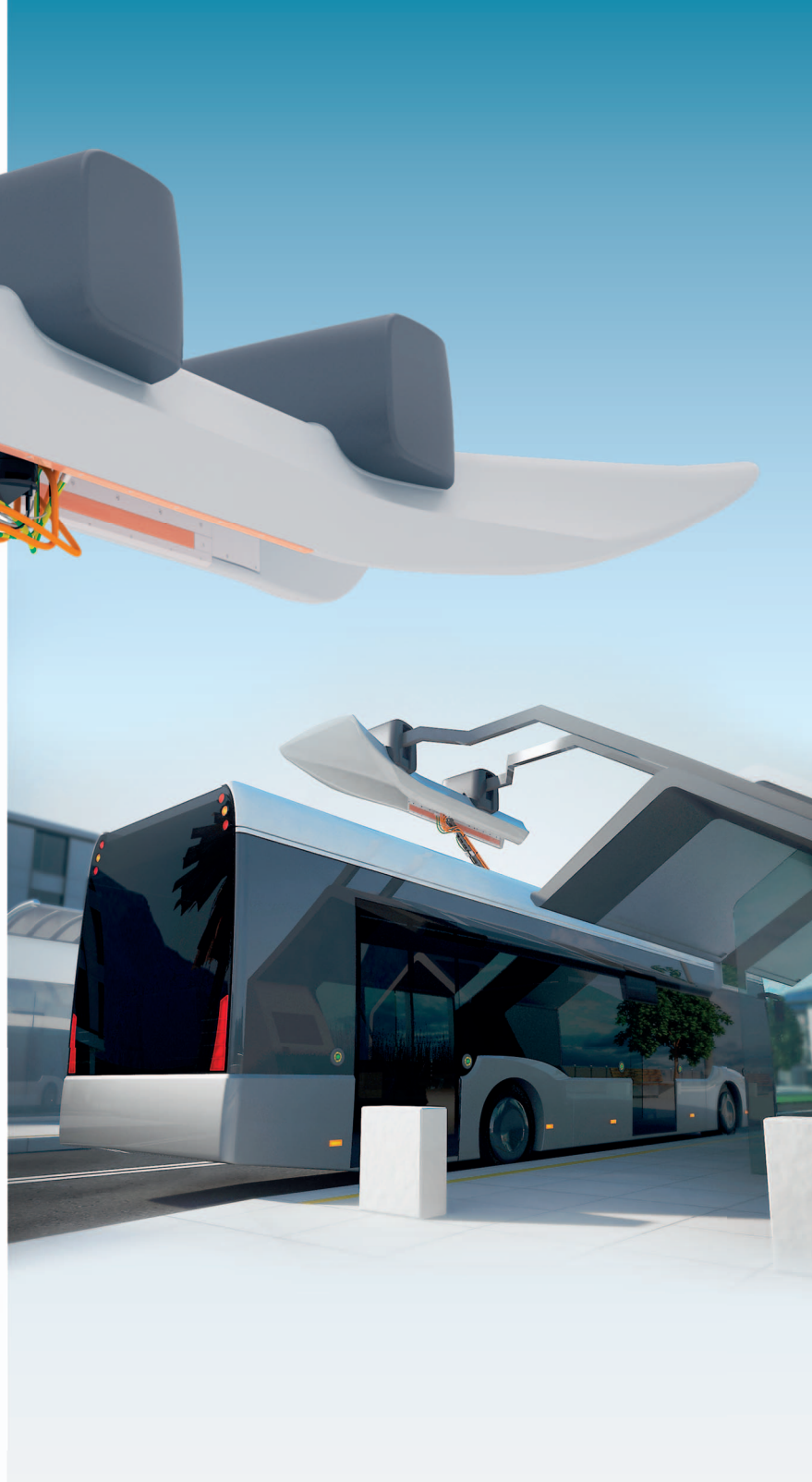


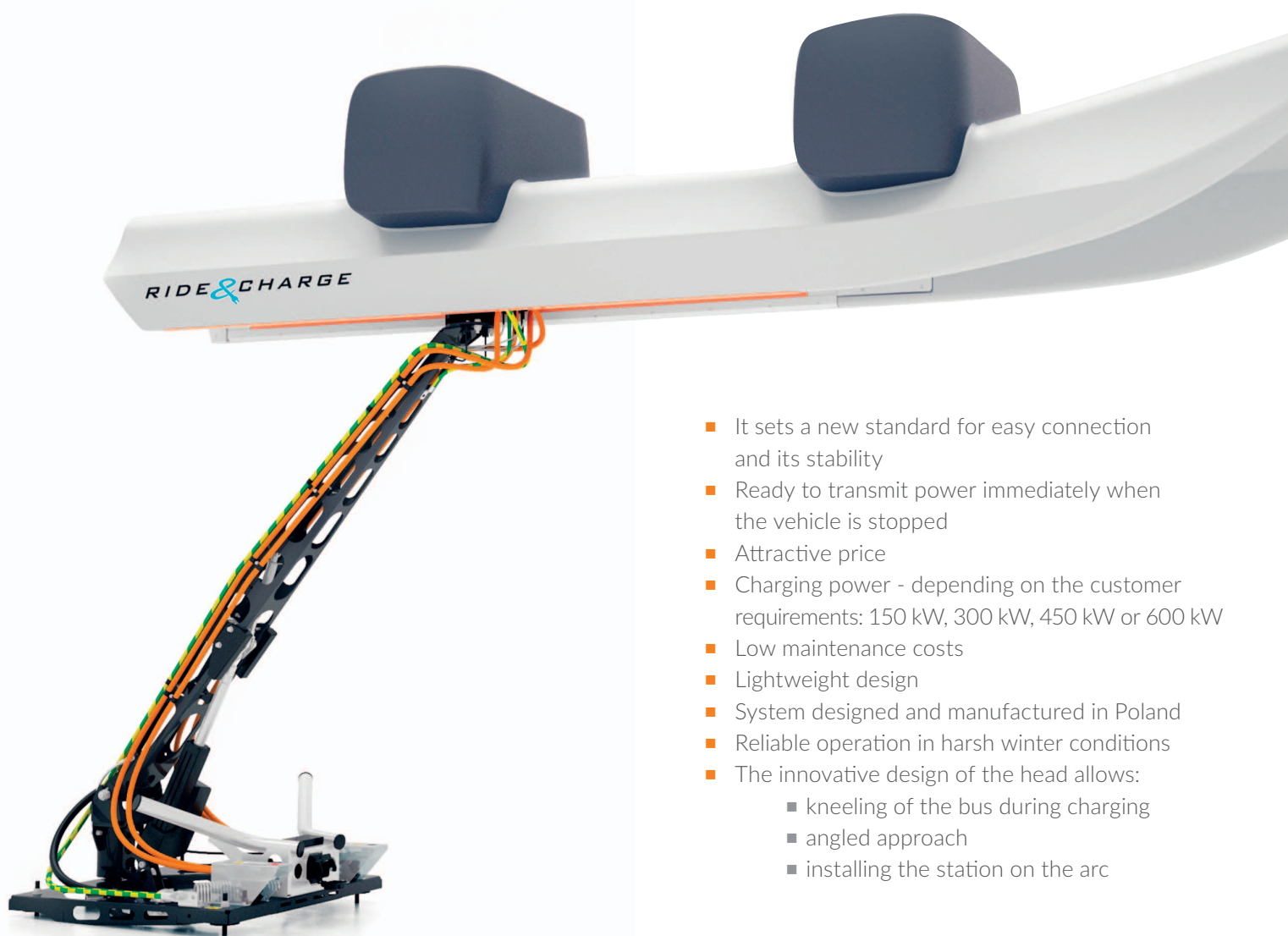
RIDE & CHARGE



CURRENT COLLECTION  
SYSTEM FOR CHARGING  
OF **ELECTRIC BUSES**

# RIDE & CHARGE

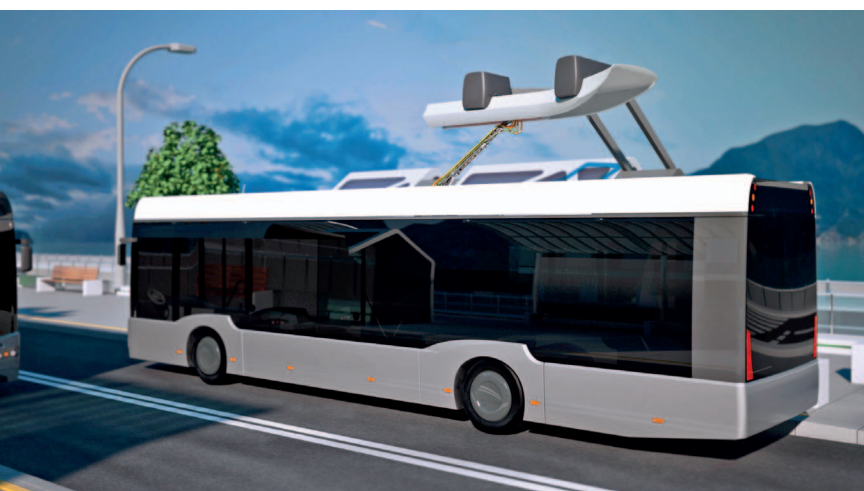
Innovative current collector facilitating charging of electric buses.



- It sets a new standard for easy connection and its stability
