



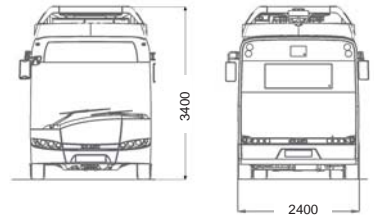
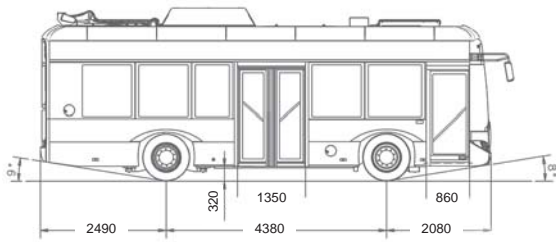
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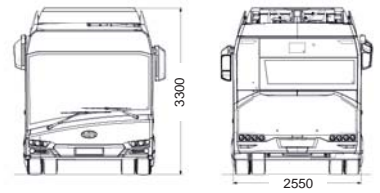
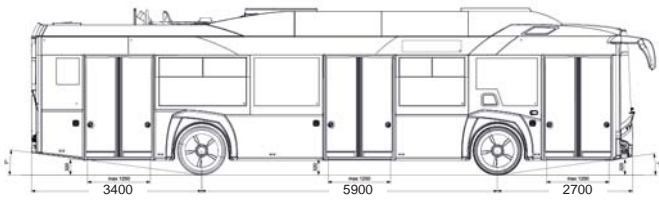
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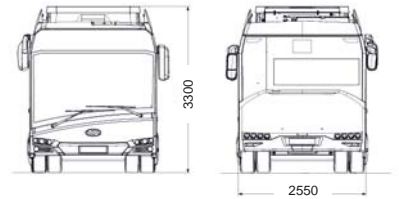
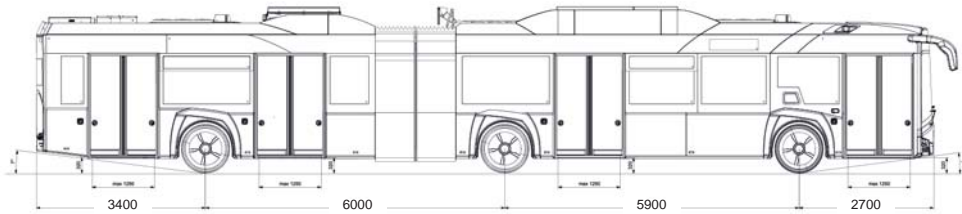
➤ **Urbino 8.9 LE electric**



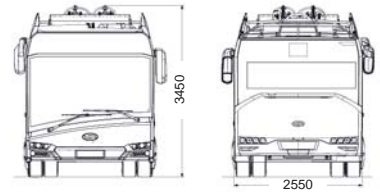
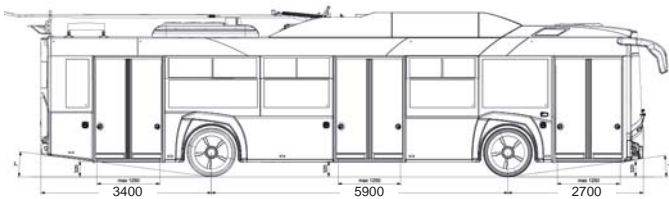
➤ **new Urbino 12 electric**



