

INTELLIGENT CURRENT COLLECTOR ICC

CURRENT COLLECTOR SYSTEM FOR IN MOTION CHARGING BUSES AND TROLLEY BUSES

- Automatic wiring with lateral offset to the overhead line
- Low installation height of 530 mm
- Maximized usable installation space below the poles
- Maximized current carrying capacity for demanding charging processes even when stationary
- Quick and easy maintenance owing to the optimized mounting concept and sensor technology
- Compatible with CAN J1939
- Adjustable overhead line contact pressure between 80 and 150 N
- Constant overhead line contact pressure curve over the entire overhead line height range
- Complete system can be ordered with additional options, such as fuses, isolating contactors, spotlights, camera system and line contactors
- Compliant to functional safety (ISO26262)
- In-house developed captive insulators
- Plug and play system with standard interfaces

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General

Thanks to its compact and optimized design, the new intelligent Current Collector (ICC) offers more installation space below the poles than existing trolley bus current collector systems. This creates space for additional components to be installed on the roof, such as traction batteries.

The improved control of the poles ensures that the retrieving processes are better controlled in the event of a dewirement. The compact current collector base integrates all the necessary components, so that the interfaces to the vehicle are simplistic. Thanks to the

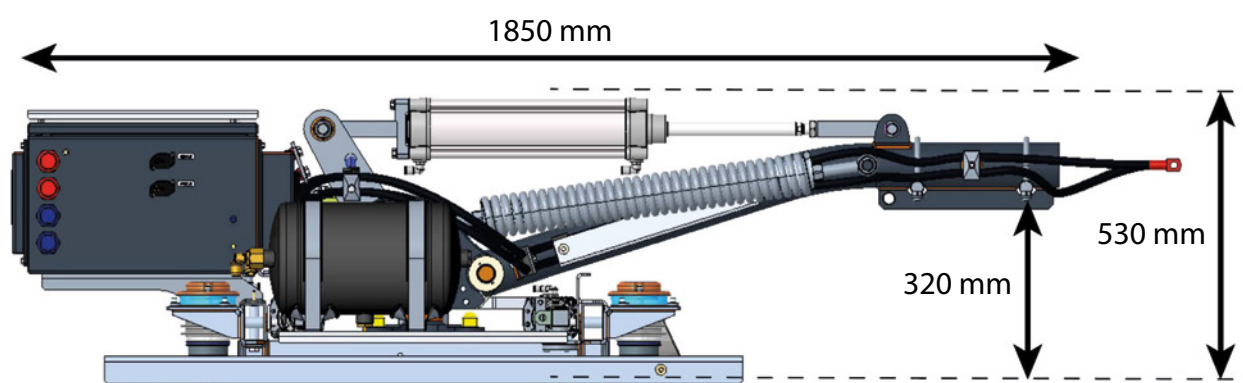
plug-and-play approach, the new ICC is easy to integrate, both in new vehicles and in existing vehicles as part of a modernization project. Optional equipment installations such as spotlights or a camera system for observing the entire current collector working range from the operators' area simplify the operating procedure for the drivers and maintenance staff.

The ICC's integrated sensor technology supports maintenance work by automatically identifying, locating and diagnosing system faults.

Technical Data

Variants	ICC100 (Basic): System without lateral automatic rewiring function ICC200 (Smart): System with semi-automatic wiring-in function (into funnel) ICC300 (Plus): System with fully automatic wiring-in function (without funnel)
Wide	1850 mm
Height	530 mm
Weight	< 420 kg (depending on equipment)
Maximum working voltage	900 V
Maximum current carrying capacity	600 A (for 10 minutes at standstill)
Overhead line voltage	600 V / 750 V nominal voltage
Reachable overhead line heights (depending on the mounting height on the bus roof)	3600 -7500 mm

ICC Dimensions



KIEPE ELECTRIC Kiepe Electric GmbH | Kiepe-Platz 1 | 40599 Düsseldorf | Germany

Kiepe Electric Germany, Düsseldorf
info.kiepe@knorr-bremse.com | +49 211 74 97 0

Kiepe Electric Switzerland, Niederbuchsiten
info.kes@knorr-bremse.com | +41 62 389 88 88

Kiepe Electric Italy, Cernusco sul Naviglio
info.kiepe-italy@knorr-bremse.com | +39 02 92 14 81 48

Kiepe Electric Austria, Mödling
kiepe.austria@knorr-bremse.com | +43 2236 409 0

Kiepe Electric USA, Alpharetta, GA
info.ATL@kiepe.knorr-bremse.com | +1 770 754-0918

Kiepe Electric Canada, Vancouver, BC
info.VAN@kiepe.knorr-bremse.com | +1 604 324 2454