- Ready to transmit power immediately when the vehicle is stopped
- Attractive price
- Charging power - depending on the customer requirements: 150 kW, 300 kW, 450 kW or 600 kW
- Low maintenance costs
- Lightweight design
- System designed and manufactured in Poland
- Reliable operation in harsh winter conditions
- The innovative design of the head allows:
  - kneeling of the bus during charging
  - angled approach
  - installing the station on the arc

---

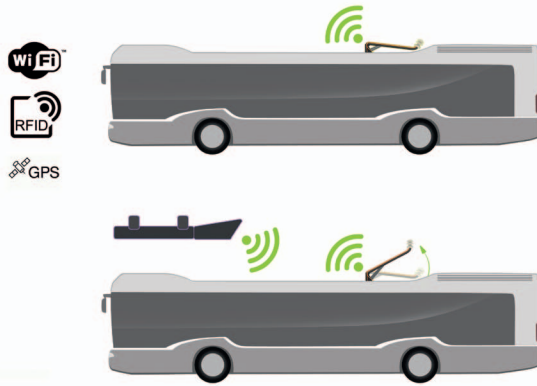
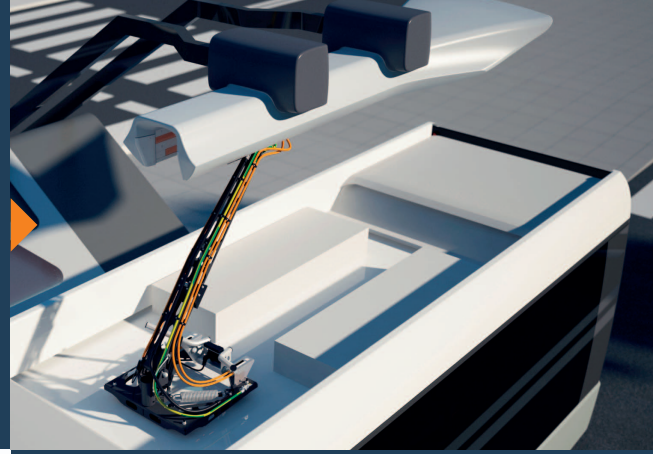
The Ride & Charge system allows charging with **600 kW**



## The Ride and Charge

is a system consisting of current collector and docking station

Five-pole head ensures safety during charging and data transmission.

