



Transit
Charging up in Seconds

Highly efficient busbars for shorter charging times



There's no stopping e-mobility now

Short charging times are crucial –
and with Schunk Smart Charging it takes just seconds

All around the world, mobility is becoming more environment friendly, more networked, more efficient and easier. Schunk has been a part of this development from the very beginning. We are driving forward the development of e-mobility and are opening up new, emission-free and highly practical drive alternatives that adapt flexibly to the respective operating parameters of our customers. For example, our Schunk Smart Charging system for e-buses and industrial e-vehicles enables automated, reliable charging of the batteries via a roof-mounted charging current collector or an inverted current collector. For the latter variant, we now offer an advanced rail system that allows a higher power transmission and thus shorter charging times.



The rail system: higher performance and greater flexibility

Our inverted current collector SLS 201 is just such a solution – it creates the globally proven standard for the flexible, fast and reliable charging of electric buses and battery-powered industrial trucks. In combination with the advanced rail system, it will be possible to transfer even higher charging currents in future and reduce re-charging times yet further.

A big advantage of Schunk Smart Charging has always been that our charging system can be integrated individually into existing charging infrastructures. The advanced rail system now offers an even more adaptable connection on the vehicle side: Power cables can be mounted flexibly over the entire length of the busbars – in various numbers and with different cable diameters.

The new interface does not only enable higher power transmission. It also offers improved temperature dissipation due to its increased surface area, which in combination with our corresponding SLS 201 inverted current collector additionally increases system performance.

Exploit the advantages of the new busbar system:

- Continuous power transmission of approx. 1,000 A
- Low temperature development due to increased surface area of the busbars
- Flat configuration with height of only 80 mm possible
- Variable and flexible interfaces to the vehicle:
 - Different number of cables per rail possible (up to four)
 - Different positioning of the cable connections on a rail
 - Different cable cross-sections (50 mm², 95 mm², 120 mm²) and cable lug dimensions possible
- Completely closed surface – no interruption for cable fixing necessary
- Mounting positions and interfaces identical to the current contact and therefore 1:1 interchangeable

Schunk - A worldwide success

Always at your side

With its globally active business unit Transit Systems, Schunk is one of the world's leading providers of efficient power transmission and charging systems for local and long-distance transportation. Its pioneering developments set technological milestones.

With Schunk Smart Charging, the intelligent charging systems for electric buses and other electrically powered vehicles, Schunk is a leading technology partner on the way to emission-reduced local transport.

Within the highly specialized technology portfolio for the railway industry, Schunk offers current collectors (pantographs) for overhead wire and third-rail systems, grounding contacts, shaft grounding systems and wheel flange lubrication systems as well as perfectly matched carbon collector strips, carbon collector shoes and carbon brushes including brush holders.

Schunk Group

The Schunk Group is a globally operating technology company. The company is a leading supplier of products made of high-tech materials - such as carbon, technical ceramics and sintered metal - as well as machines and systems - from environmental simulation and air conditioning to ultrasonic welding and optical machines. The Schunk Group has more than 9,100 employees in 29 countries and achieved sales of €1.35 billion in 2019.



Schunk Transit Systems GmbH

Hauptstrasse 97

35435 Wetzlar Germany

Phone +49 641 803 0

Fax +49 641 803 139

E-Mail sales.0077@schunk-group.com

schunk-transitsystems.com



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