



SOLARIS

COMMON
DIRECTION >

Changing the image of public transportation

www.solarisbus.com



DIRECTION >

Bi-articulated Solaris Trollino 24, IMC systems and „super Trolley”

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Solaris Bus & Coach



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> E-mobility path



Trolleybus
2001



APU
2003



Batteries
2004



Development of
**recuperation
systems**



Electric Bus
2011





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› Experience

- › Solaris is the **leading manufacturer of trolleybuses in EU and EFTA states** – 40% share
- › Experience in the assembly of trolleybuses since **2001**
- › **Multiple vehicle lengths** (12, 18 and 24 m)
- › 4 partners for **electric drivelines**
- › **17** markets
- › **50** cities

1342 trolleybuses delivered
to **17** European countries*

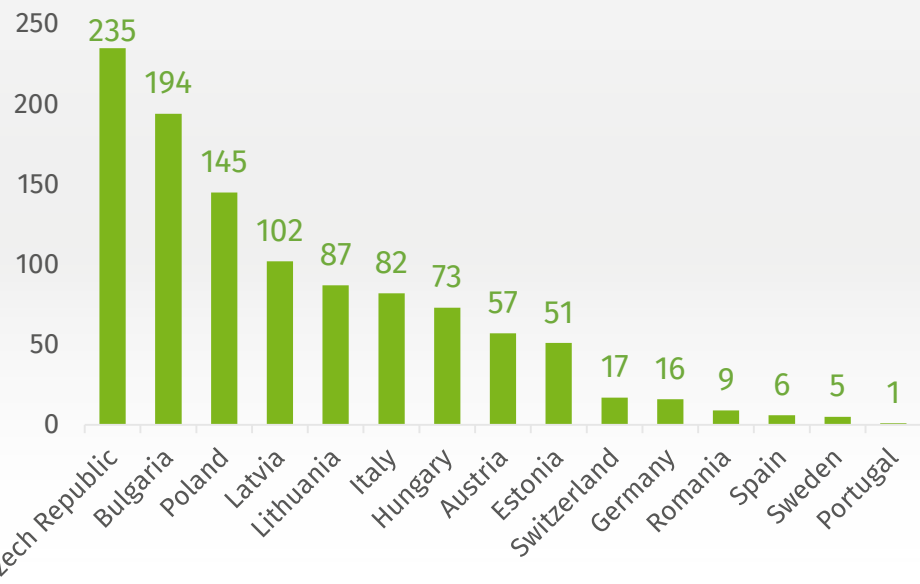
*condition as of 31/03/2019 r.





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Experience





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› Lengths

› 12 metres



› 18 metres



› 24 metres



TROLLINO 12



TROLLINO 18



TROLLINO 24



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> New products

SOLARIS TROLLINO 24 bi-articulated trolleybus

> THE WORLD PREMIERE

18-23 October 2019

busworld.
EUROPE **BRUSSELS**

1 **Batteries** recharging
during the drive
(58 kWh)

2 Driveline with **two
traction motors**
propelling two drive
axles

> New products

Solaris Trollino 24 in MetroStyle design

- > The 24-metre bi-articulated Solaris Trollino 24 was in **Gdynia**, for **homologation tests**



Length	24,700 mm
Width	2,550 mm
Height	3,450 mm
Front overhang	2,700 mm
Rear overhang	2,750 mm
Wheelbase	5,900 / 6,000 / 7,350 mm
Front axle	Independent axle
Second drive axle	Gantry axle
Third drive axle	Gantry axle
Fourth steering axle	Rigid axle
Traction motor	2 x 160 kW
Batteries	58 kWh
Air-conditioning	Driver's cabin and passenger compartment
No. of seats	53
Pedestal free seats	14
Passenger capacity	Presented version 185, up to a total of 215*
Entrance height	320 mm
Articulation mechanism	Electronically controlled
GVW	37,000 kg



> Specification



Trollino 12

12,000 mm

18,000-19,000 kg

up to 70 km/h

AC with electric
compressor (3 x 400 V)

Electric heater, electric

option

in-motion charging
plug-in

Trollino 18

18,000 mm

28,000-30,000 kg

up to 70 km/h

AC with electric compressor
(3 x 400 V)

Electric heater, electric

option

in-motion charging
plug-in

Trollino 24

24,700 mm

38,000 kg

up to 70 km/h

AC with electric compressor
(3 x 400 V)

Electric heater, electric

option

in-motion charging
plug-in

Length

GVW (gross vehicle weight)