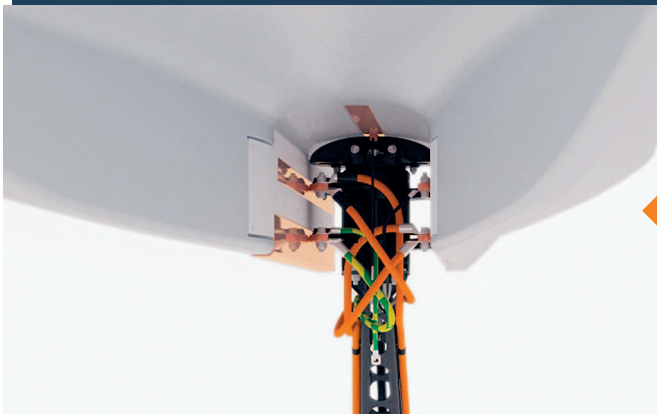
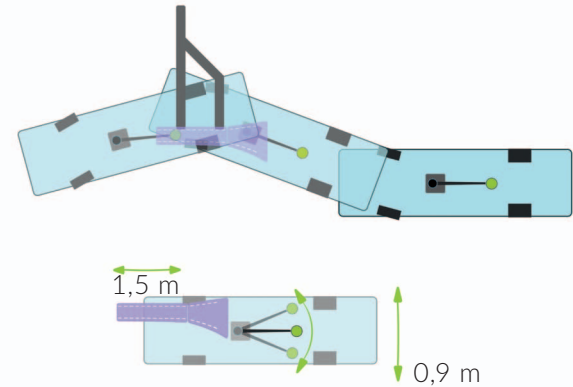


## The charging process is fully automated

The pantograph opens automatically when the bus approaches the station. Charging process starts when the vehicle stops. The time required for system preparation is limited to the minimum.

## Very high tolerances for bus approach

Tolerance for a stop for charging in the field with the dimensions 0.9 m x 1.5 m.  
Option to charge the bus positioned at an angle to the main axis of the charging station.



## 5-pole head

5-pole system (plus, minus, grounding, communication, grounding control)  
Potentials are isolated. The head can be rotated in charging channel about three axes without interruption of charging process (vertical axis  $\pm 36^\circ$ , side tilt  $\pm 5^\circ$ )

## Technical parameters

Type	RC 10
Rated voltage	(Battery) 600 V
Maximum current intensity	1000 A
Maximum power	600 kW
Lifting time	maks. 3 sek.
Lowering time	maks. 4 sek.
Weight	~80 kg
Temperature range	-30°C do +65°C

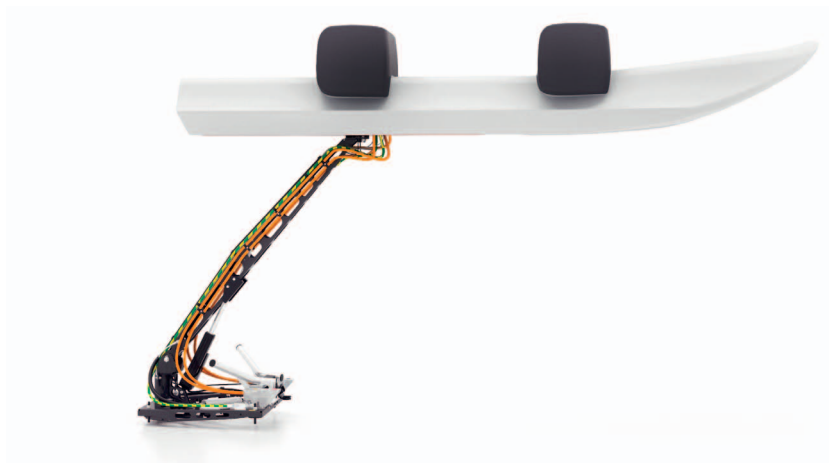


**INNOVATIVE  
ECONOMY**  
NATIONAL COHESION STRATEGY

Project co-financed from  
the European Union funds

**EUROPEAN UNION**  
EUROPEAN REGIONAL  
DEVELOPMENT FUND





**EC** ENGINEERING

**EC Engineering Sp. z o.o.**

Armii Krajowej 28  
30-150 Cracow  
Poland  
T +48 12 341 89 00  
e-mail: office@ec-e.pl

**Manufacturing facility – Cracow**

32-003 Podtęże 659  
Poland  
T +48 532 518 839  
e-mail: office@ec-e.pl

**Manufacturing facility - Mielec**

Wojska Polskiego 3  
39-300 Mielec  
Poland  
T +48 17 773 95 00  
e-mail: office.mielec@ec-e.pl

[www.ec-e.pl](http://www.ec-e.pl)