



## **MAN at IAA 2016**

### **Ten buses, four drive systems, five areas of application**

**MAN Truck & Bus is presenting a wide-ranging portfolio of its city buses, intercity buses and long-distance coaches at its stand as well as in the outside show areas.**

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**MAN Truck & Bus**  
Dachauer Straße 667  
D-80995 Munich

- **Alternative drive units for city buses including the eMobility modular concept vehicle**
- **The world debut of the new NEOPLAN Tourliner**
- **Coaches for long-distance routes, excursions and tourist travel**
- **New Multi Media Coach (MMC) infotainment system for coaches**
- **Intercity bus with optimised seating layout for transporting school children**
- **Individually designed club buses from the MAN Bus Modification Centre**

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One of the most interesting innovations on show at the MAN Truck & Bus exhibition stand is in the field of city buses: an all-electric MAN Lion's City articulated bus, presented as a modular concept vehicle along with the associated charging technology. MAN is using these exhibits on view in the innovation area of the exhibition stand both to demonstrate how the different charging systems, namely rapid charging via an automatic interface (pantograph) and recharging via the CCS interface, can be integrated into one vehicle, and to provide an overview of the various energy storage possibilities. MAN is adopting a modular approach, whereby both the charging technologies and the number of energy storage modules can be selected and combined as needed, depending on the required range and transport capacity. Alongside the battery modules currently installed in the bus, therefore, there is also a fuel cell on show as a potential solution. This approach, whereby electric vehicles can be tailor-

MAN Truck & Bus is one of Europe's leading manufacturers of commercial vehicles and supplier of transport solutions, with revenues of approximately €9 billion a year (2015). The product portfolio includes trucks, buses and diesel engines, as well as services related to passenger and cargo transport. A subsidiary of Volkswagen Truck & Bus GmbH, MAN Truck & Bus employs more than 35,500 people worldwide.



made from modules to meet the specific needs of the operator, is referred to at MAN as eModularity.

In accordance with its eMobility-Roadmap, MAN is scheduled to start field trials with pre-production vehicles in 2018. Series production of battery-electric buses will commence at the end of 2019.

### **The current City Bus portfolio**

MAN already provides efficient solutions for public transportation today. The current generation of MAN Lion's City city buses has been continuously product-optimised to reduce fuel consumption. One of the components contributing to this is the new radiator flap. Examples on show at the exhibition stand include a MAN Lion's City L LE and a MAN Lion's City CNG. Both vehicles are equipped with three doors from the new MAN door portfolio. These inward and outward swinging doors and the swing/sliding doors have been developed in-house and are noted for their very robust design and fast, smooth operation.

Working away at the heart of the MAN Lion's City L LE is the new D2066 LUH engine with optimised driveline and an output of 320 HP (235 kW). The three-axle vehicle is 14,705 mm long and provides space for up to 128 passengers, 49 of whom are seated. As almost all MAN Lion's City models can run on biodiesel and, from January or April 2017, also on HVO (hydrotreated vegetable oil), MAN can now provide a full product range with alternative drive systems alongside the tried-and-tested Lion's City Hybrid.

Offering the prospect of CO<sub>2</sub>-neutral operation is the MAN Lion's City CNG whose E2876 LUH engine can also be operated with biogas. From a displacement of 12,816 cc, it generates 310 HP (228 kW). The gas cylinder can hold 1,260 litres of CNG, natural gas or biogas. One special feature of the vehicle on show at the exhibition is the LED step edge lighting on all doors. Among the systems providing additional safety are ESP and the EBS electronic brake system with ASR and ABS.

Also on view in the external show area at the IAA are a MAN Lion's City Low-Entry CNG bus and a 23-metre bus/trailer combination for intelligent coverage of capacity peaks.

### **Coaches for every application**

The new NEOPLAN Tourliner is making its world debut at the MAN stand. The latest member of the NEOPLAN family is a true all-rounder and creates the opportunity to break into the premium segment. Its 44-person seating capacity makes it ideal for long-distance coach travel and excursions, as



well as for high-end travel operations. In addition to the 12,113 mm long version on show here, the vehicle is available in three further lengths.

Providing the necessary power is the 420 HP (309 kW) D 2676 LOH engine which is combined with the TipMatic 12-speed automated gearbox. As with all NEOPLAN buses, a full range of assistance systems is available, including the electronic stability program (ESP), the lane guard system LGS, the emergency brake assistant EBA, a rain/light sensor, tyre pressure monitoring for all axles, MAN Adaptive Cruise Control (ACC) and the new generation of the MAN EfficientCruise anticipatory cruise control with EfficientRoll freewheel feature.

No less well-equipped are the MAN Lion's Coach and the NEOPLAN Skyliner which are on show at the IAA 2016 in their long-distance configurations. Among the features on view are a lifting platform on the MAN Lion's Coach and a folding ramp on the 2nd door of the NEOPLAN Skyliner, as well as a facility for moving seating quickly and easily to provide space for up to two wheelchairs. The seats remain inside the bus, and only a few manual movements are required to move them, meaning it can be done en route without overtaxing the driver. The new passenger seats in the MAN Lion's Coach are equipped with adjustable headrests which provide even more comfort on long-distance journeys. The buses are also equipped with extra large fresh-water and sewage tanks to meet the demands for extended utilisation on long-distance journeys.

The new Multi Media Coach Advanced infotainment system is also available in both vehicles. Amongst other functions, it allows two mobile phones to be connected simultaneously via Bluetooth. Voice control in up to eight languages will also be implemented for MMC Advanced in the future. The navigation system can also be easily viewed on the seven-inch display. One new feature is that the system can now suggest new routes based on the current traffic situation. The NEOPLAN Cityliner and NEOPLAN Skyliner will be equipped with the new MMC Advanced for units delivered from the beginning of 2017. The MAN Lion's Intercity will then follow on in early summer 2017, followed by the MAN Lion's Coach.

Another innovation on show is the MAN Lion's Intercity C. This seating-optimised variant with a new length of 13,250 mm can accommodate up to 63 seated passengers. This therefore makes this two-axle vehicle perfect for transporting school children and for intercity travel. The vehicle on the stand at the exhibition has a D0836 engine with an output of 290 HP (213 kW). To meet requirements for intercity travel, the vehicle displayed has been equipped with stop-request buttons, a payment counter and destination display. The MAN Lion's Intercity is noted for its above-average



level of comfort and safety and already complies with the ECE R66.02 rollover regulation, for example. In addition, the bus on display is equipped with numerous assistance systems such as the emergency brake assistant EBA, adaptive cruise control ACC, and the lane guard system LGS.

The exhibited NEOPLAN Cityliner is a perfect example of the range of services which the MAN Bus Modification Centre can provide. Located in Plauen, the Centre's multi-disciplinary team of specialists has been creating individual designs to customer specifications since May 2015. There are no limits to the possibilities available. The 420 HP two-axle vehicle displayed at the exhibition stand resembles a "rolling concert auditorium" with 1000-watt loudspeakers and a comfortable lounge in the rear of the vehicle which accommodates up to eight people. The coloured LED interior lighting guarantees a perfect ambience. In addition there is a fully equipped individual kitchen, two electrically retractable back-to-back tables equipped with 230 V sockets, an infotainment system with video-on-demand and local entertainment content and a glass skylight.