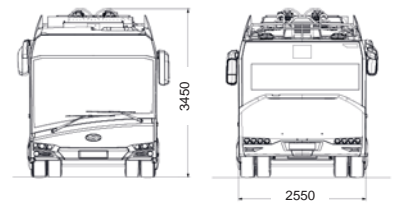
➤ **new Urbino 18 electric**



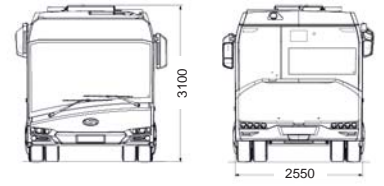
➤ **new Trollino 12**



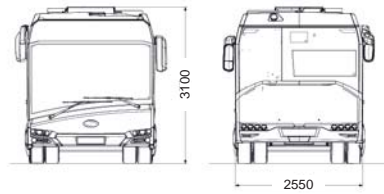
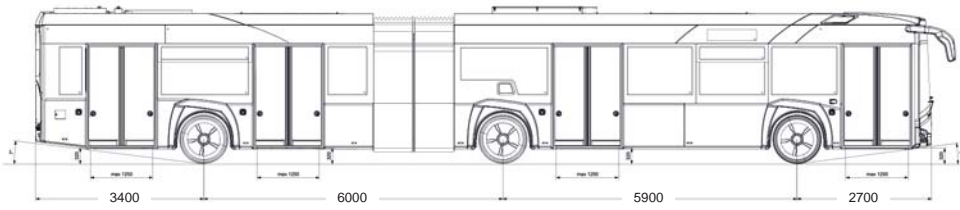
➤ **new Trollino 18**



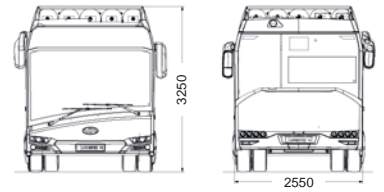
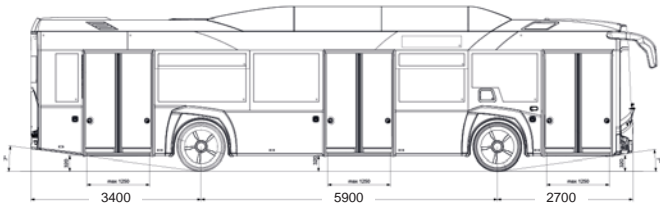
➤ new Urbino 12 Hybrid



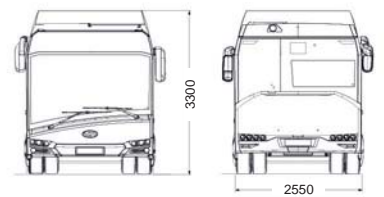
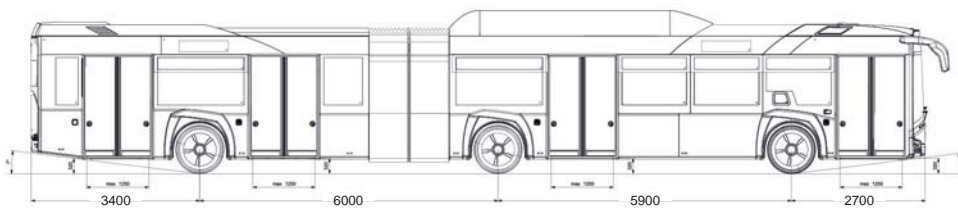
➤ new Urbino 18 Hybrid



➤ new Urbino 12 CNG



➤ new Urbino 18 CNG



		standard •	option ○		Urbino 8,9 LE electric	new Urbino 12 electric	new Urbino 18 electric
Driveline	Motor						
	asynchronous motor 120 kW		•		•		
	asynchronous motor 160 kW		○			•	
	asynchronous motor 240 kW						•
	electric portal axle ZF AVE130 2x60 kW					○	
	Traction batteries						
lithium-ion (capacity depending on specification)		•			•	•	
operation up to 24 h (depending on batteries capacity and charging system)		•			•	•	
Charging system	Charging system						
	plug-in		•		•	•	•
	pantograph		○		○	○	○
Chassis	Front axle						
	ZF independent suspension		•		•	•	•
	ZF rigid gantry axle					○	○
	Drive axle						
	ZF gantry axle					•	•
	ZF gantry axle with integrated electric motors					○*	
	ZF rigid gantry axle		•				
	Central axle						
	ZF neutral axle						•
	Central lubrication						
	central lubrication point output in the chassis – solid lubricating oil		•			•	•
	central lubrication system with self-diagnostic – semi-fluid lubricating oil		○			○	○
	Steering						
	ZF Servocom		•			•	•
	Braking circuit						
	EBS (electronic braking system), ABS (Anti-Lock Braking System), ASR (Acceleration slip regulation)		○			○	•
ESC (Electronic Stabilisation Control)						○	
Suspension levelling system							
ECAS air suspension with function lowering the right side, lowering and raising bus, lowering right side by 70 mm, raising by some 60 mm		•			•	•	
Bodywork	Bodywork frame						
	stainless steel		•		•	•	•
	Side panels						
	removable side panels and wheel arch panels		•		•	•	•
	Door arrangement						
					1-2	1-2-0 2-2-0 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				330 mm	320 mm	320 mm
	3 rd door					320 mm	320 mm
4 th door						320 mm	
Wheelchair ramp							
wheelchair ramp at the 2 nd entrance, stowed away manually		•			•	•	
Passenger capacity seated (depending on door arrangement and batteries)					max. 24	max. 37 + 1	max. 47 + 1
Heating, ventilation and air conditioning	Air-conditioning in the driver's cabin						
	air-conditioning with electric compressor		○		○	○	○
	Air-conditioning in the passenger compartment						
	air-conditioning with mechanical drive		○		○	○	○
Ventilation system							
dual-function fans (blowing and extraction facility)		•			•	•	
Electric installation	Electrical installation						
	electrical installation based on CAN-Bus system		•		•	•	•

