



TII SCHEUERLE SPMT - ePPU

IMAGE SOURCE: TII Group

Strength meets sustainability: zero-emission electric drive for SCHEUERLE SPMTs

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- TII SCHEUERLE introduces a fully electric, zero-emission Power Pack Unit (ePPU) for its SPMTs, matching the performance of diesel-driven units.
- The ePPU's battery capacity supports a full working day without recharging, ideal for strict environmental tendering criteria and enclosed spaces.
- The electric drive system helps reduce CO2 emissions, aligning with global commitments to limit global warming.

- The ePPU is compatible with SCHEUERLE SPMT axle lines from technical generation 2 to 4, maintaining high performance and traction.
- Benefits include lower noise emissions, improved air quality, and enhanced occupational safety, creating a better working environment.
- The ePPU offers increased efficiency, lower energy and maintenance costs, and quick charging capabilities, enhancing operational cost-effectiveness.

TII SCHEUERLE has expanded its range of Power Pack Units (PPU) to include a fully electric, locally emission-free version. The ePPU is just as efficient and high-performing as the most powerful diesel-driven PPU. Its battery capacity has been designed to supply the SCHEUERLE SPMT with sufficient operating power for an entire working day without requiring any recharging. The zero-emission drive system allows all heavy-load logistics providers to reduce the CO2 footprint of their transports thereby opening up new business models for them by being ideally suited for meeting particularly strict tendering criteria regarding environmental impact. The zero-emission drive is also ideal for operation in enclosed spaces and tunnels.

Countries around the world have committed themselves to reducing CO2 emissions in order to limit global warming. Battery-electric zero-emission drive systems will play a major role in ensuring that goods can be transported locally without any CO2 and pollutant emissions. TII Group subsidiary, TII SCHEUERLE, the industry expert for heavy-duty transport both on and off-road, helps all heavy-load logistics providers to carry out even the most complex transport tasks in the most sustainable way possible. For this purpose, TII SCHEUERLE has introduced an innovative, electrically-driven Power Pack Unit (ePPU). It is compatible with all SCHEUERLE SPMT axle lines of the technical generation 2 to 4. The industry expert, who has been repeatedly recognised as the world market leader for self-propelled modular transporters, is thus once again demonstrating its innovative capacity and commitment to ensuring that even the heaviest and largest loads can be transported in the most sustainable way possible.

In addition to the special sustainability, there are also other advantages in favour of using electrically powered SPMTs. Zero-emission drive systems can open up new business models if they are a central condition when tendering. Furthermore, investments in a sustainable transport fleet in Europe have a positive impact on the so-called **ESG rating (Environment, Social, Governance)**.

Pleasant working environment: personnel benefit from zero-emission operations

Because an all-electric drive does not emit any pollutants, it does not affect the air quality even in enclosed spaces and tunnels, and therefore does not have a negative impact on the health of the operating personnel. In addition, the ePPU produces substantially lower noise emissions that leads to a quiet working environment which is another significant advantage for employees and also when used in populated areas. As communication between operators is much easier due to the low noise level, occupational safety levels has also been optimised.

Efficient and high-performance: electric drive ensures cost-efficient use and optimum traction

Fleet operators do not have to worry about any disadvantages when compared to the proven Power Packs. The ePPU provides the same high performance as the Z390 model, the most powerful diesel-powered version in the SCHEUERLE SPMT range to date. This makes the ePPU suitable for the operation of up to 26 driven pendulum axles or alternatively up to 40 conventional axle lines. Thanks to the special characteristics of an electric motor, the ePPU even has a number of special advantages. The dynamic power output, whereby maximum torque is immediately available, ensures an excellent starting performance along with a very high level of traction thus allowing the transport speed to be reached very quickly.

At the same time, the ePPU leads to increased efficiency as well as lower energy and maintenance costs. Electric motors are up to four times more energy efficient than diesel engines and consume only a minimum of energy when idling. They also have fewer moving parts so technical malfunctions occur even less frequently. The maintenance requirements of the ePPU are likewise extremely low.

Practice-oriented: sufficient battery capacity for one working day

The zero-emission drive receives its energy from a lithium-ion battery. Its capacity has been designed to be sufficient to accommodate operational requirements during one working day without having to recharge. It is also possible to quickly charge the energy storage system thus increasing a level of 20 up to 80 per cent in less than 30 minutes via a CCS power plug with up to 300 kW or via an AC grid connection with up to 44 kW overnight or during longer downtimes.

Source: TII Group