

e.COBUS³⁰⁰⁰

STAY IN
e.MOTION



COBUS
INDUSTRIES

THE NEW e.COBUS 3000 – A NEW DIMENSION OF e.ELECTRIC AIRPORT BUSES



e.COBUS 3000 – 100% ELECTRICAL

Based on the COBUS airport bus, COBUS Industries GmbH presents the first fully electric airport bus: e.COBUS 3000. In addition to diesel and gas powered buses which have been operating very successfully at airports worldwide for almost three decades, the e.COBUS 3000 is the first 100% electrically operated COBUS.



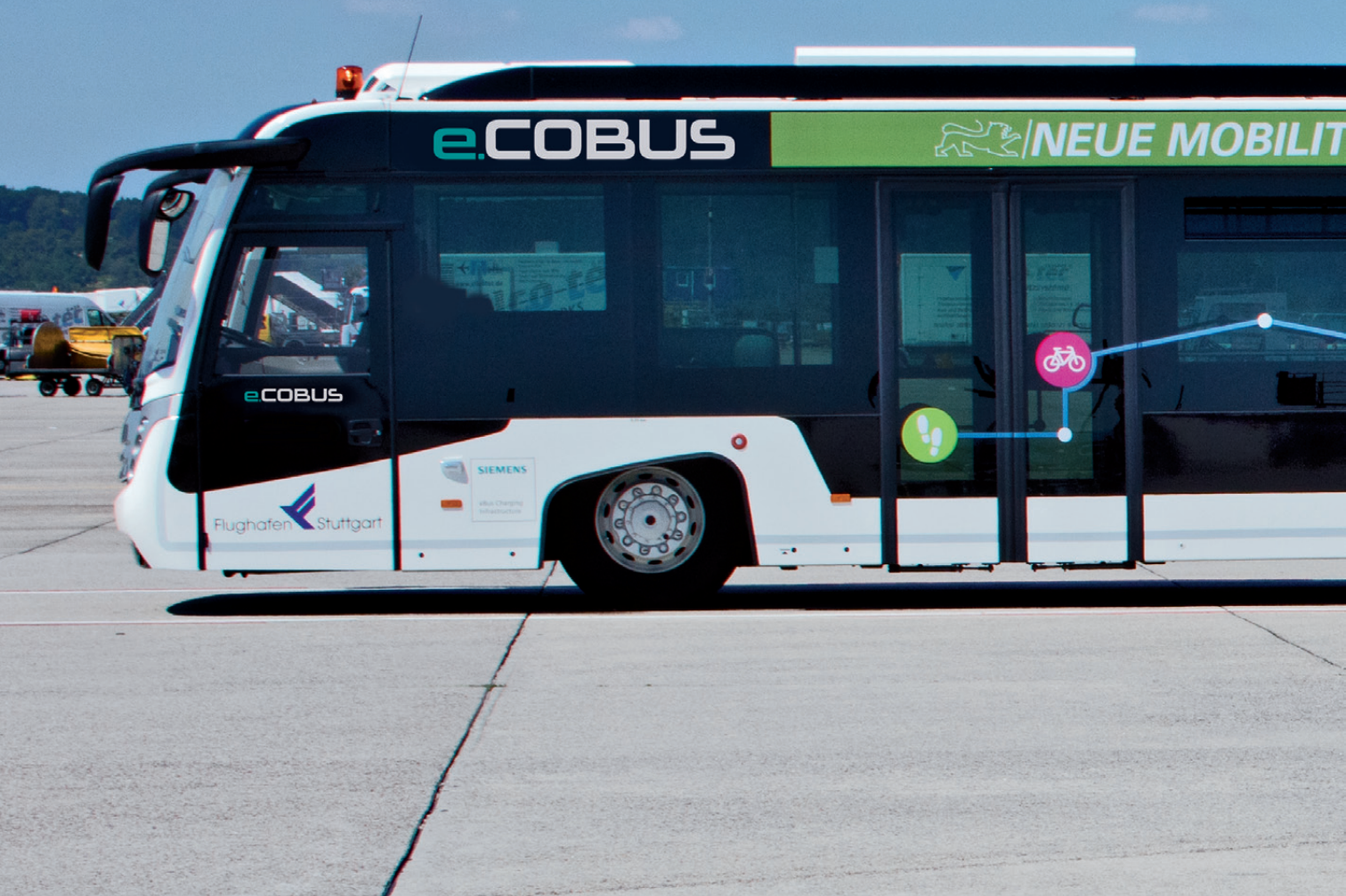
The e.COBUS 3000 presents COBUS Industries' initiative to an increasing demand for environmental protection.