*available in selected configurations of equipment

standard ● option ○		new Trollino 12	new Trollino 18
Driveline	Drive system		
	MEDCOM ANT 175-600 (IGBT), asynchronous 175 kW 6-pole motor	○	
	MEDCOM ANT 250-600 (IGBT), asynchronous 250 kW 6-pole motor		○
	Škoda BlueDrive (IGBT), asynchronous 160 kW 4-pole motor	○	
	Škoda BlueDrive (IGBT), asynchronous 250 kW 6-pole motor		○
	Škoda BlueDrive (IGBT) two axles powered, two asynchronous 160 kW 4-pole motor		○
	Back-up power source		
	energy storage system (batteries/supercapacitors)	○	○
	Electric current collectors		
	mechanical pantograph-manually operated	●	●
semi-automatic or automatic pantograph	○	○	
Chassis	Front axle		
	ZF independent suspension	●	●
	ZF rigid gantry axle	○	○
	Drive axle		
	ZF gantry axle	●	●
	Trailing axle		
	ZF neutral axle		●
	Central lubrication		
	central lubrication point output in the chassis – solid lubricating oil	●	●
	central lubrication system with self-diagnostic – semi-fluid lubricating oil	○	○
Steering			
ZF Servocom	●	●	
Braking circuit			
EBS (electronic braking system), ABS (Anti-Lock Braking System), ASR (Acceleration slip regulation)	●	●	
Suspension levelling system			
suspension ECAS with function lowering the right side, lowering and raising bus, lowering right side by 70 mm, raising by some 60 mm	●	●	
Bodywork	Bodywork frame		
	stainless steel	●	●
	Side panels		
	removable side panels and wheel arch panels	●	●
	Door arrangement	1-2-0 2-2-0 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
	2 nd door	320 mm	320 mm
	3 rd door	320 mm	320 mm
	4 th door		320 mm
Wheelchair ramp			
wheelchair ramp at the 2 nd entrance, stowed away manually	●	●	
Passenger capacity seated (depending on equipment)	max. 39 + 1	max. 52 + 1	
Heating, ventilation and air conditioning	Air-conditioning in the driver's cabin		
	air-conditioning with electric compressor	○	○
	Air-conditioning in the passenger compartment		
	air-conditioning with mechanical drive	○	○
	Ventilation system		
	two-way (blowing and extraction unit)	●	●
	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	●	●	
Electric installation	Electrical installation		
	electrical installation based on CAN-Bus system	●	●

