



Trollino

Trollino



Power of Enthusiasm



Trolleybus alternative choice

A clean and quiet city is the dream of many of its inhabitants. Urban authorities aim to reduce emissions of noise and exhaust gases to ensure better living conditions for their residents. In taking care of the environment, which significantly influences the quality of life, cities re-introduce trolleybuses as a proven solution.

With its low-floor Trollino in 12, 15 and 18 meter versions, Solaris fulfils the vision of a friendly city. These vehicles, powered with electricity, offer a higher comfort than traditional city buses, ensuring a quiet, clean and friendly urban environment. It has to be noted that the 15 meter Solaris trolleybus was the first vehicle of that type in the world.



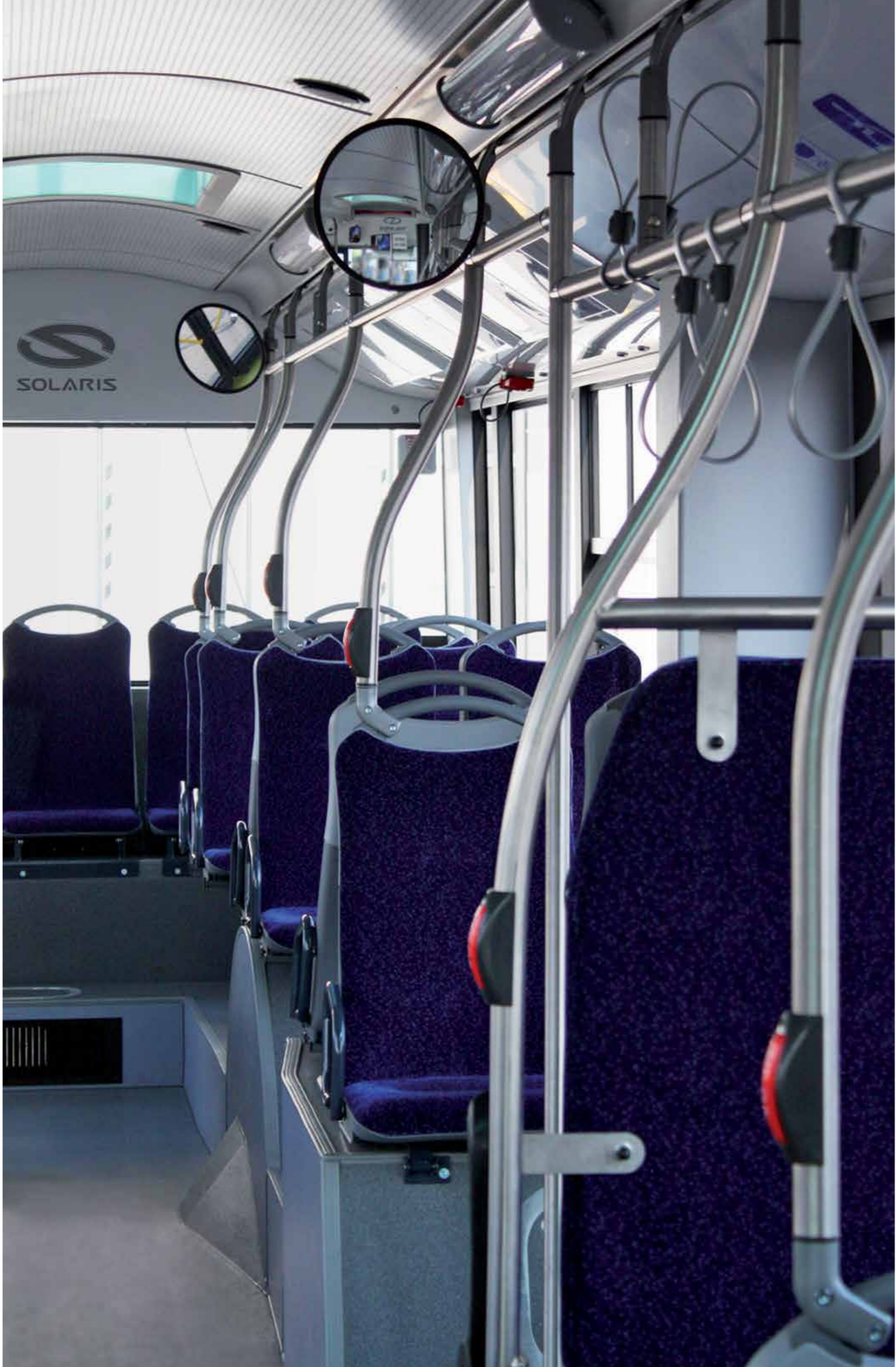


Quiet, durable and eco-friendly

The Trollino design is based on the solutions used in vehicles of the Urbino family, which is highly appreciated by passengers and transport companies. The bodyframe made of corrosion-resistant steel along with highly durable structure ensure exceptional strength and a long service life of this