Some outstanding features: The permanent-magnet synchronous motor of the e.COBUS 3000 is powered by Lithium-Titanate-Oxide (LTO) batteries which provide a total capacity of up to 120 kWh. Charging of batteries is accomplished at external charging stations. Complete recharging of batteries provides an operating range of up to 100 kms / 14 operating hours (depending on charger output). The combination of complete recharging of the bus and a fast interim recharging process during idle periods results in a smooth and efficient operation at the airport.

HELLO FUTURE – THE e.COBUS

DETAILS MAKE THE DIFFERENCE



ADVANTAGES – NOT ONLY FOR THE ENVIRONMENT

- Zero emissions
- Quick recharging capability
- 100% electric
- Range of up to 100 kms / 14 operating hours



- Low operation and maintenance costs
- Full space available in passenger compartment
- LTO battery technology
- Low noise and vibration levels

BATTERIES ON THE ROOF TOP

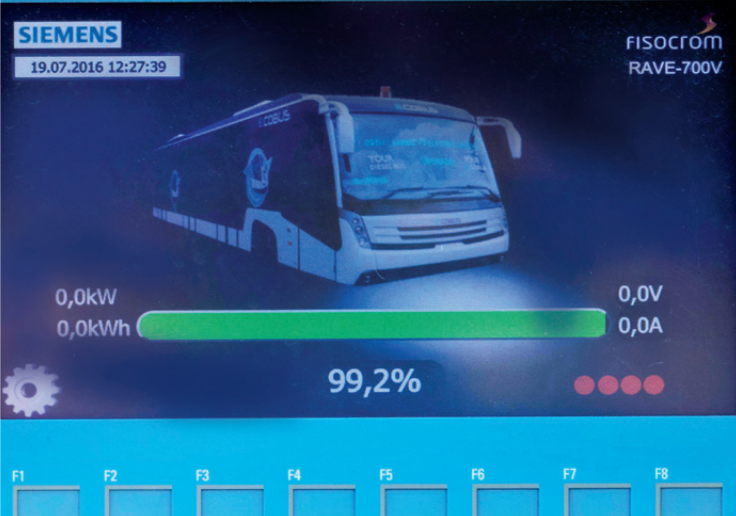


EXTERNAL CHARGING STATION



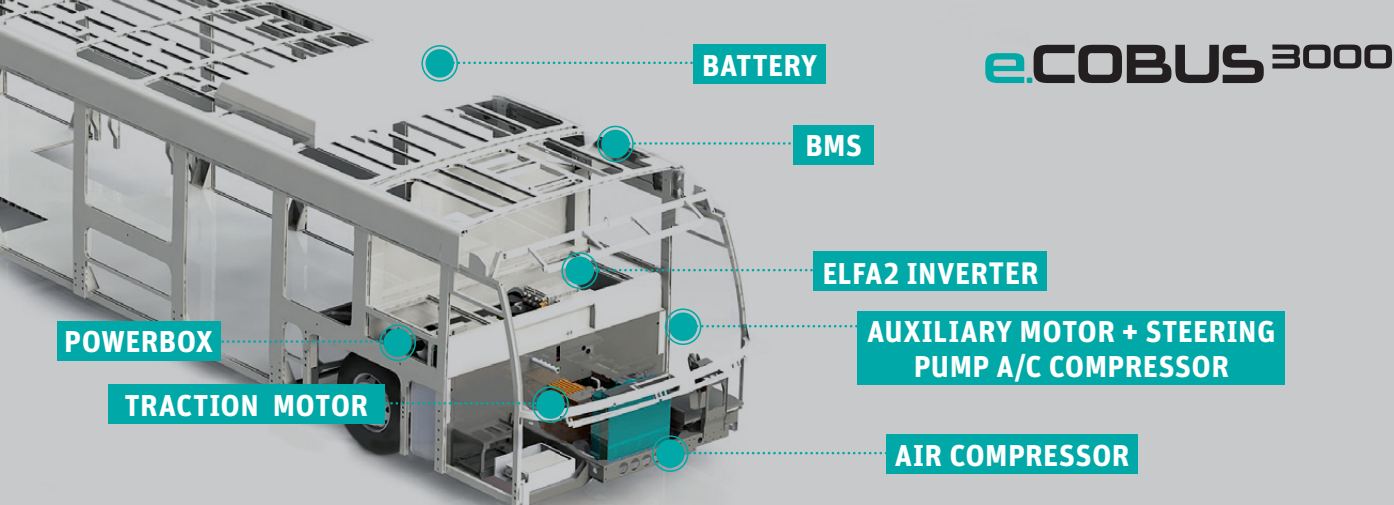
BATTERY CHARGING MONITOR

SIPLUS HMI



CHARGING e.COBUS





COBUS Chassis

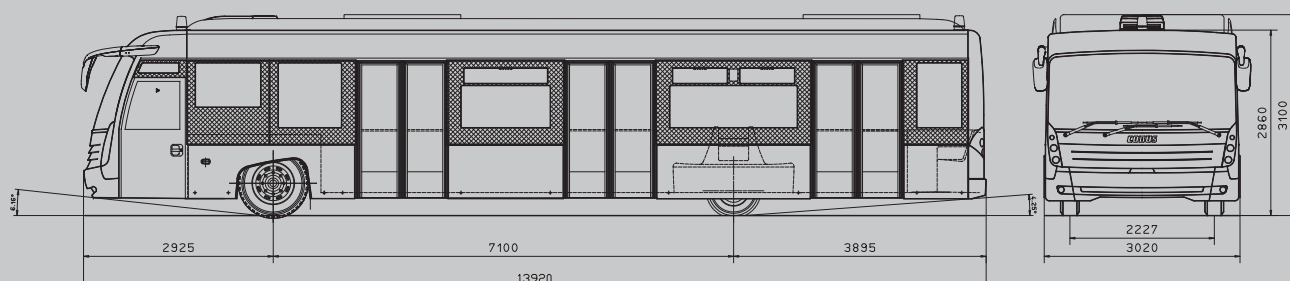
Chassis model	MERCEDES BENZ BF 30 low floor
Motor	SIEMENS ELFA system, permanent-magnet synchronous motor, rated power 160 kW
Batteries	Lithium Titanate Oxide (LTO) or similar, capacity 36-120 kWh (adjustable to customers' requirements).