*available in selected configurations of equipment

standard ● option ○		new Urbino 12 CNG	new Urbino 18 CNG
Drivetrain system	Engine		
	Cummins ISLG8.9E6 320 (239 kW)	●	●
	Cummins ISLG 6C 320 (239 kW)	●	●
	Transmission		
	ZF Ecolife	●	●
	Voith Diwa 6	○	○
	Gas tanks		
	composite gas cylinder 4 x 315 l	●	
	composite gas cylinder 5 x 315 l	○	○
	composite gas cylinder 5 x 340 l	○	○
composite gas cylinder 5 x 375 l		●	
Auxiliary heating system			
additional heater	○	○	
Chassis	Front axle		
	ZF independent suspension	●	●
	ZF rigid suspension	○	○
	Drive axle		
	ZF gantry axle	●	●
	Central axle		
	ZF neutral axle		●
	Central lubrication		
	central lubrication point output in the chassis – solid lubricating oil	●	●
	central lubrication system with self-diagnostic – semi-fluid lubricating oil	○	○
Steering			
ZF Servocom	●	●	
Brakes			
EBS (electronic braking system), ABS (Anti-Lock Braking System), ASR (Acceleration slip regulation)	●	●	
Auxiliary brake			
transmission-integrated retarder	●	●	
Suspension levelling system			
suspension ECAS with function lowering the right side, lowering and raising bus, lowering right side by 70 mm, raising by some 60 mm	●	●	
Bodywork	Bodywork frame		
	stainless steel	●	●
	Side panels		
	removable side panels and wheel arch panels	●	●
	Door arrangement		
		1-2-0	1-2-2
		2-2-0	2-2-2
		1-2-2	1-2-2-2
		2-2-2	2-2-2-2
	Maximum entrance height		
1 st door	320 mm	320 mm	
2 nd door	320 mm	320 mm	
3 rd door	320 mm	320 mm	
4 th door		320 mm	
Wheelchair ramp			
wheelchair ramp at the 2nd entrance, stowed away manually	●	●	
Passenger capacity seated (depending on equipment)	max. 37 + 1	max. 49 + 1	
Heating, ventilation and air conditioning	Air-conditioning in the driver's cabin		
	air-conditioning with electric compressor	○	○
	Air-conditioning in the passenger compartment		
	air-conditioning with mechanical drive	○	○
	Ventilation system		
	dual-function fans (blowing and extraction unit)	●	●
	Roof hatches		
	manual	●	●
	electric	○	○
	Passenger compartment heating system		
convector-type heaters	●	●	
2-stage blowers	●	●	
Electrical installation	Electrical installation		
	electrical installation based on CAN-Bus system	●	●

*available in selected configurations of equipment

standard • option ○		new Urbino 12 Hybrid	new Urbino 18 Hybrid
Engine Euro6			
Cummins ISB 6,7 CE6 300 H (157 kW)			•
Cummins ISB 4,5 E6C 210 H (157 kW)		•	
Hybrid System			
type			
Energy storage system		•	•
Traction motor of 120 kW continuous power		•	
Traction motor of 200 kW continuous power			•
Generator of 145kW power		•	
Generator of 200kW power			•
Fuel tank			
200 l		•	
310 l		○	
360 l			•
AdBlue-tank			
40 litres		•	•
Auxiliary heating system			
additional heater		○	○
additional biofuel heater with a separate Eberspächer tank		○	○
Front axle			
ZF independent suspension		•	•
ZF rigid gantry axle		○	○
Trailing axle			
ZF neutral axle			•
Drive axle			
ZF gantry axle		•	•
Central lubrication			
central lubrication point output in the chassis – solid lubricating oil		•	•
central lubrication system with self-diagnostic – semi-fluid lubricating oil		○	○
Steering			
ZF Servocom		•	•
Braking circuit			
EBS (electronic braking system), ABS (Anti-Lock Braking System), ASR (Acceleration slip regulation)		•	•
Auxiliary brake			
electrodynamic brake (with energy recovery)		•	•
Suspension levelling system			
suspension ECAS, lowering the right side by 70 mm, raising by some 60 mm		•	•
Bodywork frame			
stainless steel		•	•
Side panels			
removable side panels and wheel arch panels		•	•
Door arrangement		1-2-0 2-2-0 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
2 nd door		320 mm	320 mm
3 rd door		320 mm	320 mm
4 th door			320 mm
Wheelchair ramp			
wheelchair ramp at the 2 nd entrance, stowed away manually		•	•
Passenger capacity seated (depending on door arrangement and batteries)		max. 37 + 1	max. 49 + 1
Air-conditioning in the driver's cabin			
air-conditioning with electric compressor		○	○
Air-conditioning in the passenger compartment			
air-conditioning with mechanical drive		○	○
Ventilation system			
dual-function fans (blowing and extraction unit)		•	•
Roof hatches			
manual		•	•
electric		○	○
Passenger compartment heating system			
convector-type heaters		•	•
2-stage blowers		•	•
Electrical installation			
electrical installation based on CAN-Bus system		•	•

*available in selected configurations of equipment

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