In January 2018, a consortium of Stadler Polska and Solaris Bus & Coach signed a contract with MPK Cracow for the supply of 35 trams (with an option for another 15 vehicles) for the city of Cracow. Low-floor trams with a length of 33.4 meters are equipped with air condition, monitoring, LED interior lighting and a modern passenger information system. Vehicles have platforms that facilitate boarding and getting out to wheelchair users. For the users of phones and smartphones, USB ports have been installed allow mobile devices to be loaded. Trams have a wider than usual door - 1.4 m, which allows faster exchange of passengers. The special design of the bogie frame ensures reduced wheel and track wear, and reduces the vibrations emitted during the journey, which affects the comfort of traveling. Each vehicle is equipped with energy absorbers that minimize the effects of collisions with other vehicles. Trams are environmentally friendly. Implemented recuperation system enables the use of energy generated for example during braking. An ergonomic cabin and a comfortable armchair in turn provide comfortable working conditions for the tram drivers.
Vehicle data

Customer MPK Kraków S.A.
Operated networks City of Kraków
Gauge 1435 mm
Designation Urban transport
Supply voltage 600 V DC
Number of vehicles 35 with additional option of 15 units
Delivery 2020
Seats 82 + 1
Standing spaces up to 139

Floor height
- Low-floor Entry at 300mm 370 mm, up to 480 mm with max slope 4.4%
- High-floor 590 mm

Entrance width 1400 mm
Longitudinal force 400 kN
Length over coupling 33400 mm
Vehicle width 2400 mm
Vehicle height 3800 mm

Bogie wheelbase
- Motor bogie 1800 mm
- Trailer bogie 1800 mm

Driving wheel diameter, new 600/520 mm (new/worn)
Carrying wheel diameter, new 600/520 mm (new/worn)
Continuous power at wheel 420 kW
Max. power at wheel 675 kW
Starting tractive effort 78,4 kN
Starting acceleration, gross 1,1 m/s² (at speed range 0-30 km/h with fully loaded vehicle)
Maximum speed 70 km/h

Technical features

Technology
- Catenary free power system which allows to run a distance of 3 km without external supply
- All bogies fully rotated with flexible frame
- All bogies are equipped with classical axles
- All lights in LED technology

Comfort
- Ergonomically designed driver’s cab
- 82 passengers’ seats
- Double door opening width 1400 mm
- All equipment for passengers’ compartment ergonomically located
- Driver’s cab and each car equipped with individual HVAC system

Personnel
- Equipped with special external audio system (two vehicles)
- Passengers’ compartment equipped with 230V and USB sockets
- Lightning stripes on hand-rails and interior steps

Reliability/Availability/Maintainability/Safety
- Front shape designed to minimize pedestrian injury
- Equipped with crash system to minimize collision effects
- Easy access to all devices for maintenance activities