trolleybus. Compared with a traditional combustion engines, the electric drive emits 10-15 dB less noise. Solaris Trollino trolleybuses are equipped with modern, dynamic and reliable traction motors reaching up to 250 kW.

Additional equipment of Solaris Trollino trolleybuses may include diesel generator – enabling the trolleybus to operate without connecting it to overhead lines or energy storage system – allowing the trolleybus to operate on short distances without external power supply, for example, the route between the depot and the beginning of electric traction.



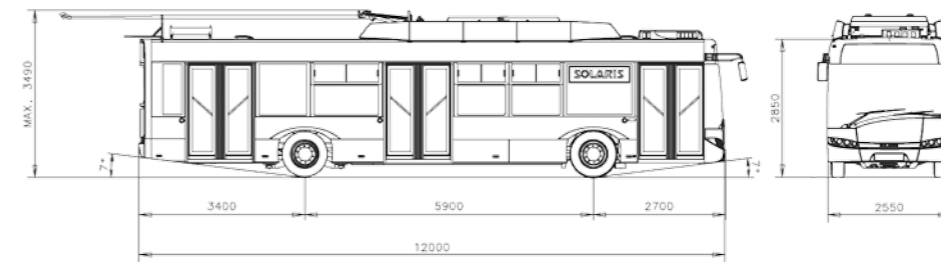


User-friendly space

Comfort, functionality and quality are the key parameters of public transport vehicles. Passengers using public transport want to feel comfortable and safe. Similarly to other Solaris vehicles, trolleybuses are designed to meet diverse needs of their users. The spacious and quiet interior of the Trollino guarantees that travel will be a pleasant experience even for the most demanding passengers. The solutions used have been thoroughly tested and are suitable for different levels of traffic volume.



