



Schunk Carbon Technology

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 Carbon Technology 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 Carbon Technology: Always at your side.

Schunk Carbon Technology focuses on development, manufacture and application of carbon and ceramic solutions. It combines innovative spirit and technological expertise with exceptional customer service to provide a range of products and services unique to the market.

In Schunk Carbon Technology, you have a partner who can offer all the technological possibilities of an international company and implement ideas custom-tailored to your needs, both for high-volume industrial markets and for highly specialized niche markets. After all, this is our commitment: Ahead in Carbon Technology. Closer to your Business.

A Schunk Group division.

Enabling, idea-driven, cooperative - if you hope to apply technology to develop better products and capture new markets, we can help. The Schunk Group has been supporting customers with innovative technologies since 1913. As an idea-driven technology company, innovation is fundamental to our culture. We forge long-lasting, cooperative working relationships with our clients.

You will find our custom-tailored high-tech products and systems in markets such as carbon technology and ceramics, environmental simulation and air conditioning, sintered metals and ultrasonic welding. The Schunk Group is active in a large number of key industries, from automotive, rail, aviation and marine technologies to solar and wind energy, medical and electrical technology as well as the semiconductor industry. Our more than 8,500 employees in 29 countries are ready to serve you.



Schunk Bahn- und Industrietechnik GmbH

Hauptstrasse 97

35435 Wettenberg, Germany

Phone +49 (0) 641 803 0

Fax +49 (0) 641 803 139

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

schunk-carbontechnology.com



17.08e/250/2019