Schunk Transit System

Inverted pantograph SLS 201.401

Automated fast charging for industrial and port vehicles

Applications

Automated high-current charging for electric straddle carriers, terminal tractors, AGVs, and other industrial vehicles in demanding operating environments such as ports and logistics centers.

Key technical data

Feature	Description
System type	Inverted current collector, type SLS 201.401
Installation	Fixed to infrastructure (e.g., ceiling, gantry, crane) – top-down
Contacting	Flexible 4-pin interface for perfect compensation of vehicle movements during recharging
Current	High current capable (up to 1,200 A for several minutes)
Voltage	1.000-1.500Vdc
Charging cycles	>100 cycles per day in continuous operation
Position deviation	Integrated mechanical tolerance compensation
Maintenance	Few maintenance cycles, no moving parts on the vehicle
Safety	Emergency shutdown, light barrier, RFID possible

Advantages at a glance

> No space requirements or weight on the vehicle
> Automatic, fast charging process
> Suitable for outdoor areas and harsh environments
> Ideal for intermediate charging at high throughput
> Modularly expandable and flexibly integrable

Project: Pier 400, Port of Los Angeles

> 2x SLS 201.401 in operation
> 100 charging cycles per day
> Approx. 125 t CO2 savings per carrier per year
> Supports Net Zero target by 2030 (APM Terminals)

Further information:
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