	standard ●	option ○	Trollino 12	Trollino 15	Trollino 18
Driveline system	CEGELEC TV Europulse (IGBT), 6-pole asynchronous motor 175 kW		○	○	
	CEGELEC TV Europulse (IGBT), 6-pole asynchronous motor 250 kW				○
	CEGELEC TV Europulse (IGBT) two axles powered, two 4-pole asynchronous motors 160 kW				○
	CEGELEC TV Europulse (IGBT) two axles powered, two 6-pole asynchronous motors 175 kW				○
	MEDCOM ANT 175-600 (IGBT), 6-pole asynchronous motor 175 kW		○	○	
	MEDCOM ANT 240-600 (IGBT), 6-pole asynchronous motor 240 kW				○
	Škoda BlueDrive (IGBT), 4-pole asynchronous motor 160 kW		○		
	Škoda BlueDrive (IGBT), 6-pole asynchronous motor 175 kW		○		
	Škoda BlueDrive (IGBT), 6-pole asynchronous motor 250 kW			○	○
	Škoda BlueDrive (IGBT) two axles powered, two 4-pole asynchronous motors 160 kW				○
Vossloh-Kiepe (IGBT), 4-pole asynchronous motor 160 kW		○			
Back-up power source					
energy storage system		○	○	○	
Current collectors					
mechanical pantograph, manually operated		●	●	●	
semi-automatic or automatic pantograph		○	○	○	
Front axle					
ZF independent suspension		●	●	●	
ZF rigid suspension		○	○	○	
Drive axle – ZF gantry axle		●	●	●	
Trailing axle – ZF rigid suspension			●		
Centre axle – ZF gantry axle				●	
Central lubrication					
central lubrication point – solid oil		●	●	●	
central lubrication system with self-diagnostic – semi-fluid oil		○	○	○	
Steering – ZF Servocom		●	●	●	
Brakes					
EBS (dual-circuit) braking system incorporating the anti-blocking system (ABS) and the traction control system (ASR)		●	●	●	
Suspension levelling system					
ECAS air suspension with kneeling function, raising by some 60 mm, lowering by 70 mm		●	●	●	
Bodywork frame – stainless steel		●	●	●	
Side panels – stainless steel and aluminium panels		●	●	●	
Door arrangement		1-2 2-2 1-2-2 2-2-2	1-2 2-2 1-2-2 2-2-2	1-2-2 2-2-2 1-2-2-2 2-2-2-2	
Maximum entrance height					
1 st door		320 mm	320 mm	320 mm	
2 nd door		320 mm	320 mm	320 mm	
3 rd door		340 mm	340 mm	340 mm	
4 th door				340 mm	
Access ramp – wheelchair ramp at the 2nd entrance, positioned and stowed away manually		●	●	●	
Passenger capacity seated (depending on the equipment)		up to 34	up to 50	up to 53	
Air-conditioning in the driver's cabin – with electrical drive		○	○	○	
Air-conditioning in the passenger compartment – with electrical drive		○	○	○	
Ventilation system – dual-function fans (blowing and extraction facility)		●	●	●	
Roof hatches – electric		●	●	●	
Passenger compartment heating system					
electric 1-stage blowers		●	●	●	
water heating, electric water heater TJ40.3 (40 kW), convector-type heaters, 2-stage blowers		○	○	○	
Wiring looms and boards					
CAN-Bus based electrical system		●	●	●	



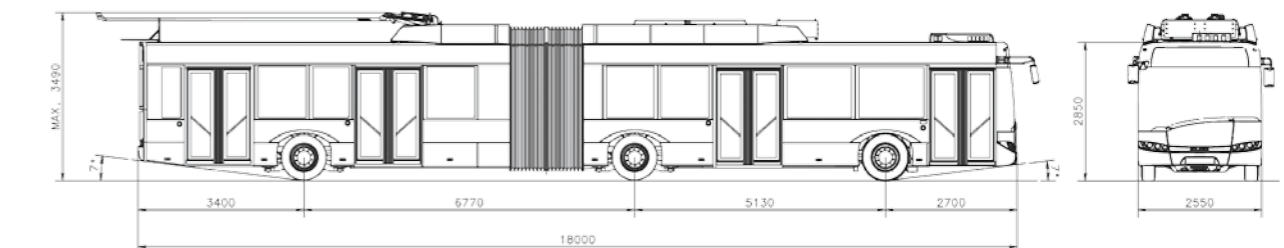
Trollino 12

Interior height 2370 [mm]
 Kerb weight / Gross vehicle weight 11600 - 14100 / 18000 [kg]
 Turning circle ~21,4 [m]



Trollino 15

Interior height 2370 [mm]
 Kerb weight / Gross vehicle weight 12700 - 15500 / 24000 [kg]
 Turning circle ~24 [m]



Trollino 18

Interior height 2370 [mm]
 Kerb weight / Gross vehicle weight 15500 - 18500 / 28000 [kg]
 Turning circle ~23 [m]



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