of the automated gearbox MAN TipMatic, the so-called side loader TipMatic. This software application allows for short response times for many start-up and



manoeuvring procedures from dustbin to dustbin in combination with the control of the side boom.

The MAN TGS: a versatile winter service vehicle

The MAN TGS 28.400 BL 6x4-4 is the first choice for many road maintenance departments based on its manoeuvrability and versatility, which make it suitable for year-round deployment. The MAN TGS for winter motorway maintenance are often ordered with an additional attachment plate for a side-mounted snow plough, enabling them to rapidly clear wide areas of carriageway. MAN has fitted the components of the Euro 6 exhaust cleaning system, which usually go on the right-hand frame, in such a way that the renowned body-mounting ability is retained, including the capacity to attach a side snow plough.

The vehicle features a steered and lifting trailing axle with a carrying capacity of nine tons, offered ex-factory by MAN. This gives it all the manoeuvrability of a two-axle vehicle with the payload of a three-axle vehicle. With drive to the front axle and first rear axle, maximum traction is generated for working with the snow plough.

The MAN TGM – a manoeuvrable and versatile all-wheel-drive chassis

MAN will be exhibiting a TGM 13.250 4x4 BL at its IFAT stand. The vehicle scores highly for its compact dimensions, thanks to the short 3.05-metre wheelbase, and resulting excellent manoeuvrability in narrow residential streets full of parked cars.

With its three-way tipper body, the vehicle is suitable for a wide range of year-round applications within the municipality, including road maintenance. For winter service applications, the vehicle has a hydraulic system that facilitates the operation of a spreader mounted on the load platform or a front-mounted snow plough. The equipment range is made complete by the ex-factory front mounting plate, high-mounted winter service lights and other fittings designed to support winter service applications.

A speciality of the MAN TGM series with a gross vehicle weight of 13 to 15 tonnes is the rear axle air suspension, which comes as standard. This gives the load maximum protection against jarring, reduces load height and enables vehicle height to be maintained independently of load weight, ensuring that the spread pattern remains constant throughout use.