Maximum speed

Air conditioning

Heating

Batteries

Battery charging

> New product

Przedsiębiorstwo Komunikacji Trolejbusowej, Gdynia

6 x **Trollino 12 Electric** synergy of
trolley and e-bus

Technical details



IMC charger:
150kW double insulated



Solaris High Power batteries
with capacity of **87 kWh**



Electric motor
central motor **160 kW**

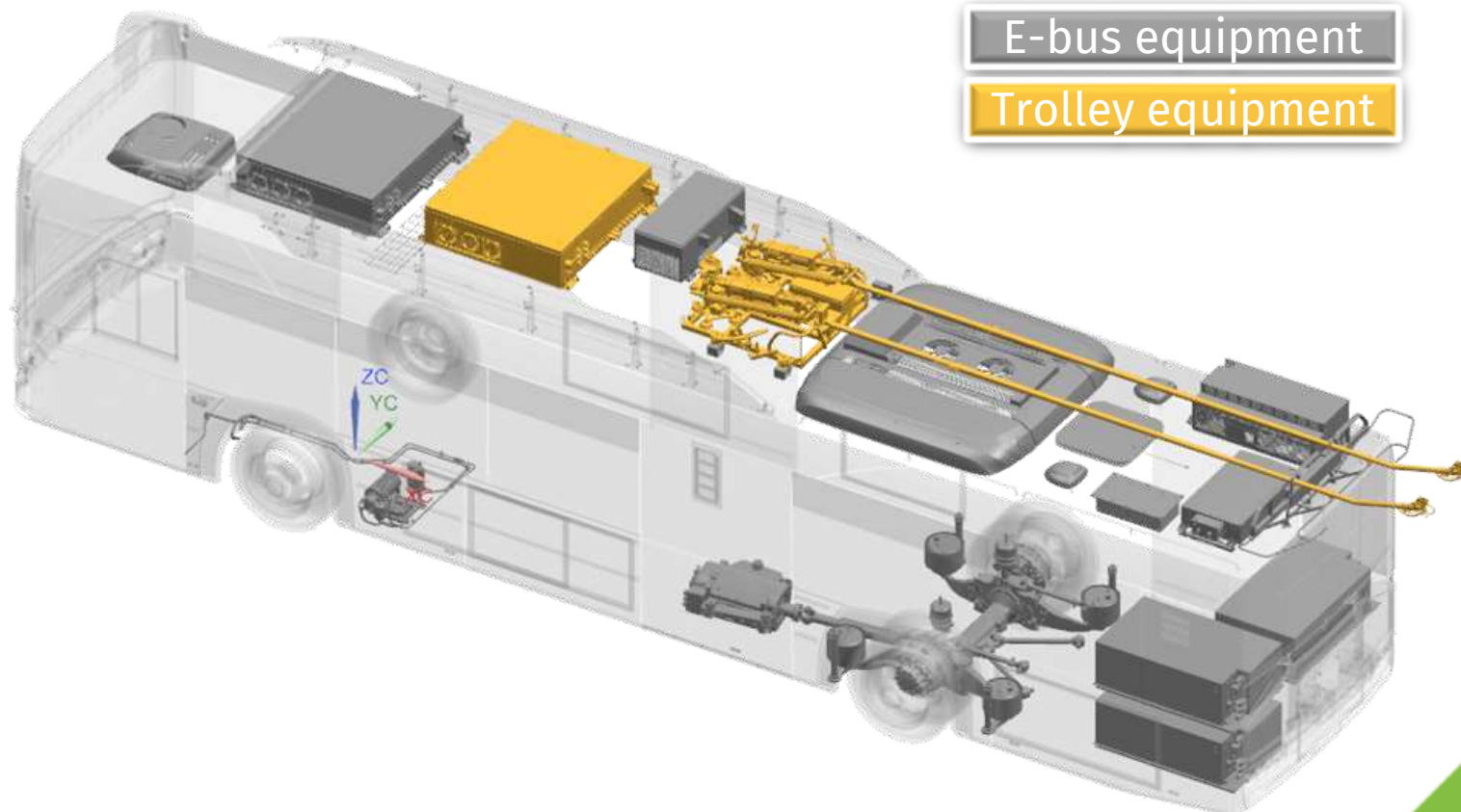


E-bus
driveline

Gdynia, Poland

E-bus equipment

Trolley equipment





SOLARIS
by DAF Group

**Thank You
for your attention!**

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