Traction Inverter	SIEMENS DC-AC IGBT inverter
Charger	Onboard charger 7 or 14 kW, input 400 V AC, output 700 V DC, external DC fast chargers, 30 - 150 kW available, input 400 V AC, output 700V DC
Charging time	30 min - 3 hours (depending on charger output)
Brake	Pneumatic 2-circuit brake system & regenerative brake system
Length	13,920 mm
Width	3,000 mm
Height (max.)	3,100 mm
Headroom inside	2,400 mm
Wheel base	7,100 mm
Suspension	Pneumatic with „kneeling system“
Heating system	Biodiesel, 30 kW or electric
Entrance step height	Approx. 290 mm
Gross vehicle weight	20,400 kg
Load capacity	Approx. 7,800 kg
Turning radius	14,069 mm

COBUS Industries GmbH // technical specifications subject to change

COBUS Body

Body	CO-BOLT aluminium body with a lifetime of at least 25 years
Passenger capacity	Up to 110 PAX, including 8 – 14 seats
Floor	Completely low floor without steps or inclination
Passenger doors	3 automatic doors per side of extra wide design
Standard equipment	Air conditioning for driver's cabin, 2 electrically operated roof hatches in the passenger compartment

The COBUS fulfils the requirements of the IATA Aircraft Handling Manual 950





COBUS INDUSTRIES GmbH

Max-Planck-Ring 43 . 65205 Wiesbaden . Germany

Phone +49(0)6122 - 95 53- 0 . Fax +49(0)6122 - 51 461

E-mail info@cobus-industries.de . Internet www.cobus-industries.de

MEMBER OF



SALVADOR CAETANO GROUP