



Carbon Technology

Schunk Smart Charging

The latest generation for e-busses



Next Stop: Recharging

Schunk Smart Charging now even more efficient

Our new pantograph SLS 103 is a technological milestone, that sets unrivaled standards in the market for pantograph systems thanks to many years of development competence. The pantograph permits the recharging of vehicles of various heights in just seconds, even doubledeckers—with a single charging current collector and very high power transfer. Furthermore, it can be customized to individual customer demands as well as to all existing recharging infrastructure.



SLS 103 pantograph

- ↪ Ultra-high power transfer of up to 1 MW
- ↪ Simple integration thanks to compact design
- ↪ Higher working range: 1,200–2,200 mm
- ↪ Fast contacting under 5 seconds
- ↪ Safety and reliability through multipole design and contact sequence
- ↪ Recharging of vehicles of various heights possible

Reliable in Use

In the real world instead of on paper:
our SLS 102 und SLS 201 pantographs

More and more cities and communities want to replace diesel busses with electric vehicles. But for this to be feasible, both ecological and profitability factors have to be taken into consideration. With Schunk Smart Charging both outcomes are successful.

Our intelligent technologies permit recharging within seconds during the bus operation, simple integration into existing infrastructure as well as the optimal balance between battery size, passenger-capacity utilization and driving range. As one of the world's leading manufacturers of recharging technology for the opportunity charging of battery-powered electrical busses, we have been helping our customers bring electrical mobility to the streets for years.

Your major benefits at a glance:

SLS 102 pantograph

- ↪ "Bottom-Up" contacting principle
- ↪ High rate of current transmission of up to 750 kW
- ↪ Recharging complete in just seconds
- ↪ Large compensation of parking tolerances
- ↪ Well-suited for opportunity charging, flash charging and depot charging



SLS 201 pantograph

- ↪ Attachment to the infrastructure side
- ↪ "Top-Down" contacting principle
- ↪ High rate of current transmission of up to 500 kW
- ↪ Compensation of vehicle movement during recharging
- ↪ Spring suspension drive system means no interruption of contact during recharging process



Schunk Carbon Technology: A worldwide success. 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.

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, environment simulation and air-conditioning technology, sintered metal 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 to the chemical and machine production industries. Our 8,000 employees in 29 countries are ready to serve you.

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