



PRESS RELEASE

InnoTrans 2014 - Solaris Urbino 18 electric

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First fully electric articulated Solaris bus. Visit the Solaris Urbino 18 electric in the outdoor display on stand number FB/10 (next to the South Entrance). Four articulated Urbino electric to start running in Braunschweig this year.

Solaris benefits from substantial experience in producing electric buses and from supporting their operation. This unique knowledge and practice has allowed the company to develop this range of vehicles. By presenting the Urbino 18 electric Solaris continues this technologically challenging path which company embarked upon in 2011 with production of its first electric vehicle.

The configuration of the drive technology of electric Solaris buses, their batteries and charging equipment may be exactly matched to their operators' requirements. Solaris engineers are designing vehicles according to the demands and the routes the Urbino electric will be used on. They choose the right technology: adequate length of the bus, motor power rating, capacity of batteries and charging system can all be specified. The result is an Urbino electric that is perfectly suited to the expectations of its operator, adjusted to its route profile and offers huge operational possibilities.

One bus tailored to customers' requirements in this way is the Solaris Urbino 18 electric presented at InnoTrans 2014. It is one of four articulated Solaris buses that will go to Braunschweiger Verkehrs-GmbH right after the exhibition. This 18-metre bus is fitted with 90 kWh batteries. The wireless Primove fast charging system allowed Solaris to equip the buses with relatively small batteries, mounted on the roof above the rear axle. The buses have no typical engine tower which helps to save space and offer more than 50 seats.

At the heart of the drive system of the Urbino electric are a 240 kW traction motor and Bombardier inductive charging system. Under the floor there is a device that picks up wireless charging energy from inductive chargers fitted in specially designed bus stop infrastructure. A few minutes are enough to top up the batteries and continue the journey freely.

The four Solaris Urbino 18 electric for Braunschweig will be put into regular service on route M19. The vehicles will appear in Braunschweig as part of the "emil" project. It is an acronym for the German words for "Electromobility through inductive charging". The aim of the project is to popularize widespread use of electric vehicles with inductive charging systems.

In the long term, it is hard to imagine a better solution for public transport than noiseless articulated electric buses, vehicles that need several times less energy than their equivalents powered by diesel engine.

The Braunschweig contract for the delivery of electric articulated buses is not the only one concluded by Solaris. Hamburg will soon see electric vehicles in service. Two Urbino 18.75 electric are ready to be handed over to operator Hamburger Hochbahn. With them, Solaris adds a new innovative solution to its product range. The vehicles for Hamburg will be equipped with a 120 kWh battery and will use Ballard 101 kW fuel cells as a range extender. The fuel cells will be used only when 100% of stored energy is required which will significantly increase their durability. The batteries will remain the main energy provider to the drive system and will be charged by the fuel cells during operation.

It will make the electric bus similarly efficient to diesel buses. Battery charging cycles will be preprogrammed. The bus will be fuelled with hydrogen once a day in the depot. It will be ready to cover 300 km per day. By 2020 Hamburger Hochbahn is going to replace its diesel buses with eco-friendly vehicles.

Solaris consistently meets its target to grow the share of electric buses among the all buses sold. This is primarily thanks to contracts on the German market. Solaris will deliver four inductively-charged Urbino 12 electric to the BVG of Berlin. The version with a quick charging system with a pantograph mounted on the roof found its first buyer. This Solaris Urbino 12 electric was purchased by Dresdner Verkehrsbetriebe AG. Electric buses will appear also soon in Düsseldorf and in the Swedish town of Västerås.

Additional information:

Solaris Bus & Coach is a major European producer of city, intercity and special-purpose buses as well as low-floor trams. Since the start of production in 1996, over 11 000 vehicles have already left the factory in Bolechowo near Poznań. They are running in 28 countries. Despite its young age, Solaris has become one of the trendsetting companies in its industry. For many years it has been the indisputable leader among the suppliers of city buses in Poland as well as one of the largest suppliers of city buses in Germany.

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About our company

Solaris Bus & Coach sp. z o.o. is a leading producer of city and intercity buses in Europe. It focuses on the development of low-emission and zero-emission vehicles, i. e. electric and hydrogen buses as well as trolleybuses. Over 25,000 Solaris vehicles have been delivered so far and they ply the streets in 850 towns and cities across 33 countries located throughout Europe as well as beyond it. Solaris is part of the Spanish CAF Group (Construcciones y Auxiliar de Ferrocarriles) S.A. From conception, to the design and manufacturing phases, all Solaris buses are produced in Poland. All activities undertaken by the company are in line with its mission, which is reflected in the brand's promise: to change the image of public transport. Solaris also actively partners with public transport operators and provides them with comprehensive support in their transition to zero-emission mobility. Solaris products have been repeatedly awarded for quality and innovation. The Urbino 18 hydrogen bus has won the prestigious 'Bus of the Year 2025' title.